TECHNICAL APPENDICES

INITIAL STUDY/MITIGATED NEGATIVE DECLARATION
490 EL CAMINO REAL MIXED USE PROJECT

A. Air Quality

Illingworth & Rodkin, Inc. 2015. *490 El Camino Real—Davey Glen Project in Belmont, CA—Preliminary Screening for Toxic Air Contaminants and GHG.* January 28, 2015

B. Biological Resources

HortScience, Inc. 2015. *Updated Arborist Report, Davey Glen—Belmont, CA.* February 2015.

C. Geology/Soils

Rockridge Geotechnical. 2015. *Final Geotechnical Investigation Mixed-Use Development—400-490 El Camino Real Belmont, CA.* January 29, 2015.

D. Greenhouse Gas Emissions

Illingworth & Rodkin, Inc. 2015. *490 El Camino Real—Davey Glen Project in Belmont, CA—Preliminary Screening for Toxic Air Contaminants and GHG.* January 28, 2015.

E. Hazards and Hazardous Materials

West Environmental Services & Technology. 2014. *Phase I Environmental Site Assessment-400-490 El Camino Real Belmont, CA.* August 2014.

F. Hydrology/Water Quality

1. Sares-Regis. 2014. *C.3 and C.6 Development Review Checklist.*

2. BKF. 2014. *Davey Glen—490 El Camino Real Storm Water Management Analysis.* August 11, 2014.

G. Noise

1. Illingworth & Rodkin, Inc. 2014. *Environmental Noise Feasibility Assessment Davey Glen Project, Belmont, CA.*

2. Illingworth & Rodkin, Inc. 2015. *Response to City Comments on Environmental Noise Feasibility Assessment Davey Glen Project, Belmont, CA.*

H. Transportation/Traffic

Fehr & Peers. 2015. *400- 490 El Camino Real Transportation Assessment.* February 26, 2015.

I. Utilities/Service Systems

1. BKF. 2014. *Davey Glen Sewer Capacity Analysis.* April 7, 2014.

2. BKF. 2014. *Water Demand Projection Worksheet—Davey Glen Project.* August 29, 2014.

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A. AIR QUALITY

Illingworth & Rodkin, Inc. 2015. *490 El Camino Real—Davey Glen Project in Belmont, CA—Preliminary Screening for Toxic Air Contaminants and GHG.* January 28, 2015

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January 28, 2015

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VIA E-Mail: Jeff Smith JSmith@srgnc.com

SUBJECT: 490 El Camino Real – Davey Glen Project in Belmont, CA -- Preliminary Screening for Toxic Air Contaminants and GHG

Dear Jeff:

Illingworth & Rodkin, Inc. conducted a review of the air quality, toxic air contaminant (TAC) and greenhouse gas (GHG) issues associated with proposed residential development that Sares Regis is considering in Belmont, CA. We understand that residential development is being considered at 490 El Camino Real, on a 1.85-acre site that is bounded to the east-northeast by El Camino Real and by Davey Glen Road to the north-northwest. There is a residential development to the west and Central Elementary School and commercial buildings to the south. The project currently considers 73 residential units and 5,000 square feet of retail uses fronting El Camino Real. Our understanding of the site layout is based on the Conceptual Site Plan, dated August 11, 2014. We assume there is the potential for residential development immediately adjacent to El Camino Real.

One purpose of this letter is to identify potential sources of TACs that could adversely affect residential development at this site and identify the significance of those effects. Screening tools developed by the Bay Area Air Quality Management District (BAAQMD) were used to provide preliminary estimates of TAC exposure from any nearby sources. Of concern are emissions of TACs, particularly diesel particulate matter (DPM), and fine particulate matter ($PM_{2.5}$) from nearby roadway and stationary sources of air pollution. DPM is a TAC due to its potential to cause cancer. In addition, a preliminary analysis of GHG emissions is presented to indicate whether or not there would be significant CEQA issues associated with GHG emissions from the project.

BAAQMD Significance Thresholds

In June 2010, BAAQMD adopted thresholds of significance to assist in the review of projects under CEQA. These Thresholds were designed to establish the level at which BAAQMD believed air pollution emissions would cause significant environmental impacts under CEQA

and were posted on BAAQMD's website and included in the Air District's updated CEQA Guidelines (updated May 2011). The significance thresholds identified by BAAQMD and used in this analysis are summarized in Table 1.

BAAQMD's adoption of significance thresholds contained in the 2011 CEQA Air Quality Guidelines was called into question by an order issued March 5, 2012, in California Building Industry Association (CBIA) v. BAAQMD (Alameda Superior Court Case No. RGI0548693). The order requires BAAQMD to set aside its approval of the thresholds until it has conducted environmental review under CEQA. The ruling made in the case concerned the environmental impacts of adopting the thresholds and how the thresholds would indirectly affect land use development patterns. In August 2013, the Appellate Court struck down the lower court's order to set aside the thresholds. However, this litigation remains pending as the California Supreme Court recently accepted a portion of CBIA's petition to review the appellate court's decision to uphold BAAQMD's adoption of the thresholds. The specific portion of the argument to be considered is in regard to whether CEQA requires consideration of the effects of the environment on a project (as contrasted to the effects of a proposed project on the environment). Therefore, the significance thresholds contained in the 2011 CEQA Air Quality Guidelines are applied to this project.

Table 1. Air Quality Significance Thresholds

Pollutant	Construction Thresholds	Operational Thresholds	
	Average Daily Emissions (lbs./day)	Average Daily Emissions (lbs./day)	Annual Average Emissions (tons/year)
Criteria Air Pollutants			
ROG, NOx, $PM_{2.5}$ (exhaust)	54	54	10
NO_x	54	54	10
PM_{10} (exhaust)	82	82	15
CO	Not Applicable	9.0 ppm (8-hr) or 20.0 ppm (1-hr average)	
Fugitive Dust (PM_{10}, $PM_{2.5}$)	Best Management Practices	Not Applicable	
Health Risks and Hazards for Sources within 1,000 feet of Project			
Excess Cancer Risk	10 per one million		
Chronic or Acute Effects	1.0 Hazard Index		
Incremental $PM_{2.5}$	0.3 $\mu g/m^3$ annual average		
Health Risks and Hazards for Sensitive Receptors (Cumulative from all sources within 1,000 foot zone of influence) and Cumulative Thresholds for New Sources			
Excess Cancer Risk	100 per one million		
Chronic Hazard Index	10.0		
Annual Average $PM_{2.5}$	0.8 $\mu g/m^3$		
Greenhouse Gas Emissions			
GHG Annual Emissions	1,100 metric tons or 4.6 metric tons per capita		

Note: ROG = reactive organic gases, NOx = nitrogen oxides, PM_{10} = course particulate matter or particulates with an aerodynamic diameter of 10 micrometers (µm) or less, $PM_{2.5}$ = fine particulate matter or particulates with an aerodynamic diameter of 2.5µm or less; and GHG = greenhouse gas.

TAC Impacts

Community health risk assessments typically look at all substantial sources of TACs located within 1,000 feet of project sites. These sources include State highways, busy surface streets, rail lines, and stationary sources identified by BAAQMD. A review of BAAQMD's Google Earth map tools, used to identify highway and stationary sources along with screening risk and hazard impacts, identified El Camino Real (Highway 82) and one stationary source near the project site. Not contained in the BAAQMD tools is the CalTrain rail line that is about 170 feet from the project site. This line includes diesel-powered locomotive trains.

Roadway Community Risk Impacts

The BAAQMD *Highway Screening Analysis Tool*, a Google Earth map tool, is used to identify estimated risk and hazard impacts from highways throughout the Bay Area[1]. Screening level TAC impacts are provided for each State highway in each county for discrete distances from 10 feet to 1,000 feet. The ground level community risk impacts associated with various distances from El Camino Real (Highway 82) are provided in Table 1, based on the BAAQMD *Highway Screening Analysis Tool* for a ground level elevation (El Camino Real, Link 124, 6-foot elevation).

As indicated in Table 1, development of the project site with ground-floor sensitive receptors that are within 50 feet of the edge of the nearest El Camino Real travel lane could pose potentially significant cancer risk to future residents that need to be analyzed using refined modeling methods. Exposures further away would not have significant effects.

Table 1 Roadway Community Risk Levels

Distance from Near Lane	Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Chronic Hazard Index	Acute Hazard Index
El Camino Real				
25 ft West	**12.619**	0.193	0.017	0.03
50 ft West	9.682	0.148	0.013	0.025
75 ft West	7.953	0.122	0.011	0.023
BAAQMD Single Source Threshold	*10.0*	*0.3*	*1.0*	*1.0*

Note: Bold values indicate potentially significant exposures.

Refined Roadway Community Risk Impacts – W. El Camino Real

Since the project plans indicate residential uses within 50 feet of El Camino Real traffic lanes, a refined modeling analysis of the excess cancer risk was conducted. In the vicinity of the project area W. El Camino Real has 32,000 average daily trips (ADT), as reported by Caltrans.[2] A review of the traffic information reported by Caltrans indicates that W. El Camino Real traffic

[1] Available at http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx (accessed 8/15/2014)

2 California Department of Transportation. 2014. *2013 Traffic Volumes on the California State Highway System*.

includes 1.3 percent trucks, of which 0.3 percent are considered heavy duty trucks and 1.0 percent are medium duty trucks.[3]

This analysis involved the prediction of DPM, organic TACs, and $PM_{2.5}$ emissions for traffic on W. El Camino Real using the CARB EMFAC2011 emission factor model and the traffic mix developed from Caltrans data. EMFAC2011 is the most recent version of the CARB motor vehicle emission factor model. DPM emissions are projected to decrease in the future and are reflected in the EMFAC2011 emissions data. Emission factors were developed for the year 2020 to conservatively represent all years of exposure using the calculated mix of cars and trucks on W. El Camino Real. Default EMFAC2011 vehicle model years for Santa Clara County were assumed for 2020. Average hourly traffic distributions for Santa Clara County roadways were developed using the EMFAC model,[4] which were then applied to the average daily traffic volume in the project area to obtain estimated hourly traffic volumes and emissions for W. El Camino Real traffic near the project site. Traffic volumes were assumed to increase by about 1-percent per year. An average travel speed of 30 mph (5 miles below the posted speed limit) was assumed for all hours. Use of 2020 emissions as being representative of conditions in 2018, 2019 and the future is a conservative assumption since overall vehicle emissions, and in particular diesel truck emissions will decrease in the future.

Emissions of total organic gases (TOG) were also calculated for 2020 using the EMFAC2011 model. These TOG emissions were then used in the modeling the organic TACs. TOG emissions from both exhaust and from running evaporative loses from gasoline vehicles were calculated using EMFAC2011 with default model values for Santa Clara County along with the traffic volumes and vehicle mixes for W. El Camino Real. The emission rates used in the analysis are shown in *Attachment 1*.

Dispersion modeling of DPM and $PM_{2.5}$ emissions was conducted using the CAL3QHCR model, which is recommended by the BAAQMD for this type of analysis. A five-year data set (2001 through 2005) of hourly meteorological data for the San Carlos Airport obtained from the BAAQMD was used in the modeling. Other inputs to the model included road geometry, hourly traffic volumes, emission factors, and receptor locations. North and south bound traffic on W. El Camino within about 1,000 feet of the project site were evaluated with the model. The modeling used a grid of receptors with receptors spaced every 5 meters (16.4 feet) within the proposed residential area of the project site. Since the project residences would be on the ground floor and higher levels, receptor heights of 1.5 meters (4.9 feet) and 4.5 meters (14.8 feet) were used to represent breathing heights for residences on the ground floor and upper levels, respectively. Figure 1 shows the roadway links and residential receptor locations used in the modeling.

Using the modeled long-term average DPM and TOG concentrations, the individual cancer risks were computed using the most recent methods recommended by BAAQMD.[5] The factors used to compute cancer risk are highly dependent on modeled concentrations, exposure period or duration, and the type of receptor. The exposure level is determined by the modeled

3 California Department of Transportation. 2014. *2013 Annual Average Daily Truck on the California State Highway System*

4 The Burden output from EMFAC2007, CARB's previous version of the EMFAC model, was used for this since the current web-based version of EMFAC2011 does not include Burden type output with hour by hour traffic volume information.

5 BAAQMD, 2010. *Air Toxics NSR Program Health Risk Screening Analysis (HSRA) Guidelines*. January.

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. BAAQMD 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 BAAQMD recommended Age Sensitivity Factors to the cancer risks for residential exposures, accounting for age sensitivity to toxic air contaminants. Age-sensitivity factors reflect the greater sensitivity of infants and children to cancer causing TACs. The cancer risk calculations were based on applying the BAAQMD recommended 70 year average age-sensitivity factor of 1.7 to the TAC concentrations based on 2020 emissions.

The maximum increased cancer risk was computed as 2.2 in one million. This was modeled at a ground level receptor in the northern area of the project closest to W. El Camino Real, and is shown on Figure 1. Cancer risks at other locations and at higher floor levels would be lower than the maximum risk. Details of the modeling and cancer risk calculations are shown in *Attachment 1*. The maximum increased cancer risk is below the BAAQMD's threshold of 10 in one million excess cancer cases per million. *Therefore, this impact would be considered less than significant and no mitigation would be required.*

BAAQMD-Permitted Stationary Sources

BAAQMD's *Stationary Source Screening Analysis Tool* was used to identify stationary sources that may affect future residential development at the site. This is a Google Earth map tool used to identify BAAQMD permitted stationary sources. The linked database includes the associated estimated cancer risk and hazard impacts predicted by BAAQMD. Table 2 lists the sources and associated community risk levels for all sources identified within 1,000 feet of the site.

Table 2 Stationary Source Community Risk Levels

Source	**Cancer Risk (per million)**	**Annual $PM_{2.5}$ ($\mu g/m^3$)**	**Acute or Chronic Hazard Index**
Plant 4862 - Summit Auto Body Painting, 320 Old Country Road	0.57	0.0	0.01
BAAQMD Single Source Threshold	*10.0*	*0.3*	*1.0*

Note: Plants 7835, 11280, 13058, and 1245 not listed since published community risk levels were 0.0 or lower for each category.

Railroad Community Risk Impacts

The project site is located near the Caltrain rail line, and rail activity currently generates TAC and $PM_{2.5}$ emissions from locomotive exhaust. Current plans indicate the project site is 170 feet or further from the Caltrain line. The Peninsula Corridor Electrification Project is a key component of the Caltrain Modernization program that would electrify the Caltrain Corridor from San Francisco to San Jose. Under this program diesel-locomotive hauled trains would be converted to Electric Multiple Unit or EMU trains by 2020.

This rail line is used for passenger and freight service by trains using diesel fueled locomotives. Due to the proximity of the rail line to the proposed project, potential health risks to future residents at the proposed project from DPM emissions from diesel locomotive engines were evaluated. Currently all of Caltrain's trains use diesel locomotives. As part of the program to modernize operation of the Caltrain rail corridor between San Jose and San Francisco Caltrain is planning to switch from diesel locomotives to use of electric trains in the near future.[6] Nearly all of the trains in the future are planned to be electric multiple unit (EMU) trains, which are self-propelled electric rail vehicles that can accelerate and decelerate at faster rates than diesel power trains, even with longer trains. This plan was formally adopted on January 8, 2015 and electrified service is anticipated to begin in 2020 or 2021[7]. However, two scenarios were evaluated: (1) diesel-powered freight trains and transition of Caltrain to electrified trains by 2020 and (2) continued use by diesel-powered freight trains and diesel-powered passenger trains. Residential occupancy was assumed to begin in 2018. Based on the current Caltrain schedule, there are 92 trains passing the project site during the weekdays, 32 trains during the weekend, and 4 trains that only run on Saturday. In addition to the Caltrain trains, there are about 4 freight trains that also use this rail line on a daily basis.[8]

Trains for the Caltrain system are planned to be electrified in the near future. This would eliminate DPM emissions from these trains. Caltrain plans that in 2020 service between San Jose and San Francisco would use a mixed fleet of EMUs and diesel locomotives, with approximately 75% of the service being electric and 25% being diesel. In 2020, some peak service trains would be diesel on weekdays. All other service, including off-peak periods, would be EMU-based. Off-peak periods include early morning, midday, and after 7:00 a.m. After 2020, diesel locomotives would be replaced with EMUs over time as they reach the end of their service life. Caltrain's diesel-powered locomotives would continue to be used to provide service between the San Jose Diridon Station and Gilroy. It is expected that 100 percent of the San Jose to San Francisco fleet would be EMUs by 2026 to 2029.[9]

For the Caltrain electrification scenario (Scenario 1) it was assumed that during 2018 and 2019 all trains would use diesel locomotives. During 2020 through 2024 there would be 19 daily trips, on an annual average basis, using diesel locomotives and that from 2025 on there would be two annual average daily trips with diesel locomotives. All trains used for freight service were assumed to use diesel powered locomotives. For Scenario 2 all Caltrain trains and freight trains were assumed to use diesel locomotives during the entire evaluation period.

DPM and $PM_{2.5}$ emissions from trains on the rail line were calculated using EPA emission factors for locomotives[10] and CARB adjustment factors to account for fuels used in California[11]. Caltrain's current locomotive fleet consists of twenty-three 3,200 horsepower (hp) locomotives

[6] Caltrain, 2014. *Peninsula Corridor Electrification Project. Final Environmental Impact Report*. December 2014.

[7] See (accessed on Jan. 28, 2015) http://www.caltrain.com/about/news/Caltrain_Board_Certifies_Final_Environmental_Impact_Report_and_Approves_Peninsula_Corridor_Electrification_Project.html

[8] *Bay Area Regional Rail Plan, Technical Memorandum 4a, Conditions, Configuration & Traffic on Existing System*, Metropolitan Transportation Commission, November 15, 2006.

[9] Ibid

[10] *Emission Factors for Locomotives*, USEPA 2009 (EPA-420-F-09-025)

[11] *Offroad Modeling, Change Technical Memo*, Changes to the Locomotive Inventory, CARB July 2006.

of model year or overhaul date of 1999 or earlier and six 3,600 hp locomotives of model year 2003.[12] The current fleet average locomotive engine size is about 3,285 hp. In estimating diesel locomotive emissions for the case of electrification, the diesel locomotives that would still be operating were conservatively assumed to be the newer locomotives with the 3,600 hp engines. In estimating emissions for the case of continued use of all diesel locomotives, the fleet average locomotive engine size of 3,285 hp was used. Each passenger train was assumed to use one locomotive and would be operating at 60% engine load and traveling at an average speed of 40 mph in the vicinity of the project site. Emissions from the freight trains were calculated assuming they would use two locomotives with 2,300 hp engines (total of 4,600 hp) and would be traveling at about 40 mph with the engines operating at about 60% load. Since the exposure duration used in calculating cancer risks is 70 years (in this case the period from 2018 through 2087), the Caltrain and freight train average DPM emissions were calculated based on EPA emission factors for the periods 2018-2019, 2020-2024, and 2025-2040, with the average emissions for 2025-2040 assumed to be representative of years 2025 through 2088. Details of the emission calculations are contained in *Attachment 1*

Modeling of locomotive emissions was conducted using the EPA's ISCST3 dispersion model and five year (2001-2005) of hourly meteorological data from the San Carlos Airport obtained from the BAAQMD. Locomotive emissions from train travel within about 1,000 feet of the project site were modeled as a line source comprised of a series of volume sources. Concentrations were calculated at receptor locations within the project site where residences would be located at a receptor heights of 1.5 meters and 4.5 meters, as previously described for the modeling of W. El Camino Real traffic. Figure 1 shows the railroad line used for the modeling and the receptors where concentrations were calculated. The maximum modeled long-term DPM and $PM_{2.5}$ concentrations occurred at the ground level project receptors closest to the rail lines near the northern boundary of the project site. *Attachment 1* includes details on the assumptions used with the modeling and the DPM and $PM_{2.5}$ emission rates used.

Maximum excess cancer risk was calculated from the maximum modeled long-term average DPM concentrations using the same methodology employed for the W. El Camino Real traffic emissions. The maximum increased cancer risk was computed as 2.3 in one million with electrification of Caltrain. If Caltrain is not electrified and diesel-powered passenger train locomotives continue to use the rail line, then the maximum cancer risk would be 6.4 in one million. This was modeled at a receptor in the northeast portion of the site closest to railroad lines at a height of 1.5 meters. The location of maximum cancer risk is shown on Figure 1. Cancer risks at other areas and floor levels within the project site would be lower than the maximum cancer risk. Under the BAAQMD CEQA Air Quality Guidelines, an incremental risk of greater than 10.0 cases per million from a single source would be a significant impact. The cancer risk calculations are also provided in *Attachment 1*.

Potential non-cancer health effects due to chronic exposure to DPM were also evaluated. The chronic inhalation REL for DPM is 5 $\mu g/m^3$. The maximum predicted annual DPM concentration from locomotives is 0.03 $\mu g/m^3$ in the event that electrification of Caltrain does not occur. This concentration is much lower than the REL. Thus, the Hazard Index would be less than 0.01 without electrification, which is much lower than the BAAQMD significance criterion of a HI greater than 1.0.

[12] Caltrain *Commute Fleets*. Available at: http://www.caltrain.com/about/statsandreports.html. Accessed September 24, 2014.

In addition to evaluating the health risks from DPM, potential impacts from $PM_{2.5}$ emissions from the locomotives were evaluated. From the rail line modeling conducted for estimating cancer risks, the maximum $PM_{2.5}$ concentration was identified. The maximum average annual $PM_{2.5}$ concentration of 0.03 $\mu g/m^3$, without electrification, occurs at the same receptor that had the maximum cancer risk. These concentrations are well below the BAAQMD $PM_{2.5}$ threshold of greater than 0.3 $\mu g/m^3$.

Cumulative Community Risk Levels

Adding the maximum TAC impacts together, although they would occur at different locations, the cumulative cancer risk would be less than 9.2 per million, cumulative $PM_{2.5}$ concentration would be 0.19 and the non-cancer hazard index would be less than 0.03. Regardless of the proximity to W. El Camino Real, community risk impacts would be below the BAAQMD cumulative community risk thresholds.

Table 3 Cumulative Community TAC Levels

Source	Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Acute or Chronic Hazard Index
El Camino Real Traffic	2.2	0.16	<0.01
Plant 4862 - Summit Auto Body Painting, 320 Old Country Road	0.57	0.00	<0.01
Caltrain without Electrification	6.4	0.03	<0.01
Cumulative Sources	<9.2	0.19	<0.03
BAAQMD Single Source Threshold	*10.0*	*0.3*	*1.0*
BAAQMD Cumulative Source Threshold	*100.0*	*0.8*	*10.0*

Note: The maximum for each source unlikely to occur in same place on the project site, but this cumulative level assumes that scenario as a worst-case assessment.

Greenhouse Gas Emissions

A screening analysis of GHG emissions was conducted using the California Emission Estimator Model, version 2013.2.2 (CalEEMod). Inputs to the model included 73 townhome residential dwelling units, a 146-space enclosed parking garage with elevator, 4,000 square feet of strip mall retail, and 24 surface parking spaces on a 1.85-acre site. CalEEMod provided operational emissions, assumed for the year 2019. Using the default CalEEMod inputs for this type of development, CalEEMod predicts GHG emissions of 850 metric tons of CO_2e emissions per year[13]. These emissions are below the BAAQMD threshold of 1,100 metric tons per year for land use projects. The CalEEMod output is provided in Attachment 2.

Construction and Operational Emissions Impacts

Due to the project size, construction exhaust and operational period emissions would be less than significant. In their 2011 update to the CEQA Air Quality Guidelines, BAAQMD identified the

[13] CO_2e is the carbon dioxide equivalent emission that accounts for emissions and higher potency of nitrous oxide and methane emissions, expressed as carbon dioxide equivalent emissions.

size of land use projects that could result in significant air pollutant emissions. For construction exhaust impacts, the townhouse project size was identified at 240 dwelling units or 277,000 square feet of retail. For operational impacts, the project size was identified at 451 dwelling units or 99,000 square feet of retail. Since the project proposes about 73 dwelling units and 4,000 square feet of neighborhood retail use, it is concluded that emissions would be well below the BAAQMD significance thresholds for both construction exhaust and operational emissions.

However, construction activities, particularly during site preparation and grading would temporarily generate fugitive dust in the form of PM_{10} and $PM_{2.5}$. Sources of fugitive dust would include disturbed soils at the construction site and trucks carrying uncovered loads of soils. Unless properly controlled, vehicles leaving the site would deposit mud on local streets, which could be an additional source of airborne dust after it dries. Fugitive dust emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. Fugitive dust emissions would also depend on soil moisture, silt content of soil, wind speed, and the amount of equipment operating. Larger dust particles would settle near the source, while fine particles would be dispersed over greater distances from the construction site. In addition, equipment exhaust emission can temporarily affect nearby sensitive receptors in the form of elevated cancer risk and increased $PM_{2.5}$ concentrations. Emissions from construction equipment can be greatly reduced through the selection of newer or retrofitted construction equipment for onsite activities.

The BAAQMD CEQA Air Quality Guidelines consider these impacts to be less than significant if best management practices are employed to reduce these emissions. Control measures are recommended to reduce construction air quality effects to nearby sensitive receptors and be consistent with BAAQMD CEQA Air Quality Guidelines. During any construction period ground disturbance, the project contractor will implement measures to control dust. Equipment exhaust will also be reduced through proper equipment selection. These measures include:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) will be watered two times per day.

2. All haul trucks transporting soil, sand, or other loose material off-site will be covered.

3. All visible mud or dirt track-out onto adjacent public roads will be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.

4. All vehicle speeds on unpaved roads will be limited to 15 miles per hour (mph).

5. All roadways, driveways, and sidewalks to be paved will be completed as soon as possible. Building pads will be laid as soon as possible after grading unless seeding or soil binders are used.

6. Idling times will be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of

Regulations [CCR]). Clear signage will be provided for construction workers at all access points.

7. All construction equipment will be maintained and properly tuned in accordance with manufacturer's specifications. All equipment will be checked by a certified mechanic and determined to be running in proper condition prior to operation.

8. Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person will respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

9. Selection of equipment during demolition, grading and trenching construction phases to minimize emissions. Construction documents will include specifications that construction equipment selection would include the following:
    i. All mobile diesel-powered off-road equipment larger than 50 horsepower and operating on the site for more than two days continuously will meet U.S. EPA particulate matter emissions standards for Tier 2 engines or equivalent;
    ii. All portable diesel-powered off-road equipment larger than 50 horsepower (e.g., generators) operating on the site for more than two days continuously will meet U.S. EPA particulate matter emissions standards for Tier 4 engines or equivalent.

* * *

This concludes Illingworth & Rodkin, Inc. (I&R) screening level review of Air Quality, TAC and GHG issues associated with the potential Davey Glen project in Belmont, CA. Please do not hesitate to call with any questions or concerns regarding this assessment.

Sincerely,

James A. Reyff
Senior Consultant, Principal
Illingworth & Rodkin, Inc.

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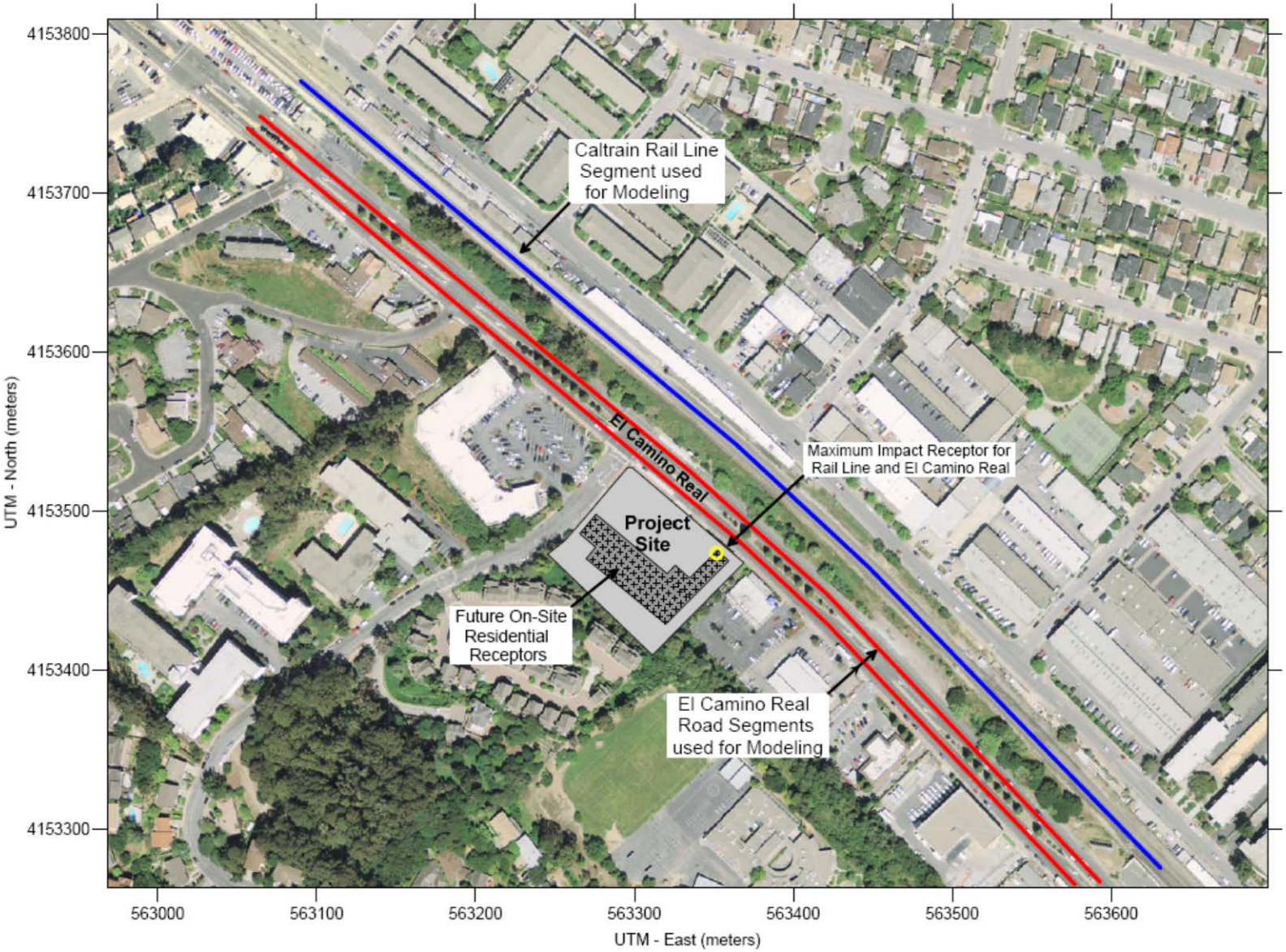
Figure 1. Project Site and On-site Residential Receptor Locations, Roadway and Rail Line Segments Evaluated, and Locations of Maximum Cancer Risk from Rail and Roadway Traffic



Attachment 1

W. El Camino Real Traffic Emissions, Modeling, and Health Risk Calculations

Davey Glen, Belmont, CA
El Camino Real (SR 82) Traffic Data and PM2.5 & TOG Emission Factors - 30 mph

Analysis Year = ***2020***

Vehicle Type	2013 Caltrans Number Vehicles (veh/day)	2020 Number Vehicles (veh/day)	2020 Percent Diesel	Number Diesel Vehicles (veh/day)	Vehicle Speed (mph)	Emission Factors: Diesel Vehicles DPM (g/VMT)	All Vehicles: Total PM2.5 (g/VMT)	All Vehicles: Exhaust PM2.5 (g/VMT)	Gas Vehicles: Exhaust TOG (g/VMT)	Gas Vehicles: Running TOG (g/VMT)
LDA	22,356	23,921	0.41%	99	30	0.0160	0.0196	0.0019	0.0273	0.039
LDT	9,222	9,867	0.08%	8	30	0.0322	0.0200	0.0023	0.0485	0.084
MDT	329	352	6.39%	22	30	0.0327	0.0221	0.0032	0.0783	0.123
HDT	93	100	81.32%	81	30	0.0978	0.1304	0.0820	0.5543	0.148
Total	32,000	34,240	-	210	30	-	-		-	-
Mix Avg Emission Factor						**0.05007**	**0.02008**	**0.00223**	**0.03420**	**0.05299**

		Gas	Diesel
Increase From 2013	1.07		
Vehicles/Direction	17,120	17,015	105
Avg Vehicles/Hour/Direction	**713**	**709**	**4**

Traffic Data Year = ***2013***

Caltrans 2013 Traffic & Truck AADT Data	Total	Total Truck	Truck by Axle 2	3	4	5
Rte 82, Belmont A Ralston Ave	32,000	422	329	59	6	28
Rte 82, B San Mateo, Jct Rte. 92			77.87%	14.02%	1.52%	6.59%
Percent of Total Vehicles		1.32%	1.03%	0.19%	0.02%	0.09%

Traffic Increase per Year (%) = ***1.00%***

Davey Glen, Belmont, CA
El Camino Real (SR 82)
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2020

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Width (ft)	Link Width (m)	Release Height (m)	Diesel ADT	Average Speed (mph)
NB-82	Westbound SR 82	N	2	716	44	13.3	0.0	105	30
SB-82	Eastbound SR 82	S	2	707	44	13.3	0.0	105	30

2020 Hourly Diesel Traffic Volumes Per Direction and DPM Emissions - NB & SB SR-82

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	2.04%	2	0.0773	9	7.70%	8	0.0454	17	7.52%	8	0.0479
2	1.76%	2	0.0662	10	6.11%	6	0.0631	18	6.38%	7	0.0346
3	1.45%	2	0.0401	11	5.21%	5	0.0571	19	3.39%	4	0.0353
4	0.54%	1	0.0722	12	5.78%	6	0.0611	20	2.74%	3	0.0281
5	0.57%	1	0.0610	13	5.51%	6	0.0606	21	3.70%	4	0.0423
6	1.07%	1	0.0978	14	5.45%	6	0.0589	22	4.58%	5	0.0545
7	4.42%	5	0.0577	15	7.27%	8	0.0462	23	3.94%	4	0.0458
8	6.01%	6	0.0365	16	6.45%	7	0.0396	24	0.38%	0	0.0610
								Total		105	

Davey Glen, Belmont, CA
El Camino Real (SR 82)
PM2.5 & TOG Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2020

Group Link	Description	Direction	No. Lanes	Link Length (m)	Link Width (ft)	Link Width (m)	Release Height (m)	ADT	Average Speed (mph)
NB-82	Westbound SR 82	N	2	716	44	13.3	0.0	17,120	30
SB-82	Eastbound SR 82	S	2	707	44	13.3	0.0	17,120	30

2020 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - NB & SB SR-82

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.07%	183	0.0207	9	7.07%	1210	0.0202	17	7.40%	1267	0.0201
2	0.35%	60	0.0216	10	4.23%	724	0.0205	18	8.34%	1428	0.0199
3	0.27%	47	0.0205	11	4.58%	784	0.0202	19	5.83%	998	0.0199
4	0.15%	26	0.0213	12	5.83%	998	0.0202	20	4.40%	753	0.0199
5	0.43%	74	0.0202	13	6.18%	1058	0.0201	21	3.30%	564	0.0200
6	0.79%	135	0.0210	14	6.03%	1033	0.0201	22	3.31%	566	0.0202
7	3.75%	642	0.0202	15	7.10%	1216	0.0201	23	2.48%	425	0.0201
8	7.95%	1361	0.0199	16	7.26%	1243	0.0200	24	1.91%	326	0.0198
								Total		17,120	

CAL3QHCR Risk Modeling Parameters and Maximum Cancer Risks
Davey Glen, Belmont, CA - DPM, PM2.5 & TOG TACs
El Camino Real (SR-82) Traffic Impacts

Receptor Information

Number of Receptors	92
Receptor Height =	1.5 meters
Receptor distances =	5 meter spacing

Meteorological Conditions

San Carlos Airport Hourly Met Data	2001 - 2005
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 (risk per million per μg/m^3) for DPM and Organic TACs from Vehicle TOG Exhaust & Evaporative Emissions

Exposure Type	CPF (mg/kg-day)$^{-1}$	CRAF (-)	Unit Risk *DPM*	Exhaust TOG TACs	Evaporative TOG TACs
Residential (70-Yr Exposure)	1.10E+00	1.7	541.5	3.1	0.182

MEI Cancer Risk Calculations - Receptor Height = 1.5 m

Meteorological Data Year	Maximum DPM Concentration (μg/m^3)	Maximum Gas Veh Exhaust TOG Concentration (μg/m^3)	Maximum Gas Veh Evaporative TOG Concentration (μg/m^3)	Maximum PM2.5 Concentration (μg/m^3)
	2020	2020	2020	2020
2001	0.0024	0.2567	0.3979	0.1519
2002	0.0024	0.2547	0.3949	0.1507
2003	0.0024	0.2621	0.4063	0.1551
2004	0.0023	0.2491	0.3862	0.1474
2005	0.0025	0.2731	0.4233	0.1616
Average	0.0024	0.2591	0.4017	0.1533
Cancer Risk[a]	1.30	0.80	0.07	

Total Risk From All TACs = 2.2 per million

Notes:
Receptor Heights = 1.5 m
Maximum DPM & PM2.5 concentrations occur at residential site adjacent to El Camino Real
a Cancer risk (per million) calculated assuming constant 70-year exposure to concentration for year of analysis.

Caltrain Rail Line Emissions, Modeling, and Health Risk Calculations

Davey Glen, Belmont, CA - First Floor Receptors
DPM Modeling - Rail Line Information and DPM and PM2.5 Emission Rates
Diesel-Powered Passenger and Freight Trains

Year	Description	No. Lines	Link Width (ft)	Link Width (m)	Link Length (ft)	Link Length (miles)	Link Length (m)	Release Height (m)	No. Trains per Day	Train Travel Speed (mph)	Average Daily Emission Rate (g/mi/day)	Average Daily Emission Rate (g/day)	Link Emission Rate (g/s)	Link Emission Rate (lb/hr)
2018-2019	Passenger								75	40	284.8	129.9	1.50E-03	1.19E-02
	Freight Trains								4	40	26.7	12.2	1.41E-04	1.12E-03
	Total	**1**	**12**	**3.7**	**2,409**	**0.46**	**734**	**5.0**	**79**	**-**	**311.4**	**142.1**	**1.64E-03**	**1.31E-02**
2020-2024	Passenger								75	40	211.6	96.5	1.12E-03	8.87E-03
	Freight Trains								4	40	21.5	9.8	1.14E-04	9.02E-04
	Total	**1**	**12**	**3.7**	**2,409**	**0.46**	**734**	**5.0**	**79**	**-**	**233.1**	**106.3**	**1.23E-03**	**9.77E-03**
2025+	Passenger								75	40	45.8	20.9	2.42E-04	1.92E-03
	Freight Trains								4	40	5.3	2.4	2.78E-05	2.21E-04
	Total	**1**	**12**	**3.7**	**2,409**	**0.46**	**734**	**5.0**	**79**	**-**	**51.0**	**23.3**	**2.70E-04**	**2.14E-03**

Notes: Emission based on Emission Factors for Locomotives, USEPA 2009 (EPA-420-F-09-025)
Average emissions calculated for periods 2019-2024 and 2025-2040.
Fuel correction factors from Offroad Modeling Change Technical memo, Changes to the Locomotive Inventory, CARB July 2006.
DPM & PM2.5 calculated as 92% of PM emissions (CARB CEIDERS PM2.5 fractions)
Passenger trains assumed to operate for 24 hours per day
Freight trains assumed to operate for 24 hours per day

Caltrain - without electrification

Arrive/Depart Station	*Diesel*	*Electric*	*Total*
Passenger trains - weekday =	92	0	92
Passenger trains - weekend =	32	0	32
Passenger trains - Sat only =	4	0	4
Total Trains =	128	0	128
Annual average daily trains =	75	0	75
Locomotive horsepower =	3285		
Locomotives per train =	1		
Locomotive engine load =	0.6		

Freight

Freight trains per day =	4	7	days/week
Locomotive horsepower =	2300	(note: average hp for UPRR locomotive in CA in 2009 was 2,200 hp)	
Locomotives per train =	2		
Total horsepower =	4600		
Locomotive engine load =	0.6		

Locomotive Emission Factors (g/hp-hr)*

Train Type	2018	2020	2025+
Passenger	0.118	0.088	0.019
Freight	0.125	0.101	0.025

* 2018 is average emissions for 2018-2019, 2020 is average emissions for 2020-2024, and 2025+ emissions areaverages for 2025-2087.

PM2.5 to PM ratio = 0.92

	CARB Fuel Adj Factor	
	2010	2011+
Passenger	0.717	0.709
Freight	0.851	0.840

Davey Glen, Belmont, CA - First Floor Receptors
DPM Modeling - Rail Line Information and DPM and PM2.5 Emission Rates
Caltrain Electrification and Diesel-Powered Freight Trains

Year	Description	No. Lines	Link Width (ft)	Link Width (m)	Link Length (ft)	Link Length (miles)	Link Length (m)	Release Height (m)	No. Trains per Day	Train Travel Speed (mph)	Average Daily Emission Rate (g/mi/day)	Average Daily Emission Rate (g/day)	Link Emission Rate (g/s)	Link Emission Rate (lb/hr)
2018-2019	Passenger								75	40	284.8	129.9	1.50E-03	1.19E-02
	Freight Trains								4	40	26.7	12.2	1.41E-04	1.12E-03
	Total	**1**	**12**	**3.7**	**2,409**	**0.46**	**734**	**5.0**	**79**	**-**	**311.4**	**142.1**	**1.64E-03**	**1.31E-02**
2020-2024	Passenger								14	40	41.7	19.0	2.20E-04	1.75E-03
	Freight Trains								4	40	21.5	9.8	1.14E-04	9.02E-04
	Total	**1**	**12**	**3.7**	**2,409**	**0.46**	**734**	**5.0**	**18**	**-**	**63.2**	**28.9**	**3.34E-04**	**2.65E-03**
2025+	Passenger								2	40	1.3	0.6	7.04E-06	5.59E-05
	Freight Trains								4	40	5.3	2.4	2.78E-05	2.21E-04
	Total	**1**	**12**	**3.7**	**2,409**	**0.46**	**734**	**5.0**	**6**	**-**	**6.6**	**3.0**	**3.49E-05**	**2.77E-04**

Notes: Emission based on Emission Factors for Locomotives, USEPA 2009 (EPA-420-F-09-025)
Average emissions calculated for periods 2019-2024 and 2025-2040.
Fuel correction factors from Offroad Modeling Change Technical memo, Changes to the Locomotive Inventory, CARB July 2006.
DPM & PM2.5 calculated as 92% of PM emissions (CARB CEIDERS PM2.5 fractions)
25% of trains will be diesel in 2019. This represents about (7 or 8 trains of the current rolling stock of 29 trains). These will be operated only during weekday peak periods.
After 2025 it is assumed that on an annual average basis there would be 2 diesel train trips per day between San Francisco and San Jose.
Passenger trains assumed to operate for 24 hours per day
Freight trains assumed to operate for 24 hours per day

Caltrain - with electrification			
Arrive/Depart Station	*Diesel*	*Electric*	*Total*
Passenger trains - weekday =	19	73	92
Passenger trains - weekend =	0	32	32
Passenger trains - Sat only =	0	4	4
Total Trains =	19	109	128
Annual average daily trains =	14	62	75
Locomotive horsepower =	3285	(before 2020)	
Locomotive horsepower =	3600	(2020 and later)	
Locomotives per train =	1		
Locomotive engine load =	0.6		

Freight

Freight trains per day =	4	7	days/week
Locomotive horsepower =	2300	(note: average hp for UPRR locomotive in CA in 2009 was 2,200 hp)	
Locomotives per train =	2		
Total horsepower =	4600		
Locomotive engine load =	0.6		

Locomotive Emission Factors (g/hp-hr)*

Train Type	2018	2020	2025+
Passenger	0.118	0.088	0.019
Freight	0.125	0.101	0.025

* 2019 and 2020 are average emissions for 2019-2024. 2025+ emissions average for 2025-2040.

PM2.5 to PM ratio = 0.92

	CARB Fuel Adj Factor	
	2010	2011+
Passenger	0.717	0.709
Freight	0.851	0.840

Davey Glen, Belmont, CA - First Floor Receptors
ISCST3 Railroad DPM Risk Modeling Parameters and Maximum Cancer Risk at Project Site
All Diesel-Powered Passenger and Freight Trains

Receptor Information

Number of Receptors	92
Receptor Spacing =	5 meters
Receptor Height =	1.5 meters

Meteorological Conditions

San Carlos Airport Met Data	2001-2005
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)$^{-1}$
SWFi = Sensitivity weighting factor dependent on emissions period i and duration of exposure
URF =Unit risk factor (cancer risk per μg/m^3)

Unit Risk Factors (unadjusted for age sensitivity) for DPM

Exposure Type	CPF (mg/kg-day)$^{-1}$	*DPM*
Residential (70-Yr Exposure)	1.10E+00	318.5

MEI Cancer Risk Calculations

Meteorological Data Year	Maximum Annual DPM Concentration (μg/m^3)		
	2018	2020	2025
2001 - 2005	0.0306	0.0229	0.0050
Cancer Risk[a]	9.76	7.28	1.59
Sensitivity Weighting Factors	0.286	0.239	1.164
Contribution to Total Cancer Risk	2.79	1.7	1.9
70-yr Cumulative Risk [b]	***6.4***		

Notes:
Receptor Heights = 1.5 m
Maximum DPM & PM2.5 concentrations occur at residential site adjacent to El Camino Real
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.

Davey Glen, Belmont, CA - First Floor Receptors
ISCST3 Railroad DPM Risk Modeling Parameters and Maximum Cancer Risk at Project Site
Caltrain Electrification and Diesel-Powered Freight Trains

Receptor Information

Number of Receptors	92
Receptor Spacing =	5 meter spacing
Receptor Height =	1.5 meters

Meteorological Conditions

San Carlos Airport Met Data	2001-2005
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)$^{-1}$
SWFi = Sensitivity weighting factor dependent on emissions period i and duration of exposure
URF =Unit risk factor (cancer risk per μg/m^3)

Unit Risk Factors (unadjusted for age sensitivity) for DPM

Exposure Type	CPF (mg/kg-day)$^{-1}$	*DPM*
Residential (70-Yr Exposure)	1.10E+00	318.5

MEI Cancer Risk Calculations

Meteorological Data Year	Maximum Annual DPM Concentration (μg/m^3)		
	2018	2020	2025
2002 - 2005	0.0062	0.0193	0.0007
Cancer Risk[a]	1.97	6.15	0.21
Sensitivity Weighting Factors	0.286	0.239	1.164
Contribution to Total Cancer Risk	0.56	1.5	0.2
70-yr Cumulative Risk [b]	***2.3***		

Notes:
Receptor Heights = 1.5 m
Maximum DPM & PM2.5 concentrations occur at residential site adjacent to El Camino Real
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.

Attachment 2

Glen Davey Belmont - Preliminary

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	146.00	Space	1.31	58,400.00	0
Condo/Townhouse	73.00	Dwelling Unit	4.56	73,000.00	209
Strip Mall	5.00	1000sqft	0.11	5,000.00	0
Parking Lot	24.00	Space	0.00	9,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Preliminary site schematic (August 11, 2014)

Construction Phase - Construction not addressed

Off-road Equipment - Construction not addressed

Demolition -

Grading - Construction not addressed

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblLandUse	LotAcreage	0.22	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2019

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					
2015	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2015	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	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	N20	CO2e
Percent Reduction	**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**

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	0.7283	7.2900e-003	0.6276	1.0000e-004		0.0148	0.0148		0.0148	0.0148	1.2012	2.8188	4.0200	3.1300e-003	1.0000e-004	4.1165
Energy	9.6900e-003	0.0829	0.0358	5.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	320.2781	320.2781	0.0120	3.8600e-003	321.7255
Mobile	0.3052	0.5396	2.8564	6.8300e-003	0.5126	7.7300e-003	0.5203	0.1375	7.1300e-003	0.1446	0.0000	488.9047	488.9047	0.0200	0.0000	489.3251
Waste						0.0000	0.0000		0.0000	0.0000	7.8821	0.0000	7.8821	0.4658	0.0000	17.6644
Water						0.0000	0.0000		0.0000	0.0000	1.6264	11.3541	12.9805	0.1676	4.0500e-003	17.7551
Total	**1.0431**	**0.6298**	**3.5198**	**7.4600e-003**	**0.5126**	**0.0293**	**0.5419**	**0.1375**	**0.0287**	**0.1662**	**10.7098**	**823.3557**	**834.0655**	**0.6685**	**8.0100e-003**	**850.5865**

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	0.7283	7.2900e-003	0.6276	1.0000e-004		0.0148	0.0148		0.0148	0.0148	1.2012	2.8188	4.0200	3.1300e-003	1.0000e-004	4.1165
Energy	9.6900e-003	0.0829	0.0358	5.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	320.2781	320.2781	0.0120	3.8600e-003	321.7255
Mobile	0.3052	0.5396	2.8564	6.8300e-003	0.5126	7.7300e-003	0.5203	0.1375	7.1300e-003	0.1446	0.0000	488.9047	488.9047	0.0200	0.0000	489.3251
Waste						0.0000	0.0000		0.0000	0.0000	7.8821	0.0000	7.8821	0.4658	0.0000	17.6644
Water						0.0000	0.0000		0.0000	0.0000	1.6264	11.3541	12.9805	0.1675	4.0400e-003	17.7525
Total	**1.0431**	**0.6298**	**3.5198**	**7.4600e-003**	**0.5126**	**0.0293**	**0.5419**	**0.1375**	**0.0287**	**0.1662**	**10.7098**	**823.3557**	**834.0655**	**0.6685**	**8.0000e-003**	**850.5840**

	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	N20	CO2e
Percent Reduction	**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**	**0.12**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2015	1/1/2015	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	0.3052	0.5396	2.8564	6.8300e-003	0.5126	7.7300e-003	0.5203	0.1375	7.1300e-003	0.1446	0.0000	488.9047	488.9047	0.0200	0.0000	489.3251
Unmitigated	0.3052	0.5396	2.8564	6.8300e-003	0.5126	7.7300e-003	0.5203	0.1375	7.1300e-003	0.1446	0.0000	488.9047	488.9047	0.0200	0.0000	489.3251

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	481.07	522.68	443.11	1,075,088	1,075,088
Enclosed Parking with Elevator	0.00	0.00	0.00		
Strip Mall	221.60	210.20	102.15	312,484	312,484
Parking Lot	0.00	0.00	0.00		
Total	702.67	732.88	545.26	1,387,572	1,387,572

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.579581	0.062616	0.176505	0.113545	0.029546	0.004152	0.015698	0.004192	0.002652	0.003672	0.006635	0.000224	0.000983

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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						0.0000	0.0000		0.0000	0.0000	0.0000	224.3772	224.3772	0.0102	2.1000e-003	225.2410
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	224.3772	224.3772	0.0102	2.1000e-003	225.2410
NaturalGas Mitigated	9.6900e-003	0.0829	0.0358	5.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	95.9009	95.9009	1.8400e-003	1.7600e-003	96.4845
NaturalGas Unmitigated	9.6900e-003	0.0829	0.0358	5.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	95.9009	95.9009	1.8400e-003	1.7600e-003	96.4845

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/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	24000	1.3000e-004	1.1800e-003	9.9000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.2807	1.2807	2.0000e-005	2.0000e-005	1.2885
Condo/Townhouse	1.77311e+006	9.5600e-003	0.0817	0.0348	5.2000e-004		6.6100e-003	6.6100e-003		6.6100e-003	6.6100e-003	0.0000	94.6201	94.6201	1.8100e-003	1.7300e-003	95.1960
Total		**9.6900e-003**	**0.0829**	**0.0358**	**5.3000e-004**		**6.7000e-003**	**6.7000e-003**		**6.7000e-003**	**6.7000e-003**	**0.0000**	**95.9009**	**95.9009**	**1.8300e-003**	**1.7500e-003**	**96.4845**

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/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	24000	1.3000e-004	1.1800e-003	9.9000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.2807	1.2807	2.0000e-005	2.0000e-005	1.2885
Condo/Townhouse	1.77311e+006	9.5600e-003	0.0817	0.0348	5.2000e-004		6.6100e-003	6.6100e-003		6.6100e-003	6.6100e-003	0.0000	94.6201	94.6201	1.8100e-003	1.7300e-003	95.1960
Total		**9.6900e-003**	**0.0829**	**0.0358**	**5.3000e-004**		**6.7000e-003**	**6.7000e-003**		**6.7000e-003**	**6.7000e-003**	**0.0000**	**95.9009**	**95.9009**	**1.8300e-003**	**1.7500e-003**	**96.4845**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	311176	90.5248	4.0900e-003	8.5000e-004	90.8733
Enclosed Parking with Elevator	393616	114.5074	5.1800e-003	1.0700e-003	114.9482
Parking Lot	8448	2.4576	1.1000e-004	2.0000e-005	2.4671
Strip Mall	58050	16.8874	7.6000e-004	1.6000e-004	16.9524
Total		**224.3772**	**0.0101**	**2.1000e-003**	**225.2410**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	311176	90.5248	4.0900e-003	8.5000e-004	90.8733
Enclosed Parking with Elevator	393616	114.5074	5.1800e-003	1.0700e-003	114.9482
Parking Lot	8448	2.4576	1.1000e-004	2.0000e-005	2.4671
Strip Mall	58050	16.8874	7.6000e-004	1.6000e-004	16.9524
Total		**224.3772**	**0.0101**	**2.1000e-003**	**225.2410**

6.0 Area Detail

6.1 Mitigation Measures Area

	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	0.7283	7.2900e-003	0.6276	1.0000e-004		0.0148	0.0148		0.0148	0.0148	1.2012	2.8188	4.0200	3.1300e-003	1.0000e-004	4.1165
Unmitigated	0.7283	7.2900e-003	0.6276	1.0000e-004		0.0148	0.0148		0.0148	0.0148	1.2012	2.8188	4.0200	3.1300e-003	1.0000e-004	4.1165

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	0.0846					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Consumer Products	0.5702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0566	9.7000e-004	0.0813	7.0000e-005		0.0118	0.0118		0.0118	0.0118	1.2012	1.9302	3.1315	2.2500e-003	1.0000e-004	3.2096
Landscaping	0.0168	6.3200e-003	0.5463	3.0000e-005		2.9900e-003	2.9900e-003		2.9900e-003	2.9900e-003	0.0000	0.8885	0.8885	8.8000e-004	0.0000	0.9070
Total	**0.7283**	**7.2900e-003**	**0.6276**	**1.0000e-004**		**0.0148**	**0.0148**		**0.0148**	**0.0148**	**1.2012**	**2.8188**	**4.0200**	**3.1300e-003**	**1.0000e-004**	**4.1165**

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	0.0846					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0566	9.7000e-004	0.0813	7.0000e-005		0.0118	0.0118		0.0118	0.0118	1.2012	1.9302	3.1315	2.2500e-003	1.0000e-004	3.2096
Landscaping	0.0168	6.3200e-003	0.5463	3.0000e-005		2.9900e-003	2.9900e-003		2.9900e-003	2.9900e-003	0.0000	0.8885	0.8885	8.8000e-004	0.0000	0.9070
Total	**0.7283**	**7.2900e-003**	**0.6276**	**1.0000e-004**		**0.0148**	**0.0148**		**0.0148**	**0.0148**	**1.2012**	**2.8188**	**4.0200**	**3.1300e-003**	**1.0000e-004**	**4.1165**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.9805	0.1675	4.0400e-003	17.7525
Unmitigated	12.9805	0.1676	4.0500e-003	17.7551

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	4.75624 / 2.9985	12.0489	0.1555	3.7600e-003	16.4785
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.370363 / 0.226996	0.9316	0.0121	2.9000e-004	1.2765
Total		**12.9805**	**0.1676**	**4.0500e-003**	**17.7551**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	4.75624 / 2.9985	12.0489	0.1554	3.7500e-003	16.4761
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.370363 / 0.226996	0.9316	0.0121	2.9000e-004	1.2763
Total		**12.9805**	**0.1675**	**4.0400e-003**	**17.7525**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	7.8821	0.4658	0.0000	17.6644
Mitigated	7.8821	0.4658	0.0000	17.6644

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	33.58	6.8164	0.4028	0.0000	15.2761
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	5.25	1.0657	0.0630	0.0000	2.3883
Total		**7.8821**	**0.4658**	**0.0000**	**17.6644**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	33.58	6.8164	0.4028	0.0000	15.2761
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000

Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	5.25	1.0657	0.0630	0.0000	2.3883
Total		**7.8821**	**0.4658**	**0.0000**	**17.6644**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

B. BIOLOGICAL RESOURCES

HortScience, Inc. 2015. *Updated Arborist Report, Davey Glen—Belmont, CA.* February 2015.

Updated Arborist Report

Davey Glen
Belmont, CA

Prepared for:
Sares Regis
901 Mariners Island Blvd., Suite 700
San Mateo, CA 94404

Prepared by:
HortScience, Inc.
325 Ray St.
Pleasanton, CA 94566

February 2015

Updated Arborist Report
Davey Glen
Belmont, CA

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Exhibits

Tree Assessment Form

Tree Assessment Maps

Introduction and Overview

Sares Regis is planning to redevelop the Davey Glen site, located at the corners of El Camino Real and Davey Glen Rd., in Belmont CA. Currently, the site has two buildings surrounded by parking lots, and entries onto El Camino Real and Davey Glen Road. HortScience, Inc. was asked to prepare an **Arborist Report** for the sites as part of the development application to the City of Belmont.

This report provides the following information:

1. An evaluation of the health and structural condition of the trees within the proposed project area based on a visual inspection from the ground.
2. An assessment of the development impacts to the trees based on the plans provided by Sares Regis.
3. Guidelines for tree preservation during the design, construction and maintenance phases of development.
4. A ***Tree Assessment Form*** and ***Tree Assessment Map*** showing the location of trees and tag numbers within the proposed project area.

Assessment Methods

Trees were assessed on June 17, 2014 and January 13, 2015. The assessment included all on-site trees and any off-site trees with portions of their crowns extending onto the development site measuring 6" and greater in diameter. Tags used ranged from #1-18 and 36-45. The assessment procedure consisted of the following steps:

1. Identifying the tree as to species;
2. Tagging each tree with a numerically coded metal tag and recording its location on a map;
3. Measuring the trunk diameter at a point 54" above grade;
4. Evaluating the health and structural condition using a scale of 1 – 5:
   - ***5*** - A healthy, vigorous tree, reasonably free of signs and symptoms of disease, with good structure and form typical of the species.
   - ***4*** - Tree with slight decline in vigor, small amount of twig dieback, minor structural defects that could be corrected.
   - ***3*** - Tree with moderate vigor, moderate twig and small branch dieback, thinning of crown, poor leaf color, moderate structural defects that might be mitigated with regular care.
   - ***2*** - Tree in decline, epicormic growth, extensive dieback of medium to large branches, significant structural defects that cannot be abated.
   - ***1*** - Tree in severe decline, dieback of scaffold branches and/or trunk; most of foliage from epicormics; extensive structural defects that cannot be abated.
5. Rating the suitability for preservation as "high", "moderate" or "low". Suitability for preservation considers the health, age and structural condition of the tree species, and its potential to remain an asset to the site.

   High: Trees with good health and structural stability that have the potential for longevity at the site.

   Moderate: Trees with somewhat declining health and/or structural defects than can be abated with treatment. The tree will require more intense management and monitoring, and may have shorter life span than those in 'high' category.

   Low: Trees in poor health or with significant structural defects that cannot be mitigated. Tree is expected to continue to decline, regardless of treatment. The species or individual tree may have characteristics that are undesirable for landscapes, and generally are unsuited for use areas.

Description of Trees

Twenty-eight (28) trees, representing 10 species, were evaluated (Table 1). Two (2) off-site trees along the southern boundary (#2 and 3) with portions of their canopy extending onto the development site were included in the assessment. Descriptions of each tree are found in the ***Tree Assessment Form*** and locations are plotted on the ***Tree Assessment Map*** (see Exhibits).

Trees were concentrated in the following areas:

- Three trees (#1-3) were located in the landscape bed along the southern property line.
- Twenty-nine trees (#4-12 and 36-45) were located in the undeveloped area between the development site and the condominiums to the west.
- Tree #13 was located on the slope in the northwest corner of the site, adjacent to Davey Glen road.
- Five landscape trees (#14-18) had been planted around the 7-11 building in the northeast corner of the site.

Blackwood acacia, with 12 trees was the most common species encountered (Table 1). One was located off-site along the southern property line (#3) and the remaining 11 were located within the undeveloped area. Blackwood acacias were young to semi-mature (6 to 12" in diameter) and included six (6) trees in fair condition, one (1) in good and five (5) in poor. Several of the trees in the undeveloped area were growing adjacent to trees further up-slope, resulting in trunks the leaned to horizontal (#6 and 7) or which had failed at the base but were still alive (#8 – see Photo 1, following page)

Six (6) arroyo willows were also growing in the open space area (#9, 10, 12, and 36-38). These trees were young, with diameters from 4 to 10". Three (3) were in poor condition, two were in fair, and one (#9) was in good. Several had failed at the base but were still alive.

The three Monterey pines (#14-16) had been planted in the landscape around the 7-11 building. All three had dieback indicative of pine pitch canker (), thin crows and appeared to be experiencing some amount of drought stress. Two of the Monterey pines were in fair condition (#15 and 16) and one was in poor condition, with extensive dieback (#14).

Table 1. Condition ratings and frequency of occurrence of trees. Davey Glen site, Belmont CA.

Common Name	Scientific Name	Condition Rating			No. of
		Poor (2)	Fair (3)	Good (4)	Trees
Blackwood acacia	*Acaia melanoxylon*	5	6	1	12
Bushy yate	*Eucalyptus conferruminata*	1	-	-	1
Silver dollar gum	*Eucalyptus polyanthemos*	-	-	1	1
Olive	*Olea europaea*	-	-	1	1
Aleppo pine	*Pinus halapensis*	-	1	-	1
Monterey pine	*Pinus radiata*	1	2	-	3
Plum	*Punus domestica*	-	1	-	1
Callery pear	*Pyrus calleryana*	-	1	-	1
Coast live oak	*Quercus agrifolia*	-	-	1	1
Arroyo willow	*Salix lasiolepis*	3	2	1	6
Total		**10**	**13**	**5**	**28**
		36%	46%	18%	100%

Photo 1: Looking north at blackwood acacias #6-8 (Left) and arroyo willows #9, 10 and 12 (red arrow). Inset shows the trunks of blackwood acacias #8 (foreground) and 9 (background). Blackwood acacia #8 leaned east to horizontal and #9 had failed at the base but was still growing from the failed trunk.

The remaining seven (7) species were represented by single trees, including:

- A young coast live oak (#1) and a bushy yate (#2) along the S. property line. The coast live oak was in good condition and the bushy yate was in poor.
- Plum #5 was growing among the blackwood acacias in the open space ewest of the development site. It was multi-stemmed and in fair condition.
- A young olive (#11) was grwoing adjacent to the arroyo willows in the open space. It was in excellent condition, with a somewhat one-sided crown.
- Aleppo pine #13 was growing on the know between the development site and Davey Glen Rd. It had been topped for the overhead utilities and was in fair condition.
- Young callery pear #17 and mature silver dollar gum #18 had ben planted on the south side of the 7-11 building. The silver dollar gum was the largest and most prominent tree on the site.

Overall tree condition at the site was fair, with 13 of the trees in that category. Five (5) trees were in good condition and 10 were in poor. The City of Belmont defines a *Protected* tree as any tree with a diameter of 10" or greater (Ord. #1060, Ch. 25). Based on this definition, 25 of the 28 trees qualified as *Protected*. *Protected* trees are identified in the ***Tree Assessment Form*** (see Exhibits).

Suitability for Preservation

Before evaluating the impacts that will occur during development, it is important to consider the quality of the tree resource itself, and the potential for individual trees to function well over an extended length of time. Trees that are preserved on development sites must be carefully selected to provide greater assurance they survive development impacts, adapt to a new environment, and perform well in the landscape.

Our goal is to identify trees that have the potential for long-term health, structural stability and longevity. Evaluation of suitability for preservation considers several factors:

- **Tree health**
  Healthy, vigorous trees are better able to tolerate impacts such as root injury, demolition of existing structures, changes in soil grade and moisture, and soil compaction than are non-vigorous trees.

- **Structural integrity**
  Trees with significant amounts of wood decay and other structural defects that cannot be corrected are likely to fail. Such trees should not be preserved in areas where damage to people or property is likely.

- **Species response**
  There is a wide variation in the response of individual species to construction impacts and changes in the environment. In general, coast live oak and arroyo willow are tolerant of construction impacts, while blackwood acacia and Monterey pine are less tolerant of root loss.

- **Tree age and longevity**
  Old trees, while having significant emotional and aesthetic appeal, have limited physiological capacity to adjust to an altered environment. Young trees are better able to generate new tissue and respond to change.

- **Invasiveness**
  Species that spread across a site and displace desired vegetation are not always appropriate for retention. This is particularly true when indigenous species are displaced. The California Invasive Plant Inventory Database (http://www.cal-ipc.org/ip/inventory/weedlist.php?#key) lists species identified as being invasive. Belmont is part of the Central West Floristic Province. Blackwood acacia and olive have been identified as having limited invasiveness.

Each tree was rated for suitability for preservation based upon its age, health, structural condition and ability to safely coexist within a development environment. Table 2 (following page) provides a summary of suitability ratings. Suitability ratings for individual trees are provided in the ***Tree Assessment Forms*** (see attachments).

We consider trees with high suitability for preservation to be the best candidates for preservation. We do not recommend retention of trees with low suitability for preservation in areas where people or property will be present. Retention of trees with moderate suitability for preservation depends upon the intensity of proposed site changes.

Table 2: Tree suitability for preservation.
Davey Glen site, Belmont CA.

High	These are trees with good health and structural stability that have the potential for longevity at the site. Olive #11 was the only tree considered highly suitable for preservation.
Moderate	Trees in this category have fair health and/or structural defects that may be abated with treatment. These trees require more intense management and monitoring, and may have shorter life-spans than those in the "good" category. Fourteen (14) trees were of moderate suitability for preservation, including five (5) blackwood acacias, three (3) arroyo willows, coast live oak #1, plum #5, Monterey pine #16, callery pear #17 and Silver dollar gum #18.
Low	Trees in this category are in poor health or have significant defects in structure that cannot be abated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess either characteristics that are undesirable in landscape settings or be unsuited for use areas. Thirteen (13) trees had low suitability for preservation, including seven (7) blackwood acacias, three (3) arroyo willows, two (2) Monterey pines, and bushy yate #2.

Evaluation of Impacts and Recommendations

Appropriate tree retention develops a practical match between the location and intensity of construction activities and the quality and health of trees. The ***Tree Assessment Form*** was the reference point for tree health and condition. I referred to the Grading and Utility Plans, prepared by the Dahlin Group (dated December 18, 2014) to estimate the impacts to trees from the proposed changes.

The current plan proposes to construct a mixed-use residential development, with 73 units above a subterranean parking garage. A commercial/retail building would be located at the corners of El Camino Real and Davey Glen Rd., with an easement and dog run along the southern property line and an outdoor amenity area along the western boundary.

Based on my evaluation of the current plans, removal would be required for 17 trees, including 14 which qualified as *Protected*. Six (6) trees would be directly impacted by the proposed buildings, another six (6) would be located within the detention pond and five (5) would be impacted by the drainage trench along the western boundary. Table 3, following page, provides the recommended action for each tree, reason for removal, and their *Protected* status.

Eleven (11) trees have been identified for preservation, all of which qualified as *Protected*. Trees #1, 41 and 42 will require pruning to reduce their crowns to allow for construction. Recommendations for preservation are predicated on following the ***Tree Preservation Guidelines*** (page 7).

Table 3. Recommendations for action.
Davey Glen site, Belmont CA.

Tree No.	Species	Trunk Diameter (in.)	*Protected*?	Recommended action
1	Coast live oak	11,9,7	Yes	**Preserve**, prune for clearance
2	Bushy yate	8,4	Yes	**Preserve**, off-site
3	Blackwood acacia	8,6,6	Yes	**Preserve**, off-site
4	Blackwood acacia	12,12	Yes	**Preserve**, outside impacts
5	Plum	6,4,4,3,2,2	Yes	Remove, within trench
6	Blackwood acacia	9,7	Yes	Remove, within trench
7	Blackwood acacia	11	Yes	Remove, within trench
8	Blackwood acacia	11	Yes	Remove, impacted by trench
9	Arroyo willow	9,6,4	Yes	Remove, within det. pond
10	Arroyo willow	10,8	Yes	Remove, within det. pond
11	Olive	7,4	Yes	Remove, within bldg. footprint
12	Arroyo willow	10	Yes	Remove, within det. pond
13	Aleppo pine	23	Yes	**Preserve**, outside impacts
14	Monterey pine	9	No	Remove, within bldg. footprint
15	Monterey pine	9	No	Remove, within bldg. footprint
16	Monterey pine	15	Yes	Remove, within bldg. footprint
17	Callery pear	6	No	Remove, within bldg. footprint
18	Silver dollar gum	30,20,12	Yes	Remove, within bldg. footprint
36	Arroyo willow	12	Yes	Remove, within det. pond
37	Arroyo willow	11	Yes	Remove, within det. pond
38	Arroyo willow	9,8,6	Yes	Remove, within det. pond
39	Blackwood acacia	12	Yes	**Preserve**, ~8' from trench
40	Blackwood acacia	11	Yes	**Preserve**, ~10' from trench
41	Blackwood acacia	11	Yes	**Preserve**, maintain min. of 5' from trench. Prune for clearance
42	Blackwood acacia	10	Yes	**Preserve**, ~8' from trench, prune for clearance
43	Blackwood acacia	10	Yes	Remove, impacted by trench
44	Blackwood acacia	12	Yes	**Preserve**, outside impacts
45	Blackwood acacia	11	Yes	**Preserve**, outside impacts

Protected Tree Removal and Mitigation

Protected trees are defined by the City of Belmont tree ordinance #1060, Ch. 25 as all trees with trunk diameter(s) totaling 10 inches or greater at 4.5 feet above grade, except for *Acacia* species, Monterey pine (*Pinus radiata*), and blue gum eucalyptus (*Eucalyptus globulus*). Once approved, *Acacia*, Monterey pine and blue gum can be removed for a $75 per tree fee.

Fees for removal of *Protected* trees are as follows. Trees cannot be removed until City approval has been granted.

- Flat Fee Tree Species (10" diameter or larger Monterey pine, blue gum or *Acacia* spp.): $75 flat fee.

- All Other Tree Species: 10.0" to 17.9" cumulative diameter: $1,000.
  18.0 to 23.9" cumulative diameter: $1,500.
  24.0" and greater cumulative diameter: $2,000.

The following table summarizes the fees for the removal of 14 *Protected* trees identified for removal. Total fees are estimated are $12,375.

Protected tree removal fees

Tag #	Species	Diameter	Removal fee
5	Plum	6,4,4,3,2,2	$1,500
6	Blackwood acacia	9,7	$75
7	Blackwood acacia	11	$75
8	Blackwood acacia	11	$75
9	Arroyo willow	9,6,4	$1,500
10	Arroyo willow	10,8	$1,500
11	Olive	7,4	$1,000
12	Arroyo willow	10	$1,000
16	Monterey pine	15	$75
18	Silver dollar gum	30,20,12	$2,000
36	Arroyo willow	12	$1,000
37	Arroyo willow	11	$1,000
38	Arroyo willow	9,8,6	$1,500
43	Blackwood acacia	10	$75
Total			**$12,375**

Removal of *Protected* trees may also require mitigation plantings to be installed on site. When the mitigation planting requirement cannot be met, an in-lieu fee of up to $497 per mitigation tree not installed shall be paid by the applicant to the City Tree Planting and Establishment Fund, at the discretion of the Planning Commission and City Council.

The following table summarizes the new trees proposed to be planted on the site and their locations. Currently, a total of thirty-four (34) 24" box and nine (9) 15-gallon trees are proposed to be planted on the site.

Proposed planting size and quantity

Location	Size	Total
Street trees	24" box	9
East side screening	24" box	7
Interior	24" box	18
Rear	15 gallon	9

Tree Preservation Guidelines

The goal of tree preservation is not merely tree survival during development but maintenance of tree health and beauty for many years. Impacts can be minimized by coordinating any construction activities inside the **TREE PROTECTION ZONE**.

The following recommendations will help reduce impacts to trees from development and maintain and improve their health and vitality through the clearing, grading and construction phases.

Design recommendations

1. Any plan affecting trees should be reviewed by the Consulting Arborist with regard to tree impacts. These include, but are not limited to, improvement plans, utility and drainage plans, grading plans, landscape and irrigation plans and demolition plans.

2. Evaluate the design of the trench adjacent to tree #41 to provide a minimum of 5' between the closest edge of the trench and the tree trunk.

3. A **TREE PROTECTION ZONE** shall be established around trees to be preserved. No grading, excavation, construction or storage of materials shall occur within that zone. The **TPZ** shall be as follows:

Specific Tree Protection Zones (TPZ)

Tree #	Species	Diameter	TPZ
1	Coast live oak	11,9,7	Back of curb N.
2	Bushy yate	8,4	Back of curb N.
3	Blackwood acacia	8,6,6	Back of curb N.
4	Blackwood acacia	12,12	10' NW.
13	Aleppo pine	23	Dripline
39	Blackwood acacia	12	8' E.
40	Blackwood acacia	11	10' E.
41	Blackwood acacia	11	5' E.
42	Blackwood acacia	10	8' E.
44	Blackwood acacia	12	10' E.
45	Blackwood acacia	11	10' E.

4. **Tree Preservation Notes**, prepared by the Consulting Arborist, should be included on all plans.

5. Underground services including utilities, sub-drains, water or sewer shall be routed around the **TREE PROTECTION ZONE**. Where encroachment cannot be avoided, special construction techniques such as hand digging or tunneling under roots shall be employed where necessary to minimize root injury.

6. Irrigation systems must be designed so that no trenching will occur within the **TREE PROTECTION ZONE**.

Pre-construction treatments and recommendations

1. The demolition contractor shall meet with the Consulting Arborist before beginning work to discuss work procedures and tree protection.

2. Fence trees to completely enclose the **TREE PROTECTION ZONE** prior to demolition, grubbing, or grading. Fences shall be 6 ft. chain link or equivalent as approved by the City of Belmont. Fences are to remain until all construction is completed.

3. Trees to be preserved may require pruning to provide construction clearance. Currently, trees #1, 41 and 42 have been identified as requiring pruning. All pruning shall be completed by a Certified Arborist or Tree Worker. Pruning shall adhere to the latest edition of the ANSI Z133 and A300 standards as well as the *Best Management Practices -- Tree Pruning* published by the International Society of Arboriculture.

4. Structures and underground features to be removed within the **TREE PROTECTION ZONE** shall use the smallest equipment, and operate from outside the **TREE PROTECTION ZONE**. The consultant shall be on-site during all operations within the **TREE PROTECTION ZONE** to monitor demolition activity.

Recommendations for tree protection during construction

1. Prior to beginning work, all contractors working in the vicinity of trees to be preserved are required to meet with the Consulting Arborist at the site to review all work procedures, access routes, storage areas and tree protection measures.

2. Fences are to remain until all site work has been completed. Protection measures may not be relocated or removed without permission of the Consulting Arborist.

3. Any excavation within the dripline or other work that is expected to encounter tree roots should be approved and monitored by the Consulting Arborist. Roots shall be cut by manually digging a trench and cutting exposed roots with a sharp saw. The Consulting Arborist will identify where root pruning is required.

4. Fences have been erected to protect trees to be preserved. Fences define a specific **TREE PROTECTION ZONE** for each tree or group of trees. Fences are to remain until all site work has been completed. Fences may not be relocated or removed without permission of the Consultant.

5. If injury should occur to any tree during construction, it should be evaluated as soon as possible by the Consulting Arborist so that appropriate treatments can be applied.

6. Any additional tree pruning needed for clearance during construction must be performed by a Certified Arborist and not by construction personnel.

Maintenance of impacted trees
Trees preserved at the Davey Glen site may experience a physical environment different from that pre-development. As a result, tree health and structural stability should be monitored. Occasional pruning, fertilization, mulch, pest management, replanting and irrigation may be required. In addition, provisions for monitoring both tree health and structural stability following construction must be made a priority. As trees age, the likelihood of branches or entire trees failing will increase. Therefore, annual inspection for hazard potential is recommended.

HortScience, Inc.

John Leffingwell
Board Certified Master Arborist WE-3966B
Registered Consulting Arborist #442

Attached: ***Tree Assessment Form***

Tree Assessment Maps

Tree Assessment

Davey Glen site
Belmont, California
June 2014

HORT SCIENCE

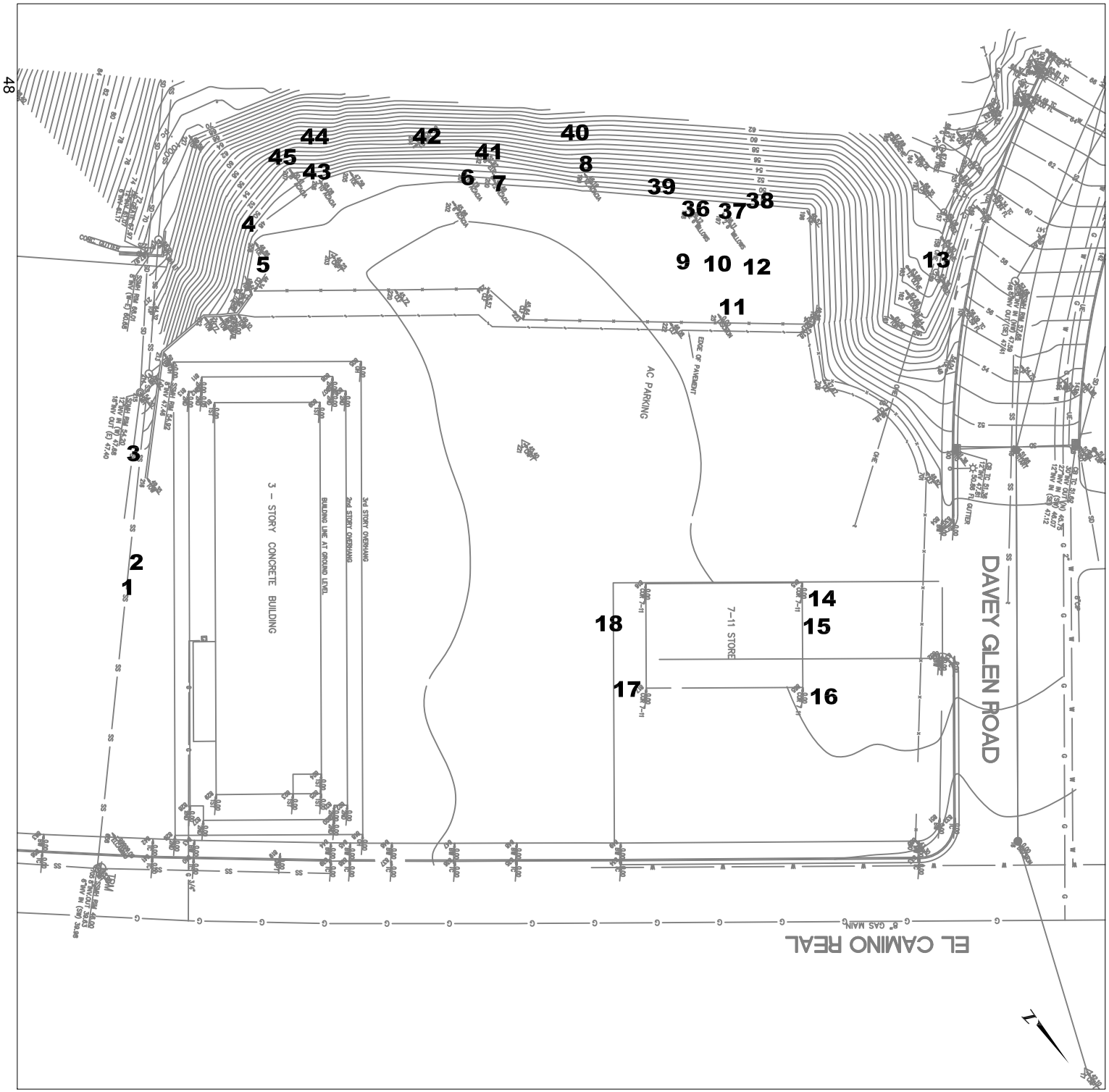
TREE No.	SPECIES	SIZE DIAMETER (in inches)	PROTECTED?	CONDITION 1=POOR 5=EXCELLENT	SUITABILITY FOR PRESERVATION	COMMENTS
1	Coast live oak	11,9,7	Yes	4	Moderate	Multiple attachment at 4'; upright form; beneath overhead utilities.
2	Bushy yate	8,4	Yes	2	Low	One stem upright, others horizontal; dead wood to 3"; beneath overhead utilities.
3	Blackwood acacia	8,6,6	Yes	3	Moderate	Off-site; multiple attachment at base; weak attachments; extends 5' over wall.
4	Blackwood acacia	12,12	Yes	4	Moderate	Codominant trunks at base; crown bowed E.; 25' W. of fence.
5	Plum	6,4,4,3,2,2	Yes	3	Moderate	Multiple attachments at base; crown bowed E.; deadwood.
6	Blackwood acacia	9,7	Yes	3	Low	Codominant trunks at 3'; crown bowed E. to horizontal.
7	Blackwood acacia	11	Yes	3	Low	Suppressed; crown bowed E. to horizontal.
8	Blackwood acacia	11	Yes	2	Low	Failed at base; laying on ground and sprouting up..
9	Arroyo willow	9,6,4	Yes	4	Moderate	Multiple attachments at 3'; trunk wounds.
10	Arroyo willow	10,8	Yes	3	Moderate	Codominant trunks at 3'; 8" stem split at 5'.
12	Arroyo willow	10	Yes	3	Moderate	Leans E.; large trunk wound; topped at 7'.
11	Olive	7,4	Yes	4	High	Good young tree; one sided E.
13	Aleppo pine	23	Yes	3	Moderate	Multiple attachment at 4'; topped at 15' for overhead utilities; poor form, fair structure.
14	Monterey pine	9	No	2	Low	Leans SW.; drought stressed; dieback.

Tree Assessment

Davey Glen site
Belmont, California
June 2014

HORT SCIENCE

TREE No.	SPECIES	SIZE DIAMETER (in inches)	PROTECTED?	CONDITION 1=POOR 5=EXCELLENT	SUITABILITY FOR PRESERVATION	COMMENTS
15	Monterey pine	9	No	3	Low	Trunk sweeps S. from base; pine pitch canker; dieback.
16	Monterey pine	15	Yes	3	Moderate	Multiple attachments at 6'; slight lean W.; beneath overhead utilities.
17	Callery pear	6	No	3	Moderate	Growing against building; one sided S.; twig dieback.
18	Silver dollar gum	30,20,12	Yes	4	Moderate	Multiple attachments at 5'; spreading form; twig dieback.
36	Arroyo willow	12	Yes	2	Low	Failed at base and lying on ground.
37	Arroyo willow	11	Yes	1	Low	Failed at base and lying on ground.
38	Arroyo willow	9,8,6	Yes	2	Low	Failed at base and lying on ground.
39	Blackwood acacia	12	Yes	3	Moderate	Just uphill from trench.
40	Blackwood acacia	11	Yes	2	Low	Uphill from trench.
41	Blackwood acacia	11	Yes	3	Moderate	Just uphill from trench.
42	Blackwood acacia	10	Yes	1	Low	Uphill from trench.
43	Blackwood acacia	10	Yes	2	Low	Just uphill from trench.
44	Blackwood acacia	12	Yes	2	Low	Uphill from trench.
45	Blackwood acacia	11	Yes	3	Moderate	Uphill from trench.



Tree Assessment Map

Davey Glen
Belmont, CA

Prepared for:
Sares Regis Group
San Mateo, CA

June 2014

No Scale

Notes:
BKF
Redwood City, CA

Numbered tree locations
are approximate.

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C. GEOLOGY/SOILS

Rockridge Geotechnical. 2015. *Final Geotechnical Investigation Mixed-Use Development—400-490 El Camino Real Belmont, CA*. January 29, 2015.

ROCKRIDGE GEOTECHNICAL

Prepared for **Sares Regis Group of Northern California**

FINAL GEOTECHNICAL INVESTIGATION
MIXED-USE DEVELOPMENT
400 – 490 EL CAMINO REAL
BELMONT, CALIFORNIA

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January 29, 2015
Project No. 14-635

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ROCKRIDGE GEOTECHNICAL

January 29, 2015
Project No. 14-635

Mr. Jeff Smith
Vice President, Development
Sares Regis Group of Northern California
901 Mariners Island Blvd. #700
San Mateo, California 94404

Subject: Geotechnical Investigation
Proposed Mixed-Use Development
400 – 490 El Camino Real
Belmont, California

Dear Mr. Smith:

We are pleased to present the results of our geotechnical investigation for the proposed mixed-use development to be constructed at 400-490 El Camino Real in Belmont, California. Our services were provided in accordance with our proposal dated July 17, 2014.

The site consists of two adjacent parcels encompassing an area of approximately 1.83 acres and is bordered by the Ross Woods residential development to the southwest, a commercial development to the southeast, Davey Glen Road to the northwest, and El Camino Real to the northeast. The site is relatively level and currently occupied by a two-story office building, a one-story 7-11 store, and asphalt-paved parking lots.

We understand a mixed-use development, consisting of two separate buildings, is being considered for the site. An L-shaped concrete podium structure with one below-grade parking level will be constructed along the southeast and southwest portions of the site. The southwest edge of the building will roughly correspond to the limits of the existing parking lot. In the northern portion of the site (near the intersection of El Camino Real and Davey Glen Road), the podium structure will be set back approximately 46 feet from the property line and a tall single-story commercial/retail building will be constructed at-grade in that area. An L-shaped, four-story, wood-framed residential building will be constructed on the southwest and southeast portions of the podium. The conceptual drawings prepared by Dahlin Group, Inc., dated July 9, 2014, indicate the below-grade parking level will have a top-of-slab elevation of approximately 34 feet (datum unknown), which will likely require cuts of up to 15 feet below existing grades, taking into account the garage slab and approximate foundation depth. Other proposed site

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improvements include an outdoor amenity area located southwest of the building and an emergency vehicle access (EVA) driveway / resident dog run southeast of the building.

From a geotechnical standpoint, we conclude the site can be developed as planned. The primary geotechnical concerns are (1) the presence of highly expansive near-surface soil; (2) the potential for differential settlement due to the variability in depth to bedrock across the proposed building footprint; and (3) the potential for groundwater seepage from the underlying bedrock or along the soil-bedrock contact.

The report contains specific recommendations regarding site grading, foundation design, and other geotechnical issues. The recommendations contained in our report are based on limited subsurface exploration and laboratory testing programs. Consequently, variations between expected and actual soil conditions may be found in localized areas during construction. Therefore, we should be engaged to observe foundation installation and fill placement, during which time we may make changes in our recommendations, if deemed necessary.

We appreciate the opportunity to provide our services to you on this project. If you have any questions, please call.

Sincerely yours,
ROCKRIDGE GEOTECHNICAL, INC.

Logan D. Medeiros, P.E., G.E.
Senior Engineer

Enclosure

ROCKRIDGE GEOTECHNICAL

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FINAL GEOTECHNICAL INVESTIGATION
PROPOSED MIXED-USE DEVELOPMENT
400-490 EL CAMINO REAL
Belmont, California

1.0 INTRODUCTION

This report presents the results of the final geotechnical investigation performed by Rockridge Geotechnical for the proposed mixed-use development to be constructed at 400-490 El Camino Real in Belmont, California. The site is located at the southern corner of the intersection of Davey Glen Road and El Camino Real, as shown on the Site Location Map (Figure 1).

The site consists of two adjacent parcels encompassing an area of approximately 1.83 acres and is bordered by the Ross Woods residential development to the southwest, a commercial development to the southeast, Davey Glen Road to the northwest, and El Camino Real to the northeast. The site is relatively level with existing grades of roughly Elevation 45 to 46 feet[1] within the proposed building footprint. The site is currently occupied by a two-story office building, a one-story 7-11 store, and asphalt-paved parking lots. We understand the parcel currently occupied by 7-11 may have been previously occupied by a service station—the environmental site assessment is being performed by others.

We understand a mixed-use development, consisting of two separate buildings, is being considered for the site. An L-shaped concrete podium structure with one below-grade parking level will be constructed along the southeast and southwest portions of the site. The southwest edge of the building will roughly correspond to the limits of the existing parking lot shown on the Site Plan, Figure 2. In the northern portion of the site (near the intersection of El Camino Real and Davey Glen Road), the podium structure will be set back approximately 46 feet from the property line and a tall single-story commercial/retail building will be constructed at-grade in that area. An L-shaped, four-story, wood-framed residential building will be constructed on the

[1] Estimates of existing grades based on topographic information provided on conceptual design drawings prepared by Dahlin Group, dated July 9, 2014 (datum unknown).

southwest and southeast portions of the podium. The conceptual drawings prepared by Dahlin Group, Inc., dated July 9, 2014, indicate the below-grade parking level will have a top-of-slab elevation of approximately 34 feet (datum unknown), which will likely require cuts of up to 15 feet below existing grades, taking into account the garage slab and approximate foundation depth. Other proposed site improvements include an outdoor amenity area located southwest of the building and an emergency vehicle access (EVA) driveway / resident dog run southeast of the building.

Structural design loads were not available at the time this report was prepared. However, based on our experience with similar structures, we estimate the proposed podium building will have maximum dead-plus-live interior column loads on the order of 400 kips where it supports the four residential levels.

2.0 SCOPE OF SERVICES

We previously performed a preliminary geotechnical investigation at the site, the results of which were presented in our report dated March 20, 2014. Our preliminary investigation consisted of evaluating subsurface conditions at the site by performing five cone penetration tests (CPTs). Our subsequent final investigation was performed in accordance with our proposal, dated July 17, 2014. Our scope of work consisted of further evaluating subsurface conditions at the site by advancing four exploratory borings, installing a shallow groundwater monitoring well, performing laboratory testing on select soil samples, and performing engineering analyses to develop final conclusions and recommendations regarding:

- the most appropriate foundation type(s) for the proposed structures
- design criteria for the recommended foundation type(s), including vertical and lateral capacities
- estimates of foundation settlement
- design groundwater level
- subgrade preparation for slab-on-grade floors and concrete flatwork
- site grading and excavation, including criteria for fill quality and compaction

- site seismicity and seismic hazards, including the potential for liquefaction and liquefaction-induced ground failure
- design criteria for temporary shoring
- design of permanent below-grade walls
- 2013 California Building Code (CBC) site class and design spectral response acceleration parameters
- soil corrosivity
- construction considerations.

3.0 DATA REVIEW

We reviewed the results of previous geotechnical investigations performed in the site vicinity. In 1996, GeoForensics, Inc. performed a geotechnical investigation at the One Davey Glen Road and prepared a report dated September, 1996, titled *Geotechnical Investigation Update for a New Townhouse Complex at One Davey Glen Road, Belmont, California*. GeoForensics' investigation included drilling six test borings to depths ranging from nine to 15 feet below the ground surface (bgs), and reviewing a previous geotechnical report prepared by JCP Engineers & Geologists, Inc. The JCP report referenced by GeoForensics is dated June 18, 1992, and titled *Soil and Foundation Study for Proposed 80-Unit Condominium Project at One Davey Glen Road, Belmont, California.* The results of the borings and referenced report were presented in GeoForensics' report.

4.0 FIELD INVESTIGATION

Subsurface conditions at the site were investigated by drilling four test borings, constructing one shallow groundwater monitoring well, advancing five CPTs, and performing laboratory testing on select soil samples. Prior to our field investigations, we contacted Underground Service Alert (USA) to notify them of our work, as required by law, and retained Precision Locating, LLC, a private utility locator, to check that the boring and CPT locations were clear of existing utilities. We also obtained drilling permits from the San Mateo County Environmental Health Services Division. Upon completion, the test borings and CPTs were backfilled with cement grout in

accordance with County requirements. Details of the field investigation and laboratory testing are described below.

4.1 Cone Penetration Tests

Subsurface conditions at the site were investigated on February 4, 2014, by performing five CPTs, designated as CPT-1 through CPT-5, at the approximate locations shown on Figure 2. The CPTs were advanced to practical refusal at depths ranging from about 6 to 40 feet below the existing ground surface (bgs) by John Sarmiento & Associates of Orinda, California. The CPTs were performed by hydraulically pushing a 1.4-inch-diameter cone-tipped probe with a projected area of 10 square centimeters into the ground. The cone-tipped probe measured tip resistance and the friction sleeve behind the cone tip measured frictional resistance. Electrical strain gauges within the cone continuously measured soil parameters for the entire depth advanced. Soil data, including tip resistance, frictional resistance, and pore water pressure were recorded by a computer while the test was conducted. Accumulated data were processed by computer to provide engineering information such as the types and approximate strength characteristics of the soil encountered. The CPT logs showing tip resistance, friction ratio, and pore pressure, as well as correlated soil behavior type, are presented in Appendix A on Figures A-7 to A-11.

4.2 Test Borings

The subsurface conditions were further explored during our final field investigation by drilling four test borings. The borings were drilled on December 9, 2014 by Exploration GeoServices of San Jose, California. The borings, designated B-1 through B-4, were each drilled to depths ranging from 14 to 30-1/2 feet bgs using a Mobile B-56 drill rig equipped with eight-inch-diameter hollow-stem augers. During drilling, our field engineer logged the soil and rock encountered and obtained representative samples for visual classification and laboratory testing. The logs of the borings are presented on Figures A-1 through A-4 in Appendix A. The soil and rock encountered in the borings was classified in accordance with the classification charts shown on Figures A-5 and A-6, respectively.

Soil samples were obtained using the following samplers:

- Sprague and Henwood (S&H) split-barrel sampler with a 3.0-inch outside diameter and 2.5-inch inside diameter, lined with 2.43-inch inside diameter brass tubes
- Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside and 1.5-inch inside diameter, without liners.

The type of sampler used was selected based on soil type and the desired sample quality for laboratory testing. In general, the S&H sampler was used to obtain samples in medium stiff to very stiff cohesive soil and the SPT sampler was used to evaluate the relative density of sandy soil and to sample hard clays and bedrock. The samplers were driven with a 140-pound, downhole, wireline hammer falling about 30 inches per drop. The samplers were driven up to 18 inches and the hammer blows required to drive the samplers were recorded every six inches and are presented on the boring logs. A "blow count" is defined as the number of hammer blows per six inches of penetration or 50 blows for six inches or less of penetration. The blow counts required to drive the S&H and SPT samplers were converted to approximate SPT N-values using factors of 0.7 and 1.2, respectively, to account for sampler type, approximate hammer energy, and the fact that the SPT sampler was used without liners. The blow counts used for this conversion were: (1) the last two blow counts if the sampler was driven more than 12 inches, (2) the last one blow count if the sampler was driven more than six inches but less than 12 inches, and (3) the only blow count if the sampler was driven six inches or less. The converted SPT N-values are presented on the boring logs.

Upon completion of drilling the boreholes were backfilled with cement grout with the exception of Boring B-1, which was subsequently converted to a groundwater monitoring well in order to monitor perched water and seepage after periods of heavy rainfall. The soil cuttings were spread on the ground surface in landscape areas.

4.3 Laboratory Testing

We re-examined each soil sample obtained from our borings to confirm the field classifications and select representative samples for laboratory testing. Soil samples were tested to measure moisture content, dry density, Atterberg limits (plasticity index), percent passing the No. 200 sieve, and corrosivity. The Atterberg limits test is an indirect measurement of the expansion potential of soil. The results of the geotechnical laboratory tests are presented on the boring logs and in Appendix B. The results of the corrosivity analyses are also presented in Appendix B.

5.0 SUBSURFACE CONDITIONS

The geology map of San Mateo County indicates the site is underlain by Franciscan Complex sedimentary rocks (KJfs), as shown on the Regional Geologic Map (Figure 3). The results of our borings and CPTs indicate the site is underlain by very stiff to hard clay with varying sand content and dense to very dense clayey sand, which is underlain by bedrock. The top of bedrock generally slopes down to the east. Along the southwest portion of the project site, the top of weathered bedrock was encountered at depths ranging from about four to seven feet bgs in our borings and CPTs. Along the northeast edge of the project site, top of weathered bedrock was encountered at approximately 8 feet bgs at the north corner (CPT-1 and Boring B-2) and about 32 feet bgs at the east corner (CPT-5).

The results of the Atterberg limits test performed on a sample of clay from Boring B-2 at a depth of about 3 feet bgs, indicates the near-surface clay is highly expansive.[2]

5.1 Groundwater

Free groundwater was previously encountered at the adjacent site, upslope and to the southwest, in two of the borings performed by GeoForensics in April, 1996. Free groundwater was encountered on top of the nearby hill and near the bottom of the cut slope at depths of five and

[2] Expansive soil undergoes large volume changes with changes in moisture content.

12 feet bgs, respectively. The subject borings were drilled at the northern end of the project site and were located in a "filled stream channel", as referred to by GeoForensics.

During our field investigations, groundwater was only encountered in CPT-5 at a depth of approximately 20 feet bgs in February, 2014. Groundwater was not encountered in our test borings during drilling on December 9, 2014. It should be noted that the two field investigations occurred following periods of relatively low precipitation. To evaluate the potential for perched water conditions associated with the adjacent hillside drainage and the presence of shallow bedrock, we converted Boring B-1, located near the toe of the adjacent hill at the back of the property, to a shallow groundwater monitoring well. Groundwater measurements taken periodically after heavy rainfall indicate perched water conditions do occur along the southwestern edge of the project site, indicating groundwater seepage from the adjacent slope. Water levels as shallow as 2.8 feet bgs were measured in the monitoring well. We anticipate the majority of the observed water is perched above the bedrock-soil contact; however water may also be flowing through the fractures in the rock formation—this distinction cannot be made from the available data and the screening interval of the single monitoring well. A summary of our groundwater monitoring data is presented below in Table 1.

Table 1
Summary of Groundwater Data
Monitoring Well MW-1

Date of Reading	MW-1		Notes
	Depth (feet)	Approximate Elevation (feet)	
12/09/14	--	--	Reading obtained during well installation; no free water encountered in borehole. Little rain 3 days prior to reading.
12/12/14	5.3	40.8	Heavy rain (several inches) occurred during two days prior to reading
12/30/14	4.8	41.3	Little to no rain since 12/24/2014
01/13/15	2.8	43.2	No measurable amount of rain since 12/24/2014

6.0 SEISMIC CONSIDERATIONS

Because the project site is in a seismically active region, we evaluated the potential for earthquake-induced geologic hazards, including ground shaking, ground surface rupture, liquefaction[3], lateral spreading[4] and cyclic densification.[5] The results of our preliminary evaluation regarding seismic considerations for the project site are presented in the following sections.

6.1 Regional Seismicity and Faulting

The site is located in the Coast Ranges geomorphic province that is characterized by northwest-southeast trending valleys and ridges. These are controlled by folds and faults that resulted from the collision of the Farallon and North American plates and subsequent shearing along the San Andreas fault system. Movements along this plate boundary in the Northern California region occur along right-lateral strike-slip faults of the San Andreas Fault system.

The major active faults in the area are the San Andreas, San Gregorio, and Hayward faults. These and other faults in the region are shown on Figure 4. Active faults within a 50-kilometer radius of the site, the distance from the site and mean characteristic moment magnitude[6] [2007 Working Group on California Earthquake Probabilities (USGS 2008) and Cao et al. (2003)] are summarized in Table 2.

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[3] Liquefaction is a phenomenon where loose, saturated, cohesionless soil experiences temporary reduction in strength during cyclic loading such as that produced by earthquakes.

[4] Lateral spreading is a phenomenon in which surficial soil displaces along a shear zone that has formed within an underlying liquefied layer. Upon reaching mobilization, the surficial blocks are transported downslope or in the direction of a free face by earthquake and gravitational forces.

[5] Cyclic densification is a phenomenon in which non-saturated, cohesionless soil is compacted by earthquake vibrations, causing ground-surface settlement.

[6] Moment magnitude is an energy-based scale and provides a physically meaningful measure of the size of a faulting event. Moment magnitude is directly related to average slip and fault rupture area.

TABLE 2
Regional Faults and Seismicity

Fault Segment	Approximate Distance from Site (km)	Direction from Site	Mean Characteristic Moment Magnitude
N. San Andreas - Peninsula	5.4	West	7.23
N. San Andreas (1906 event)	5.4	West	8.05
Monte Vista-Shannon	10	Southeast	6.50
San Gregorio Connected	18	West	7.50
Total Hayward	24	Northeast	7.00
Total Hayward-Rodgers Creek	24	Northeast	7.33
Total Calaveras	36	East	7.03
N. San Andreas - North Coast	39	Northwest	7.51
Mount Diablo Thrust	44	Northeast	6.70
N. San Andreas - Santa Cruz	46	Southeast	7.12
Green Valley Connected	49	Northeast	6.80

Since 1800, four major earthquakes have been recorded on the San Andreas Fault. In 1836, an earthquake with an estimated maximum intensity of VII on the Modified Mercalli (MM) scale occurred east of Monterey Bay on the San Andreas Fault (Toppozada and Borchardt 1998). The estimated Moment magnitude, M_w, for this earthquake is about 6.25. In 1838, an earthquake occurred with an estimated intensity of about VIII-IX (MM), corresponding to an M_w of about 7.5. The San Francisco Earthquake of 1906 caused the most significant damage in the history of the Bay Area in terms of loss of lives and property damage. This earthquake created a surface rupture along the San Andreas Fault from Shelter Cove to San Juan Bautista approximately 470 kilometers in length. It had a maximum intensity of XI (MM), an M_w of about 7.9, and was felt 560 kilometers away in Oregon, Nevada, and Los Angeles. The most recent earthquake to affect

the Bay Area was the Loma Prieta Earthquake of 17 October 1989 with an M_w of 6.9. This earthquake occurred in the Santa Cruz Mountains about 65 kilometers southwest of the site.

In 1868, an earthquake with an estimated maximum intensity of X on the MM scale occurred on the southern segment (between San Leandro and Fremont) of the Hayward Fault. The estimated M_w for the earthquake is 7.0. In 1861, an earthquake of unknown magnitude (probably an M_w of about 6.5) was reported on the Calaveras Fault. The most recent significant earthquake on this fault was the 1984 Morgan Hill earthquake ($M_w = 6.2$).

The U.S. Geological Survey's 2007 Working Group on California Earthquake Probabilities has compiled the earthquake fault research for the San Francisco Bay area in order to estimate the probability of fault segment rupture. They have determined that the overall probability of moment magnitude 6.7 or greater earthquake occurring in the San Francisco Bay Region during the next 30 years is 63 percent. The highest probabilities are assigned to the Hayward/Rodgers Creek Fault and the northern segment of the San Andreas Fault. These probabilities are 31 and 21 percent, respectively (USGS, 2008).

6.2 Geologic Hazards

During a major earthquake on a segment of one of the nearby faults, strong to very strong shaking is expected to occur at the project site. Strong shaking during an earthquake can result in ground failure such as that associated with soil liquefaction, lateral spreading, and cyclic densification. We used the results of the borings and CPTs to evaluate the potential of these phenomena occurring at the project site. The results of our analyses and evaluation are presented in the following sections.

6.2.1 Ground Shaking

The ground shaking intensity felt at the project site will depend on: 1) the size of the earthquake (magnitude), 2) the distance from the site to the fault source, 3) the directivity (focusing of earthquake energy along the fault in the direction of the rupture), and 4) site-specific soil

conditions. The site is less than 25 kilometers from three major faults. Therefore, the potential exists for a large earthquake to induce strong to very strong ground shaking at the site during the life of the project.

6.2.2 Liquefaction and Associated Hazards

Strong shaking during an earthquake can result in ground failure such as that associated with soil liquefaction and lateral spreading. Soil susceptible to liquefaction includes loose to medium dense sand and gravel, low-plasticity silt, and some low-plasticity clay deposits. Flow failure, lateral spreading, differential settlement, loss of bearing strength, ground fissures and sand boils are evidence of excess pore pressure generation and liquefaction.

We evaluated the liquefaction potential of soil encountered below groundwater at the site using data collected in our CPTs. Our liquefaction analyses were performed using the methodology proposed by P.K. Robertson (2009). We also used the relationship proposed by Zhang, Robertson, and Brachman (2002) to estimate post-liquefaction volumetric strains and corresponding ground surface settlement; a relationship that is an extension of the work by Ishihara and Yoshimine (1992).

Our analyses were performed using an assumed high groundwater depth of 5 feet bgs. In accordance with the 2013 California Building Code (CBC), we used a peak ground acceleration of 0.74 times gravity (g) in our liquefaction evaluation; this peak ground acceleration is consistent with the Maximum Considered Earthquake Geometric Mean (MCE_G) peak ground acceleration adjusted for site effects (PGA_M). We also used a moment magnitude 8.05 earthquake, which is consistent with the mean characteristic moment magnitude for the San Andreas Fault (1906 rupture), as presented in Table 2.

The results of our CPTs and our liquefaction analyses indicate the soils beneath the site generally have substantial cohesion, and therefore, they are not susceptible to liquefaction. The underlying bedrock is also not susceptible to liquefaction. Therefore, we conclude the potential for liquefaction and associated hazards, such as lateral spreading, are very low.

6.2.3 Cyclic Densification

Cyclic densification (also referred to as differential compaction) of non-saturated sand (sand above groundwater table) can occur during an earthquake, resulting in settlement of the ground surface and overlying improvements. The site is primarily underlain by stiff to hard fine-grained deposits and granular layers are sufficiently dense and cohesive, such that they are not susceptible to cyclic densification. Therefore, we conclude the potential for cyclic densification to occur at the site is very low.

6.2.4 Fault Rupture

Historically, ground surface displacements closely follow the trace of geologically young faults. The site is not within an Earthquake Fault Zone, as defined by the Alquist-Priolo Earthquake Fault Zoning Act, and no known active or potentially active faults exist on the site. We therefore conclude the risk of fault offset at the site from a known active fault is very low. In a seismically active area, the remote possibility exists for future faulting in areas where no faults previously existed; however, we conclude the risk of surface faulting and consequent secondary ground failure from previously unknown faults is also very low.

7.0 DISCUSSIONS AND CONCLUSIONS

Based on the results of our engineering analyses using the data from the borings, CPTs, and previous geotechnical reports for the site vicinity, we conclude there are no major geotechnical or geological issues that would preclude development of the site as proposed. The primary geotechnical concerns are (1) the presence of highly expansive near-surface soil; (2) the potential for differential settlement due to the variability in depth to bedrock across the proposed building footprint; and (3) the potential for groundwater seepage from the underlying bedrock or along the soil-bedrock contact. These and other issues are discussed in this section.

7.1 Foundations and Settlement

If the building is supported on a shallow foundation system, we anticipate the foundations for the below-grade portion of the L-shaped podium building will bottom roughly 15 feet below existing grades, while small portions of the residential building and the one-story commercial building are to be constructed at grade. Based on the results of our subsurface investigation, we anticipate the foundations of the proposed structures will be underlain by very stiff to hard alluvium and/or deeply weathered bedrock, both of which have relatively low compressibility. Using the estimated maximum column loads for buildings of this size and type, as presented in Section 1.0, our settlement analyses indicate total settlement of footings bearing on undisturbed native soil, designed using the allowable bearing pressures presented in Section 8.2 of this report, will be less than 1/2 inch. Because settlement of footings bearing on undisturbed bedrock will likely be very low, we estimate the differential settlement will be less than 1/2 inch over a horizontal distance of 30 feet. If the estimated differential settlements are acceptable from a structural engineering standpoint, we conclude the proposed structures can be supported on conventional spread footings bearing on firm native soil and/or bedrock.

Because the proposed at-grade retail/commercial building will be located immediately adjacent to the below-grade parking level of the podium structure, the foundations along their interface should either be deepened to avoid surcharge pressures on the basement wall, or the wall should be designed for the additional surcharge pressures from the adjacent footings. Once the foundation configuration/geometry and loading have been evaluated by the structural engineer, we can provide specific recommendations for design surcharge pressures on the basement wall, if needed.

7.2 Expansive Soil

As discussed in Section 5.0, the near-surface clay was identified as highly expansive. The highly expansive near-surface clay is subject to volume changes during seasonal fluctuations in moisture content. These volume changes can cause cracking of foundations and slabs. Therefore, at-grade foundations and slabs should be designed and constructed to resist the effects

of the expansive clay. In general, the effects of expansive soil can be mitigated by moisture-conditioning the expansive soil, providing select, non-expansive fill or lime-treated soil below interior and exterior slabs and behind retaining walls, and either supporting foundations below the zone of severe moisture change or by providing a stiff, shallow foundation that can limit deformation of the superstructure as the underlying soil shrinks and swells. We recommend the proposed at-grade commercial building be supported on a foundation system that includes a continuous, deepened perimeter footing. The perimeter footings should be deepened to act as barriers to reduce the potential for seasonal moisture change beneath the slab-on-grade floors.

The footings for the below-grade podium building will be primarily supported on rock and will be below the zone of severe seasonal moisture change. Therefore, they will not be subject to significant seasonal volumetric change in the soil and mitigation of the expansive soil is not required, provided the footing excavations and slab subgrade are maintained in a moist condition during construction.

To prevent the soil subgrade beneath the at-grade building slabs from drying during construction and to reduce the long-term effects of expansive subgrade soil, a minimum of 12 inches of select, non-expansive fill should be placed on the prepared subgrade. Alternatively, the upper 12 inches of slab subgrade may be treated in place with lime to reduce its expansion potential.

In addition, on expansive soil sites it is critical to properly manage surface and subsurface drainage to prevent water from collecting beneath pavements and slabs or behind below-grade walls, where it can lead to cyclic swelling and shrinking of the subgrade soil and can cause subgrade instability under vehicular loads. At this time, we are not aware of the pavement types that are planned for the site. However, we anticipate that permeable pavements may be considered for the proposed project. Furthermore, storm water collection and/or treatment systems (bio-swales, infiltration basins, rain gardens, etc.) are increasingly common design features on projects throughout the Bay Area. While the objective of permeable pavement systems and infiltration basins is to allow for water storage and infiltration, we conclude that infiltration into the subgrade soil is not feasible at this site due to the low permeability of the

moderately to expansive clay. Furthermore, from a geotechnical standpoint, water should not be allowed to collect alongside or beneath the building foundations, pavements and flatwork. This can be achieved by providing subdrain systems beneath permeable surfaces and installing vertical barriers between permeable surfaces underlain by subdrains and non-permeable surfaces underlain by conventional aggregate base. In addition, to prevent the subgrade soil from becoming saturated, we conclude that permeable aggregate base courses should be underlain by an impermeable liner in zones subject to regular vehicular traffic.

7.3 Groundwater, Drainage, and Dewatering

As discussed in Section 5.1, groundwater measurements obtained from the monitoring well MW-1 indicate a very shallow perched water condition occurs along the soil-bedrock interface at the toe of the adjacent slope to the southwest following periods of heavy rainfall. Considering the topographic conditions to the southwest and the site geology, we conclude there is also potential for water flow within fractures in the underlying rock formation, in addition to the perched flow within the overlying soil. Therefore, we conclude the proposed development should be designed to better manage surface and subsurface drainage, in order to reduce the potential for shallow subsurface water adversely impacting the performance of the foundations, slabs, and below-grade walls. Temporary dewatering during construction as well as permanent underslab and wall drainage systems are discussed in more detail in the following sections.

7.3.1 Temporary Dewatering

Based on the observed shallow groundwater and our experience on previous projects with sloping terrain and shallow bedrock, similar to the subject site, seepage of groundwater into the basement excavation should be expected during construction, especially if the excavations are open during the wet season. In most cases, we anticipate groundwater seepage, if any, would have a relatively low flow rate. However, potential fractures in the bedrock may produce a significant amount of water in isolated areas. Flow of groundwater into the excavation during construction could result in sloughing, slumping, or caving of the sides of the excavation and/or

wet, difficult working conditions. Therefore, we anticipate it will be necessary to temporarily dewater excavations during wet weather conditions.

Temporary dewatering is typically performed by installing a series of wells around the perimeter of the building, with interior wells also used for larger building footprints. However, based on our investigation, we conclude the effectiveness of temporary dewatering wells will be limited due to the relatively low permeability of the soil and bedrock encountered at the site. Therefore, we believe a passive system, in which water is collected from the perimeter of the site using gravel-filled trenches, will be more appropriate. Once it is in place and functional, the permanent underslab drainage system (discussed in more detail in the following section) can be used to manage water in the excavation during construction.

The dewatering system should be designed and installed by an experienced contractor. Groundwater removed during dewatering should be disposed of in accordance with applicable state and local regulations.

7.3.2 Permanent Drainage

Management of shallow groundwater should include installation of subdrain systems beneath the garage slab and behind the below-grade walls, as well as systems to better collect and manage surface water between the toe of the nearby slope and the proposed building. An alternative would be to design the podium structure to resist the shallow groundwater condition and associated hydrostatic uplift pressures. This would require waterproofing of the below-grade level and designing the foundation system to resist high water pressures, which would increase the cost of the system substantially, as ground anchors would likely be required. Based on our experience, we believe that providing an underslab drainage system to prevent the build-up of hydrostatic pressures will result in a more economical foundation system. The underslab drainage system should consist of a continuous blanket of drain rock combined with a network of collection pipes connected directly to the storm drain system (if feasible) or to at least one sump-and-pump system.

In addition to the underslab drainage system, wall backdrains should be installed along the perimeter garage walls to reduce the hydrostatic pressures acting on walls and to reduce the amount of water flowing to the underslab drain.

The design of the permanent subdrain systems should consider the possibility that a portion of the drain may fail, resulting in an unwanted build-up of hydrostatic pressures which could damage the foundation or basement walls. Inspection and maintenance programs should be implemented to verify that the system is performing as expected during the life of the structure. These programs should ensure that replacement parts, including pumps, are readily available in case of mechanical failure. In addition, it may be desirable to install hydrostatic pressure relief valves in the garage floor slab to allow water to drain into the garage in the event that excessive pressure builds up beneath the floor slab.

7.4 Excavation Support

We estimate the proposed below-grade podium configuration will require an excavation on the order of 15 feet below existing grades (including excavation for the foundation). In some locations, the sides of the excavation may be cut at temporary slopes and the walls subsequently backfilled following construction of the podium. For planning purposes, a maximum cut slope inclination of 1.5:1 (horizontal:vertical) may be assumed, which corresponds to OSHA Type C soil. Type C soil is the appropriate designation when seepage is observed in the cut-slopes during construction. If the excavation is performed during the dry season and no perched water is present, the temporary cut slopes in soil may have a maximum inclination of 1:1, which corresponds to OSHA Type B soil. Cut slopes in rock during the dry season may possibly be treated as Type A material (3/4:1 maximum inclination), however, this will have to be further evaluated based on the time of year excavation is performed and the soil/rock/groundwater conditions observed by our engineer in the field.

In locations where there is insufficient space to slope the excavation due to the presence of adjacent streets, sidewalks, critical underground utilities, or existing structures, a temporary

shoring system may be required. While several shoring types are available, considering the depth of the planned excavation and the soil conditions, we conclude that a conventional cantilevered soldier pile-and-lagging system will be the most economical for this site.

A soldier pile-and-lagging system usually consists of steel H-beams and concrete placed in predrilled holes extending below the bottom of the excavation. Wood lagging is placed between the piles as the excavation proceeds from the top down. Where the required vertical cut is less than about 12 feet, a soldier pile-and-lagging system can typically provide economical shoring without tiebacks, and therefore will not encroach beyond the property line. Where cuts exceed about 12 to 15 feet in height, soldier pile-and-lagging systems are typically more economical if they include tieback anchors. However, depending on the excavation setback from the property line, tieback anchors may extend beneath the streets and sidewalks, which will require an encroachment agreement with the City. Where it is not feasible to install tiebacks and the excavation height is too large for a cantilevered soldier pile system, then internal bracing of the excavation may be required.

An engineer knowledgeable in this type of construction should be retained to design the shoring. The shoring designer should design the shoring system for lateral deformation of less than 1/2 inch at any location on the shoring where there is a structure within a horizontal distance equal to twice the retained soil height and less than one inch where there are no structures within that horizontal distance. We should review the final shoring plans and calculations to check that they are consistent with the recommendations presented in this report.

7.5 Excavation in Rock

Excavations in rock will be required for construction of the below-grade garage and foundations. Where encountered in our borings, the bedrock is friable to weak and deeply weathered to the maximum depth explored of 14 to 40 feet bgs. Note that corrected SPT N-values within the rock were estimated to range from about 35 blows for six inches and about 60 blows for 2.5 inches. Furthermore, drilling rates of about 1-1/2 and 2 minutes were recorded between depths of 4 to 10 feet and 10 to 15 feet, respectively, in boring B-4. We anticipate the weathered rock in the upper

portion of the excavation can be excavated with conventional grading equipment (excavators and bull dozers); and harder rock at depth may require the use of hydraulic breaking equipment (i.e. a hoe ram). Furthermore, because the bedrock was characterized by widely spaced borings during our investigation, it is possible that harder rock and difficult drilling or excavation may be encountered in other parts of the site. Therefore, the contractors involved in shoring installation and excavation for the garage levels should be prepared to excavate hard rock, including the possible use of hydraulic breaking equipment, and should bid the project accordingly. The material descriptions, SPT N-values, and drilling rates presented on the boring logs should be evaluated by the contractor when bidding the project and selecting appropriate equipment.

8.0 RECOMMENDATIONS

8.1 Site Preparation and Grading

Site clearing should include removal of all existing pavements, former foundation elements, and underground utilities. Any vegetation and organic topsoil (if present) should be stripped in areas to receive improvements (i.e., building, pavement, or flatwork). Tree roots with a diameter greater than 1/2 inch within three feet of subgrade should be removed. Excessively dry soil at tree removal locations, as determined in the field by the geotechnical engineer, should also be excavated and replaced. Demolished asphalt concrete should be taken to an asphalt recycling facility. Aggregate base beneath existing pavements may be re-used as select fill if carefully segregated.

We anticipate the excavation will be well above the static regional groundwater level. However, if excavation and grading is performed during the wet season, the excavation subgrade may become wet, especially along the southwest edge, where perched water may be seeping from the cut slopes and/or shoring along the soil-rock interface. Where the excavation subgrade is bottomed in rock, the surface should be reasonably stable. However, where it is bottomed in soil (such as in the east corner of the site), the soil may be sensitive to disturbance, especially under

construction equipment wheel loads. If soft areas are encountered in the slab subgrade or footing excavations, subgrade stabilization measures may be required.

In areas that will receive improvements (i.e. building pad, exterior concrete flatwork, etc.), the soil subgrade exposed following stripping and clearing should be scarified to a depth of at least eight inches, moisture-conditioned, and compacted in accordance with the recommendations provided below in Table 3. Where bedrock is exposed at subgrade elevation, scarification and re-compaction will not be required.

The at-grade portion of the residential building and the at-grade commercial building will both be underlain by highly expansive clay. To mitigate the detrimental effects of expansive near-surface soil, slabs-on-grade for at-grade structures should be underlain by at least 12 inches (measured below the bottom of capillary moisture break) of non-expansive soil consisting of select fill or lime-treated on-site soil. The non-expansive soil should extend at least five feet beyond the perimeter of the proposed buildings where pavements will be constructed, except where constrained by the property line. In addition, the subgrade for proposed concrete flatwork should also be overexcavated to accommodate at least 6 inches of non-expansive soil. Class 2 aggregate base (AB) placed below concrete flatwork may be counted as part of the non-expansive soil. The native soil exposed at the base of the excavations should be scarified to a depth of at least eight inches, moisture-conditioned to at least four percent above optimum moisture content, and compacted to between 87 and 92 percent relative compaction[7].

If material to be used as fill is imported to the site, it should meet the requirements for select fill provided below in Section 8.1.1. A summary of the compaction requirements for the various types of fill that may be used at the site is presented in Table 3.

[7] Relative compaction refers to the in-place dry density of soil expressed as a percentage of the maximum dry density of the same material, as determined by the ASTM D1557 laboratory compaction procedure.

TABLE 3
Summary of Compaction Requirements

Location	Required Relative Compaction (percent)	Moisture Requirement
Building pads – expansive clay	87 – 92	4+% above optimum
Building pads – low plasticity *	90+	Above optimum
Exterior slabs – expansive clay	87 – 92	4+% above optimum
Exterior slabs – low plasticity	90+	Above optimum
Vehicular Pavements – expansive clay	92+	2+% above optimum
Vehicular Pavements – low plasticity	95+	Above optimum
Vehicular Pavements - aggregate base	95+	Near optimum
General fill – expansive clay	87 – 92	4+% above optimum
General fill – low-plasticity soil	90+	Above optimum
General fill – granular soil	95+	Near optimum
Utility trench backfill – expansive clay	87 – 92	4+% above optimum
Utility trench backfill – low-plasticity	90+	Above optimum
Utility trench - clean sand or gravel	95+	Near optimum

*Low-plasticity soil includes select fill and lime-treated onsite soil. Granular soil includes sand and gravel with less than 10 percent fines content.

8.1.1 Select Fill

Select fill should consist of soil that is free of organic matter, contain no rocks or lumps larger than three inches in greatest dimension, have a liquid limit less than 40 and plasticity index less than 12, and be approved by the geotechnical engineer. Samples of proposed select fill material should be submitted to the geotechnical engineer at least three business days prior to use at the site. Select fill should be placed in lifts not exceeding eight inches in loose thickness, moisture-conditioned to above optimum moisture content, and compacted in accordance with the compaction requirements presented in Table 3.

Prior to importing fill to the site, the grading contractor should provide analytical test results or other suitable environmental documentation indicating the imported fill is free of hazardous materials at least three days before use at the site. If this data is not provided, a minimum of two weeks will be required to perform any necessary analytical testing.

8.1.2 Lime Treatment

If the non-expansive soil to be placed beneath the at-grade building pads and exterior concrete flatwork is to consist of lime-treated on-site soil, the upper 12 inches of the soil subgrade should be treated in place with at least four percent dolomitic quicklime by dry weight of soil. The dry weight of soil should be assumed to be 115 pounds per cubic foot (pcf) for calculating lime quantities. A specialty subcontractor should perform the lime treatment. Prior to lime treatment, we recommend the site be graded to a level pad elevation in accordance with our previous recommendations and all below-grade obstructions removed. The soil treated with lime should be mixed and compacted in one lift. The lime should be thoroughly blended with the soil and allowed to set for 24 hours prior to remixing and compaction. The lime-treated soil should be moisture-conditioned to above optimum moisture content and compacted to at least 90 percent relative compaction.

It should be noted that disposal of lime-treated soil is typically expensive because of the high pH of the treated soil. In addition, lime-treated soil should be completely removed from landscaping areas as the high pH will prevent plant growth.

8.1.3 Exterior Flatwork Subgrade Preparation

We recommend a minimum of six inches of select, non-expansive soil beneath proposed exterior concrete flatwork; the non-expansive soil should extend at least six inches beyond the slab edges. The select fill may consist of Class 2 aggregate base (AB). Select fill and lime-treated on-site soil beneath exterior slabs-on-grade should be moisture-conditioned and compacted in accordance with the requirements provided above in Table 3. Class 2 aggregate base beneath concrete flatwork should be compacted to at least 90 percent relative compaction.

Even with 6 inches of non-expansive soil (including aggregate base layer), exterior slabs may experience some cracking due to shrinking and swelling of the underlying expansive soil. Thickening the slab edges and adding additional reinforcement will control this cracking to some degree. Where slabs are adjacent to landscaped areas, thickening the concrete edge will help control water infiltration beneath the slabs. In addition, where slabs provide access to building, it would be prudent to dowel the entrance to the building to permit rotation of the slab as the exterior ground shrinks and swells and to prevent a vertical offset at the entries.

We do not recommend the use of pervious interlocking pavers at this site, due to the expansive nature of the subgrade soil. If pavers must be incorporated into this project, we should provide additional recommendations for proper subgrade preparation and subsurface drainage.

8.1.4 Utility Trench Backfill

All trenches should conform to the current CAL-OSHA requirements. To provide uniform support, pipes or conduits should be bedded on a minimum of four inches of sand or fine gravel. After the pipes and conduits are tested, inspected (if required) and approved, they should be covered to a depth of six inches with sand or fine gravel, which should be mechanically tamped. The pipe bedding and cover should be eliminated where an impermeable plug is required as described below.

Backfill for utility trenches and other excavations is also considered fill, and should be placed and compacted as according to the recommendations previously presented. If imported clean sand or gravel (defined as soil with less than 10 percent fines) is used as backfill, it should be compacted to at least 95 percent relative compaction. Jetting of trench backfill should not be permitted. Special care should be taken when backfilling utility trenches in pavement areas. Poor compaction may cause excessive settlements, resulting in damage to the pavement section.

Foundations for the proposed buildings should be bottomed below an imaginary line extending up at a 1.5:1 (horizontal to vertical) inclination from the base of utility trenches. Alternatively, the portion of the utility trench (excluding bedding) that is below the 1.5:1 line can be backfilled

with controlled low-strength material (CLSM) with a 28-day unconfined compressive strength of at least 100 pounds per square inch (psi).

Where utility trenches enter the at-grade building pad, an impermeable plug consisting of CLSM, at least three feet in length, should be installed where the trenches enter the building footprints. Furthermore, where sand- or gravel-backfilled trenches cross planter areas and pass below asphalt or concrete pavements, a similar plug should be placed at the edge of the pavement. The purpose of these recommendations is to reduce the potential for water to become trapped in trenches beneath the buildings or pavements. This trapped water can cause heaving of soils beneath slabs and softening of subgrade soil beneath pavements.

8.1.5 Site Drainage and Landscaping

Positive surface drainage should be provided around the buildings to direct surface water away from the foundations. To reduce the potential for water ponding adjacent to the buildings, we recommend the ground surface within a horizontal distance of five feet from the buildings slope down away from the buildings with a surface gradient of at least two percent in unpaved areas and one percent in paved areas. In addition, roof downspouts should be discharged into controlled drainage facilities to keep the water away from the foundations. The use of water-intensive landscaping around the perimeter of the buildings should be avoided to reduce the amount of water introduced into the expansive clay. Bioswales constructed at the site should be provided with underdrains and/or drain inlets because of the low permeability of the near-surface soil. Bioswales should constructed be no closer than five feet from the buildings.

Below-grade walls should be well drained in accordance with the recommendations presented in Section 8.5. Surface drainage from the hillside at the southwestern perimeter of the site must be collected and removed from the area in a controlled system upslope of the proposed basement wall and building pad. The basement wall drain system should not be relied upon for collecting and removing surface run-off from the hillside.

Prior experience and industry literature indicate that some species of high water-demand[8] trees can induce ground-surface settlement by drawing water from the expansive clay, causing it to shrink. Where these types of trees are planted near buildings, the ground-surface settlement may result in damage to structure. This problem usually occurs 10 or more years after planting, as the trees reach mature height. To reduce the risk of tree-induced, building settlement, we recommend trees of the following genera are not planted within 25 feet of the proposed buildings: *Eucalyptus, Populus, Quercus, Crataegus, Salix, Sorbus* (simple-leafed), *Ulmus, Cupressus, Chamaecyparis,* and *Cupressocyparis.* Because this is a limited list and does not include all genera that may induce ground-surface settlement, a tree specialist should be consulted prior to selection of trees to be planted at the site.

8.2 Foundation Design

Provided the estimated total and differential settlements presented in Section 7.1 are acceptable, the proposed below-grade parking garage may be supported on spread footings with concrete slabs-on-grade.

The below-grade parking garage may be supported on continuous and/or individual spread footings bearing on firm, undisturbed native soil and/or bedrock. Continuous footings should be at least 18 inches wide and isolated spread footings should be at least 24 inches wide. Footings should be founded at least 24 inches below the lowest adjacent soil subgrade. Perimeter footings for at-grade structures should be founded at least 30 inches below the lowest adjacent soil subgrade. The perimeter footing embedment depth for at-grade structures may be decreased by six inches where pavement, concrete flatwork, or an existing building is adjacent to the new building. Footings bearing on undisturbed soil may be designed using allowable bearing pressures of 4,000 pounds per square foot (psf) for dead-plus-live loads and 5,300 psf for total design loads, which include wind or seismic forces; these values include factors of safety of at least 2.0 and 1.5, respectively. Where garage footings will be founded on rock, allowable

[8] "Water-demand" refers to the ability of the tree to withdraw large amounts of water from the soil subgrade, rather than soil suction exerted by the root system.

bearing capacities of 6,000 psf and 8,000 psf may be used for dead-plus-live loads and for total design loads, respectively. Once the proposed footing locations and elevations have been determined, the area of rock bearing should be evaluated based on the boring and CPT data presented in Appendix A and the Site Plan, (Figure 2).

Lateral loads may be resisted by a combination of passive pressure on the vertical faces of the footings and friction between the bottoms of the footings and the supporting soil and/or bedrock. To compute passive resistance for sustained loading, we recommend using an equivalent fluid weight (triangular distribution) of 300 pounds per cubic foot (pcf). For transient loads, including wind and seismic, we recommend using an allowable passive pressure of 2,000 psf (uniform distribution). The upper foot of soil should be ignored unless confined by a slab or pavement. Frictional resistance should be computed using a base friction coefficient of 0.30 for soil and 0.35 for rock. The passive pressure and frictional resistance values include a factor of safety of at least 1.5 and may be used in combination without reduction.

Footing excavations should be free of standing water, debris, and disturbed materials prior to placing concrete. If footings are excavated during the rainy season, those bottomed in soil should incorporate a rat slab to protect the footing subgrade. This will involve over-excavating the footing by about 3 inches and placing lean concrete or sand-cement slurry in the bottom (following inspection by our engineer). A rat slab will help protect the footing subgrade during placement of reinforcing steel. Water can then be pumped from the excavations prior to placement of structural concrete, if present. The bottoms and sides of the footing excavations should be moistened following excavation and maintained in a moist condition until concrete is placed. If expansive foundation soil dries during construction, the footing will eventually heave, which may result in cracking and distress. We should check footing excavations prior to placement of reinforcing steel.

8.3 Garage Underslab Drainage System

The proposed below-grade parking garage should be underlain by a permanent underslab drainage system to prevent the build-up of hydrostatic pressures beneath the slab during the wet season. We recommend the permanent underslab drainage system consist of a series of 12-inch-wide trenches that are at least 12 inches deep and sloped to drain at an inclination of at least one percent to a sump. The trenches should be spaced at no more than 15 feet on center. The garage slab subgrade (between the trenches) should be excavated to provide room for at least six inches of Class 2 permeable material and should be sloped at an inclination of at least two percent toward the subdrain trenches. The Class 2 permeable material should meet the requirements of Caltrans Standard Specifications 68-1.025 most recent edition. The collection pipes should consist of four-inch-diameter, Schedule 40, perforated PVC pipe (perforations down). The pipes should be installed such that they are surrounded on all sides by at least four inches of permeable material and a filter sock should be installed around the pipe to prevent the finer particles of the Class 2 permeable material from entering the perforations. The pipes should drain at a gradient of at least one percent to the storm drain system (if feasible), or to at least one sump pit location in the garage level. Cleanouts should be provided to ensure the underslab drainage system can be cleared if it becomes clogged. The sump-and-pump system should be designed to discharge water directly to the storm drain system without allowing the water to build up beneath the slab-on-grade floor. It is critical that the sump pump(s) remain functioning during periods of elevated groundwater; therefore, back-up generators should be considered in the design of the sump-and-pump system, if used. In the event that water is allowed to build up beneath the slab, structural damage and flooding of the garage space may occur.

8.4 Concrete Slab-on-Grade Floor

Where water vapor transmission through the floor slabs is undesirable, we recommend installing a water vapor retarder beneath the floor slabs. A vapor retarder is generally not required beneath parking garage floor slabs because there is sufficient air circulation to allow evaporation of moisture that is transmitted through the slab; however, we recommend the vapor retarder be

installed below the at-grade commercial/retail building, the slab-on-grade in utility rooms, and any areas in or adjacent to the parking garage that will be used for storage and/or will receive a floor covering or coating.

A capillary moisture break consists of at least four inches of clean, free-draining gravel or crushed rock. The vapor retarder for the below-grade structure (if used) should meet the requirements for Class A and the vapor retarder for at-grade structures should meet the requirements for Class B vapor retarders stated in ASTM E1745. The vapor retarder should be placed in accordance with the requirements of ASTM E1643. These requirements include overlapping seams by six inches, taping seams, and sealing penetrations in the vapor retarder. *If required by the structural engineer*, the vapor retarder may be covered with two inches of sand to aid in curing the concrete and to protect the vapor retarder during slab construction. The sand overlying the vapor retarder should be moist at the time concrete is placed. However, excess water trapped in the sand could eventually be transmitted as vapor through the slab. Therefore, if rain is forecast prior to pouring the slab, the sand should be covered with plastic sheeting to avoid wetting. If the sand becomes wet, concrete should not be placed until the sand has been dried or replaced.

The particle size of the capillary break material and sand (if used) should meet the gradation requirements presented in Table 4.

TABLE 4
Gradation Requirements for Capillary Moisture Break

Sieve Size	Percentage Passing Sieve
Gravel or Crushed Rock	
1 inch	90 – 100
3/4 inch	30 – 100
1/2 inch	5 – 25
3/8 inch	0 – 6
Sand	
No. 4	100
No. 200	0 – 5

Concrete mixes with high water/cement (w/c) ratios result in excess water in the concrete, which increases the cure time and results in excessive vapor transmission through the slab. Therefore, concrete for the floor slabs should have a low w/c ratio - less than 0.50. If the concrete is poured directly over the vapor retarder (no sand layer), we recommend the w/c ratio of the concrete not exceed 0.45 and water not be added in the field. If necessary, workability should be increased by adding plasticizers. In addition, the slabs should be properly cured. Before floor coverings, if any, are placed, the contractor should check that the concrete surface and the moisture emission levels (if emission testing is required) meet the manufacturer's requirements.

8.5 Permanent Below-Grade Walls

Permanent below-grade walls should be designed to resist static lateral earth pressures, lateral pressures caused by earthquakes, traffic loads (if vehicular traffic is expected within 10 feet of the wall), and foundation loads from adjacent buildings. For preliminary planning, we recommend the permanent below-grade walls be designed for the more critical of the criteria:

- At-rest equivalent fluid weight of 60 pounds per cubic foot (pcf), or
- Active equivalent fluid weight of 37 pcf, plus a seismic equivalent fluid weight of 30 pcf.

We provided recommended lateral earth pressures for soil only, because at this time, it is uncertain how much of the proposed basement walls (if any) will retain rock. Although the proposed excavation will likely extend below the top of rock in many locations, we don't currently know how much of the excavation will be slope cut vs. shored. Where slope cuts are made, the wall will essentially be retaining backfilled soil. Once the excavation, shoring, and foundation plans have been further developed, we can provide more specific earth pressure recommendations, as needed, which may include reduced earth pressures in rock.

The recommended lateral earth pressures above are based on a level backfill condition with no additional surcharge loads from vehicles or adjacent building foundations. Where the below-grade wall is subject to vehicular loading within 10 feet of the wall, an additional uniform lateral pressure of 100 psf applied to the upper 10 feet of the wall. If the below-grade wall is within the zone of influence of adjacent building foundations, defined as a 1.5:1 (horizontal:vertical) plane extending downward from the bottom of footing, the wall should be designed for additional foundation surcharge pressures. Because the proposed at-grade retail/commercial building will be located immediately adjacent to the below-grade parking level of the podium structure, the foundations along their interface should either be deepened to avoid surcharge pressures on the basement wall, or the wall should be designed for the additional surcharge pressures from the adjacent footings. Once the foundation configuration/geometry and loading have been evaluated by the structural engineer, we can provide specific recommendations for design surcharge pressures on the basement wall.

The lateral earth pressures recommended above assume the retaining walls will be properly drained to prevent hydrostatic pressure build-up behind the walls. We recommend providing drainage behind the walls by constructing a minimum one-foot-wide column of Caltrans Class 2 Permeable drainage material between the retained soil/rock and the wall. The Class 2 permeable

material should extend down to a perforated PVC collector pipe located at the base of the wall. The pipe should be at least 6 inches in diameter, covered with a filter fabric sock, and surrounded on all sides by at least four inches of Class 2 permeable material. The pipe should be sloped at a minimum gradient of one percent to drain into a controlled system, such as a closed (non-perforated) discharge pipe. The pipe should be connected to a suitable discharge point; a sump-and-pump system may be required to drain the collector pipes for the below-grade parking area. We do not recommend connecting the wall drainage system into the underslab drainage system described in Sections 7.3 and 8.4 of this report. To protect against moisture migration into the below-grade parking level, we recommend that the below-grade walls be water-proofed and water stops be installed at all construction joints.

The purpose of the wall backdrain is to capture and remove subsurface water. Surface water, such as run-off from the hillside, pavements, and roof downspouts should not be directed into the wall drainage system and should be managed by a separate system. Accordingly, the Class 2 permeable material should extend up to about 12 inches below the ground surface and should be capped by compacted clay fill and/or concrete. In addition, we recommend a concrete v-ditch or bio-swale lined with an impermeable liner be constructed somewhere between the garage structure and the toe of the hillside to collect and remove surface run-off.

If backfill is required behind walls prior to construction of the podium slab, the walls should be braced to prevent unacceptable surcharges on walls (as determined by the structural engineer).

8.6 Excavation Shoring

The safety of workers and equipment in or near the excavation is the responsibility of the contractor. The selection, design, construction, and performance of the shoring system should be the responsibility of the contractor. A structural engineer knowledgeable in this type of construction should design the shoring. We should review the geotechnical aspects of the proposed shoring system to ensure that it meets our requirements. During construction, we

should observe the installation of the shoring system and check the condition of the soil encountered during excavation.

As discussed in Section 7.4, we conclude viable shoring systems for this project include cantilevered and tied-back soldier-pile-and-lagging systems, depending on the retained soil height and the feasibility of slope cutting portions of the excavation. Recommendations regarding the design and construction of both shoring types are presented below.

8.6.1 Cantilever Soldier Pile-and-Lagging Shoring System

We recommend a cantilevered soldier pile-and-lagging shoring system be designed to resist active equivalent fluid weights of 20 and 37 pcf in bedrock and soil, respectively. In locations where minimizing lateral deflections is critical, such as near adjacent buildings or near sensitive underground utilities, the shoring system should be designed to resist at-rest equivalent fluid weights of 35 and 60 pcf in bedrock and soil, respectively. Where traffic loads are expected within 10 feet of the shoring walls, an additional design load of 100 psf should be applied to the upper ten feet of the wall. Where construction equipment will be working behind the walls within a horizontal distance equal to the wall height, the design should include a surcharge pressure of 250 psf. The above pressures should be assumed to act over the entire width of the lagging installed above the excavation.

Passive resistance at the toe of the soldier piles should be computed using an equivalent fluid weight 300 pcf in soil and 400 pcf in rock with a maximum passive earth pressure of 3,500 psf. The upper foot of soil or bedrock should be ignored when computing passive resistance. Passive pressure can be assumed to act over an area of three soldier pile widths assuming the toe of the soldier pile is filled with structural concrete. The shoring designer should check that the specified minimum concrete strength is sufficient to spread the anticipated loads to three soldier pile widths. The passive pressure values include a factor of safety of at least 1.5.

Soldier piles should be placed in pre-drilled holes backfilled with concrete. Drilling the borehole for soldier piles will require equipment capable of penetration into bedrock. Where granular

layers are present below the groundwater, installing the soldier piles may require casing or use of drilling slurry to reduce caving of the holes. Installing soldier piles by driving or using vibratory methods are not feasible where the soldier piles must penetrate into bedrock.

8.6.2 Soldier Pile-and-Lagging Shoring System with Tiebacks

Recommended lateral pressures for the design of soldier pile and lagging shoring with tiebacks are presented on Figure 5. Where it is not feasible to install tiebacks, then a stiff cantilevered or internally braced system may be required. Internal bracing, if used, should be preloaded to limit movement of the shoring. Recommendations for passive resistance at the toe of the soldier pile and the installation of soldier piles and laggings are presented in the previous Section 8.6.1 and on Figure 5.

Design criteria for tiebacks are also presented on Figure 5. As shown, tiebacks should derive their load-bearing capacity from the soil behind an imaginary line sloping upward from a point H/5 feet away from the bottom of the excavation at an angle of 60 degrees from horizontal, where H is the wall height in feet. The minimum stressing lengths for strand and bar tendons should be 15 and 10 feet, respectively. The minimum bond length for strand and bar tendons should both be 15 feet.

Allowable capacities of the tiebacks will depend upon the material (soil or rock), the drilling method, hole diameter, grout pressure, and workmanship. Installation of tiebacks will also require equipment capable of penetration into bedrock.

The shoring designer and installer should be responsible for determining the actual length of tiebacks required to resist the design loads. The determination should be based on their familiarity with the installation method to be used and the local soil and rock conditions.

8.6.3 Tieback Testing

The computed bond length of tiebacks should be confirmed by a proof-testing program under the observation of our field engineer. All tiebacks should be confirmed by a proof-test to 1.25 times

the design load. The movement of each tieback should be monitored with a free-standing, tripod-mounted dial gauge during performance and proof testing. The bottom of excavation should not extend more than two feet below a row of unsecured tiebacks.

A proof test is a simple test used to measure the total movement of the tieback during one cycle of incremental loading. The maximum test load should be held for a minimum of 10 minutes, with readings taken at 0, 1, 2, 3, 6, and 10 minutes. If the difference between the 1- and 10-minute reading is less than 0.04 inch, the test is discontinued. If the difference is more than 0.04 inch, the holding period is extended by 50 minutes to 60 minutes, and the movements should be recorded at 15, 20, 25, 30, 45, and 60 minutes.

We should evaluate the tieback test results and determine whether the tiebacks are acceptable. A proof-tested tieback with a 10-minute hold is acceptable if the tieback carries the maximum test load with less than 0.04 inch movement between 1 and 10 minutes, and total movement at the maximum test load exceeds 80 percent of the theoretical elastic elongation of the unbonded length.

A proof-tested tieback with a 60-minute hold is acceptable if the tieback carries the maximum test load with less than 0.08 inch movement between 6 and 60 minutes, and total movement at the maximum test load exceeds 80 percent of the theoretical elastic elongation of the unbonded length. Tiebacks that failed to meet the first criterion will be assigned a reduced capacity.

8.6.4 Construction Monitoring

The contractor should establish survey points on the shoring and on the ground surface at critical locations behind the shoring prior to the start of excavation. These survey points should be used to monitor the vertical and horizontal movements of the shoring and the ground behind the shoring during construction.

During excavation, the shoring system may deform laterally, which could cause the ground surface adjacent to the shoring wall to settle. The magnitudes of shoring movements and the

resulting settlements are difficult to estimate because they depend on many factors, including the method of installation and the contractor's skill in the shoring installation. A monitoring program should be established to evaluate the effects of the construction on the adjacent properties.

8.7 Seismic Design

We understand the proposed buildings will be designed using the seismic provisions in the 2013 CBC. The eastern portion of the site is underlain by hard/dense native soil and deeply weathered bedrock to the maximum depth of 32 feet bgs. The southwest edge of the site is blanketed by about 4 to 7 feet of hard/dense native soil and underlain by deeply weathered bedrock that grades harder and less fractured with depth. We conclude Site Class B is appropriate for the southwest portion of the site and Site Class C is appropriate for the northeast portion of the site. However, considering the proposed building will likely have a fundamental period less than about 0.6 seconds, and the spectral ordinates for Site Class B and Site Class C are the same within this range, we recommend Site Class C be used for this project. The latitude and longitude of the site are 37.52597 and -122.28318, respectively. Hence, in accordance with the 2013 CBC, we recommend the following:

- Site Class C
- S_S = 1.878g, S_1 = 0.876g
- S_{MS} = 1.878g, S_{M1} = 1.139g
- S_{DS} = 1.252g, S_{D1} = 0.759g
- *Seismic Design Category E for Risk Categories I, II, and III.*

8.8 Soil Corrosivity

Laboratory testing was performed by Sunland Analytical to evaluate the corrosivity of the clay from Boring B-3 at a depth of 10 feet bgs. The corrosivity test results are presented in Appendix B of this report. Based on the results of the resistivity test performed on the sample, we conclude the soil is “moderately corrosive” to buried metal. Accordingly, all buried iron, steel, cast iron,

ductile iron, galvanized steel and dielectric-coated steel or iron should be protected against corrosion depending upon the critical nature of the structure. If it is necessary to have metal in contact with soil, a corrosion engineer should be consulted to provide recommendations for corrosion protection. The results indicate that sulfate ion concentrations are insufficient to damage reinforced concrete structures below ground, and the chloride concentration of the soil does not present a problem with reinforcing steel in buried concrete structures.

9.0 GEOTECHNICAL SERVICES DURING CONSTRUCTION

Prior to construction, Rockridge Geotechnical should review the project plans and specifications to verify that they conform to the intent of our recommendations. During construction, our field engineer should provide on-site observation and testing during site preparation, placement and compaction of fill, installation of foundations, and shoring installation. These observations will allow us to compare actual with anticipated soil conditions and to verify that the contractor's work conforms to the geotechnical aspects of the plans and specifications.

10.0 LIMITATIONS

This geotechnical study has been conducted in accordance with the standard of care commonly used as state-of-practice in the profession. No other warranties are either expressed or implied. The recommendations made in this report are based on the assumption that the subsurface conditions do not deviate appreciably from those disclosed in the exploratory borings and CPTs. If any variations or undesirable conditions are encountered during construction, we should be notified so that additional recommendations can be made. The foundation recommendations presented in this report are developed exclusively for the proposed development described in this report and are not valid for other locations and construction in the project vicinity.

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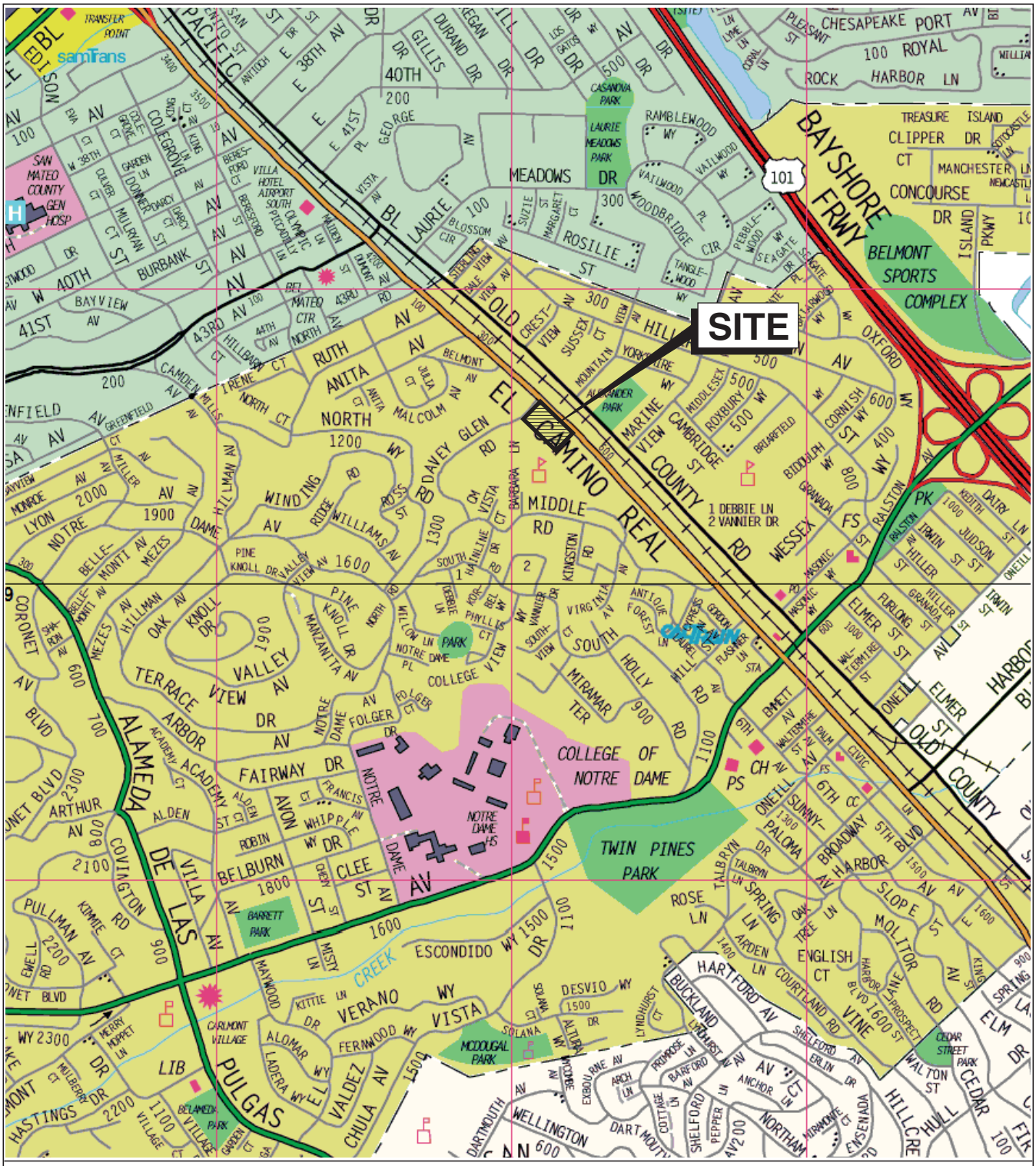
FIGURES



Base map: The Thomas Guide
San Mateo County

0 1/4 1/2 Mile

Approximate scale

400-490 EL CAMINO REAL
Belmont, California

ROCKRIDGE GEOTECHNICAL

SITE LOCATION MAP

Date 02/13/14	Project No. 14-635	Figure 1

Base map: Google Earth, 2014.

EXPLANATION

B-1 Approximate location of boring by Rockridge Geotechnical, Inc., December 9, 2014

DPT-1 Approximate location of cone penetration test by Rockridge Geotechnical, Inc., February 4, 2014

Approximate site boundary

0 80 Feet

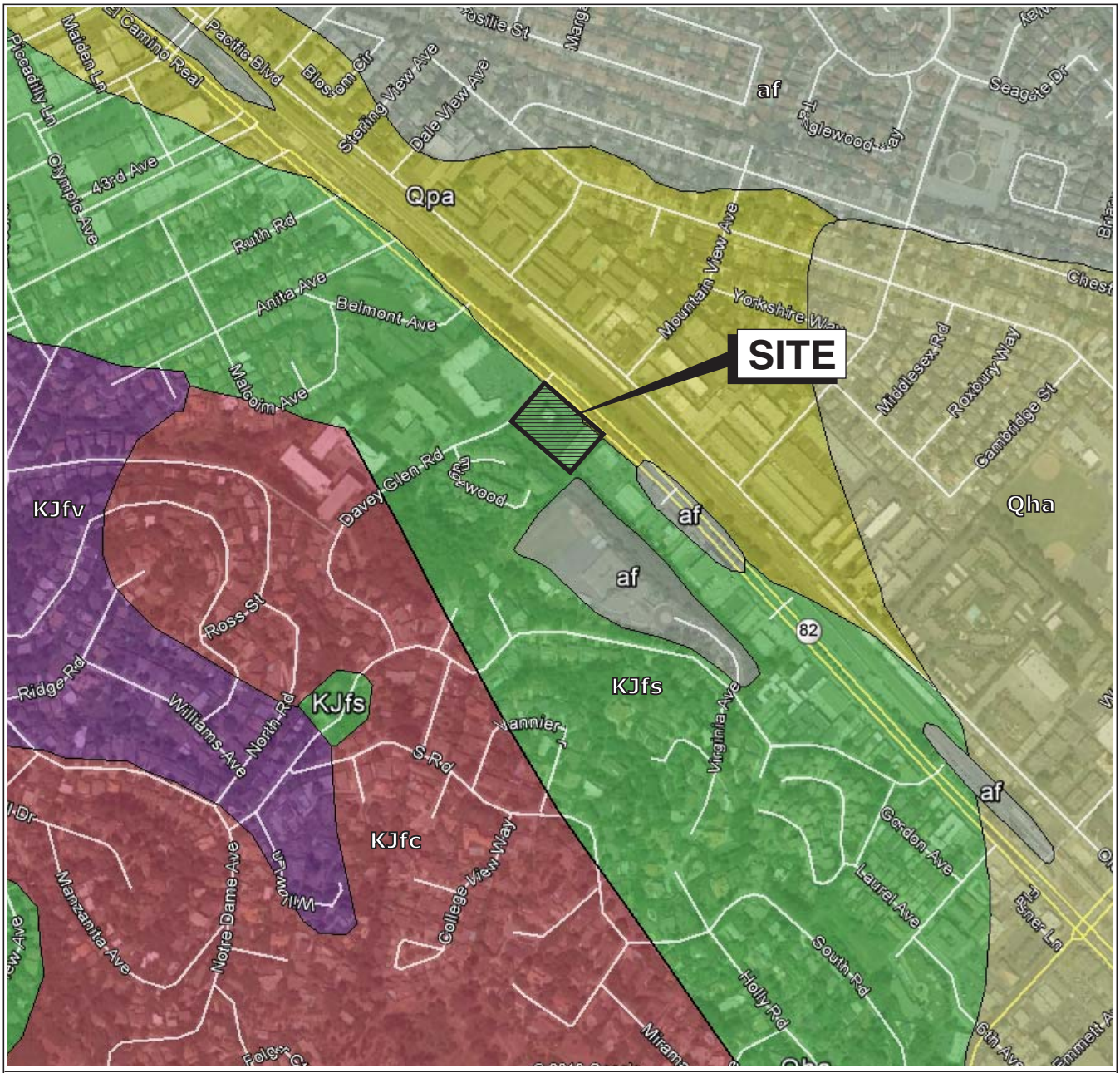
Approximate scale

400-490 EL CAMINO REAL
Belmont, California

ROCKRIDGE GEOTECHNICAL

SITE PLAN

Date 12/30/14	Project No. 14-635	Figure 2



Base map: Google Earth with U.S. Geological Survey (USGS), San Mateo County, 2013.

EXPLANATION

af	Artificial Fill
Qha	Alluvium (Holocene)
Qpa	Alluvium (Pleistocene)
KJfs	Franciscan Complex sedimentary rocks (Early Cretaceous and (or) Late Jurassic)
KJfc	Franciscan Complex chert (Early Cretaceous and (or) Late Jurassic)
KJfv	Franciscan Complex volcanic rocks (Early Cretaceous and (or) Late Jurassic)

Geologic contact: dashed where approximate and dotted where concealed, queried where uncertin

0 1500 3000 Feet

Approximate scale

400-490 EL CAMINO REAL
Belmont, California

ROCKRIDGE GEOTECHNICAL

REGIONAL GEOLOGIC MAP

Date 03/19/14	Project No. 14-635	Figure 3

Base Map: U.S. Geological Survey, National Seismic Hazards Maps - Fault Sources, 2008.

EXPLANATION

Strike slip

Thrust (Reverse)

Normal

N

0 5 10 Miles

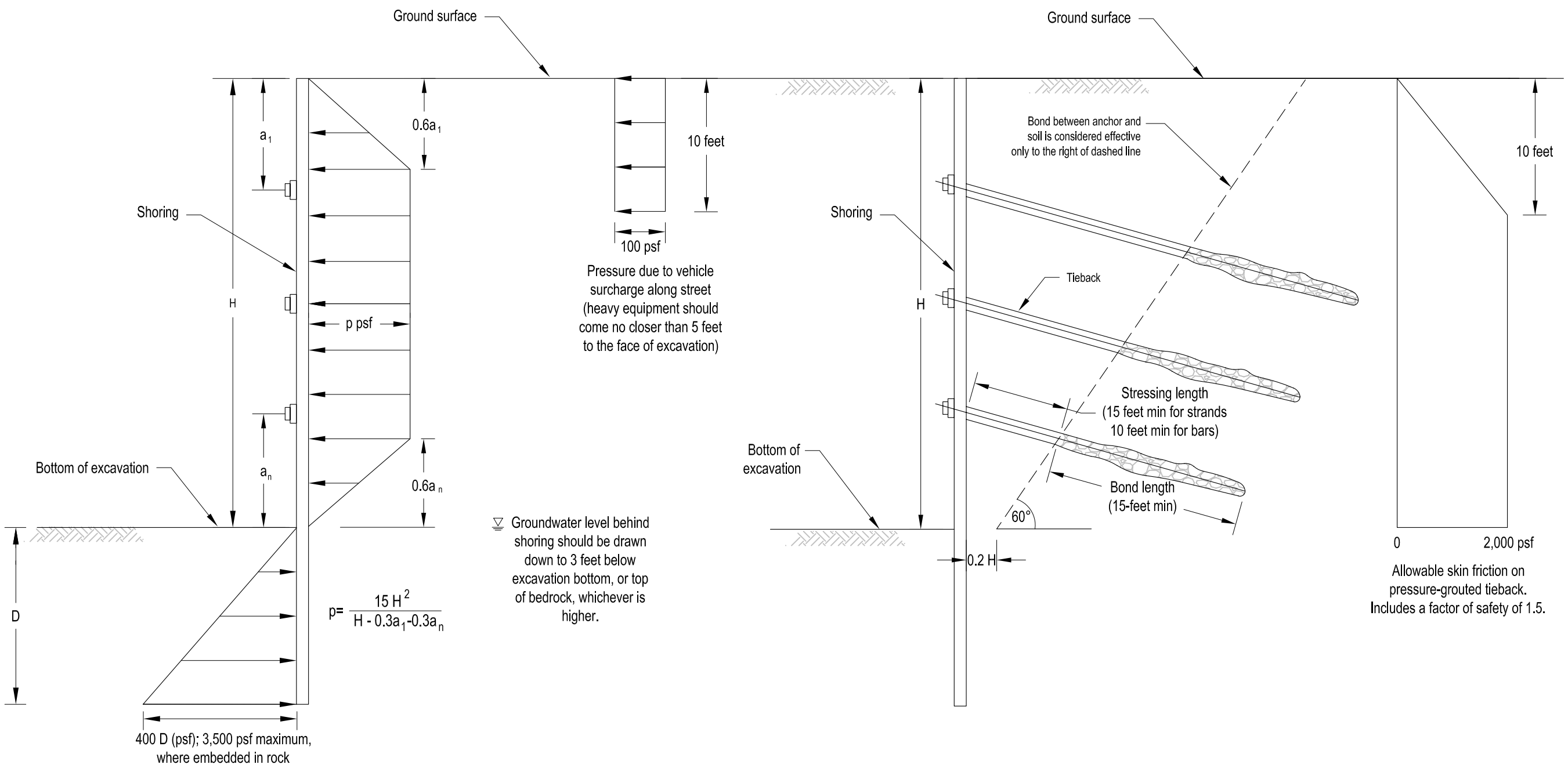
Approximate scale

400-490 EL CAMINO REAL
Belmont, California

ROCKRIDGE GEOTECHNICAL

REGIONAL FAULT MAP

Date 02/13/14	Project No. 14-635	Figure 4



NOT TO SCALE

Notes:
1. Passive pressures include a factor of safety of about 1.5.
2. For soldier piles spaced at more than three times the soldier pile diameter, the passive pressure should be assumed to act over three diameters.

400-490 EL CAMINO REAL
Belmont, California

DESIGN PARAMETERS FOR SOLDIER-PILE-AND-LAGGING TEMPORARY SHORING SYSTEM

Date 01/26/15	Project No. 14-635	Figure 5

ROCKRIDGE GEOTECHNICAL

APPENDIX A
Logs of Borings and Cone Penetration Test Results

PROJECT: **400-490 EL CAMINO REAL**
Belmont, California

Log Boring B-1/ MW-1

Boring location:	See Site Plan, Figure 2
Logged by:	P. Wildvine
Date started:	12/9/14
Date finished:	12/9/14
Drilling method:	Hollow Stem Auger
Hammer weight/drop:	140 lbs./30 inches
Hammer type:	Downhole Wireline
Sampler:	Sprague & Henwood (S&H), Standard Penetration Test (SPT)

DEPTH (feet)	SAMPLES: Sampler Type	SAMPLES: Sample	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
1				CL	SANDY CLAY (CL) yellow brown, hard, moist						
2											
3	S&H		56								
4											
5	S&H		41								
6	S&H		35/6"		SANDSTONE yellow-brown, low hardness, friable to weak, deeply weathered						
7											
8											
9											
10	SPT		60/ 5.5"								
11											
12											
13	SPT		60/3"								
14											
15											
16											
17											
18											
19											
20											
21											
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23											
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25											
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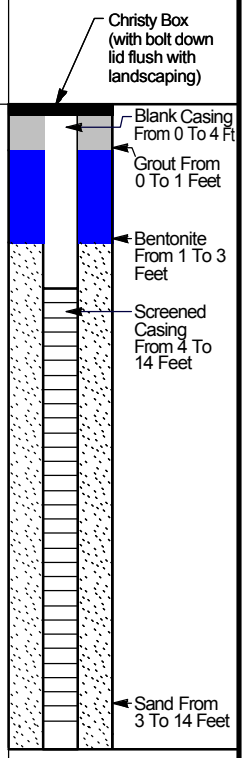
27											
28											
29											
30											

Monitoring Well Completion Detail



Boring terminated at a depth of 14 feet below ground surface.
Boring backfilled with cement grout.
Groundwater not encountered during drilling.

[1] S&H and SPT blow counts for the last two increments were converted to SPT N-Values using factors of 0.7 and 1.2, respectively to account for sampler type and hammer energy, and the fact that the SPT Sampler was used without liners.

ROCKRIDGE GEOTECHNICAL

Project No.:	Figure:
14-635	A-1

PROJECT: **400-490 EL CAMINO REAL**
Belmont, California

Log of Boring B-2

Boring location: See Site Plan, Figure 2
Logged by: P. Wildvine
Date started: 12/9/14
Date finished: 12/9/14
Drilling method: Hollow Stem Auger
Hammer weight/drop: 140 lbs./30 inches
Hammer type: Downhole Wireline
Sampler: Sprague & Henwood (S&H), Standard Penetration Test (SPT)

DEPTH (feet)	SAMPLES: Sampler Type	Sample	Blows/ 6"	SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						1-3/4 inches Asphalt Concrete (AC)						
1						2 inches Aggregate Base (AB)						
						CLAY with SAND (CL)						
2						red-gray, very stiff, moist						
3	S&H		9 13 21	24		LL = 46, PI = 30, see Figure B-1					14.8	117
4					CL							
5	S&H		13 19 20	27		with gravel						
6												
7	S&H		23 27 25	36		hard, increase in sand and gravel content						
8	S&H		24 50/3"	35/3"		SANDSTONE						
9						olive-gray, low hardness, friable to weak, deeply weathered						
10	S&H		50/3"	35/3"								
11												
12												
13												
14												
15	SPT		50/4"	60/4"		olive-brown						
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												

Boring terminated at a depth of 15.5 feet below ground surface.
Boring backfilled with cement grout.
Groundwater not encountered during drilling.

[1] S&H and SPT blow counts for the last two increments were converted to SPT N-Values using factors of 0.7 and 1.2, respectively to account for sampler type and hammer energy, and the fact that the SPT Sampler was used without liners.

ROCKRIDGE GEOTECHNICAL

Project No.: 14-635
Figure: A-2

PROJECT: **400-490 EL CAMINO REAL**
Belmont, California

Log of Boring B-3

Boring location: See Site Plan, Figure 2
Logged by: P. Wildvine
Date started: 12/9/14 | Date finished: 12/9/14
Drilling method: Hollow Stem Auger
Hammer weight/drop: 140 lbs./30 inches | Hammer type: Downhole Wireline
Sampler: Sprague & Henwood (S&H), Standard Penetration Test (SPT)

DEPTH (feet)	Sampler Type	Sample	Blows/ 6"	SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						2 inches Asphalt Concrete (AC)						
						4-6 inches Aggregate Base (AB)						
1–2						SANDY CLAY with GRAVEL (CL) red-gray, very stiff, moist						
3	S&H	■	10 14 15	20	CL						13.0	116
4–5	S&H	■	9 10 15	18		decrease in gravel content						
6–7	S&H	■	11 11 12	16	CH	CLAY with SAND (CH) red-gray, very stiff, moist						
8–9	S&H	■	13 26 40	46		CLAYEY SAND (SC) red-gray, dense, moist						
10–11	S&H	■	17 31 50/5"	57/ 11"		with trace gravel, yellow-brown, very dense Grain Size Distribution, see Figure B-2				39	13.3	121
12–14					SC							
15–16	S&H	■	29 50/ 5.5"	35/ 5.5"								
17–19												
20–21	S&H	■	24 50/ 4.5"	35/ 4.5"		SANDY CLAY (CL) yellow-brown, hard, moist					14.4	122
22–24												
25–26	S&H	■	50/6"	35/6"	CL							
27–30												

LABORATORY TEST DATA

ROCKRIDGE GEOTECHNICAL

Project No.: 14-635 | Figure: A-3a

PROJECT: **400-490 EL CAMINO REAL**
Belmont, California

Log of Boring B-3

DEPTH (feet)	SAMPLES: Sampler Type	Sample	Blows/ 6"	SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
	SPT		50/3"	60/3"		SANDSTONE olive-gray, low hardness, friable to weak, deeply weathered						
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
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54												
55												
56												
57												
58												
59												
60												

Boring terminated at a depth of 30.5 feet below ground surface.
Boring backfilled with cement grout.
Groundwater not encountered during drilling.

[1] S&H and SPT blow counts for the last two increments were converted to SPT N-Values using factors of 0.7 and 1.2, respectively to account for sampler type and hammer energy, and the fact that the SPT Sampler was used without liners.

ROCKRIDGE GEOTECHNICAL

Project No.: 14-635
Figure: A-3b

PROJECT: **400-490 EL CAMINO REAL**
Belmont, California

Log of Boring B-4

Boring location: See Site Plan, Figure 2
Logged by: P. Wildvine
Date started: 12/9/14
Date finished: 12/9/14
Drilling method: Hollow Stem Auger
Hammer weight/drop: 140 lbs./30 inches
Hammer type: Downhole Wireline
Sampler: Sprague & Henwood (S&H), Standard Penetration Test (SPT)

LABORATORY TEST DATA

DEPTH (feet)	SAMPLES: Sampler Type	SAMPLES: Sample	SAMPLES: Blows/ 6"	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						3 inches Asphalt Concrete (AC)						
						4 inches Aggregate Base (AB)						
1					CL	SANDY CLAY (CL) red-gray, hard, moist						
2	S&H		24 50/6"	35/6"								
3					SC	CLAYEY SAND with GRAVEL (SC) red-gray, very dense, moist						
4	S&H		50/6"	35/6"		SANDSTONE yellow-brown, low hardness, friable to weak, deeply weathered						
5												
6												
7						1-1/2 minutes drilling time between 4 and 10 feet						
8												
9												
10	SPT		50/ 2.5"	60/ 2.5"								
11												
12						2 minutes drilling time between 10 and 15 feet						
13												
14												
15	SPT		15 50/5"	60/5"								
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												

Boring terminated at a depth of 16 feet below ground surface.
Boring backfilled with cement grout.
Groundwater not encountered during drilling.

[1] S&H and SPT blow counts for the last two increments were converted to SPT N-Values using factors of 0.7 and 1.2, respectively to account for sampler type and hammer energy, and the fact that the SPT Sampler was used without liners.

ROCKRIDGE GEOTECHNICAL

Project No.: 14-635
Figure: A-4

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size	**Gravels** (More than half of coarse fraction > no. 4 sieve size)	**GW**	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	**SW**	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	**Silts and Clays** LL = < 50	**ML**	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	**MH**	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		**PT**	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel	3" to No. 4	76.2 to 4.76
coarse	3" to 3/4"	76.2 to 19.1
fine	3/4" to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.075
coarse	No. 4 to No. 10	4.76 to 2.00
medium	No. 10 to No. 40	2.00 to 0.420
fine	No. 40 to No. 200	0.420 to 0.075
Silt and Clay	Below No. 200	Below 0.075

Unstabilized groundwater level

Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test sampler

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample

Analytical laboratory sample

Sample taken with Direct Push sampler

Sonic

SAMPLER TYPE

C Core barrel

CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter

D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube

O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter

SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter

ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

400-490 EL CAMINO REAL
Belmont, California

ROCKRIDGE GEOTECHNICAL

CLASSIFICATION CHART

Date 12/14/14 | Project No. 14-635 | Figure A-5

I FRACTURING

Intensity	Size of Pieces in Feet
Very little fractured	Greater than 4.0
Occasionally fractured	1.0 to 4.0
Moderately fractured	0.5 to 1.0
Closely fractured	0.1 to 0.5
Intensely fractured	0.05 to 0.1
Crushed	Less than 0.05

II HARDNESS

1. **Soft** - reserved for plastic material alone.
2. **Low hardness** - can be gouged deeply or carved easily with a knife blade.
3. **Moderately hard** - can be readily scratched by a knife blade; scratch leaves a heavy trace of dust and is readily visible after the powder has been blown away.
4. **Hard** - can be scratched with difficulty; scratch produced a little powder and is often faintly visible.
5. **Very hard** - cannot be scratched with knife blade; leaves a metallic streak.

III STRENGTH

1. **Plastic** or very low strength.
2. **Friable** - crumbles easily by rubbing with fingers.
3. **Weak** - an unfractured specimen of such material will crumble under light hammer blows.
4. **Moderately strong** - specimen will withstand a few heavy hammer blows before breaking.
5. **Strong** - specimen will withstand a few heavy ringing hammer blows and will yield with difficulty only dust and small flying fragments.
6. **Very strong** - specimen will resist heavy ringing hammer blows and will yield with difficulty only dust and small flying fragments.

IV WEATHERING - The physical and chemical disintegration and decomposition of rocks and minerals by natural processes such as oxidation, reduction, hydration, solution, carbonation, and freezing and thawing.

D. Deep - moderate to complete mineral decomposition; extensive disintegration; deep and thorough discoloration; many fractures, all extensively coated or filled with oxides, carbonates and/or clay or silt.

M. Moderate - slight change or partial decomposition of minerals; little disintegration; cementation little to unaffected. Moderate to occasionally intense discoloration. Moderately coated fractures.

L. Little - no megascopic decomposition of minerals; little of no effect on normal cementation. Slight and intermittent, or localized discoloration. Few stains on fracture surfaces.

F. Fresh - unaffected by weathering agents. No disintegration of discoloration. Fractures usually less numerous than joints.

ADDITIONAL COMMENTS:

V CONSOLIDATION OF SEDIMENTARY ROCKS: usually determined from unweathered samples. Largely dependent on cementation.

U = unconsolidated
P = poorly consolidated
M = moderately consolidated
W = well consolidated

VI BEDDING OF SEDIMENTARY ROCKS

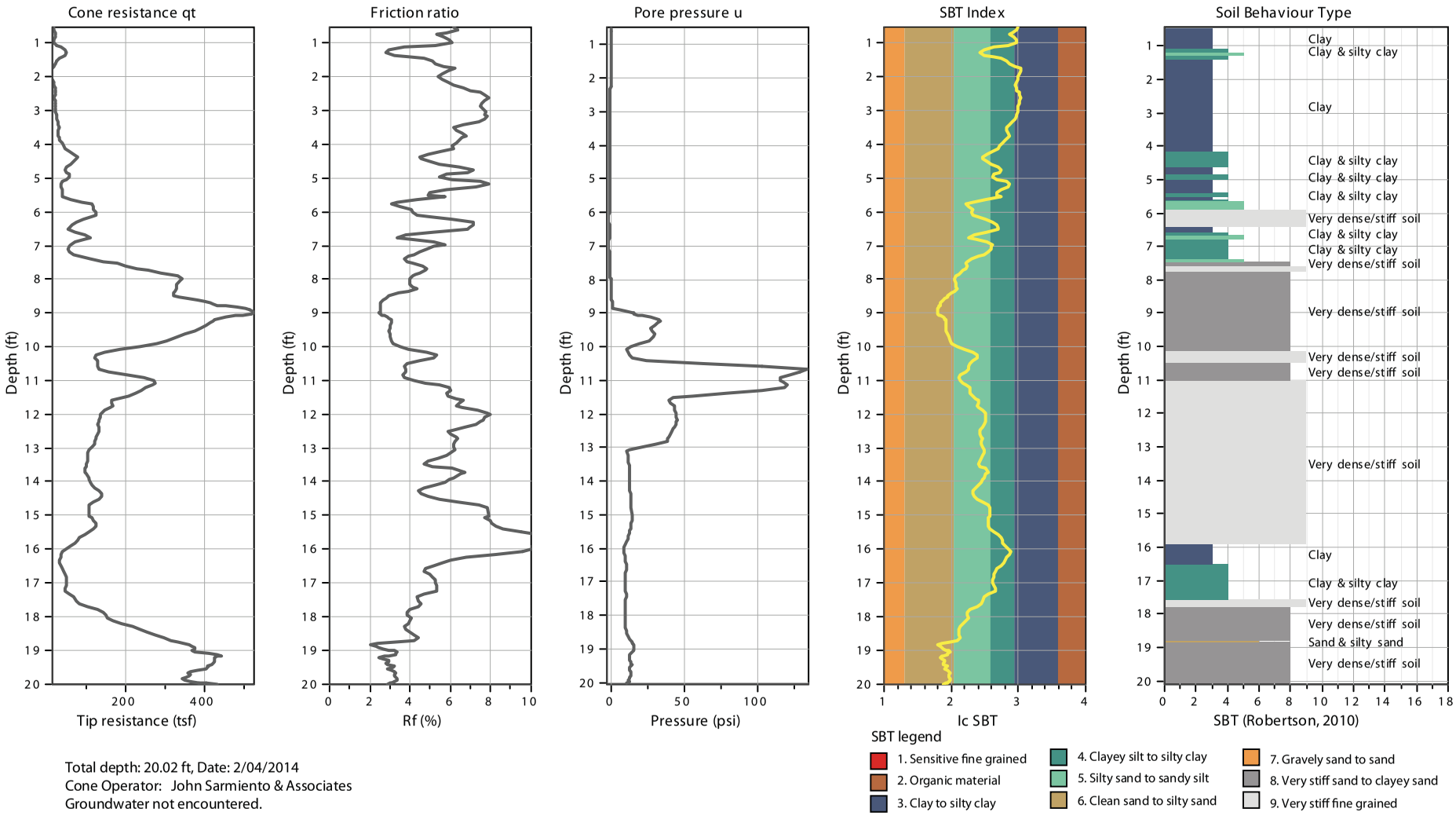
Splitting Property	Thickness	Stratification
Massive	Greater than 4.0 ft.	very thick-bedded
Blocky	2.0 to 4.0 ft.	thick bedded
Slabby	0.2 to 2.0 ft.	thin bedded
Flaggy	0.05 to 0.2 ft.	very thin-bedded
Shaly or platy	0.01 to 0.05 ft.	laminated
Papery	less than 0.01	thinly laminated

400-490 EL CAMINO REAL
Belmont, California

ROCKRIDGE GEOTECHNICAL

PHYSICAL PROPERTIES CRITERIA FOR ROCK DESCRIPTIONS

Date 12/16/14	Project No. 14-635	Figure A-6



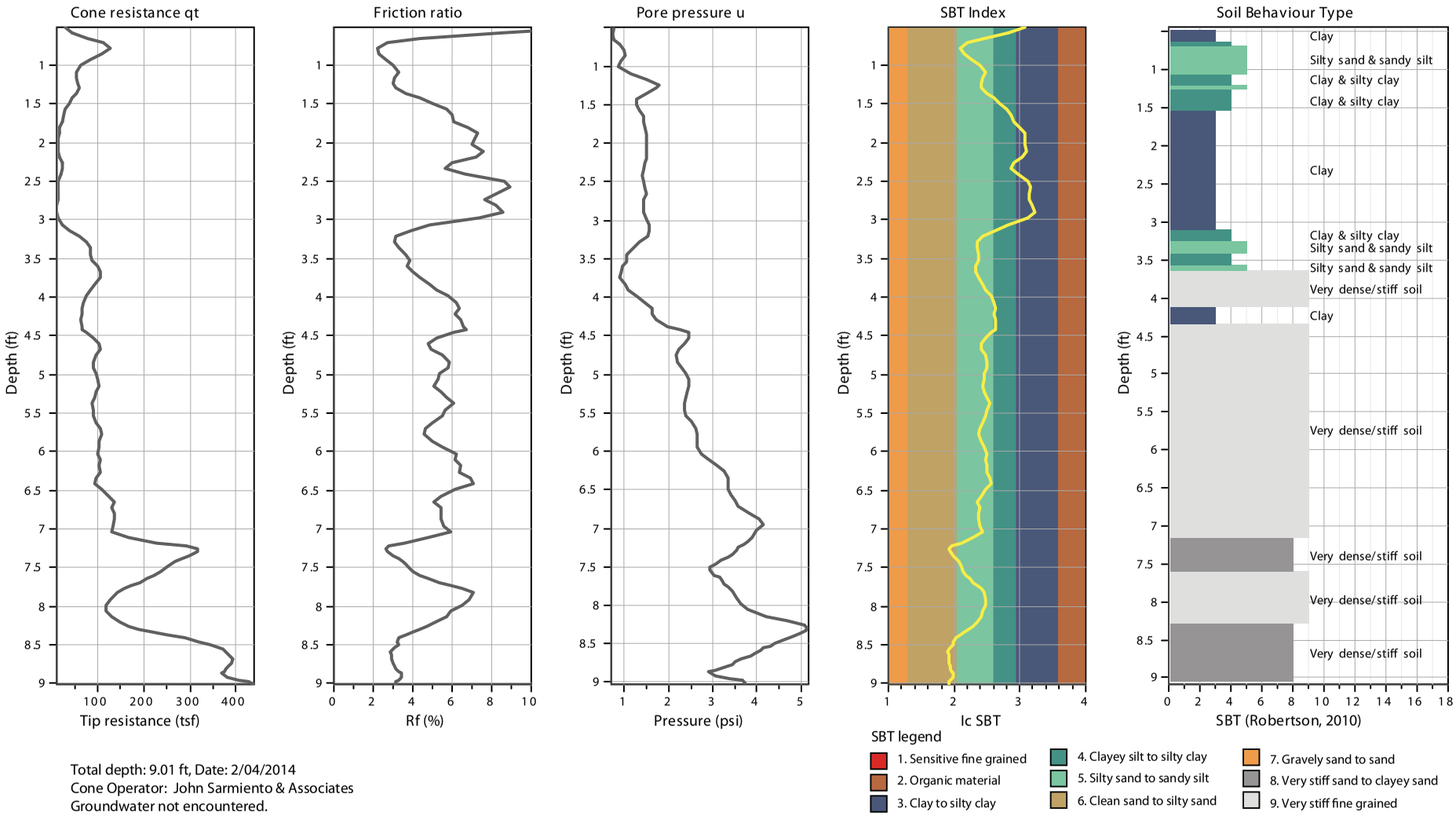
Total depth: 20.02 ft, Date: 2/04/2014
Cone Operator: John Sarmiento & Associates
Groundwater not encountered.

400-490 EL CAMINO REAL
Belmont, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-1

Date 12/30/14	Project No. 14-635	Figure A-7



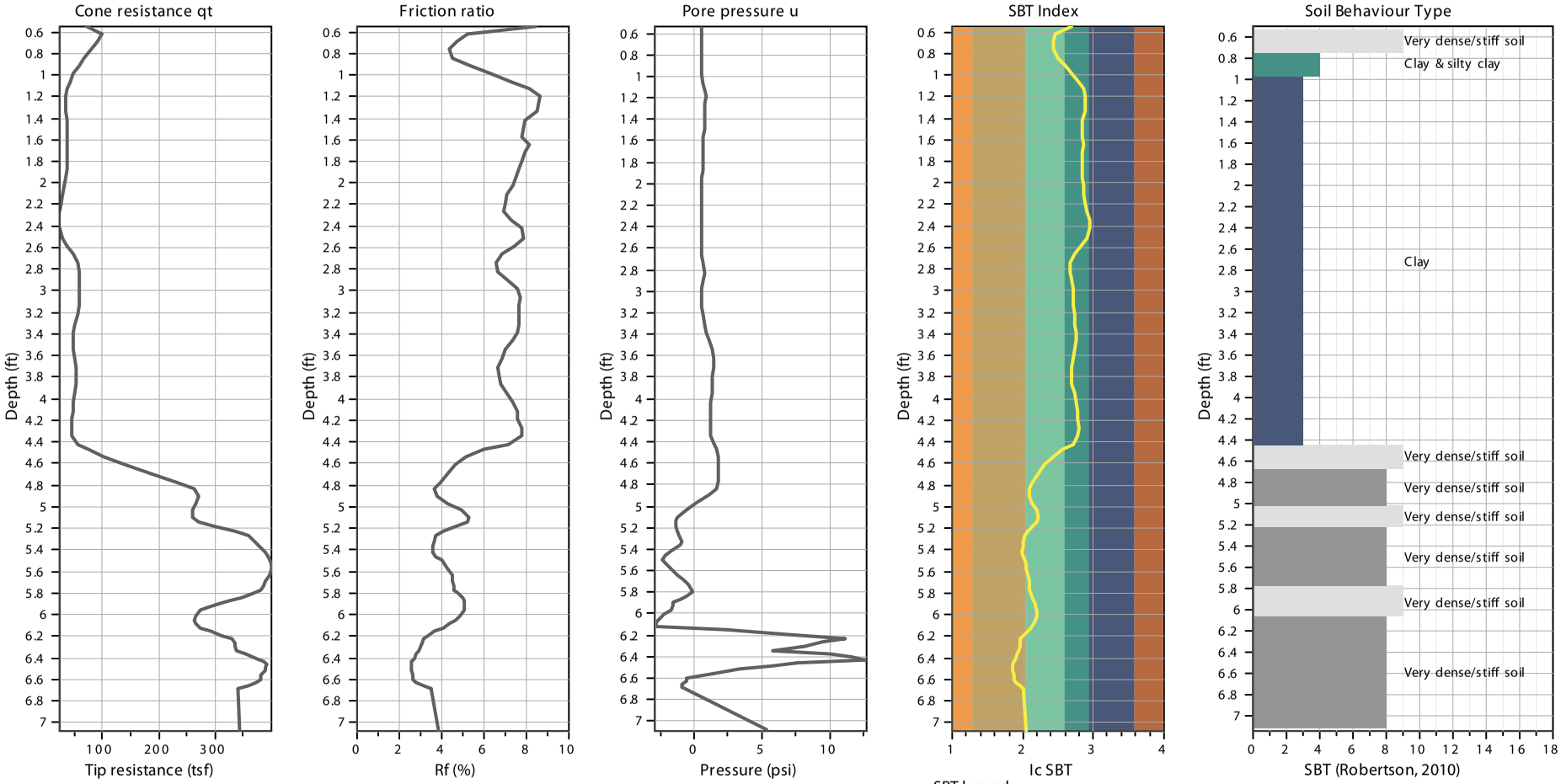
Total depth: 9.01 ft, Date: 2/04/2014
Cone Operator: John Sarmiento & Associates
Groundwater not encountered.

400-490 EL CAMINO REAL
Belmont, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-2

Date 12/30/14	Project No. 14-635	Figure A-8



Total depth: 7.08 ft, Date: 2/04/2014
Cone Operator: John Sarmiento & Associates
Groundwater not encountered.

SBT legend

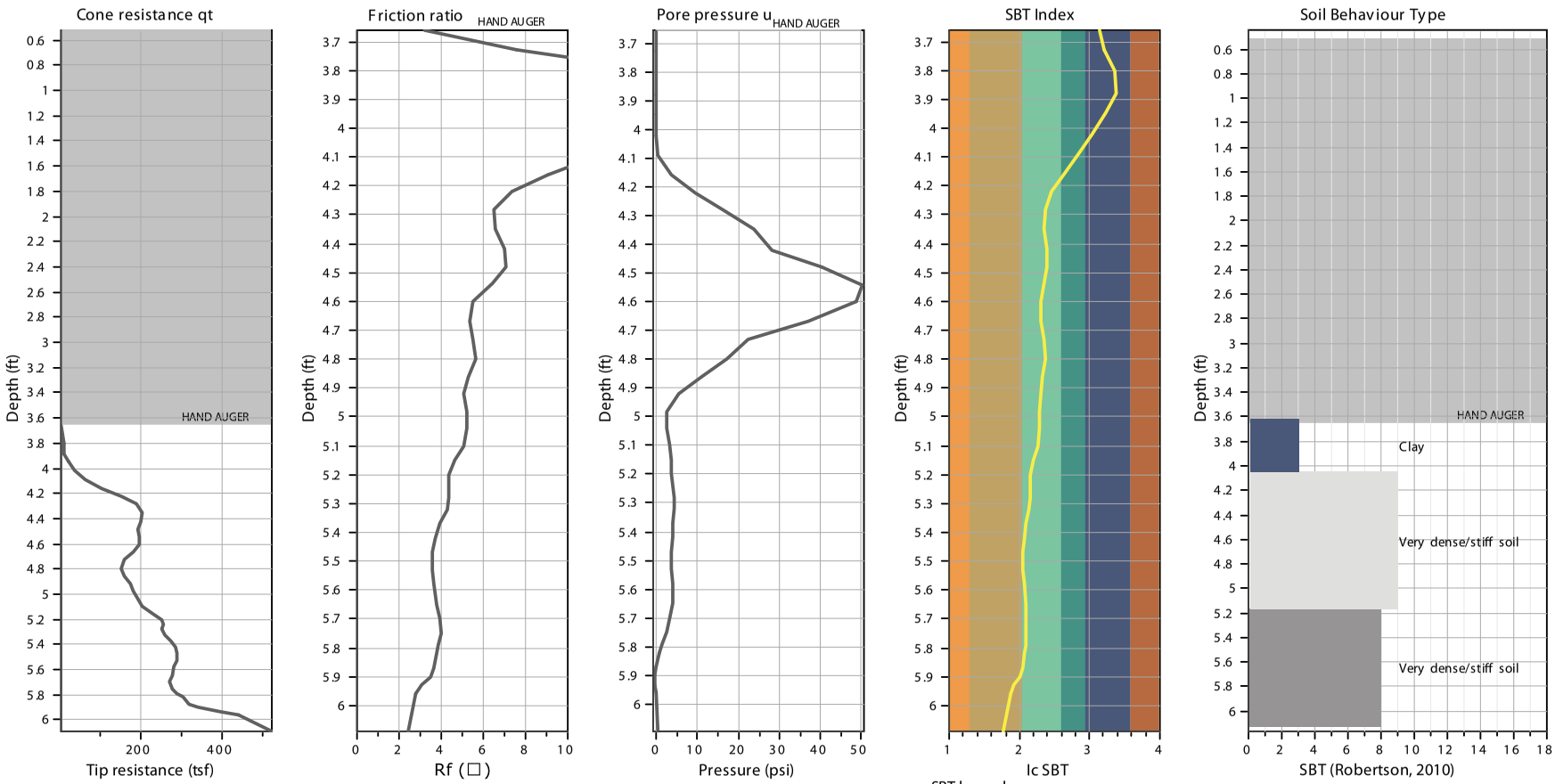
1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

400-490 EL CAMINO REAL
Belmont, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-3

Date 12/30/14	Project No. 14-635	Figure A-9



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

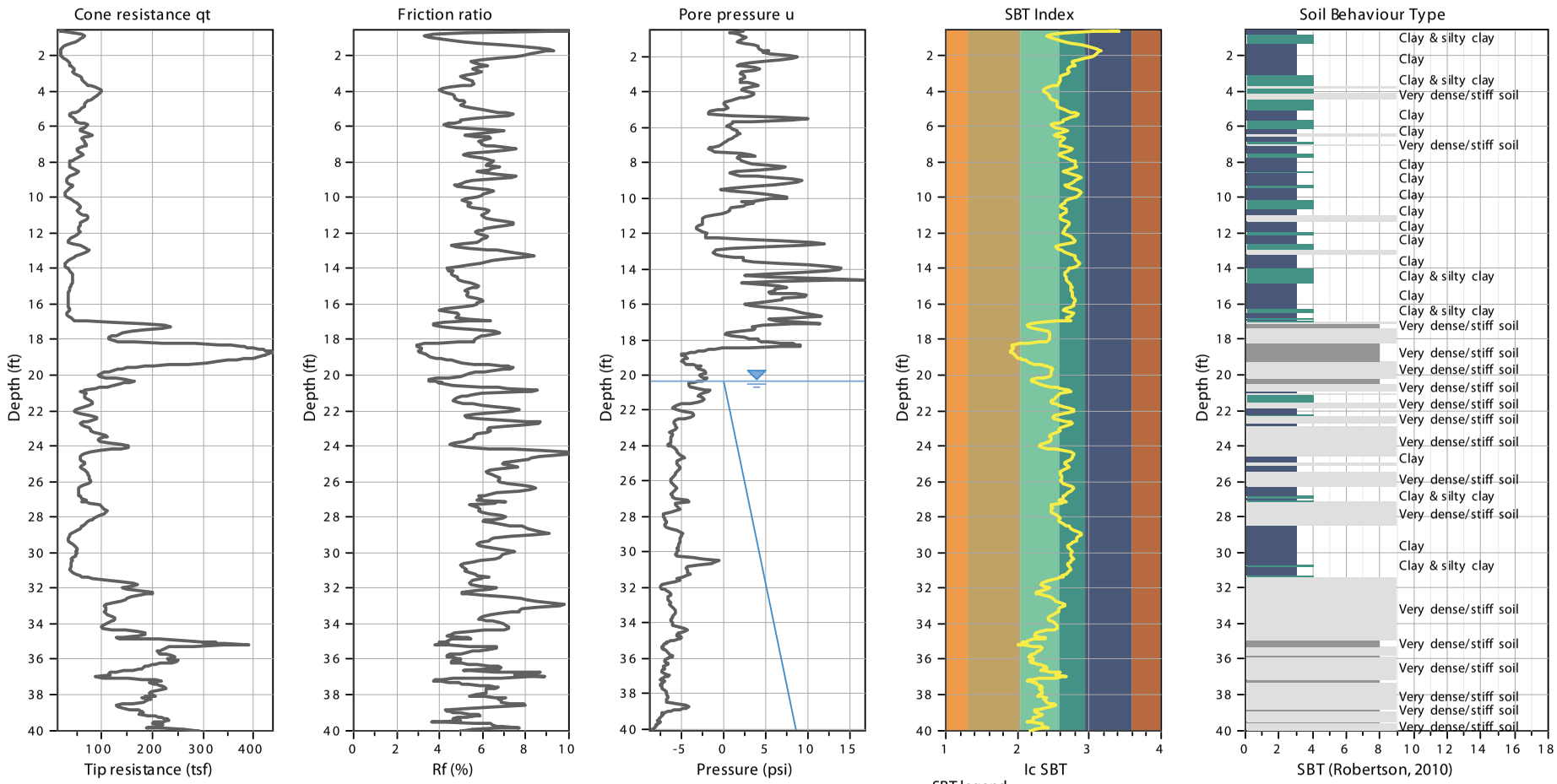
Total depth: 6.09 ft, Date: 2/04/2014
Cone Operator: John Sarmiento & Associates
Groundwater not encountered.

400-490 EL CAMINO REAL
Belmont, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-4

Date 12/30/14	Project No. 14-635	Figure A-10



SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty clay
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to clayey sand
9. Very stiff fine grained

Total depth: 40.04 ft, Date: 2/04/2014
Cone Operator: John Sarmiento & Associates
Groundwater encountered at 20.2 feet bgs.

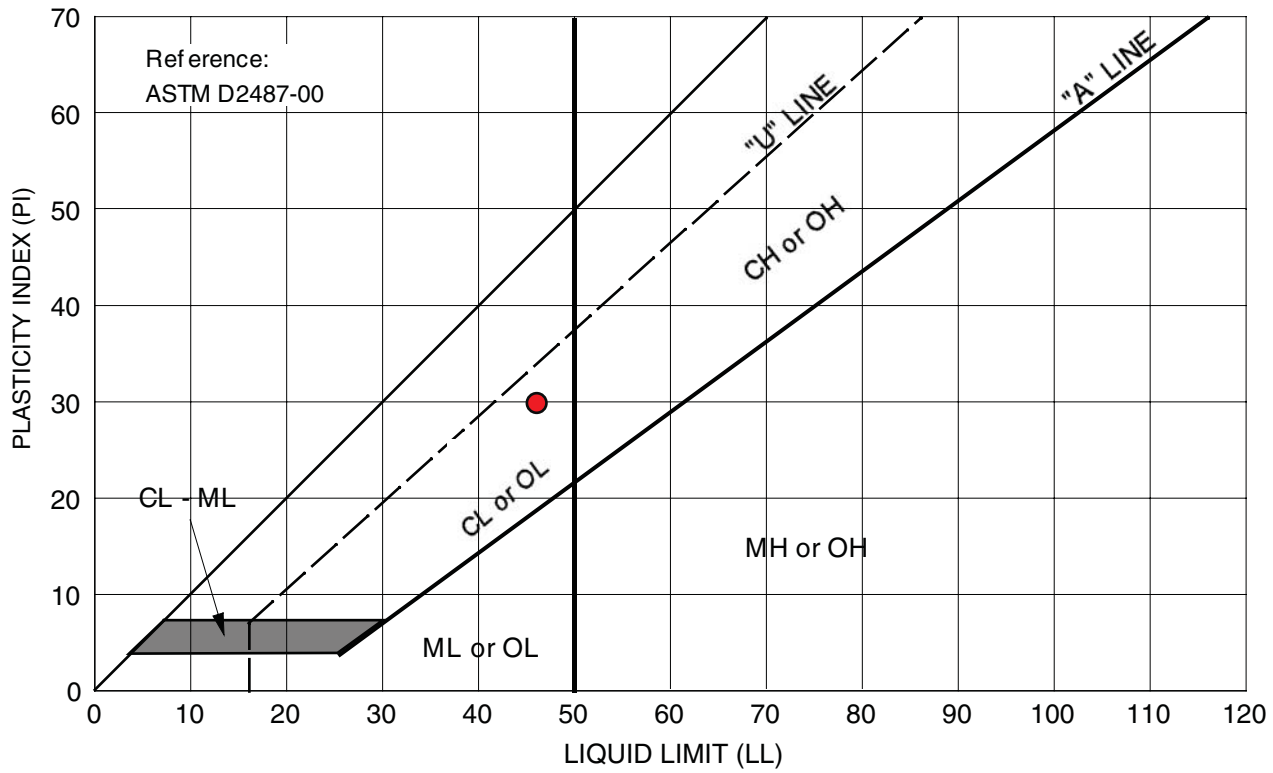
400-490 EL CAMINO REAL
Belmont, California

ROCKRIDGE GEOTECHNICAL

CONE PENETRATION TEST RESULTS
CPT-5

Date 12/30/14	Project No. 14-635	Figure A-11

APPENDIX B
Laboratory Test Results



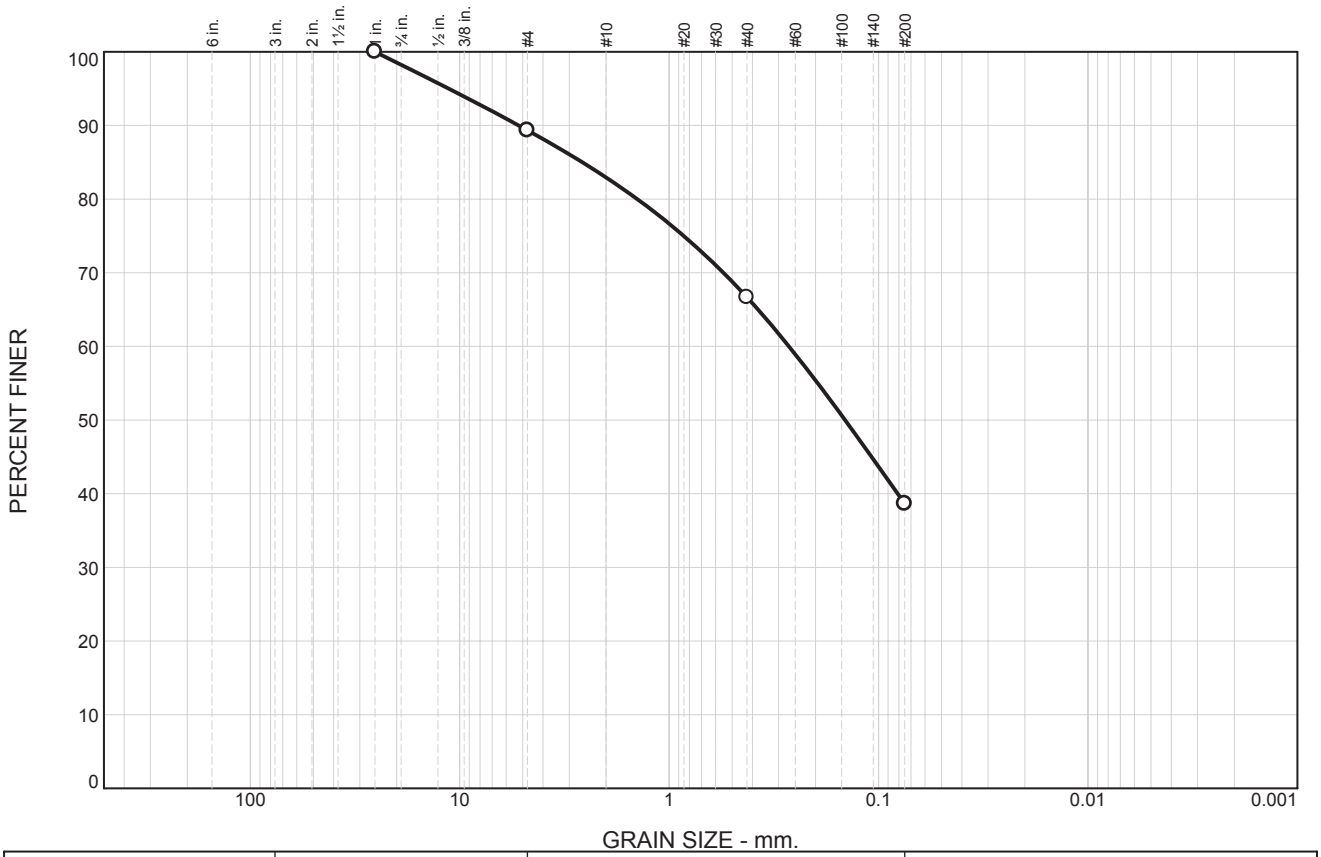
Symbol	Source	Description and Classification	Natural M.C. (%)	Liquid Limit (%)	Plasticity Index (%)	% Passing #200 Sieve
●	B-2 at 3.0 feet	CLAY with SAND (CL), red-gray	14.8	46	30	--

400-490 EL CAMINO REAL
Belmont, California

ROCKRIDGE GEOTECHNICAL

PLASTICITY CHART

Date 12/30/14	Project No. 14-635	Figure B-1



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
	1.8	8.9	6.4	16.2	28.0	38.7 (Total)	

MATERIAL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	USCS
○	B-3	9	10.5'	CLAYEY SAND (SC), yellow-brown	SC

400-490 EL CAMINO REAL
Belmont, California

ROCKRIDGE GEOTECHNICAL

PARTICLE SIZE DISTRIBUTION REPORT

Date 01/26/15	Project No. 14-635	Figure B-2

Sunland Analytical
11419 Sunrise Gold Circle, #10
Rancho Cordova, CA 95742
(916) 852-8557

Date Reported 12/19/2014
Date Submitted 12/15/2014

To: Tessa Williams
Rockridge Geotechnical, Inc.
270 Grand Ave
Oakland, CA 94610

From: Gene Oliphant, Ph.D. \ Randy Horney
General Manager \ Lab Manager

The reported analysis was requested for the following location:
Location : 14-635-CAMINO REAL Site ID : B-3-10 @ 11 FT.
Thank you for your business.

* For future reference to this analysis please use SUN # 68491-142299.

EVALUATION FOR SOIL CORROSION

Soil pH	6.83		
Moisture	11.2 %		
Minimum Resistivity	1.45 ohm-cm (x1000)		
Chloride	36.3 ppm	0.00363	%
Sulfate	31.5 ppm	0.00315	%
Redox Potential	(+) 300 mv		

Sulfate Reducing Bacteria Presence - NEGATIVE

METHODS
pH and Min.Resistivity CA DOT Test #643 Mod.(Sm.Cell)
Sulfate CA DOT Test #417, Chloride CA DOT Test #422
Redox Potential ASTM D1498m, Sulfate Reducing Bacteria AWWA C105-72

Sunland Analytical
11419 Sunrise Gold Circle, #10
Rancho Cordova, CA 95742
(916) 852-8557

Date Reported 12/19/2014
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The reported analysis was requested for the following:
Location : 14-635-CAMINO REAL Site ID : B-3-10 @ 11 FT.
Thank you for your business.

* For future reference to this analysis please use SUN # 68491-142299.

Extractable Sulfide Analysis

TYPE OF TEST	RESULTS	UNITS
Sulfide	ND	mg/kg

DETECTION LIMITS
Sulfide 0.05

Method 9031m, ND = Below Detection Limits

D. GREENHOUSE GAS EMISSIONS

Illingworth & Rodkin, Inc. 2015. *490 El Camino Real—Davey Glen Project in Belmont, CA—Preliminary Screening for Toxic Air Contaminants and GHG.* January 28, 2015.

ILLINGWORTH & RODKIN, INC.
Acoustics • Air Quality

505 Petaluma Boulevard South
Petaluma, California 94952

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www.illingworthrodkin.com *illro@illingworthrodkin.com*

January 28, 2015

Jeff A. Smith
Vice President, Development
Sares Regis Group of Northern California
901 Mariners Island Blvd. #700
San Mateo, CA. 94404

VIA E-Mail: Jeff Smith JSmith@srgnc.com

SUBJECT: 490 El Camino Real – Davey Glen Project in Belmont, CA -- Preliminary Screening for Toxic Air Contaminants and GHG

Dear Jeff:

Illingworth & Rodkin, Inc. conducted a review of the air quality, toxic air contaminant (TAC) and greenhouse gas (GHG) issues associated with proposed residential development that Sares Regis is considering in Belmont, CA. We understand that residential development is being considered at 490 El Camino Real, on a 1.85-acre site that is bounded to the east-northeast by El Camino Real and by Davey Glen Road to the north-northwest. There is a residential development to the west and Central Elementary School and commercial buildings to the south. The project currently considers 73 residential units and 5,000 square feet of retail uses fronting El Camino Real. Our understanding of the site layout is based on the Conceptual Site Plan, dated August 11, 2014. We assume there is the potential for residential development immediately adjacent to El Camino Real.

One purpose of this letter is to identify potential sources of TACs that could adversely affect residential development at this site and identify the significance of those effects. Screening tools developed by the Bay Area Air Quality Management District (BAAQMD) were used to provide preliminary estimates of TAC exposure from any nearby sources. Of concern are emissions of TACs, particularly diesel particulate matter (DPM), and fine particulate matter ($PM_{2.5}$) from nearby roadway and stationary sources of air pollution. DPM is a TAC due to its potential to cause cancer. In addition, a preliminary analysis of GHG emissions is presented to indicate whether or not there would be significant CEQA issues associated with GHG emissions from the project.

BAAQMD Significance Thresholds

In June 2010, BAAQMD adopted thresholds of significance to assist in the review of projects under CEQA. These Thresholds were designed to establish the level at which BAAQMD believed air pollution emissions would cause significant environmental impacts under CEQA

and were posted on BAAQMD's website and included in the Air District's updated CEQA Guidelines (updated May 2011). The significance thresholds identified by BAAQMD and used in this analysis are summarized in Table 1.

BAAQMD's adoption of significance thresholds contained in the 2011 CEQA Air Quality Guidelines was called into question by an order issued March 5, 2012, in California Building Industry Association (CBIA) v. BAAQMD (Alameda Superior Court Case No. RGI0548693). The order requires BAAQMD to set aside its approval of the thresholds until it has conducted environmental review under CEQA. The ruling made in the case concerned the environmental impacts of adopting the thresholds and how the thresholds would indirectly affect land use development patterns. In August 2013, the Appellate Court struck down the lower court's order to set aside the thresholds. However, this litigation remains pending as the California Supreme Court recently accepted a portion of CBIA's petition to review the appellate court's decision to uphold BAAQMD's adoption of the thresholds. The specific portion of the argument to be considered is in regard to whether CEQA requires consideration of the effects of the environment on a project (as contrasted to the effects of a proposed project on the environment). Therefore, the significance thresholds contained in the 2011 CEQA Air Quality Guidelines are applied to this project.

Table 1. Air Quality Significance Thresholds

Pollutant	Construction Thresholds	Operational Thresholds	
	Average Daily Emissions (lbs./day)	Average Daily Emissions (lbs./day)	Annual Average Emissions (tons/year)
Criteria Air Pollutants			
ROG, NOx, $PM_{2.5}$ (exhaust)	54	54	10
NO_x	54	54	10
PM_{10} (exhaust)	82	82	15
CO	Not Applicable	9.0 ppm (8-hr) or 20.0 ppm (1-hr average)	
Fugitive Dust (PM_{10}, $PM_{2.5}$)	Best Management Practices	Not Applicable	
Health Risks and Hazards for Sources within 1,000 feet of Project			
Excess Cancer Risk	10 per one million		
Chronic or Acute Effects	1.0 Hazard Index		
Incremental $PM_{2.5}$	0.3 $\mu g/m^3$ annual average		
Health Risks and Hazards for Sensitive Receptors (Cumulative from all sources within 1,000 foot zone of influence) and Cumulative Thresholds for New Sources			
Excess Cancer Risk	100 per one million		
Chronic Hazard Index	10.0		
Annual Average $PM_{2.5}$	0.8 $\mu g/m^3$		
Greenhouse Gas Emissions			
GHG Annual Emissions	1,100 metric tons or 4.6 metric tons per capita		

Note: ROG = reactive organic gases, NOx = nitrogen oxides, PM_{10} = course particulate matter or particulates with an aerodynamic diameter of 10 micrometers (µm) or less, $PM_{2.5}$ = fine particulate matter or particulates with an aerodynamic diameter of 2.5µm or less; and GHG = greenhouse gas.

TAC Impacts

Community health risk assessments typically look at all substantial sources of TACs located within 1,000 feet of project sites. These sources include State highways, busy surface streets, rail lines, and stationary sources identified by BAAQMD. A review of BAAQMD's Google Earth map tools, used to identify highway and stationary sources along with screening risk and hazard impacts, identified El Camino Real (Highway 82) and one stationary source near the project site. Not contained in the BAAQMD tools is the CalTrain rail line that is about 170 feet from the project site. This line includes diesel-powered locomotive trains.

Roadway Community Risk Impacts

The BAAQMD *Highway Screening Analysis Tool*, a Google Earth map tool, is used to identify estimated risk and hazard impacts from highways throughout the Bay Area[1]. Screening level TAC impacts are provided for each State highway in each county for discrete distances from 10 feet to 1,000 feet. The ground level community risk impacts associated with various distances from El Camino Real (Highway 82) are provided in Table 1, based on the BAAQMD *Highway Screening Analysis Tool* for a ground level elevation (El Camino Real, Link 124, 6-foot elevation).

As indicated in Table 1, development of the project site with ground-floor sensitive receptors that are within 50 feet of the edge of the nearest El Camino Real travel lane could pose potentially significant cancer risk to future residents that need to be analyzed using refined modeling methods. Exposures further away would not have significant effects.

Table 1 Roadway Community Risk Levels

Distance from Near Lane	Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Chronic Hazard Index	Acute Hazard Index
El Camino Real				
25 ft West	**12.619**	0.193	0.017	0.03
50 ft West	9.682	0.148	0.013	0.025
75 ft West	7.953	0.122	0.011	0.023
BAAQMD Single Source Threshold	*10.0*	*0.3*	*1.0*	*1.0*

Note: Bold values indicate potentially significant exposures.

Refined Roadway Community Risk Impacts – W. El Camino Real

Since the project plans indicate residential uses within 50 feet of El Camino Real traffic lanes, a refined modeling analysis of the excess cancer risk was conducted. In the vicinity of the project area W. El Camino Real has 32,000 average daily trips (ADT), as reported by Caltrans.[2] A review of the traffic information reported by Caltrans indicates that W. El Camino Real traffic

[1] Available at http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx (accessed 8/15/2014)

2 California Department of Transportation. 2014. *2013 Traffic Volumes on the California State Highway System*.

includes 1.3 percent trucks, of which 0.3 percent are considered heavy duty trucks and 1.0 percent are medium duty trucks.[3]

This analysis involved the prediction of DPM, organic TACs, and $PM_{2.5}$ emissions for traffic on W. El Camino Real using the CARB EMFAC2011 emission factor model and the traffic mix developed from Caltrans data. EMFAC2011 is the most recent version of the CARB motor vehicle emission factor model. DPM emissions are projected to decrease in the future and are reflected in the EMFAC2011 emissions data. Emission factors were developed for the year 2020 to conservatively represent all years of exposure using the calculated mix of cars and trucks on W. El Camino Real. Default EMFAC2011 vehicle model years for Santa Clara County were assumed for 2020. Average hourly traffic distributions for Santa Clara County roadways were developed using the EMFAC model,[4] which were then applied to the average daily traffic volume in the project area to obtain estimated hourly traffic volumes and emissions for W. El Camino Real traffic near the project site. Traffic volumes were assumed to increase by about 1-percent per year. An average travel speed of 30 mph (5 miles below the posted speed limit) was assumed for all hours. Use of 2020 emissions as being representative of conditions in 2018, 2019 and the future is a conservative assumption since overall vehicle emissions, and in particular diesel truck emissions will decrease in the future.

Emissions of total organic gases (TOG) were also calculated for 2020 using the EMFAC2011 model. These TOG emissions were then used in the modeling the organic TACs. TOG emissions from both exhaust and from running evaporative loses from gasoline vehicles were calculated using EMFAC2011 with default model values for Santa Clara County along with the traffic volumes and vehicle mixes for W. El Camino Real. The emission rates used in the analysis are shown in *Attachment 1*.

Dispersion modeling of DPM and $PM_{2.5}$ emissions was conducted using the CAL3QHCR model, which is recommended by the BAAQMD for this type of analysis. A five-year data set (2001 through 2005) of hourly meteorological data for the San Carlos Airport obtained from the BAAQMD was used in the modeling. Other inputs to the model included road geometry, hourly traffic volumes, emission factors, and receptor locations. North and south bound traffic on W. El Camino within about 1,000 feet of the project site were evaluated with the model. The modeling used a grid of receptors with receptors spaced every 5 meters (16.4 feet) within the proposed residential area of the project site. Since the project residences would be on the ground floor and higher levels, receptor heights of 1.5 meters (4.9 feet) and 4.5 meters (14.8 feet) were used to represent breathing heights for residences on the ground floor and upper levels, respectively. Figure 1 shows the roadway links and residential receptor locations used in the modeling.

Using the modeled long-term average DPM and TOG concentrations, the individual cancer risks were computed using the most recent methods recommended by BAAQMD.[5] The factors used to compute cancer risk are highly dependent on modeled concentrations, exposure period or duration, and the type of receptor. The exposure level is determined by the modeled

3 California Department of Transportation. 2014. *2013 Annual Average Daily Truck on the California State Highway System*

4 The Burden output from EMFAC2007, CARB's previous version of the EMFAC model, was used for this since the current web-based version of EMFAC2011 does not include Burden type output with hour by hour traffic volume information.

5 BAAQMD, 2010. *Air Toxics NSR Program Health Risk Screening Analysis (HSRA) Guidelines*. January.

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. BAAQMD 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 BAAQMD recommended Age Sensitivity Factors to the cancer risks for residential exposures, accounting for age sensitivity to toxic air contaminants. Age-sensitivity factors reflect the greater sensitivity of infants and children to cancer causing TACs. The cancer risk calculations were based on applying the BAAQMD recommended 70 year average age-sensitivity factor of 1.7 to the TAC concentrations based on 2020 emissions.

The maximum increased cancer risk was computed as 2.2 in one million. This was modeled at a ground level receptor in the northern area of the project closest to W. El Camino Real, and is shown on Figure 1. Cancer risks at other locations and at higher floor levels would be lower than the maximum risk. Details of the modeling and cancer risk calculations are shown in *Attachment 1*. The maximum increased cancer risk is below the BAAQMD's threshold of 10 in one million excess cancer cases per million. *Therefore, this impact would be considered less than significant and no mitigation would be required.*

BAAQMD-Permitted Stationary Sources

BAAQMD's *Stationary Source Screening Analysis Tool* was used to identify stationary sources that may affect future residential development at the site. This is a Google Earth map tool used to identify BAAQMD permitted stationary sources. The linked database includes the associated estimated cancer risk and hazard impacts predicted by BAAQMD. Table 2 lists the sources and associated community risk levels for all sources identified within 1,000 feet of the site.

Table 2 Stationary Source Community Risk Levels

Source	**Cancer Risk (per million)**	**Annual $PM_{2.5}$ ($\mu g/m^3$)**	**Acute or Chronic Hazard Index**
Plant 4862 - Summit Auto Body Painting, 320 Old Country Road	0.57	0.0	0.01
BAAQMD Single Source Threshold	*10.0*	*0.3*	*1.0*

Note: Plants 7835, 11280, 13058, and 1245 not listed since published community risk levels were 0.0 or lower for each category.

Railroad Community Risk Impacts

The project site is located near the Caltrain rail line, and rail activity currently generates TAC and $PM_{2.5}$ emissions from locomotive exhaust. Current plans indicate the project site is 170 feet or further from the Caltrain line. The Peninsula Corridor Electrification Project is a key component of the Caltrain Modernization program that would electrify the Caltrain Corridor from San Francisco to San Jose. Under this program diesel-locomotive hauled trains would be converted to Electric Multiple Unit or EMU trains by 2020.

This rail line is used for passenger and freight service by trains using diesel fueled locomotives. Due to the proximity of the rail line to the proposed project, potential health risks to future residents at the proposed project from DPM emissions from diesel locomotive engines were evaluated. Currently all of Caltrain's trains use diesel locomotives. As part of the program to modernize operation of the Caltrain rail corridor between San Jose and San Francisco Caltrain is planning to switch from diesel locomotives to use of electric trains in the near future.[6] Nearly all of the trains in the future are planned to be electric multiple unit (EMU) trains, which are self-propelled electric rail vehicles that can accelerate and decelerate at faster rates than diesel power trains, even with longer trains. This plan was formally adopted on January 8, 2015 and electrified service is anticipated to begin in 2020 or 2021[7]. However, two scenarios were evaluated: (1) diesel-powered freight trains and transition of Caltrain to electrified trains by 2020 and (2) continued use by diesel-powered freight trains and diesel-powered passenger trains. Residential occupancy was assumed to begin in 2018. Based on the current Caltrain schedule, there are 92 trains passing the project site during the weekdays, 32 trains during the weekend, and 4 trains that only run on Saturday. In addition to the Caltrain trains, there are about 4 freight trains that also use this rail line on a daily basis.[8]

Trains for the Caltrain system are planned to be electrified in the near future. This would eliminate DPM emissions from these trains. Caltrain plans that in 2020 service between San Jose and San Francisco would use a mixed fleet of EMUs and diesel locomotives, with approximately 75% of the service being electric and 25% being diesel. In 2020, some peak service trains would be diesel on weekdays. All other service, including off-peak periods, would be EMU-based. Off-peak periods include early morning, midday, and after 7:00 a.m. After 2020, diesel locomotives would be replaced with EMUs over time as they reach the end of their service life. Caltrain's diesel-powered locomotives would continue to be used to provide service between the San Jose Diridon Station and Gilroy. It is expected that 100 percent of the San Jose to San Francisco fleet would be EMUs by 2026 to 2029.[9]

For the Caltrain electrification scenario (Scenario 1) it was assumed that during 2018 and 2019 all trains would use diesel locomotives. During 2020 through 2024 there would be 19 daily trips, on an annual average basis, using diesel locomotives and that from 2025 on there would be two annual average daily trips with diesel locomotives. All trains used for freight service were assumed to use diesel powered locomotives. For Scenario 2 all Caltrain trains and freight trains were assumed to use diesel locomotives during the entire evaluation period.

DPM and $PM_{2.5}$ emissions from trains on the rail line were calculated using EPA emission factors for locomotives[10] and CARB adjustment factors to account for fuels used in California[11]. Caltrain's current locomotive fleet consists of twenty-three 3,200 horsepower (hp) locomotives

[6] Caltrain, 2014. *Peninsula Corridor Electrification Project. Final Environmental Impact Report*. December 2014.

[7] See (accessed on Jan. 28, 2015) http://www.caltrain.com/about/news/Caltrain_Board_Certifies_Final_Environmental_Impact_Report_and_Approves_Peninsula_Corridor_Electrification_Project.html

[8] *Bay Area Regional Rail Plan, Technical Memorandum 4a, Conditions, Configuration & Traffic on Existing System*, Metropolitan Transportation Commission, November 15, 2006.

[9] Ibid

[10] *Emission Factors for Locomotives*, USEPA 2009 (EPA-420-F-09-025)

[11] *Offroad Modeling, Change Technical Memo*, Changes to the Locomotive Inventory, CARB July 2006.

of model year or overhaul date of 1999 or earlier and six 3,600 hp locomotives of model year 2003.[12] The current fleet average locomotive engine size is about 3,285 hp. In estimating diesel locomotive emissions for the case of electrification, the diesel locomotives that would still be operating were conservatively assumed to be the newer locomotives with the 3,600 hp engines. In estimating emissions for the case of continued use of all diesel locomotives, the fleet average locomotive engine size of 3,285 hp was used. Each passenger train was assumed to use one locomotive and would be operating at 60% engine load and traveling at an average speed of 40 mph in the vicinity of the project site. Emissions from the freight trains were calculated assuming they would use two locomotives with 2,300 hp engines (total of 4,600 hp) and would be traveling at about 40 mph with the engines operating at about 60% load. Since the exposure duration used in calculating cancer risks is 70 years (in this case the period from 2018 through 2087), the Caltrain and freight train average DPM emissions were calculated based on EPA emission factors for the periods 2018-2019, 2020-2024, and 2025-2040, with the average emissions for 2025-2040 assumed to be representative of years 2025 through 2088. Details of the emission calculations are contained in *Attachment 1*

Modeling of locomotive emissions was conducted using the EPA's ISCST3 dispersion model and five year (2001-2005) of hourly meteorological data from the San Carlos Airport obtained from the BAAQMD. Locomotive emissions from train travel within about 1,000 feet of the project site were modeled as a line source comprised of a series of volume sources. Concentrations were calculated at receptor locations within the project site where residences would be located at a receptor heights of 1.5 meters and 4.5 meters, as previously described for the modeling of W. El Camino Real traffic. Figure 1 shows the railroad line used for the modeling and the receptors where concentrations were calculated. The maximum modeled long-term DPM and $PM_{2.5}$ concentrations occurred at the ground level project receptors closest to the rail lines near the northern boundary of the project site. *Attachment 1* includes details on the assumptions used with the modeling and the DPM and $PM_{2.5}$ emission rates used.

Maximum excess cancer risk was calculated from the maximum modeled long-term average DPM concentrations using the same methodology employed for the W. El Camino Real traffic emissions. The maximum increased cancer risk was computed as 2.3 in one million with electrification of Caltrain. If Caltrain is not electrified and diesel-powered passenger train locomotives continue to use the rail line, then the maximum cancer risk would be 6.4 in one million. This was modeled at a receptor in the northeast portion of the site closest to railroad lines at a height of 1.5 meters. The location of maximum cancer risk is shown on Figure 1. Cancer risks at other areas and floor levels within the project site would be lower than the maximum cancer risk. Under the BAAQMD CEQA Air Quality Guidelines, an incremental risk of greater than 10.0 cases per million from a single source would be a significant impact. The cancer risk calculations are also provided in *Attachment 1*.

Potential non-cancer health effects due to chronic exposure to DPM were also evaluated. The chronic inhalation REL for DPM is 5 $\mu g/m^3$. The maximum predicted annual DPM concentration from locomotives is 0.03 $\mu g/m^3$ in the event that electrification of Caltrain does not occur. This concentration is much lower than the REL. Thus, the Hazard Index would be less than 0.01 without electrification, which is much lower than the BAAQMD significance criterion of a HI greater than 1.0.

[12] Caltrain *Commute Fleets*. Available at: http://www.caltrain.com/about/statsandreports.html. Accessed September 24, 2014.

In addition to evaluating the health risks from DPM, potential impacts from $PM_{2.5}$ emissions from the locomotives were evaluated. From the rail line modeling conducted for estimating cancer risks, the maximum $PM_{2.5}$ concentration was identified. The maximum average annual $PM_{2.5}$ concentration of 0.03 $\mu g/m^3$, without electrification, occurs at the same receptor that had the maximum cancer risk. These concentrations are well below the BAAQMD $PM_{2.5}$ threshold of greater than 0.3 $\mu g/m^3$.

Cumulative Community Risk Levels

Adding the maximum TAC impacts together, although they would occur at different locations, the cumulative cancer risk would be less than 9.2 per million, cumulative $PM_{2.5}$ concentration would be 0.19 and the non-cancer hazard index would be less than 0.03. Regardless of the proximity to W. El Camino Real, community risk impacts would be below the BAAQMD cumulative community risk thresholds.

Table 3 Cumulative Community TAC Levels

Source	Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Acute or Chronic Hazard Index
El Camino Real Traffic	2.2	0.16	<0.01
Plant 4862 - Summit Auto Body Painting, 320 Old Country Road	0.57	0.00	<0.01
Caltrain without Electrification	6.4	0.03	<0.01
Cumulative Sources	<9.2	0.19	<0.03
BAAQMD Single Source Threshold	*10.0*	*0.3*	*1.0*
BAAQMD Cumulative Source Threshold	*100.0*	*0.8*	*10.0*

Note: The maximum for each source unlikely to occur in same place on the project site, but this cumulative level assumes that scenario as a worst-case assessment.

Greenhouse Gas Emissions

A screening analysis of GHG emissions was conducted using the California Emission Estimator Model, version 2013.2.2 (CalEEMod). Inputs to the model included 73 townhome residential dwelling units, a 146-space enclosed parking garage with elevator, 4,000 square feet of strip mall retail, and 24 surface parking spaces on a 1.85-acre site. CalEEMod provided operational emissions, assumed for the year 2019. Using the default CalEEMod inputs for this type of development, CalEEMod predicts GHG emissions of 850 metric tons of CO_2e emissions per year[13]. These emissions are below the BAAQMD threshold of 1,100 metric tons per year for land use projects. The CalEEMod output is provided in Attachment 2.

Construction and Operational Emissions Impacts

Due to the project size, construction exhaust and operational period emissions would be less than significant. In their 2011 update to the CEQA Air Quality Guidelines, BAAQMD identified the

[13] CO_2e is the carbon dioxide equivalent emission that accounts for emissions and higher potency of nitrous oxide and methane emissions, expressed as carbon dioxide equivalent emissions.

size of land use projects that could result in significant air pollutant emissions. For construction exhaust impacts, the townhouse project size was identified at 240 dwelling units or 277,000 square feet of retail. For operational impacts, the project size was identified at 451 dwelling units or 99,000 square feet of retail. Since the project proposes about 73 dwelling units and 4,000 square feet of neighborhood retail use, it is concluded that emissions would be well below the BAAQMD significance thresholds for both construction exhaust and operational emissions.

However, construction activities, particularly during site preparation and grading would temporarily generate fugitive dust in the form of PM_{10} and $PM_{2.5}$. Sources of fugitive dust would include disturbed soils at the construction site and trucks carrying uncovered loads of soils. Unless properly controlled, vehicles leaving the site would deposit mud on local streets, which could be an additional source of airborne dust after it dries. Fugitive dust emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. Fugitive dust emissions would also depend on soil moisture, silt content of soil, wind speed, and the amount of equipment operating. Larger dust particles would settle near the source, while fine particles would be dispersed over greater distances from the construction site. In addition, equipment exhaust emission can temporarily affect nearby sensitive receptors in the form of elevated cancer risk and increased $PM_{2.5}$ concentrations. Emissions from construction equipment can be greatly reduced through the selection of newer or retrofitted construction equipment for onsite activities.

The BAAQMD CEQA Air Quality Guidelines consider these impacts to be less than significant if best management practices are employed to reduce these emissions. Control measures are recommended to reduce construction air quality effects to nearby sensitive receptors and be consistent with BAAQMD CEQA Air Quality Guidelines. During any construction period ground disturbance, the project contractor will implement measures to control dust. Equipment exhaust will also be reduced through proper equipment selection. These measures include:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) will be watered two times per day.

2. All haul trucks transporting soil, sand, or other loose material off-site will be covered.

3. All visible mud or dirt track-out onto adjacent public roads will be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.

4. All vehicle speeds on unpaved roads will be limited to 15 miles per hour (mph).

5. All roadways, driveways, and sidewalks to be paved will be completed as soon as possible. Building pads will be laid as soon as possible after grading unless seeding or soil binders are used.

6. Idling times will be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of

Regulations [CCR]). Clear signage will be provided for construction workers at all access points.

7. All construction equipment will be maintained and properly tuned in accordance with manufacturer's specifications. All equipment will be checked by a certified mechanic and determined to be running in proper condition prior to operation.

8. Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person will respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

9. Selection of equipment during demolition, grading and trenching construction phases to minimize emissions. Construction documents will include specifications that construction equipment selection would include the following:
    i. All mobile diesel-powered off-road equipment larger than 50 horsepower and operating on the site for more than two days continuously will meet U.S. EPA particulate matter emissions standards for Tier 2 engines or equivalent;
    ii. All portable diesel-powered off-road equipment larger than 50 horsepower (e.g., generators) operating on the site for more than two days continuously will meet U.S. EPA particulate matter emissions standards for Tier 4 engines or equivalent.

* * *

This concludes Illingworth & Rodkin, Inc. (I&R) screening level review of Air Quality, TAC and GHG issues associated with the potential Davey Glen project in Belmont, CA. Please do not hesitate to call with any questions or concerns regarding this assessment.

Sincerely,

James A. Reyff
Senior Consultant, Principal
Illingworth & Rodkin, Inc.

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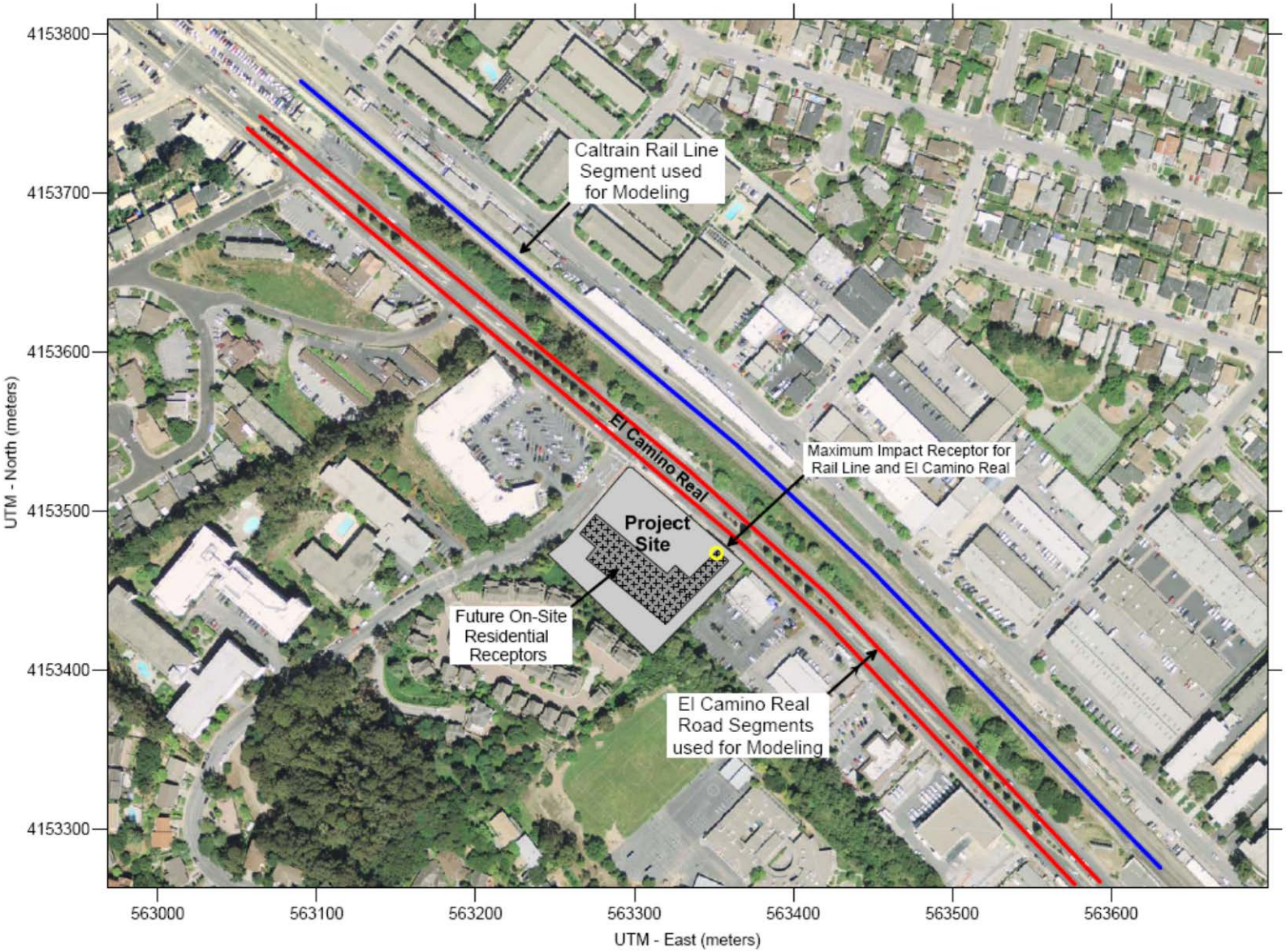
Figure 1. Project Site and On-site Residential Receptor Locations, Roadway and Rail Line Segments Evaluated, and Locations of Maximum Cancer Risk from Rail and Roadway Traffic



Attachment 1

W. El Camino Real Traffic Emissions, Modeling, and Health Risk Calculations

Davey Glen, Belmont, CA
El Camino Real (SR 82) Traffic Data and PM2.5 & TOG Emission Factors - 30 mph

Analysis Year = ***2020***

Vehicle Type	2013 Caltrans Number Vehicles (veh/day)	2020 Number Vehicles (veh/day)	2020 Percent Diesel	Number Diesel Vehicles (veh/day)	Vehicle Speed (mph)	Emission Factors: Diesel Vehicles DPM (g/VMT)	All Vehicles: Total PM2.5 (g/VMT)	All Vehicles: Exhaust PM2.5 (g/VMT)	Gas Vehicles: Exhaust TOG (g/VMT)	Gas Vehicles: Running TOG (g/VMT)
LDA	22,356	23,921	0.41%	99	30	0.0160	0.0196	0.0019	0.0273	0.039
LDT	9,222	9,867	0.08%	8	30	0.0322	0.0200	0.0023	0.0485	0.084
MDT	329	352	6.39%	22	30	0.0327	0.0221	0.0032	0.0783	0.123
HDT	93	100	81.32%	81	30	0.0978	0.1304	0.0820	0.5543	0.148
Total	32,000	34,240	-	210	30	-	-		-	-
Mix Avg Emission Factor						**0.05007**	**0.02008**	**0.00223**	**0.03420**	**0.05299**

		Gas	Diesel
Increase From 2013	1.07		
Vehicles/Direction	17,120	17,015	105
Avg Vehicles/Hour/Direction	**713**	**709**	**4**

Traffic Data Year = ***2013***

Caltrans 2013 Traffic & Truck AADT Data	Total	Total Truck	Truck by Axle 2	3	4	5
Rte 82, Belmont A Ralston Ave	32,000	422	329	59	6	28
Rte 82, B San Mateo, Jct Rte. 92			77.87%	14.02%	1.52%	6.59%
Percent of Total Vehicles		1.32%	1.03%	0.19%	0.02%	0.09%

Traffic Increase per Year (%) = ***1.00%***

Davey Glen, Belmont, CA
El Camino Real (SR 82)
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2020

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Width (ft)	Link Width (m)	Release Height (m)	Diesel ADT	Average Speed (mph)
NB-82	Westbound SR 82	N	2	716	44	13.3	0.0	105	30
SB-82	Eastbound SR 82	S	2	707	44	13.3	0.0	105	30

2020 Hourly Diesel Traffic Volumes Per Direction and DPM Emissions - NB & SB SR-82

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	2.04%	2	0.0773	9	7.70%	8	0.0454	17	7.52%	8	0.0479
2	1.76%	2	0.0662	10	6.11%	6	0.0631	18	6.38%	7	0.0346
3	1.45%	2	0.0401	11	5.21%	5	0.0571	19	3.39%	4	0.0353
4	0.54%	1	0.0722	12	5.78%	6	0.0611	20	2.74%	3	0.0281
5	0.57%	1	0.0610	13	5.51%	6	0.0606	21	3.70%	4	0.0423
6	1.07%	1	0.0978	14	5.45%	6	0.0589	22	4.58%	5	0.0545
7	4.42%	5	0.0577	15	7.27%	8	0.0462	23	3.94%	4	0.0458
8	6.01%	6	0.0365	16	6.45%	7	0.0396	24	0.38%	0	0.0610
								Total		105	

Davey Glen, Belmont, CA
El Camino Real (SR 82)
PM2.5 & TOG Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2020

Group Link	Description	Direction	No. Lanes	Link Length (m)	Link Width (ft)	Link Width (m)	Release Height (m)	ADT	Average Speed (mph)
NB-82	Westbound SR 82	N	2	716	44	13.3	0.0	17,120	30
SB-82	Eastbound SR 82	S	2	707	44	13.3	0.0	17,120	30

2020 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - NB & SB SR-82

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.07%	183	0.0207	9	7.07%	1210	0.0202	17	7.40%	1267	0.0201
2	0.35%	60	0.0216	10	4.23%	724	0.0205	18	8.34%	1428	0.0199
3	0.27%	47	0.0205	11	4.58%	784	0.0202	19	5.83%	998	0.0199
4	0.15%	26	0.0213	12	5.83%	998	0.0202	20	4.40%	753	0.0199
5	0.43%	74	0.0202	13	6.18%	1058	0.0201	21	3.30%	564	0.0200
6	0.79%	135	0.0210	14	6.03%	1033	0.0201	22	3.31%	566	0.0202
7	3.75%	642	0.0202	15	7.10%	1216	0.0201	23	2.48%	425	0.0201
8	7.95%	1361	0.0199	16	7.26%	1243	0.0200	24	1.91%	326	0.0198
								Total		17,120	

CAL3QHCR Risk Modeling Parameters and Maximum Cancer Risks
Davey Glen, Belmont, CA - DPM, PM2.5 & TOG TACs
El Camino Real (SR-82) Traffic Impacts

Receptor Information

Number of Receptors	92
Receptor Height =	1.5 meters
Receptor distances =	5 meter spacing

Meteorological Conditions

San Carlos Airport Hourly Met Data	2001 - 2005
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 (risk per million per μg/m^3) for DPM and Organic TACs from Vehicle TOG Exhaust & Evaporative Emissions

Exposure Type	CPF (mg/kg-day)$^{-1}$	CRAF (-)	Unit Risk *DPM*	Exhaust TOG TACs	Evaporative TOG TACs
Residential (70-Yr Exposure)	1.10E+00	1.7	541.5	3.1	0.182

MEI Cancer Risk Calculations - Receptor Height = 1.5 m

Meteorological Data Year	Maximum DPM Concentration (μg/m^3)	Maximum Gas Veh Exhaust TOG Concentration (μg/m^3)	Maximum Gas Veh Evaporative TOG Concentration (μg/m^3)	Maximum PM2.5 Concentration (μg/m^3)
	2020	2020	2020	2020
2001	0.0024	0.2567	0.3979	0.1519
2002	0.0024	0.2547	0.3949	0.1507
2003	0.0024	0.2621	0.4063	0.1551
2004	0.0023	0.2491	0.3862	0.1474
2005	0.0025	0.2731	0.4233	0.1616
Average	0.0024	0.2591	0.4017	0.1533
Cancer Risk[a]	1.30	0.80	0.07	

Total Risk From All TACs = 2.2 per million

Notes:
Receptor Heights = 1.5 m
Maximum DPM & PM2.5 concentrations occur at residential site adjacent to El Camino Real
a Cancer risk (per million) calculated assuming constant 70-year exposure to concentration for year of analysis.

Caltrain Rail Line Emissions, Modeling, and Health Risk Calculations

Davey Glen, Belmont, CA - First Floor Receptors
DPM Modeling - Rail Line Information and DPM and PM2.5 Emission Rates
Diesel-Powered Passenger and Freight Trains

Year	Description	No. Lines	Link Width (ft)	Link Width (m)	Link Length (ft)	Link Length (miles)	Link Length (m)	Release Height (m)	No. Trains per Day	Train Travel Speed (mph)	Average Daily Emission Rate (g/mi/day)	Average Daily Emission Rate (g/day)	Link Emission Rate (g/s)	Link Emission Rate (lb/hr)
2018-2019	Passenger								75	40	284.8	129.9	1.50E-03	1.19E-02
	Freight Trains								4	40	26.7	12.2	1.41E-04	1.12E-03
	Total	**1**	**12**	**3.7**	**2,409**	**0.46**	**734**	**5.0**	**79**	**-**	**311.4**	**142.1**	**1.64E-03**	**1.31E-02**
2020-2024	Passenger								75	40	211.6	96.5	1.12E-03	8.87E-03
	Freight Trains								4	40	21.5	9.8	1.14E-04	9.02E-04
	Total	**1**	**12**	**3.7**	**2,409**	**0.46**	**734**	**5.0**	**79**	**-**	**233.1**	**106.3**	**1.23E-03**	**9.77E-03**
2025+	Passenger								75	40	45.8	20.9	2.42E-04	1.92E-03
	Freight Trains								4	40	5.3	2.4	2.78E-05	2.21E-04
	Total	**1**	**12**	**3.7**	**2,409**	**0.46**	**734**	**5.0**	**79**	**-**	**51.0**	**23.3**	**2.70E-04**	**2.14E-03**

Notes: Emission based on Emission Factors for Locomotives, USEPA 2009 (EPA-420-F-09-025)
Average emissions calculated for periods 2019-2024 and 2025-2040.
Fuel correction factors from Offroad Modeling Change Technical memo, Changes to the Locomotive Inventory, CARB July 2006.
DPM & PM2.5 calculated as 92% of PM emissions (CARB CEIDERS PM2.5 fractions)
Passenger trains assumed to operate for 24 hours per day
Freight trains assumed to operate for 24 hours per day

Caltrain - without electrification

Arrive/Depart Station	*Diesel*	*Electric*	*Total*
Passenger trains - weekday =	92	0	92
Passenger trains - weekend =	32	0	32
Passenger trains - Sat only =	4	0	4
Total Trains =	128	0	128
Annual average daily trains =	75	0	75
Locomotive horsepower =	3285		
Locomotives per train =	1		
Locomotive engine load =	0.6		

Freight

Freight trains per day =	4	7	days/week
Locomotive horsepower =	2300	(note: average hp for UPRR locomotive in CA in 2009 was 2,200 hp)	
Locomotives per train =	2		
Total horsepower =	4600		
Locomotive engine load =	0.6		

Locomotive Emission Factors (g/hp-hr)*

Train Type	2018	2020	2025+
Passenger	0.118	0.088	0.019
Freight	0.125	0.101	0.025

* 2018 is average emissions for 2018-2019, 2020 is average emissions for 2020-2024, and 2025+ emissions areaverages for 2025-2087.

PM2.5 to PM ratio = 0.92

	CARB Fuel Adj Factor	
	2010	2011+
Passenger	0.717	0.709
Freight	0.851	0.840

Davey Glen, Belmont, CA - First Floor Receptors
DPM Modeling - Rail Line Information and DPM and PM2.5 Emission Rates
Caltrain Electrification and Diesel-Powered Freight Trains

Year	Description	No. Lines	Link Width (ft)	Link Width (m)	Link Length (ft)	Link Length (miles)	Link Length (m)	Release Height (m)	No. Trains per Day	Train Travel Speed (mph)	Average Daily Emission Rate (g/mi/day)	Average Daily Emission Rate (g/day)	Link Emission Rate (g/s)	Link Emission Rate (lb/hr)
2018-2019	Passenger								75	40	284.8	129.9	1.50E-03	1.19E-02
	Freight Trains								4	40	26.7	12.2	1.41E-04	1.12E-03
	Total	**1**	**12**	**3.7**	**2,409**	**0.46**	**734**	**5.0**	**79**	**-**	**311.4**	**142.1**	**1.64E-03**	**1.31E-02**
2020-2024	Passenger								14	40	41.7	19.0	2.20E-04	1.75E-03
	Freight Trains								4	40	21.5	9.8	1.14E-04	9.02E-04
	Total	**1**	**12**	**3.7**	**2,409**	**0.46**	**734**	**5.0**	**18**	**-**	**63.2**	**28.9**	**3.34E-04**	**2.65E-03**
2025+	Passenger								2	40	1.3	0.6	7.04E-06	5.59E-05
	Freight Trains								4	40	5.3	2.4	2.78E-05	2.21E-04
	Total	**1**	**12**	**3.7**	**2,409**	**0.46**	**734**	**5.0**	**6**	**-**	**6.6**	**3.0**	**3.49E-05**	**2.77E-04**

Notes: Emission based on Emission Factors for Locomotives, USEPA 2009 (EPA-420-F-09-025)
Average emissions calculated for periods 2019-2024 and 2025-2040.
Fuel correction factors from Offroad Modeling Change Technical memo, Changes to the Locomotive Inventory, CARB July 2006.
DPM & PM2.5 calculated as 92% of PM emissions (CARB CEIDERS PM2.5 fractions)
25% of trains will be diesel in 2019. This represents about (7 or 8 trains of the current rolling stock of 29 trains). These will be operated only during weekday peak periods.
After 2025 it is assumed that on an annual average basis there would be 2 diesel train trips per day between San Francisco and San Jose.
Passenger trains assumed to operate for 24 hours per day
Freight trains assumed to operate for 24 hours per day

Caltrain - with electrification			
Arrive/Depart Station	*Diesel*	*Electric*	*Total*
Passenger trains - weekday =	19	73	92
Passenger trains - weekend =	0	32	32
Passenger trains - Sat only =	0	4	4
Total Trains =	19	109	128
Annual average daily trains =	14	62	75
Locomotive horsepower =	3285	(before 2020)	
Locomotive horsepower =	3600	(2020 and later)	
Locomotives per train =	1		
Locomotive engine load =	0.6		

Freight

Freight trains per day =	4	7	days/week
Locomotive horsepower =	2300	(note: average hp for UPRR locomotive in CA in 2009 was 2,200 hp)	
Locomotives per train =	2		
Total horsepower =	4600		
Locomotive engine load =	0.6		

Locomotive Emission Factors (g/hp-hr)*

Train Type	2018	2020	2025+
Passenger	0.118	0.088	0.019
Freight	0.125	0.101	0.025

* 2019 and 2020 are average emissions for 2019-2024. 2025+ emissions average for 2025-2040.

PM2.5 to PM ratio = 0.92

	CARB Fuel Adj Factor	
	2010	2011+
Passenger	0.717	0.709
Freight	0.851	0.840

Davey Glen, Belmont, CA - First Floor Receptors
ISCST3 Railroad DPM Risk Modeling Parameters and Maximum Cancer Risk at Project Site
All Diesel-Powered Passenger and Freight Trains

Receptor Information

Number of Receptors	92
Receptor Spacing =	5 meters
Receptor Height =	1.5 meters

Meteorological Conditions

San Carlos Airport Met Data	2001-2005
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)$^{-1}$
SWFi = Sensitivity weighting factor dependent on emissions period i and duration of exposure
URF =Unit risk factor (cancer risk per μg/m^3)

Unit Risk Factors (unadjusted for age sensitivity) for DPM

Exposure Type	CPF (mg/kg-day)$^{-1}$	*DPM*
Residential (70-Yr Exposure)	1.10E+00	318.5

MEI Cancer Risk Calculations

Meteorological Data Year	Maximum Annual DPM Concentration (μg/m^3)		
	2018	2020	2025
2001 - 2005	0.0306	0.0229	0.0050
Cancer Risk[a]	9.76	7.28	1.59
Sensitivity Weighting Factors	0.286	0.239	1.164
Contribution to Total Cancer Risk	2.79	1.7	1.9
70-yr Cumulative Risk [b]	***6.4***		

Notes:
Receptor Heights = 1.5 m
Maximum DPM & PM2.5 concentrations occur at residential site adjacent to El Camino Real
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.

Davey Glen, Belmont, CA - First Floor Receptors
ISCST3 Railroad DPM Risk Modeling Parameters and Maximum Cancer Risk at Project Site
Caltrain Electrification and Diesel-Powered Freight Trains

Receptor Information

Number of Receptors	92
Receptor Spacing =	5 meter spacing
Receptor Height =	1.5 meters

Meteorological Conditions

San Carlos Airport Met Data	2001-2005
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)$^{-1}$
SWFi = Sensitivity weighting factor dependent on emissions period i and duration of exposure
URF =Unit risk factor (cancer risk per μg/m^3)

Unit Risk Factors (unadjusted for age sensitivity) for DPM

Exposure Type	CPF (mg/kg-day)$^{-1}$	*DPM*
Residential (70-Yr Exposure)	1.10E+00	318.5

MEI Cancer Risk Calculations

Meteorological Data Year	Maximum Annual DPM Concentration (μg/m^3)		
	2018	2020	2025
2002 - 2005	0.0062	0.0193	0.0007
Cancer Risk[a]	1.97	6.15	0.21
Sensitivity Weighting Factors	0.286	0.239	1.164
Contribution to Total Cancer Risk	0.56	1.5	0.2
70-yr Cumulative Risk [b]	***2.3***		

Notes:
Receptor Heights = 1.5 m
Maximum DPM & PM2.5 concentrations occur at residential site adjacent to El Camino Real
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.

Attachment 2

Glen Davey Belmont - Preliminary

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	146.00	Space	1.31	58,400.00	0
Condo/Townhouse	73.00	Dwelling Unit	4.56	73,000.00	209
Strip Mall	5.00	1000sqft	0.11	5,000.00	0
Parking Lot	24.00	Space	0.00	9,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Preliminary site schematic (August 11, 2014)

Construction Phase - Construction not addressed

Off-road Equipment - Construction not addressed

Demolition -

Grading - Construction not addressed

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblLandUse	LotAcreage	0.22	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2019

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					
2015	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
2015	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	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**	**N20**	**CO2e**
Percent Reduction	**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**

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	0.7283	7.2900e-003	0.6276	1.0000e-004		0.0148	0.0148		0.0148	0.0148	1.2012	2.8188	4.0200	3.1300e-003	1.0000e-004	4.1165
Energy	9.6900e-003	0.0829	0.0358	5.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	320.2781	320.2781	0.0120	3.8600e-003	321.7255
Mobile	0.3052	0.5396	2.8564	6.8300e-003	0.5126	7.7300e-003	0.5203	0.1375	7.1300e-003	0.1446	0.0000	488.9047	488.9047	0.0200	0.0000	489.3251
Waste						0.0000	0.0000		0.0000	0.0000	7.8821	0.0000	7.8821	0.4658	0.0000	17.6644
Water						0.0000	0.0000		0.0000	0.0000	1.6264	11.3541	12.9805	0.1676	4.0500e-003	17.7551
Total	**1.0431**	**0.6298**	**3.5198**	**7.4600e-003**	**0.5126**	**0.0293**	**0.5419**	**0.1375**	**0.0287**	**0.1662**	**10.7098**	**823.3557**	**834.0655**	**0.6685**	**8.0100e-003**	**850.5865**

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	0.7283	7.2900e-003	0.6276	1.0000e-004		0.0148	0.0148		0.0148	0.0148	1.2012	2.8188	4.0200	3.1300e-003	1.0000e-004	4.1165
Energy	9.6900e-003	0.0829	0.0358	5.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	320.2781	320.2781	0.0120	3.8600e-003	321.7255
Mobile	0.3052	0.5396	2.8564	6.8300e-003	0.5126	7.7300e-003	0.5203	0.1375	7.1300e-003	0.1446	0.0000	488.9047	488.9047	0.0200	0.0000	489.3251
Waste						0.0000	0.0000		0.0000	0.0000	7.8821	0.0000	7.8821	0.4658	0.0000	17.6644
Water						0.0000	0.0000		0.0000	0.0000	1.6264	11.3541	12.9805	0.1675	4.0400e-003	17.7525
Total	**1.0431**	**0.6298**	**3.5198**	**7.4600e-003**	**0.5126**	**0.0293**	**0.5419**	**0.1375**	**0.0287**	**0.1662**	**10.7098**	**823.3557**	**834.0655**	**0.6685**	**8.0000e-003**	**850.5840**

	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**	**N20**	**CO2e**
Percent Reduction	**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**	**0.12**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2015	1/1/2015	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	0	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	0	0.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	0.3052	0.5396	2.8564	6.8300e-003	0.5126	7.7300e-003	0.5203	0.1375	7.1300e-003	0.1446	0.0000	488.9047	488.9047	0.0200	0.0000	489.3251
Unmitigated	0.3052	0.5396	2.8564	6.8300e-003	0.5126	7.7300e-003	0.5203	0.1375	7.1300e-003	0.1446	0.0000	488.9047	488.9047	0.0200	0.0000	489.3251

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	481.07	522.68	443.11	1,075,088	1,075,088
Enclosed Parking with Elevator	0.00	0.00	0.00		
Strip Mall	221.60	210.20	102.15	312,484	312,484
Parking Lot	0.00	0.00	0.00		
Total	702.67	732.88	545.26	1,387,572	1,387,572

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.579581	0.062616	0.176505	0.113545	0.029546	0.004152	0.015698	0.004192	0.002652	0.003672	0.006635	0.000224	0.000983

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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						0.0000	0.0000		0.0000	0.0000	0.0000	224.3772	224.3772	0.0102	2.1000e-003	225.2410
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	224.3772	224.3772	0.0102	2.1000e-003	225.2410
NaturalGas Mitigated	9.6900e-003	0.0829	0.0358	5.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	95.9009	95.9009	1.8400e-003	1.7600e-003	96.4845
NaturalGas Unmitigated	9.6900e-003	0.0829	0.0358	5.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	95.9009	95.9009	1.8400e-003	1.7600e-003	96.4845

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/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	24000	1.3000e-004	1.1800e-003	9.9000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.2807	1.2807	2.0000e-005	2.0000e-005	1.2885
Condo/Townhouse	1.77311e+006	9.5600e-003	0.0817	0.0348	5.2000e-004		6.6100e-003	6.6100e-003		6.6100e-003	6.6100e-003	0.0000	94.6201	94.6201	1.8100e-003	1.7300e-003	95.1960
Total		**9.6900e-003**	**0.0829**	**0.0358**	**5.3000e-004**		**6.7000e-003**	**6.7000e-003**		**6.7000e-003**	**6.7000e-003**	**0.0000**	**95.9009**	**95.9009**	**1.8300e-003**	**1.7500e-003**	**96.4845**

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/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	24000	1.3000e-004	1.1800e-003	9.9000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.2807	1.2807	2.0000e-005	2.0000e-005	1.2885
Condo/Townhouse	1.77311e+006	9.5600e-003	0.0817	0.0348	5.2000e-004		6.6100e-003	6.6100e-003		6.6100e-003	6.6100e-003	0.0000	94.6201	94.6201	1.8100e-003	1.7300e-003	95.1960
Total		**9.6900e-003**	**0.0829**	**0.0358**	**5.3000e-004**		**6.7000e-003**	**6.7000e-003**		**6.7000e-003**	**6.7000e-003**	**0.0000**	**95.9009**	**95.9009**	**1.8300e-003**	**1.7500e-003**	**96.4845**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	311176	90.5248	4.0900e-003	8.5000e-004	90.8733
Enclosed Parking with Elevator	393616	114.5074	5.1800e-003	1.0700e-003	114.9482
Parking Lot	8448	2.4576	1.1000e-004	2.0000e-005	2.4671
Strip Mall	58050	16.8874	7.6000e-004	1.6000e-004	16.9524
Total		**224.3772**	**0.0101**	**2.1000e-003**	**225.2410**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	311176	90.5248	4.0900e-003	8.5000e-004	90.8733
Enclosed Parking with Elevator	393616	114.5074	5.1800e-003	1.0700e-003	114.9482
Parking Lot	8448	2.4576	1.1000e-004	2.0000e-005	2.4671
Strip Mall	58050	16.8874	7.6000e-004	1.6000e-004	16.9524
Total		**224.3772**	**0.0101**	**2.1000e-003**	**225.2410**

6.0 Area Detail

6.1 Mitigation Measures Area

	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	0.7283	7.2900e-003	0.6276	1.0000e-004		0.0148	0.0148		0.0148	0.0148	1.2012	2.8188	4.0200	3.1300e-003	1.0000e-004	4.1165
Unmitigated	0.7283	7.2900e-003	0.6276	1.0000e-004		0.0148	0.0148		0.0148	0.0148	1.2012	2.8188	4.0200	3.1300e-003	1.0000e-004	4.1165

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	0.0846					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Consumer Products	0.5702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0566	9.7000e-004	0.0813	7.0000e-005		0.0118	0.0118		0.0118	0.0118	1.2012	1.9302	3.1315	2.2500e-003	1.0000e-004	3.2096
Landscaping	0.0168	6.3200e-003	0.5463	3.0000e-005		2.9900e-003	2.9900e-003		2.9900e-003	2.9900e-003	0.0000	0.8885	0.8885	8.8000e-004	0.0000	0.9070
Total	**0.7283**	**7.2900e-003**	**0.6276**	**1.0000e-004**		**0.0148**	**0.0148**		**0.0148**	**0.0148**	**1.2012**	**2.8188**	**4.0200**	**3.1300e-003**	**1.0000e-004**	**4.1165**

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	0.0846					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0566	9.7000e-004	0.0813	7.0000e-005		0.0118	0.0118		0.0118	0.0118	1.2012	1.9302	3.1315	2.2500e-003	1.0000e-004	3.2096
Landscaping	0.0168	6.3200e-003	0.5463	3.0000e-005		2.9900e-003	2.9900e-003		2.9900e-003	2.9900e-003	0.0000	0.8885	0.8885	8.8000e-004	0.0000	0.9070
Total	**0.7283**	**7.2900e-003**	**0.6276**	**1.0000e-004**		**0.0148**	**0.0148**		**0.0148**	**0.0148**	**1.2012**	**2.8188**	**4.0200**	**3.1300e-003**	**1.0000e-004**	**4.1165**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.9805	0.1675	4.0400e-003	17.7525
Unmitigated	12.9805	0.1676	4.0500e-003	17.7551

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	4.75624 / 2.9985	12.0489	0.1555	3.7600e-003	16.4785
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.370363 / 0.226996	0.9316	0.0121	2.9000e-004	1.2765
Total		**12.9805**	**0.1676**	**4.0500e-003**	**17.7551**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	4.75624 / 2.9985	12.0489	0.1554	3.7500e-003	16.4761
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.370363 / 0.226996	0.9316	0.0121	2.9000e-004	1.2763
Total		**12.9805**	**0.1675**	**4.0400e-003**	**17.7525**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	7.8821	0.4658	0.0000	17.6644
Mitigated	7.8821	0.4658	0.0000	17.6644

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	33.58	6.8164	0.4028	0.0000	15.2761
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	5.25	1.0657	0.0630	0.0000	2.3883
Total		**7.8821**	**0.4658**	**0.0000**	**17.6644**

Mitigated

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Condo/Townhouse	33.58	6.8164	0.4028	0.0000	15.2761
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Strip Mall	5.25	1.0657	0.0630	0.0000	2.3883
Total		**7.8821**	**0.4658**	**0.0000**	**17.6644**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

E. HAZARDS AND HAZARDOUS MATERIALS

West Environmental Services & Technology. 2014. *Phase I Environmental Site Assessment-400-490 El Camino Real Belmont, CA.* August 2014.

PHASE I
ENVIRONMENTAL SITE ASSESSMENT
400-490 El Camino Real
Belmont, California

August 2014

Prepared for

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SIGNATURE PAGE

In conformance with 40 CFR 312, the undersigned "declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312."

"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."

REGISTERED PROFESSIONAL ENGINEER
PETER KRASNOFF
C44031
EXP. 6/30/15
CIVIL
STATE OF CALIFORNIA

Peter M. Krasnoff
California Registered Civil Engineer (44031)

8/11/14
Date

PROFESSIONAL GEOLOGIST
PETER E. MORRIS
7084
Exp. 4/30/15
STATE OF CALIFORNIA

Peter E. Morris
California Professional Geologist (7084)

8/11/14
Date

1.0 INTRODUCTION

West Environmental Services & Technology, Inc. (WEST), prepared this *Updated Phase I Environmental Site Assessment* (“*Phase I ESA*”) for the 400-490 El Camino Real property located in Belmont, California (“the Site;” Figure 1-1). This *Phase I ESA* was conducted in accordance with: 1) the United States Environmental Protection Agency’s (USEPA’s) Chapter 40 Code of Federal (CFR) Regulations Part 312, S*tandards and Practices for All Appropriate Inquiry: Final Rule* (40 CFR 312); and 2) ASTM *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E 1527-13* (ASTM E 1527).

1.1 PURPOSE

The objective of performing the *Phase I ESA* was to identify recognized environmental conditions at the Site related to the previous ownership and uses of the Site and adjoining properties. Recognized environmental conditions, as applied in the scope of this work, are the presence or likely presence of any hazardous substance or petroleum products in, on or at the Site: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

1.2 DETAILED SCOPE-OF-SERVICES

The work followed the guidelines as outlined in 40 CFR 312 and ASTM E 1527, except as otherwise noted. Specifically, WEST performed the following activities:

- WEST obtained and reviewed reasonably ascertainable background data on the characteristics and previous uses of the Site. The work included reviewing selected historical aerial photographs, topographic maps and reasonably ascertainable data on the geology and hydrogeology of the Site and vicinity;

- WEST conducted a Site reconnaissance of accessible exterior portions of the grounds and performed a drive-by reconnaissance of the surrounding neighborhood;

- WEST conducted an interview with local regulatory representatives to obtain information regarding the previous and current uses of the Site;

- WEST searched pertinent regulatory records concerning potential releases of hazardous materials at the Site and surrounding properties that may have impacted soil and/or groundwater quality. Representatives of appropriate regulatory agencies were contacted regarding regulatory records for the Site and surrounding area;

- The findings were evaluated to develop opinions regarding whether they represented recognized environmental conditions; and

- WEST performed a data gap analysis.

The scope of the *Phase I ESA* did include the collection of soil and soil gas samples as part of Phase II Environmental Site Assessment (Phase II ESA); however, did not include evaluations for possible natural hazards such as naturally occurring radon gas, methane gas or the potential for earthquake or flood damage.

1.3 LIMITATIONS AND EXCEPTIONS

The observations and conclusions presented in this report are professional opinions based on the activities conducted and the information obtained during the environmental assessment described herein. Opinions presented here apply only to the observed Site conditions existing at the time of the assessment and cannot necessarily apply to Site conditions or changes of which this office is not aware or has not had the opportunity to evaluate. Any conclusions drawn from this data rely on the integrity of the information available at the time of the investigation and an absolute determination of environmental risks cannot be made.

1.4 SPECIAL TERMS AND CONDITIONS

No special terms and conditions were indicated by the User for this *Phase I ESA*.

1.5 USER RELIANCE

The *Phase I ESA* report is for the exclusive use of the User and its designees. Use of this report by any other party shall be at such party's sole risk.

1.6 EXECUTIVE SUMMARY

We have prepared this *Phase I ESA* in conformance with the scope and limitations of ASTM E 1527. Any exceptions to, or deletions from, this practice are described in Section 8.0 of this report. This assessment revealed no evidence of current recognized environmental conditions in connection with the Site; except for those listed in Table 7-1. Consistent with 40 CFR 312 and ASTM E 1527, no data gaps of historical records were identified. A summary of the *Phase I ESA* is presented below.

The approximately 1.8-acre Site is located at the southwest corner of Davey Glen Road and El Camino Real in Belmont, California. The Site is bounded by: El Camino Real to the northeast; commercial businesses to the southeast; residential neighborhoods to the southwest; and Davey Glen Road and a retail shopping center to the northwest. Features on the Site include: an approximately 1,500-square foot single story 7-11 retail store; an approximately 11,000-square-foot two-story multi-tenant commercial building; and paved parking areas.

Between at least the 1940s to the 1950s, the Site was undeveloped grass-covered hillside. During the 1960s, the Site was graded and developed with the 11,000-square-foot commercial office building; and a gasoline service station building and canopy (EDR, 2014; Appendix D). The gasoline service station was present between the 1960s and 1970s (EDR, 2014). The 7-11 retail

store was present in the 1980s, occupying the former gasoline service station building; however the canopy was removed.

Based on the review of the historical operations, suspected environmental conditions were identified associated with the potential presence of total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs) and metals associated former gasoline service station operations and potential presence of underground storage tanks (USTs). The results of the file review did not indicate that a gasoline service station operated at 400 El Camino Real nor were their records that the UST(s) and associated piping had been removed.

In March 2014, WEST conducted a geophysical survey and collected soil and soil gas samples as part of the Phase II Environmental Site Assessment (Phase II ESA) sampling to characterize the suspect recognized environmental conditions. The geophysical survey identified metallic anomalies characteristic of USTs and underground piping.

WEST advanced borings; near the underground piping (W-1, W-2 and W-4); near the suspected USTs (W-3 and W-6); and near the rear of the building (W-5). Eleven soil samples were collected from the borings between 3-feet and 13-feet below ground surface. The borings were terminated at approximately 13-feet below ground surface due to drilling equipment refusal on the underlying bedrock. Groundwater was not encountered in the borings. Visual and olfactory observations of the soil removed from the borings indicated the presence of discolored soil and a petroleum odor (Appendix E).

Laboratory analysis of the soil samples revealed total petroleum hydrocarbons as gasoline (TPHg) up to 3.51 milligrams per kilogram (mg/kg; boring W-2 at 13-feet below ground surface), which is below the California Regional Water Board-San Francisco Bay Region (Regional Water Board) Environmental Screening Level (ESL) of 100 mg/kg for the protection of groundwater (Appendix E). Boring W-2 was advanced near one of the suspected USTs. TPH as diesel (TPHd), benzene, toluene, ethyl benzene and xylenes were not detected in the soil

samples above their respective laboratory-reporting limits. PAHs were detected in the soil samples including: acenaphthene up to 4.03 micrograms per kilogram (µg/kg)(W-3 at 10-feet below ground surface); benzo(a)pyrene up to 4.89 µg/kg (W-1 at 13-feet below ground surface); and naphthalene up to 7.15 µg/kg (W-3 at 10-feet below ground surface), which are below their respective Regional Water Board residential ESLs. Metals including arsenic were detected up to 4.57 mg/kg (W-3 at 10-feet below ground surface), consistent with background concentrations for the San Francisco Bay Area (Regional Water Board, 2014). Lead was detected up to 6.56 mg/kg (W-3 at 10-feet below ground surface), which is below its Regional Wate Board residential ESL of 80 mg/kg (Appendix E).

Two soil gas samples were collected from borings W-5 (former service station building) and W-6 (suspected waste oil UST). The soil gas samples revealed the presence of VOCs including benzene up to 32.1 micrograms per meter cubed ($\mu g/m^3$), which is below its Regional Water Board ESL of 84 $\mu g/m^3$ for the protection indoor air under residential use (Appendix E).

Based on the findings from the Phase II ESA and the lack of documentation regarding removal of the USTs and associated piping, the former gasoline station represents a recognized environmental condition (Table 7-1).

2.0 SITE DESCRIPTION

The approximate 1.8-acre Site is located on the southwest corner of El Camino Real and Davey Glen Road in Belmont, California. The Assessors Parcel Numbers for the Site are 044-162-150 and 044-162-160. The Site is bounded by: El Camino Real to the northeast; commercial businesses to the southeast; residential neighborhoods to the southwest; and Davey Glen Road and a retail shopping center to the northwest. Features on the Site include: an approximately 1,500-square foot single story 7-11 retail store; an approximately 11,000-square-foot two-story multi-tenant commercial building; and paved parking areas.

2.1 GEOLOGICAL AND HYDROGEOLOGICAL SETTING

The Site is located within the San Mateo Subbasin portion of the Coast Ranges Geomorphic Province. The Site geology is underlain by unconsolidated alluvial deposits composed of the Santa Clara formation and Quaternary Alluvium (DWR, 2004). Gravelly clays; clayey gravels clayey sands and sandy clays were observed in the soil removed from borings advanced at the Site. Weathered bedrock was observed at the base of the borings. Groundwater was not encountered in the borings to approximately 13-feet below ground surface. Groundwater flow direction near the Site following the topography is to the north-northeast.

2.2 SURFACE WATER

Belmont Slough is located approximately 3,000-feet to the northeast. Belmont Slough connects to the San Francisco Bay approximately 2.5-miles northeast of the Site (EDR, 2014).

2.3 CURRENT USES OF ADJOINING PROPERTIES

Current uses of adjoining properties include: commercial businesses to the southeast along El Camino Real; residential neighborhoods to the southwest; Davey Glen Road and a retail shopping center to the northwest; and El Camino Real to the northeast (Figure 2-1).

3.0 USER PROVIDED INFORMATION

WEST submitted a questionnaire to the User to assist in identifying recognized environmental conditions in connection with the Site. A copy of the User Questionnaire is provided in Appendix A.

3.1 TITLE RECORDS

A preliminary title report was provided by the User for review as part of the *Phase I ESA*. A copy of the preliminary title report is provided in Appendix A.

3.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

The User indicated that liens or activity and use limitations are not recorded against the Site. An Environmental Lien Search Report was obtained from Environmental Data Resources, Inc. (EDR) of Milford, Connecticut (EDR, 2014). The Environmental Lien Search Report did not identify environmental liens or activity use limitations associated with the Site. A copy of the EDR Environmental Lien Search Report is included in Appendix A.

3.3 SPECIALIZED KNOWLEDGE

The User indicated specialized knowledge with respect to the residential neighborhoods adjacent to the Site, previously developed by the User.

3.4 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

The User indicated the purchase price being paid for the property reasonably reflects the fair market value of the property.

3.5 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE SITE INFORMATION

The User it is not aware of commonly known or reasonably ascertainable information to identify conditions indicative of releases or threatened releases.

3.6 OWNER, PROPERTY MANAGER, AND OCCUPANT INFORMATION

The User identified Mr. Gene Lee as the property owner representative. The User did not identify property manager or occupant representatives.

3.7 REASON FOR PERFORMING PHASE I ESA

The User indicated that the purpose for conducting the Phase I ESA was to qualify for the bona fide prospective purchaser limitations on CERCLA liability.

3.8 OTHER

The User indicated orally that the future use of the Site is for mixed commercial and residential use.

4.0 RECORDS REVIEW

A records review was conducted to identify recognized environmental conditions at and near the Site. The records searched for this *Phase I ESA* consisted of standard federal and state environmental record sources as defined in ASTM E 1527. Historical records searched as part of the *Phase I ESA* included: aerial photographs; Sanborn Fire Insurance Maps; topographic maps; and city directories. Relevant historical uses associated with the Site and surrounding areas are depicted on Figure 2-1 and discussed in Table 7-1.

4.1 STANDARD ENVIRONMENTAL RECORD SOURCES

An environmental database report was prepared by EDR and consisted of a review of federal and state regulatory listings for sites within the search radii established under the ASTM E 1527 (EDR, 2014). Sites listed in the EDR environmental database report located: greater than 1,000 feet distance from the Site; at topographically lower elevations; and/or hydraulically downgradient or cross-gradient from the Site, were reviewed but not considered relevant to the identification of recognized environmental conditions. Discussions of the relevant findings from the environmental database report, e.g., sites within approximately 1,000-feet and hydraulically upgradient of the Site have been included in Table 7-1. A copy of the EDR environmental database report is included in Appendix A.

4.2 ADDITIONAL ENVIRONMENTAL RECORDS SOURCES

Additional environmental records including previous environmental reports, permits and correspondence were requested from: Santa Mateo County Environmental Health Department; City of Belmont Fire Department; City of Belmont Building Department; California Regional Water Quality Control Board – San Francisco Bay Region (Regional Board); and the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC). Discussions of the relevant findings from the additional environmental record sources have been included in Table 7-1. Copies of the relevant documents have been included in Appendix B.

4.3 PHYSICAL SETTING SOURCES

The 1949, 1956, 1968, 1973, 1980, 1993 and 1997 San Mateo, California United States Geological Service (USGS) 7.5 Minute Quadrangle topographic maps and the 1899, 1915 and 1947, San Mateo, California USGS 15 Minute Quadrangle topographic maps were reviewed to identify geologic, hydrogeologic, hydrologic and topographic features of the Site and surrounding area. Copies of the USGS topographic maps are included in Appendix B.

4.4 HISTORICAL USE INFORMATION ON THE SITE

The objective for reviewing historical sources regarding past uses of the Site was to develop information regarding history of previous uses of the Site and surrounding area to identify the likelihood of past uses having led to recognized environmental conditions in connection with the Site. Reasonably ascertainable historical sources including aerial photographs and topographic maps were reviewed. Discussions of the relevant findings from the review of the historical sources are presented in Table 7-1. Locations of relevant historical uses on the Site are also identified on Figure 2-1. Copies of the historical aerial photographs and topographic maps are included in Appendix B.

4.5 HISTORICAL USE INFORMATION ON ADJOINING PROPERTIES

The information sources used for evaluating the historical use of the Site were reviewed to identify historical uses of adjoining properties. Discussions of the relevant findings from the review of the historical sources are presented in Table 7-1. Locations of relevant historical uses of adjoining properties are identified on Figure 2-1.

5.0 SITE RECONNAISSANCE

A Site reconnaissance was performed by WEST personnel on March 11, 2014. Mr. Peter Morris, P.G., a representative of WEST, conducted the reconnaissance. The objective of the reconnaissance was to obtain information indicating the likelihood of recognized environmental conditions in connection with the Site. The reconnaissance included a visual observation of the Site and adjoining properties. Discussions of the relevant findings from the Site reconnaissance have been included in Table 7-1.

5.1 METHODOLOGY AND LIMITING CONDITIONS

As part of the reconnaissance, accessible portions of the Site were observed visually. Accessible physical conditions included: pathways, access roads and walkways located on the perimeter of the Site as well. Adjoining properties were also visually observed, where possible.

5.2 GENERAL SITE SETTING

Observations were made during the Site reconnaissance of current uses of the Site and adjoining properties to identify conditions likely to involve the use, treatment, storage, disposal or generation of hazardous substances or petroleum products. A summary of the relevant findings from the Site reconnaissance is included in Table 7-1.

6.0 INTERVIEWS

The objective of the interviews was to obtain information indicating recognized environmental conditions in connection with the Site.

6.1 INTERVIEW WITH OWNER

The Phase I ESA interview questionnaire was forwarded to the Site Owner representative, Mr. Gene Lee. A copy of the Site Owner Questionnaire is included in Appendix D. Other Site owner representatives were not identified by the User for interviews.

6.2 INTERVIEW WITH PROPERTY MANAGER

Property manager representatives were not identified by the User for interviews; thus, property manager representatives were not interviewed.

6.3 INTERVIEW WITH OCCUPANTS

The Site occupant representatives were not identified; thus interviews of Site occupants were not conducted.

6.4 INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS

File review requests were also sent to representatives of DTSC, Regional Board, City of Belmont Building and Public Safety departments, San Mateo County Department of Environmental Health. In addition, discussions were held with Mr. Charles Ice and Jacob Madden of the San Mateo County Department of Environmental Health regarding the Site. Discussions of the relevant findings from the local government agencies have been included in Table 7-1.

6.5 INTERVIEWS WITH OTHERS

At the time of this Phase I ESA, no other persons have been identified for interviews.

7.0 FINDINGS AND CONCLUSIONS

WEST has performed a *Phase I ESA* in conformance with the scope and limitations of ASTM E 1527 of the Site. Any exceptions to, or deletions from, this practice are described in Section 8.0 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the Site; except for those identified in table 7-1. The findings, opinions and conclusions are presented in Table 7-1.

In accordance with Section 12.5 of ASTM E 1527, a summary of the history, relevant information obtained during the Phase I ESA, potential chemicals present, the known or suspect recognized environmental condition, as well as controlled recognized environmental conditions, historical recognized environmental conditions and *de minimis* conditions have been identified and provided in Table 7-1.

In accordance with Section 12.6 of ASTM E 1527, the opinions including WEST's rationale for concluding that the known or suspect recognized environmental conditions identified in the findings section are or are not currently recognized environmental conditions are presented in Table 7-1.

In accordance with Section 12.7 of ASTM E 1527, WEST's data gap analysis is presented in Section 10.0 of this report.

In accordance with Section 12.8 of ASTM E 1527, the conclusions based on WEST's opinions and rationale regarding recognized environmental conditions are presented in Table 7-1.

As used in this Phase 1 ESA, the following definitions apply:

- Pursuant to Section 3.2.18 of ASTM E 1527, a controlled recognized environmental condition is a recognized environmental condition resulting from a past release that has been addressed to the satisfaction of the applicable regulatory authority, e.g., issuance of

no further action letter or equivalent, or meeting risk-based criteria, with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls including property use restrictions, activity and use limitations or engineering controls.

- Pursuant to Section 3.2.22 of ASTM E 1527, *de minimis* conditions, i.e., conditions that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies, are not considered recognized environmental conditions.

- Pursuant to Section 3.2.42 of ASTM E 1527, an historical recognized environmental condition is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls, i.e., property use restrictions. Prior to concluding that a past release is an historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time of the *Phase I ESA*, e.g., if there has been a change in regulatory criteria. If the past release is determined to be a recognized environmental condition at the time of the *Phase I ESA*, then the condition shall be deemed a recognized environmental condition.

8.0 DEVIATIONS

There were no deviations from the ASTM Practice E 1527 standard while conducting this *Phase I ESA* except for the following:

- Historical aerial photographs were not reviewed in five-year increments; and
- Site tax files were not reasonably ascertainable.

9.0 ADDITIONAL INVESTIGATIONS

Consistent with 40 CFR 312 Section 312.31 and ASTM E 1527 Section 12.6.1, an evaluation was conducted to identify whether additional investigations are needed to obtain greater certainty with regard to Site conditions. Based on the evaluation, Phase II ESA sampling and a geophysical survey were conducted at the Site. The findings from the geophysical survey and Phase II ESA sampling have been incorporated into Table 7-1 and included in Appendix E.

Based on the finings of the Phase II ESA, additional investigations are warranted to close the USTs associated with the former gasoline service station.

10.0 DATA GAPS

Consistent with 40 CFR 312 Section 312.20(g) and ASTM E 1527 Section 12.7, a data gap analysis was performed. No significant data gaps were identified associated with information obtained for the *Phase I ESA*.

11.0 ADDITIONAL SERVICES

No additional services were contracted to be performed as part of this *Phase I ESA*.

12.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

This report has been prepared under the direction of Peter M. Krasnoff, P.E., a registered Civil Engineer with over 25 years of environmental assessment and evaluation experience. Mr. Krasnoff received his Master of Science from the University of California at Berkeley in Environmental Engineering and his Bachelor of Civil Engineering from the Georgia Institute of Technology. Mr. Krasnoff has extensive experience in environmental investigations and remediation and has conducted reviews of over 100 sites involving hazardous materials and waste disposal activities. Mr. Krasnoff was supported by Mr. Peter Morris, P.G., a Professional Geologist.

Mr. Morris, a Professional Geologist with over 20 years of environmental assessment and investigating experience, also prepared this *Phase I ESA*. Mr. Morris received his Bachelors of Science degree from the University of California at Davis in Geology and his Masters of Science degree in Civil and Environmental Engineering from George Washington University. Mr. Morris has conducted and supervised numerous site investigations involving the evaluation of hazardous materials and wastes with emphasis on soil and groundwater characterization and remediation.

13.0 REFERENCES

American Society for Testing and Materials (ASTM), *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM E 1527*, November 2013 (ASTM E 1527).

California Department of Water Resources, *California's Groundwater Bulletin 118, San Francisco Bay Hydrologic Region, Santa Clara Valley Groundwater Basin, Santa Clara Subbasin*, February 27, 2004 (DWR, 2004).

California Regional Water Quality Control Board, San Francisco Bay Region, Environmental Screening Levels, December 2013 (Regional Board, 2013).

Environmental Data Resources, Inc., *The EDR Radius Map Report with Geocheck, 400 El Camino Real, Belmont, California*, January 24, 2014 (EDR, 2014).

SMCHS file review, January 2014 (SMCHS, 2014).

State Water Resources Control Board, Geotracker Database (Geotracker 2014).

14.0 DISTRIBUTION LIST

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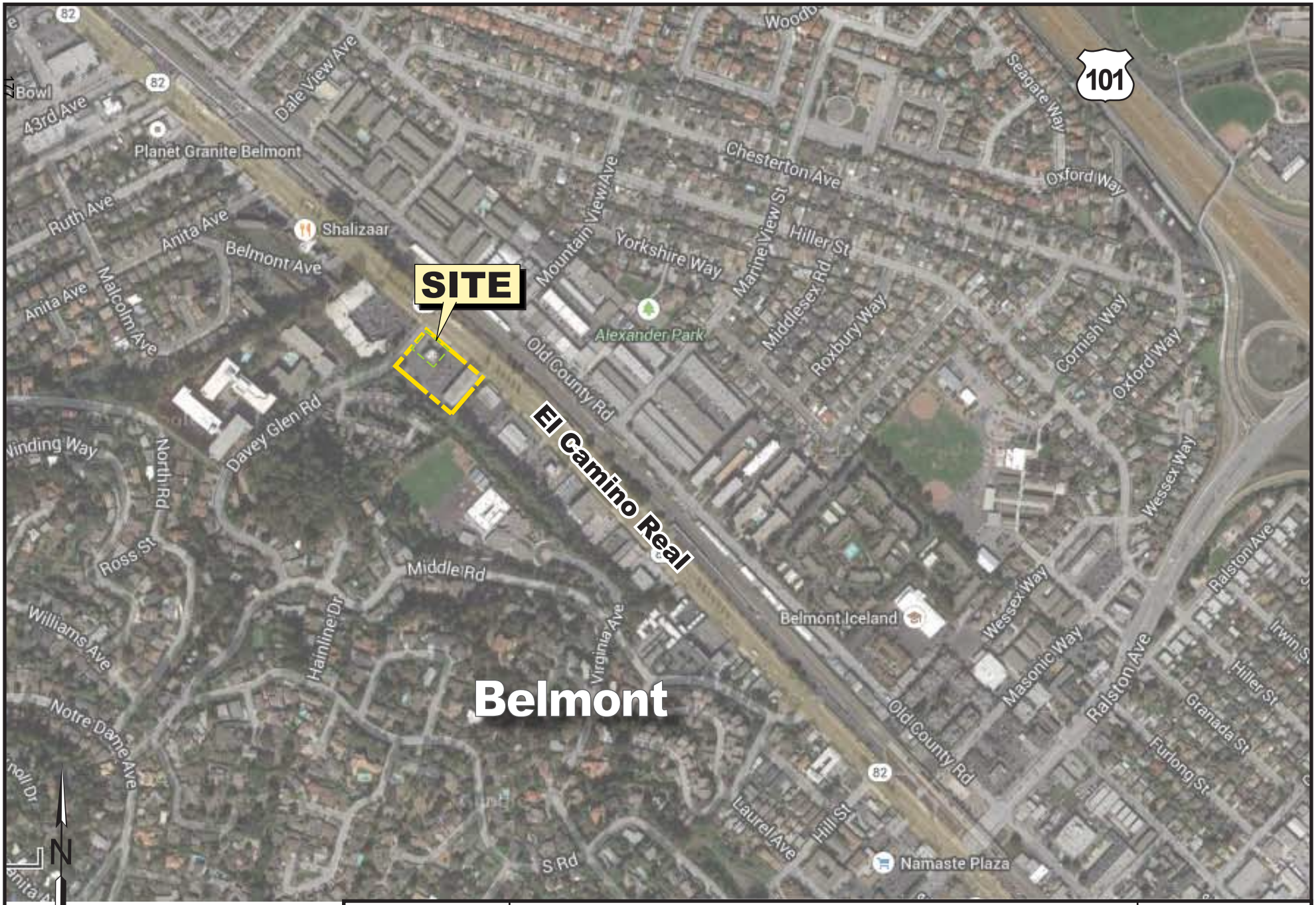
San Mateo, CA 94404

TABLES

TABLE 7-1
SUMMARY OF SITE CONDITIONS
400-490 El Camino Real
Belmont, California

Map ID (Figure 2-1)	Location		FINDINGS (ASTM 1527-13; Section 12.5)											OPINIONS (ASTM 1527-13; Section 12.6)	CONCLUSIONS (Sec. 12.8)			
			History	Known or suspect environmental conditions	Chemicals						Regulatory Closure	Controlled REC	Historical REC	Rationale	Environmental Condition			
															Yes		No	
					TPH	VOCs	SVOCs	Pesticides	Metals	PCBs					Known	Suspect	*de minimis*	No
1	400 El Camino Real	Site	Between the 1960s and 1980s, a gasoline service station operated on the property. In historical aerial photographs a service station building and canopy are observable (EDR, 2014; Appendix B). An interview with the property owner representative indicated that a gasoline service station may have formerly operated on the Site (Appendix D). Information regarding the former gasoline services station operations, underground storage tank (UST) permits or removal were not reasonably ascertainable. In March 2013, a Phase II Environmental Site Assessment (Phase II ESA) was conducted to characterize potential impacts to soil, soil gas and/or groundwater from the former gasoline service station. The Phase II ESA included a geophysical survey and collection of soil and soil gas samples. The geophysical survey included scanning the subsurface using a magnetometer and ground penetrating radar (GPR) to identify subsurface anomalies. The findings of the geophysical survey reveled anomalies along the northwest, northeast and southeast sides of the building including two potential USTs and subsurface piping emanating from the suspected UST anomalies (Figure 2-1). Based on the geophysical survey findings, borings were advanced for sample collection. The borings were advanced: near subsurface piping alignments (W-1, W-2 and W-4) and near suspected USTs (W-3 and W-6). Boring W-5 was advanced along the southwest side of the building. Borings W-1 to W-3 were advanced to approximately 13-feet below ground surface. Drilling refusal was encountered at approximately 13-feet due to the presence of weathered bedrock (Appendix E). Stained soil and petroleum odors were observed during soil removal from the borings (Appendix E). Groundwater was not encountered in borings W-1 to W-3. Soil samples were collected from borings W-1 to W-4 and W-6 between 3-feet and 13-feet below ground surface. Laboratory analysis of the soil samples revealed total petroleum hydrocarbons as gasoline (TPHg) up to 3.51 milligrams per kilogram (mg/kg), which is below the California Regional Water Quality Board-San Francisco Bay Region (Regional Water Board) Environmental Screening Level (ESL) of 100 mg/kg for the protection of groundwater (Appendix E). TPH as diesel (TPHd), benzene, toluene, ethyl benzene and xylenes were not detected in the soil samples above their respective laboratory-reporting limits. Polycyclic aromatic hydrocarbons (PAHs) were detected in the soil samples including: acenaphthene up to 4.03 micrograms per kilogram (ug/kg) (W-3); benzo(a)pyrene up to 4.89 ug/kg (W-1); and naphthalene up to 7.15 ug/kg (W-3), which are below their respective Regional Water Board ESLs (Appendix E). Metals were also detected in soil including arsenic up to 4.57 mg/kg (W-6), which is consistent with background arsenic concentrations in the San Francisco Bay Area up to 11 mg/kg (Regional Water Board 2013). Lead was detected up to 6.56 mg/kg (W-3), which is below the Regional Water Board ESL of 80 mg/kg. Other metals were detected in the soil samples, also at concentrations below their respective Regional Board ESLs (Appendix E). Soil gas samples were also collected near the rear of the building (W-5) and near a suspected waste oil UST. Laboratory analysis of the soil gas gas samples revealed the presence of VOCs including benzene up to 32.1 micrograms per cubic meter (ug/m3), which is below its Regional Water ESL of 81 ug/m3 for building vapor intrusion. Other VOCs were detected in the soil gas samples but at concentrations below their respective screening levels for building vapor intrusion. Discussions with the San Mateo County Environmental Health Department indicated that additional investigations would be needed to close the USTs at the Site.	Potential releases to soil and soil gas from former gasoline service station operations	X	X	X		X					While chemicals were detected in soil and soil gas at concentrations below applicable screening levels, based on the suspected presence of the USTs and associated product piping, lack of documentation regarding the removal and closure of the USTs and discussions with the SMCEHD, the former gasoline service station represents a recognized environmental condition.	X			

FIGURES



0 FEET 500

Source: Google Map

Figure 1-1	SITE LOCATION MAP
August 2014	El Camino Real, Belmont, California

WEST Environmental Services & Technology

0 FEET 100

Figure 2-1

SITE PLAN

August 2014

El Camino Real, Belmont, California

WEST Environmental Services & Technology

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APPENDIX A

STANDARD ENVIRONMENTAL RECORD SOURCES

WEST
Environmental Services & Technology
711 Grand Avenue, Suite 220
San Rafael, California 94901
415.460.6770 • Fax 415.460.6771
main@westenvironmental.com

PHASE I ENVIRONMENTAL SITE ASSESSMENT
USER RESPONSIBILITY QUESTIONNAIRE
ASTM E 1527-13

Date: 01/23/14

Name and Address of User: Sares Regis Group of Northern California, LLC - 901 Mariners Island Blvd #700 San Mateo, CA. 94404

Name and Address of Subject Property: 400 & 490 El Camino Real, Belmont, CA.

Assessor Parcel Number(s): 044-162-150
044-162-160

User's Responsibility: *The purpose of this questionnaire is to identify the possibility of recognized environmental conditions in connection with the subject property known by User of the Phase I ESA.*

Question 1: Environmental liens that are filed or recorded against the property (40 CFR 312.25).

Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property? (Circle answer)

Yes (No)

If Yes, has information been forwarded to Phase I preparer? (Circle answer)

Yes No

Question 2: Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and (vi)).

Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions, or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law? (Circle answer)

Yes (No)

If Yes, has information been forwarded to Phase I preparer? (Circle answer)

Yes No

Question 3: Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.88).

Do you have any specialized knowledge or experience related to the property or nearby properties (For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals or processes used by this type of business)? (Yes) No

If Yes, has information been forwarded to Phase I preparer? Yes No

Question 4: Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? (Circle answer) – No to second question.

To First Question

Yes No

If Yes, has information been forwarded to Phase I preparer? (Circle answer)

Yes No

Question 5: Commonly known or reasonably ascertainable information about the property (40 CFR 312.30)

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example:

Do you know the past uses of the property?

Yes No

Do you know of specific chemicals that are present or once were present at the property?

Yes No

Do you know of spills or other chemical releases that have taken place at the property?

Yes No

Do you know of any environmental cleanups that have taken place at the property?

Yes No

If answered Yes to the above questions, has information been forwarded to the Phase I preparer?

Yes No

<u>Question 6:</u> The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of releases at the property? (Circle Answer)

Yes (No)

If Yes, has information been forwarded to the Phase I preparer?

Yes No

Is any of the following information available regarding the subject property(s)?
(Please check all that apply)

- [ ] Site/Base Maps.
- [x] Assessors Parcel Number(s) [APN]. 044-162-150 & 044-162-160
- [ ] Environment investigation/remediation/closure documents.
- [ ] Environmental permits (for example, solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits).
- [ ] Registrations for underground and aboveground storage tanks.
- [ ] Material safety data sheets.
- [ ] Community right-to-know plan.
- [ ] Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc.
- [ ] Reports regarding hydrogeologic conditions on the property or surrounding area
- [ ] Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property.
- [ ] Hazardous waste generator notices or reports.
- [ ] Geotechnical studies.
- [ ] Information regarding historical site usage, e.g., aerial photographs, infrastructure drawings, utility maps, topographic maps, operations, waste disposal practices.

Planned future development use:

☐ Residential ☐ Commercial ☐ Industrial ☐ Agricultural

Current property zoning/usage:

☐ Residential ☐ Commercial ☐ Industrial ☐ Agricultural

Has above information been forwarded to Phase I preparer? Yes No

Davey Glen
400 EL CAMINO REAL
Belmont, CA 94002

Inquiry Number: 3838499.2s
January 24, 2014

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

FORM-LBB-KTV

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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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 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

400 EL CAMINO REAL
BELMONT, CA 94002

COORDINATES

Latitude (North):	37.5261000 - 37˚ 31' 33.96''
Longitude (West):	122.2835000 - 122˚ 17' 0.60''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	563311.4
UTM Y (Meters):	4153273.5
Elevation:	64 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	37122-E3 SAN MATEO, CA
Most Recent Revision:	1999

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2012
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 CERCLIS NFRAP site List

CERC-NFRAP ..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls
LUCIS ..... Land Use Control Information System

Federal ERNS list

ERNS ..... Emergency Response Notification System

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

UST ..... Active UST Facilities
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

EXECUTIVE SUMMARY

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
SWRCY ..... Recycler Database
HAULERS ..... Registered Waste Tire Haulers Listing
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ..... Clandestine Drug Labs
SCH ..... School Property Evaluation Program
Toxic Pits ..... Toxic Pits Cleanup Act Sites
CDL ..... Clandestine Drug Labs
US HIST CDL ..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

CA FID UST ..... Facility Inventory Database

Local Land Records

LIENS 2 ..... CERCLA Lien Information
LIENS ..... Environmental Liens Listing
DEED ..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
CHMIRS ..... California Hazardous Material Incident Report System
LDS ..... Land Disposal Sites Listing
MCS ..... Military Cleanup Sites Listing
SPILLS 90 ..... SPILLS 90 data from FirstSearch

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
US MINES ..... Mines Master Index File
TRIS ..... Toxic Chemical Release Inventory System
TSCA ..... Toxic Substances Control Act

EXECUTIVE SUMMARY

FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
CA BOND EXP. PLAN	Bond Expenditure Plan
UIC	UIC Listing
NPDES	NPDES Permits Listing
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
Notify 65	Proposition 65 Records
DRYCLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
ENF	Enforcement Action Listing
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
2020 COR ACTION	2020 Corrective Action Program List
LEAD SMELTERS	Lead Smelter Sites
WDS	Waste Discharge System
US AIRS	Aerometric Information Retrieval System Facility Subsystem
PRP	Potentially Responsible Parties
PROC	Certified Processors Database
MWMP	Medical Waste Management Program Listing
HWT	Registered Hazardous Waste Transporter Database
HWP	EnviroStor Permitted Facilities Listing
COAL ASH DOE	Steam-Electric Plant Operation Data
US FIN ASSUR	Financial Assurance Information
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
Financial Assurance	Financial Assurance Information Listing
EPA WATCH LIST	EPA WATCH LIST

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

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 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 09/10/2013 has revealed that there are 4 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CENTER CLEANERS & DRAPERY	***390 EL CAMINO REAL UNIT***	***NW 0 - 1/8 (0.118 mi.)***	***E24***	***19***
METAL FUSION INC	***570-A MARINE VIEW***	***E 1/8 - 1/4 (0.168 mi.)***	***I37***	***32***
S & B AUTOMOTIVE	***230 OLD COUNTY RD***	***NNW 1/8 - 1/4 (0.187 mi.)***	***J41***	***35***
CIRCRAFT INC	***519 MARINE VIEW DR***	***E 1/8 - 1/4 (0.218 mi.)***	***K47***	***40***

State- and tribal - equivalent NPL

RESPONSE: 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.

A review of the RESPONSE list, as provided by EDR, and dated 11/06/2013 has revealed that there is 1 RESPONSE site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WESTERN GRINDING SERVICE INC	***601 HARBOR BLVD***	***SE 1/2 - 1 (0.899 mi.)***	***66***	***78***

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 11/06/2013 has revealed that there are 5 ENVIROSTOR sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WESTPORT DEVELOPMENT PROJECT Status: Refer: Other Agency	HIGHWAY 101 AND MARINE	E 1/2 - 1 (0.747 mi.)	64	73
BELMONT Status: Refer: RCRA	***511 O'NEIL AVE***	***ESE 1/2 - 1 (0.759 mi.)***	***65***	***74***
WESTERN GRINDING SERVICE INC Status: Certified	***601 HARBOR BLVD***	***SE 1/2 - 1 (0.899 mi.)***	***66***	***78***
TEXACO, INC Status: Refer: RCRA	475 HARBOR BLVD.	ESE 1/2 - 1 (0.915 mi.)	67	87
WESGO, INC. Status: Inactive - Needs Evaluation	477 HARBOR BOULEVARD	ESE 1/2 - 1 (0.942 mi.)	68	88

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 12/16/2013 has revealed that there are 15 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
U-HAUL CENTER	***554 EL CAMINO REAL***	***SE 1/8 - 1/4 (0.159 mi.)***	***H31***	***22***
BELMONT U-HAUL CENTER Status: Completed - Case Closed	***554 EL CAMINO REAL***	***SE 1/8 - 1/4 (0.159 mi.)***	***H32***	***23***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PKS CLEANERS	***390 EL CAMINO REAL***	***NW 0 - 1/8 (0.118 mi.)***	***E22***	***18***
HOWARD TIRE SERVICE Status: Completed - Case Closed	***120 EL CAMINO REAL***	***NW 1/4 - 1/2 (0.297 mi.)***	***51***	***44***
NATIONAL AUTO SERVICES Status: Open - Site Assessment	***4095 PACIFIC***	***NW 1/4 - 1/2 (0.366 mi.)***	***L52***	***47***
NATIONAL AUTO SERVICES	4095 PACIFIC	NW 1/4 - 1/2 (0.366 mi.)	L53	56
QUAN PROPERTY	***847 OLD COUNTY RD***	***SE 1/4 - 1/2 (0.395 mi.)***	***54***	***57***
CARSTENS REALITY INC	***49 42ND***	***NW 1/4 - 1/2 (0.461 mi.)***	***M55***	***58***
CARSTENS REALTY INC	***49 W 42ND AVE***	***NW 1/4 - 1/2 (0.461 mi.)***	***M56***	***58***
CARSTENS REALTY INC Status: Completed - Case Closed	***49 WEST 42ND AVENUE***	***WNW 1/4 - 1/2 (0.463 mi.)***	***M57***	***59***
SHELL Status: Completed - Case Closed	***4140 EL CAMINO REAL***	***NW 1/4 - 1/2 (0.466 mi.)***	***58***	***60***
BLUE BIRD CLEANERS	***60 WEST 42 AVENUE***	***WNW 1/4 - 1/2 (0.478 mi.)***	***60***	***63***
VANCEA AUTO SERVICES	900 EL CAMINO REAL	SE 1/4 - 1/2 (0.480 mi.)	N61	68

Lower Elevation	Address	Direction / Distance	Map ID	Page
VANCEA AUTO SERVICES Status: Completed - Case Closed	***900 EL CAMINO REAL***	***SE 1/4 - 1/2 (0.480 mi.)***	***N62***	***69***
POST OFFICE PARLOR Status: Completed - Case Closed	***935 OLD COUNTY RD***	***SE 1/4 - 1/2 (0.490 mi.)***	***63***	***71***

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 12/16/2013 has revealed that there are 4 SLIC sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PKS CLEANERS Facility Status: Completed - Case Closed	***390 EL CAMINO REAL***	***NW 0 - 1/8 (0.118 mi.)***	***E22***	***18***
CIRCRAFT INC Facility Status: Open - Inactive	519 C MARINE VIEW AVE	ENE 1/4 - 1/2 (0.256 mi.)	50	43
QUAN PROPERTY Facility Status: Open - Inactive	***847 OLD COUNTY RD***	***SE 1/4 - 1/2 (0.395 mi.)***	***54***	***57***
BLUE BIRD CLEANERS Facility Status: Open - Assessment & Interim Remedial Action	56 - 60 WEST 42ND AVENU	WNW 1/4 - 1/2 (0.474 mi.)	M59	62

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 HIST Cal-Sites site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WESTERN GRINDING SERVICE INC	***601 HARBOR BLVD***	***SE 1/2 - 1 (0.899 mi.)***	***66***	***78***

Local Lists of Registered Storage Tanks

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
BELMONT U-HAUL CENTER	***554 EL CAMINO REAL***	***SE 1/8 - 1/4 (0.159 mi.)***	***H32***	***23***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CIRCRAFT, INC.	519 MARINE VIEW ST	E 1/8 - 1/4 (0.216 mi.)	K46	40

Lower Elevation	Address	Direction / Distance	Map ID	Page
CIRCRAFT INC	*519 MARINE VIEW DR*	*E 1/8 - 1/4 (0.218 mi.)*	*K47*	*40*

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 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
U-HAUL CENTER	*554 EL CAMINO REAL*	*SE 1/8 - 1/4 (0.159 mi.)*	*H31*	*22*
BELMONT U-HAUL CENTER	*554 EL CAMINO REAL*	*SE 1/8 - 1/4 (0.159 mi.)*	*H32*	*23*

Other Ascertainable Records

RCRA NonGen / NLR: 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 / NLR list, as provided by EDR, and dated 09/10/2013 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ETCHED CIRCUITS INC	*604 MT VIEW AVE*	*NE 0 - 1/8 (0.113 mi.)*	*C19*	*15*

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 6 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
U-HAUL CENTER	*554 EL CAMINO REAL*	*SE 1/8 - 1/4 (0.159 mi.)*	*H31*	*22*

Lower Elevation	Address	Direction / Distance	Map ID	Page
HOWARD TIRE SERVICE	*120 EL CAMINO REAL*	*NW 1/4 - 1/2 (0.297 mi.)*	*51*	*44*
NATIONAL AUTO SERVICES	*4095 PACIFIC*	*NW 1/4 - 1/2 (0.366 mi.)*	*L52*	*47*
QUAN PROPERTY	*847 OLD COUNTY RD*	*SE 1/4 - 1/2 (0.395 mi.)*	*54*	*57*
CARSTENS REALITY INC	*49 42ND*	*NW 1/4 - 1/2 (0.461 mi.)*	*M55*	*58*
SHELL	*4140 EL CAMINO REAL*	*NW 1/4 - 1/2 (0.466 mi.)*	*58*	*60*

EXECUTIVE SUMMARY

Hazardous Materials Business Plan, Hazardous Waste Generator, Underground Storage tanks

A review of the San Mateo Co. BI list, as provided by EDR, and dated 10/01/2013 has revealed that there are 29 San Mateo Co. BI sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BELMONT U-HAUL CENTER	***554 EL CAMINO REAL***	***SE 1/8 - 1/4 (0.159 mi.)***	***H32***	***23***

Lower Elevation	Address	Direction / Distance	Map ID	Page
BOLAR CEILINGS	401 OLD COUNTY	NE 0 - 1/8 (0.069 mi.)	A1	8
NORSCO INC	403 OLD COUNTY	NE 0 - 1/8 (0.069 mi.)	A2	8
BENCO PRECISION MACHINING	405A OLD COUNTY	NE 0 - 1/8 (0.069 mi.)	A3	8
HOPE LABORATORIES	409 OLD COUNTY	ENE 0 - 1/8 (0.070 mi.)	A4	9
ALLIANCE GAS PRODUCTS	411 OLD COUNTY	ENE 0 - 1/8 (0.070 mi.)	A5	9
J & L AUTO REPAIR	314 OLD COUNTY	N 0 - 1/8 (0.098 mi.)	B9	10
S G BARBER CONSTRUCTION INC	325 OLD COUNTY	N 0 - 1/8 (0.103 mi.)	B10	11
PETES AUTO BODY SHOP INC	302 OLD COUNTY	N 0 - 1/8 (0.107 mi.)	B11	11
HARBOLD GEAR WORKS, INC	620 MOUNTAIN VIEW	NE 0 - 1/8 (0.108 mi.)	C13	12
DMC AUTO REPAIR	319 OLD COUNTY	N 0 - 1/8 (0.109 mi.)	B14	13
MICATEC INC	617 MOUNTAIN VIEW	NE 0 - 1/8 (0.110 mi.)	C15	13
SUMMIT AUTO BODY & PAINTING	317 OLD COUNTY	N 0 - 1/8 (0.110 mi.)	B16	13
QUALITY STRIPING INC	610 MOUNTAIN VIEW	NE 0 - 1/8 (0.113 mi.)	C18	15
SPITERIS AUTO SERVICE	292 OLD COUNTY	NNW 0 - 1/8 (0.115 mi.)	D21	17
PKS CLEANERS	***390 EL CAMINO REAL***	***NW 0 - 1/8 (0.118 mi.)***	***E22***	***18***
C & L CONCRETE PUMPING INC	555 MOUNTAIN VIEW	NE 1/8 - 1/4 (0.139 mi.)	F26	21
ABEL MACHINING	539 MOUNTAIN VIEW	NE 1/8 - 1/4 (0.146 mi.)	F28	21
ORSBORN MACHINING	525 MOUNTAIN VIEW	NE 1/8 - 1/4 (0.153 mi.)	F29	22
SILVER STAR AUTO BODY	***252 OLD COUNTY ROAD***	***NNW 1/8 - 1/4 (0.161 mi.)***	***G34***	***28***
ALTERNATOR STARTER EXCHANGE	570 MARINE VIEW	E 1/8 - 1/4 (0.168 mi.)	I36	32
BIRDIE BERT PRINTING	550 MARINE VIEW	E 1/8 - 1/4 (0.186 mi.)	38	33
AUTO CARE OF REDWOOD SHORES	230 OLD COUNTY	NNW 1/8 - 1/4 (0.187 mi.)	J40	34
S & B AUTOMOTIVE	***230 OLD COUNTY RD***	***NNW 1/8 - 1/4 (0.187 mi.)***	***J41***	***35***
BELMONT TIRES, WHEELS & SERVIC	564 EL CAMINO REAL	SE 1/8 - 1/4 (0.198 mi.)	42	37
SANDS OF TIME	530 MARINE VIEW	E 1/8 - 1/4 (0.205 mi.)	K43	38
CIRCRAFT, INC	***521 MARINE VIEW AVE***	***E 1/8 - 1/4 (0.214 mi.)***	***K45***	***39***
HELD PAINTING	517 MARINE VIEW	E 1/8 - 1/4 (0.218 mi.)	K48	43
KELLY MOORE PAINTS	201 OLD COUNTY	NNW 1/8 - 1/4 (0.241 mi.)	49	43

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 11 EDR US

Hist Auto Stat sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	425 OLD COUNTY RD	ENE 0 - 1/8 (0.072 mi.)	A6	9
Not reported	320 OLD COUNTY RD	N 0 - 1/8 (0.094 mi.)	B7	9
Not reported	314 OLD COUNTY RD	N 0 - 1/8 (0.098 mi.)	B8	10
Not reported	302 OLD COUNTY RD	N 0 - 1/8 (0.107 mi.)	B12	11
Not reported	317 OLD COUNTY RD	N 0 - 1/8 (0.110 mi.)	B17	14
Not reported	292 OLD COUNTY RD	NNW 0 - 1/8 (0.115 mi.)	D20	16
Not reported	555 MOUNTAIN VIEW AVE	NE 1/8 - 1/4 (0.139 mi.)	F27	21
Not reported	256 OLD COUNTY RD	NNW 1/8 - 1/4 (0.156 mi.)	G30	22
Not reported	252 OLD COUNTY RD	NNW 1/8 - 1/4 (0.161 mi.)	G33	27
Not reported	250 OLD COUNTY RD	NNW 1/8 - 1/4 (0.163 mi.)	G35	31
Not reported	230 OLD COUNTY RD	NNW 1/8 - 1/4 (0.187 mi.)	J39	34

EDR US Hist Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there are 3 EDR US Hist Cleaners sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	390 EL CAMINO REAL	NW 0 - 1/8 (0.118 mi.)	E23	19
Not reported	573 MOUNTAIN VIEW AVE	NE 1/8 - 1/4 (0.130 mi.)	C25	21
Not reported	404 HILLER ST	NE 1/8 - 1/4 (0.212 mi.)	44	38

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LUST: The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists.

A review of the RGA LUST list, as provided by EDR, has revealed that there are 11 RGA LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BELMONT U-HAUL CENTER	***554 EL CAMINO REAL***	***SE 1/8 - 1/4 (0.159 mi.)***	***H32***	***23***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PKS CLEANERS	***390 EL CAMINO REAL***	***NW 0 - 1/8 (0.118 mi.)***	***E22***	***18***
HOWARD TIRE SERVICE	***120 EL CAMINO REAL***	***NW 1/4 - 1/2 (0.297 mi.)***	***51***	***44***
NATIONAL AUTO SERVICES	***4095 PACIFIC***	***NW 1/4 - 1/2 (0.366 mi.)***	***L52***	***47***
QUAN PROPERTY	***847 OLD COUNTY RD***	***SE 1/4 - 1/2 (0.395 mi.)***	***54***	***57***

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
CARSTENS REALITY INC	*49 42ND*	*NW 1/4 - 1/2 (0.461 mi.)*	*M55*	*58*
CARSTENS REALTY INC	*49 W 42ND AVE*	*NW 1/4 - 1/2 (0.461 mi.)*	*M56*	*58*
CARSTENS REALTY INC	*49 WEST 42ND AVENUE*	*WNW 1/4 - 1/2 (0.463 mi.)*	*M57*	*59*
SHELL	*4140 EL CAMINO REAL*	*NW 1/4 - 1/2 (0.466 mi.)*	*58*	*60*
VANCEA AUTO SERVICES	*900 EL CAMINO REAL*	*SE 1/4 - 1/2 (0.480 mi.)*	*N62*	*69*
POST OFFICE PARLOR	*935 OLD COUNTY RD*	*SE 1/4 - 1/2 (0.490 mi.)*	*63*	*71*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
	RGA LUST
	RGA LUST
JIFFY LUBE #3610	HIST CORTESE, LUST, LOS ANGELES CO. HMS
MARINA LAGOON PUMP STATION	CA FID UST, SWEEPS UST, CHMIRS, San Mateo Co. BI
PROTO METALS	CERCLIS
REDWOOD SHORE LANDFILL	CERC-NFRAP
RANCHO PULGAS PUMPING SITE	San Mateo Co. BI
T MOBILE WEST CORP SITE ID SF03091	San Mateo Co. BI
PLASTIC SMITH, THE	San Mateo Co. BI
SPRINT NEXTEL SF36XC070	San Mateo Co. BI
SPRINT NEXTEL CA2101	San Mateo Co. BI
NEXTEL- SITE ID CA-0868	San Mateo Co. BI
SAN CARLOS/BELMONT GRADE SEPARATIO	San Mateo Co. BI
CELL SITE FS04 X C320	San Mateo Co. BI
SPRINT NEXTEL CELL SITE SF54XC250	San Mateo Co. BI
VERIZON WIRELESS-HWY 280/EDGEWOOD	San Mateo Co. BI
BIG O TIRES & SERVICE CTR	San Mateo Co. BI
CURUSIS INVESTMENTS LTD	San Mateo Co. BI
PULGAS WATER TEMPLE	San Mateo Co. BI
	RGA LF

OVERVIEW MAP - 3838499.2s

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites

0 1/4 1/2 1 Miles

- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Davey Glen	CLIENT: WEST
ADDRESS: 400 EL CAMINO REAL	CONTACT: Peter Morris
19 Belmont CA 94002	INQUIRY #: 3838499.2s
LAT/LONG: 37.5261 / 122.2835	DATE: January 24, 2014 3:13 pm

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DETAIL MAP - 3838499.2s

0 1/16 1/8 1/4 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
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 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: Davey Glen	CLIENT: WEST
ADDRESS: 400 EL CAMINO REAL	CONTACT: Peter Morris
Belmont CA 94002	INQUIRY #: 3838499.2s
LAT/LONG: 37.5261 / 122.2835	DATE: January 24, 2014 3:15 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		1	3	NR	NR	NR	4
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	1	NR	1
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	5	NR	5
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	2	12	NR	NR	15

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SLIC	0.500		1	0	3	NR	NR	4
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		0	0	NR	NR	NR	0
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	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	1	NR	1
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		0	0	NR	NR	NR	0
HIST UST	0.250		0	3	NR	NR	NR	3
SWEEPS UST	0.250		0	2	NR	NR	NR	2
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	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
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
UIC	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		0	1	5	NR	NR	6
CUPA Listings	0.250		0	0	NR	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
San Mateo Co. BI	0.250		15	14	NR	NR	NR	29
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
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	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
HWT	0.250		0	0	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		6	5	NR	NR	NR	11
EDR US Hist Cleaners	0.250		1	2	NR	NR	NR	3
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.500		0	0	0	NR	NR	0
RGA LUST	0.500		1	1	9	NR	NR	11

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 NE < 1/8 0.069 mi. 364 ft. | **BOLAR CEILINGS 401 OLD COUNTY BELMONT, CA 94002** | **San Mateo Co. BI** | **S103171144 N/A**

Site 1 of 6 in cluster A

Relative: Lower

Actual: 35 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0024777
Prog Element Code:	BUSINESS PLAN - GENERAL
Record Id:	PR0067389
Description:	BUSINESS PLAN - GENERAL
Region:	SAN MATEO
Facility ID:	FA0024777
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0030401
Description:	GENERATES <27 GAL/YEAR

A2 NE < 1/8 0.069 mi. 365 ft. | **NORSCO INC 403 OLD COUNTY BELMONT, CA 94002** | **San Mateo Co. BI** | **S100869123 N/A**

Site 2 of 6 in cluster A

Relative: Lower

Actual: 35 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0011112
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0010906
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT
Region:	SAN MATEO
Facility ID:	FA0011112
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0003564
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF

A3 NE < 1/8 0.069 mi. 366 ft. | **BENCO PRECISION MACHINING 405A OLD COUNTY BELMONT, CA 94002** | **San Mateo Co. BI** | **S110376340 N/A**

Site 3 of 6 in cluster A

Relative: Lower

Actual: 35 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0024525
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0029275
Description:	GENERATES <27 GAL/YEAR

A4
ENE
< 1/8
0.070 mi.
368 ft.

HOPE LABORATORIES
409 OLD COUNTY
BELMONT, CA 94002

San Mateo Co. BI **S107472780**
N/A

Site 4 of 6 in cluster A

Relative:
Lower

Actual:
35 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0029360
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0049867
Description:	GENERATES <27 GAL/YEAR
Region:	SAN MATEO
Facility ID:	FA0029360
Prog Element Code:	STORES MV FUELS OR WASTE ONLY
Record Id:	PR0049866
Description:	STORES MV FUELS OR WASTE ONLY

A5
ENE
< 1/8
0.070 mi.
370 ft.

ALLIANCE GAS PRODUCTS
411 OLD COUNTY
BELMONT, CA 94002

San Mateo Co. BI **S103171146**
N/A

Site 5 of 6 in cluster A

Relative:
Lower

Actual:
35 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0011285
Prog Element Code:	STORES HAZ MAT <3,499GAL,27,999LB,13,999FT3
Record Id:	PR0003566
Description:	STORES HAZ MAT <3,499GAL,27,999LB,13,999CF

A6
ENE
< 1/8
0.072 mi.
382 ft.

425 OLD COUNTY RD
BELMONT, CA 94002

EDR US Hist Auto Stat **1015489414**
N/A

Site 6 of 6 in cluster A

Relative:
Lower

Actual:
34 ft.

EDR Historical Auto Stations:

Name:	EDS AUTO
Year:	2001
Address:	425 OLD COUNTY RD

B7
North
< 1/8
0.094 mi.
498 ft.

320 OLD COUNTY RD
BELMONT, CA 94002

EDR US Hist Auto Stat **1015421544**
N/A

Site 1 of 9 in cluster B

Relative:
Lower

Actual:
31 ft.

EDR Historical Auto Stations:

Name:	SUMMIT AUTO BODY & PAINTING
Year:	2001
Address:	320 OLD COUNTY RD
Name:	SUMMIT AUTO BODY & PAINTING
Year:	2002
Address:	320 OLD COUNTY RD

(Continued) **1015421544**

Name: SUMMIT AUTO BODY & PAINTING
Year: 2003
Address: 320 OLD COUNTY RD

B8 **EDR US Hist Auto Stat** **1015416892**
North **314 OLD COUNTY RD** **N/A**
< 1/8 **BELMONT, CA 94002**
0.098 mi.
520 ft. **Site 2 of 9 in cluster B**

Relative:
Lower

Actual:
29 ft.

EDR Historical Auto Stations:

Name: J & L AUTO REPAIR
Year: 1999
Address: 314 OLD COUNTY RD

Name: J & L AUTO REPAIR
Year: 2000
Address: 314 OLD COUNTY RD

Name: J & L AUTO REPAIR
Year: 2001
Address: 314 OLD COUNTY RD

Name: J & L AUTO REPAIR
Year: 2002
Address: 314 OLD COUNTY RD

Name: PETES AUTO BODY SHOP INC
Year: 2007
Address: 314 OLD COUNTY RD

Name: PETES AUTO BODY SHOP INC
Year: 2008
Address: 314 OLD COUNTY RD

B9 **J & L AUTO REPAIR** **San Mateo Co. BI** **S106981489**
North **314 OLD COUNTY** **N/A**
< 1/8 **BELMONT, CA 94002**
0.098 mi.
520 ft. **Site 3 of 9 in cluster B**

Relative:
Lower

Actual:
29 ft.

San Mateo Co. BI:

Region: SAN MATEO
Facility ID: FA0017061
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0010816
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT

Region: SAN MATEO
Facility ID: FA0017061
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0003567
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF

B10 **S G BARBER CONSTRUCTION INC** **San Mateo Co. BI** **S106981976**
North **325 OLD COUNTY** **N/A**
< 1/8 **BELMONT, CA 94002**
0.103 mi.
546 ft. **Site 4 of 9 in cluster B**

Relative:
Lower

Actual:
27 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0025050
Prog Element Code:	STORES HAZ MAT <3,499GAL,27,999LB,13,999FT3
Record Id:	PR0032339
Description:	STORES HAZ MAT <3,499GAL,27,999LB,13,999CF

B11 **PETES AUTO BODY SHOP INC** **San Mateo Co. BI** **S103892089**
North **302 OLD COUNTY** **N/A**
< 1/8 **BELMONT, CA 94002**
0.107 mi.
565 ft. **Site 5 of 9 in cluster B**

Relative:
Lower

Actual:
26 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0025275
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0033619
Description:	GENERATES <27 GAL/YEAR
Region:	SAN MATEO
Facility ID:	FA0025275
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0043619
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF

B12 **EDR US Hist Auto Stat** **1015404059**
North **302 OLD COUNTY RD** **N/A**
< 1/8 **BELMONT, CA 94002**
0.107 mi.
565 ft. **Site 6 of 9 in cluster B**

Relative:
Lower

Actual:
26 ft.

EDR Historical Auto Stations:

Name:	PETES AUTO BODY SHOP
Year:	1999
Address:	302 OLD COUNTY RD
Name:	PETES AUTO BODY SHOP
Year:	2000
Address:	302 OLD COUNTY RD
Name:	PETES AUTO BODY SHOP
Year:	2001
Address:	302 OLD COUNTY RD
Name:	PETES AUTO BODY SHOP
Year:	2002
Address:	302 OLD COUNTY RD
Name:	PETES AUTO BODY SHOP
Year:	2003
Address:	302 OLD COUNTY RD

(Continued) **1015404059**

Name: PETES AUTO BODY SHOP
Year: 2004
Address: 302 OLD COUNTY RD

Name: PETES BODY SHOP
Year: 2006
Address: 302 OLD COUNTY RD

Name: PETES AUTO BODY SHOP
Year: 2007
Address: 302 OLD COUNTY RD

Name: PETES AUTO BODY SHOP
Year: 2008
Address: 302 OLD COUNTY RD

Name: PETES AUTO BODY SHOP
Year: 2009
Address: 302 OLD COUNTY RD

Name: PETES AUTO BODY SHOP
Year: 2010
Address: 302 OLD COUNTY RD

Name: PETES AUTO BODY SHOP
Year: 2011
Address: 302 OLD COUNTY RD

Name: PETES AUTO BODY SHOP
Year: 2012
Address: 302 OLD COUNTY RD

C13 **HARBOLD GEAR WORKS, INC** **San Mateo Co. BI** **S103667124**
NE **620 MOUNTAIN VIEW** **N/A**
< 1/8 **BELMONT, CA 94002**
0.108 mi.
570 ft. **Site 1 of 5 in cluster C**

Relative:
Lower

Actual:
21 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0002638
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0010838
Description: GENERATES <27 GAL/YEAR

Region: SAN MATEO
Facility ID: FA0002638
Prog Element Code: LESS THAN 500 TIRES
Record Id: PR0045094
Description: LESS THAN 500 TIRES

Region: SAN MATEO
Facility ID: FA0002638
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0003562
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF

B14 North < 1/8 0.109 mi. 573 ft. | **DMC AUTO REPAIR 319 OLD COUNTY BELMONT, CA 94002** | **San Mateo Co. BI** | **S113759181 N/A**

Site 7 of 9 in cluster B

Relative: Lower

Actual: 26 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0053712
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0074221
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT
Region:	SAN MATEO
Facility ID:	FA0053712
Prog Element Code:	LESS THAN 500 TIRES
Record Id:	PR0074218
Description:	LESS THAN 500 TIRES
Region:	SAN MATEO
Facility ID:	FA0053712
Prog Element Code:	STORES MV FUELS OR WASTE ONLY
Record Id:	PR0074220
Description:	STORES MV FUELS OR WASTE ONLY

C15 NE < 1/8 0.110 mi. 580 ft. | **MICATEC INC 617 MOUNTAIN VIEW BELMONT, CA 94002** | **San Mateo Co. BI** | **S103171143 N/A**

Site 2 of 5 in cluster C

Relative: Lower

Actual: 21 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0024729
Prog Element Code:	BUSINESS PLAN - GENERAL
Record Id:	PR0071877
Description:	BUSINESS PLAN - GENERAL
Region:	SAN MATEO
Facility ID:	FA0024729
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0029977
Description:	GENERATES <27 GAL/YEAR

B16 North < 1/8 0.110 mi. 583 ft. | **SUMMIT AUTO BODY & PAINTING 317 OLD COUNTY BELMONT, CA 94002** | **San Mateo Co. BI** | **S105428859 N/A**

Site 8 of 9 in cluster B

Relative: Lower

Actual: 25 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0002639
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0010839
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT
Region:	SAN MATEO

SUMMIT AUTO BODY & PAINTING (Continued) **S105428859**

Facility ID: FA0002639
Prog Element Code: LESS THAN 500 TIRES
Record Id: PR0045090
Description: LESS THAN 500 TIRES

Region: SAN MATEO
Facility ID: FA0002639
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0003565
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF

B17 **EDR US Hist Auto Stat** **1015419292**
North **317 OLD COUNTY RD** **N/A**
< 1/8 **BELMONT, CA 94002**
0.110 mi.
583 ft. **Site 9 of 9 in cluster B**

Relative:
Lower

Actual:
25 ft.

EDR Historical Auto Stations:

Name: SUMMIT AUTO BODY
Year: 2002
Address: 317 OLD COUNTY RD

Name: SUMMIT AUTO BODY & PAINTING
Year: 2004
Address: 317 OLD COUNTY RD

Name: SUMMIT AUTO BODY & PAINTING
Year: 2005
Address: 317 OLD COUNTY RD

Name: SUMMIT AUTO BODY & PAINTING
Year: 2006
Address: 317 OLD COUNTY RD

Name: SUMMIT AUTOBODY & PAINTING
Year: 2009
Address: 317 OLD COUNTY RD

Name: SUMMIT AUTO BODY & PAINTING
Year: 2010
Address: 317 OLD COUNTY RD

Name: SUMMIT AUTO BODY & PAINTING
Year: 2011
Address: 317 OLD COUNTY RD

Name: SUMMIT AUTO BODY & PAINTING
Year: 2012
Address: 317 OLD COUNTY RD

C18 NE < 1/8 0.113 mi. 595 ft. | **QUALITY STRIPING INC**
610 MOUNTAIN VIEW
BELMONT, CA 94002 | **San Mateo Co. BI** | **S108540469**
N/A

Site 3 of 5 in cluster C

Relative: Lower

Actual: 21 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0034705
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0052749
Description:	GENERATES <27 GAL/YEAR
Region:	SAN MATEO
Facility ID:	FA0034705
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0052748
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF

C19 NE < 1/8 0.113 mi. 596 ft. | **ETCHED CIRCUITS INC**
604 MT VIEW AVE
BELMONT, CA 94002 | **RCRA NonGen / NLR**
FINDS | **1000240224**
CAD009449638

Site 4 of 5 in cluster C

Relative: Lower

Actual: 21 ft.

RCRA NonGen / NLR:

Date form received by agency:	08/19/1980
Facility name:	ETCHED CIRCUITS INC
Facility address:	604 MT VIEW AVE BELMONT, CA 94002
EPA ID:	CAD009449638
Mailing address:	MT VIEW AVE BELMONT, CA 94002
Contact:	ENVIRONMENTAL MANAGER
Contact address:	604 MT VIEW AVE BELMONT, CA 94002
Contact country:	US
Contact telephone:	(415) 591-8987
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:	FRED NEERMANN
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

ETCHED CIRCUITS INC (Continued) **1000240224**

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): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
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

Violation Status: No violations found

FINDS:

Registry ID: 110002636522

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.

D20 **EDR US Hist Auto Stat** **1015394044**
NNW **292 OLD COUNTY RD** **N/A**
< 1/8 **BELMONT, CA 94002**
0.115 mi.
606 ft. **Site 1 of 2 in cluster D**

Relative:
Lower

Actual:
25 ft.

EDR Historical Auto Stations:
Name: SPITERIS AUTO SERVICE
Year: 1999
Address: 292 OLD COUNTY RD

Name: SPITERIS AUTO SERVICE
Year: 2000
Address: 292 OLD COUNTY RD

Name: SPITERIS AUTO SERVICE
Year: 2001
Address: 292 OLD COUNTY RD

Name: SPITERIS AUTO SERVICE
Year: 2002

(Continued) **1015394044**

Address: 292 OLD COUNTY RD

Name: SPITERIS AUTO SERVICE
Year: 2003
Address: 292 OLD COUNTY RD

Name: SPITERIS AUTO SERVICE
Year: 2004
Address: 292 OLD COUNTY RD

Name: SPITERIS AUTO SERVICE
Year: 2006
Address: 292 OLD COUNTY RD

Name: SPITERIS AUTO SERVICE
Year: 2007
Address: 292 OLD COUNTY RD

Name: SPITERIS AUTO SVC
Year: 2010
Address: 292 OLD COUNTY RD

Name: SPITERIS AUTO SERVICE
Year: 2011
Address: 292 OLD COUNTY RD

Name: SPITERIS AUTO SERVICE
Year: 2012
Address: 292 OLD COUNTY RD

D21 **SPITERIS AUTO SERVICE** **San Mateo Co. BI** **S100874802**
NNW **292 OLD COUNTY** **N/A**
< 1/8 **BELMONT, CA 94002**
0.115 mi.
606 ft. **Site 2 of 2 in cluster D**

Relative:
Lower

Actual:
25 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0017117
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0010855
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT

Region: SAN MATEO
Facility ID: FA0017117
Prog Element Code: LESS THAN 500 TIRES
Record Id: PR0045089
Description: LESS THAN 500 TIRES

Region: SAN MATEO
Facility ID: FA0017117
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0003509
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF

E22 NW < 1/8 0.118 mi. 621 ft. | **PKS CLEANERS 390 EL CAMINO REAL BELMONT, CA 94002** | **LUST SLIC San Mateo Co. BI RGA LUST** | **S106981494 N/A**

Site 1 of 3 in cluster E

Relative: Lower

Actual: 43 ft.

SAN MATEO CO. LUST:

Region:	SAN MATEO
Facility ID:	129039
Facility Status:	9- Case Closed
Global ID:	T0608116353
APN Number:	044163070
Case Type:	SAN MATEO CO. LUST
EDR Link ID:	SAN MATEO CO. LUST

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	07/23/2003
Global Id:	T0608116353
Lead Agency:	SAN MATEO COUNTY LOP
Lead Agency Case Number:	129039
Latitude:	37.526619
Longitude:	-122.28479
Case Type:	Cleanup Program Site
Case Worker:	JM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency Warehouse
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Tetrachloroethylene (PCE)
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0017090
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0010833
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT

Region:	SAN MATEO
Facility ID:	FA0017090
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0003501
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF

RGA LUST:

2005 PKS CLEANERS 390 EL CAMINO REAL

E23
NW
< 1/8
0.118 mi.
621 ft.

390 EL CAMINO REAL
BELMONT, CA 94002

Site 2 of 3 in cluster E

EDR US Hist Cleaners **1015052856**
N/A

Relative:
Lower

Actual:
43 ft.

EDR Historical Cleaners:

Name:	MAJOR CLEANERS
Year:	2003
Address:	390 EL CAMINO REAL
Name:	MAJOR CLEANERS 2
Year:	2004
Address:	390 EL CAMINO REAL
Name:	MAJOR CLEANERS
Year:	2005
Address:	390 EL CAMINO REAL
Name:	MAJOR CLEANERS
Year:	2010
Address:	390 EL CAMINO REAL
Name:	MAJOR CLEANERS
Year:	2011
Address:	390 EL CAMINO REAL
Name:	MAJOR CLEANERS
Year:	2012
Address:	390 EL CAMINO REAL

E24
NW
< 1/8
0.118 mi.
621 ft.

CENTER CLEANERS & DRAPERY
390 EL CAMINO REAL UNITE
BELMONT, CA

Site 3 of 3 in cluster E

RCRA-SQG **1000401551**
FINDS **CAD981643059**

Relative:
Lower

Actual:
43 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	CENTER CLEANERS & DRAPERY
Facility address:	390 EL CAMINO REAL UNITE BELMONT, CA 94002
EPA ID:	CAD981643059
Mailing address:	EL CAMINO REAL UNITE BELMONT, CA 94002
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

CENTER CLEANERS & DRAPERY (Continued) **1000401551**

Owner/Operator Summary:

Owner/operator name:	PKS GROUP INC
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):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002736380

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.

C25 **EDR US Hist Cleaners** **1015076663**
NE **573 MOUNTAIN VIEW AVE** **N/A**
1/8-1/4 **BELMONT, CA 94002**
0.130 mi.
688 ft. **Site 5 of 5 in cluster C**

Relative:
Lower

Actual:
18 ft.

EDR Historical Cleaners:

Name:	PENINSULA CARPET CLEANING
Year:	2004
Address:	573 MOUNTAIN VIEW AVE

F26 **C & L CONCRETE PUMPING INC** **San Mateo Co. BI** **S106982126**
NE **555 MOUNTAIN VIEW** **N/A**
1/8-1/4 **BELMONT, CA 94002**
0.139 mi.
733 ft. **Site 1 of 4 in cluster F**

Relative:
Lower

Actual:
17 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0026564
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0038530
Description:	GENERATES <27 GAL/YEAR
Region:	SAN MATEO
Facility ID:	FA0026564
Prog Element Code:	STORES MV FUELS OR WASTE ONLY
Record Id:	PR0038529
Description:	STORES MV FUELS OR WASTE ONLY

F27 **EDR US Hist Auto Stat** **1015552014**
NE **555 MOUNTAIN VIEW AVE** **N/A**
1/8-1/4 **BELMONT, CA 94002**
0.139 mi.
733 ft. **Site 2 of 4 in cluster F**

Relative:
Lower

Actual:
17 ft.

EDR Historical Auto Stations:

Name:	BRIANS TRANSMISSION SERVICE
Year:	2000
Address:	555 MOUNTAIN VIEW AVE

F28 **ABEL MACHINING** **San Mateo Co. BI** **S106798594**
NE **539 MOUNTAIN VIEW** **N/A**
1/8-1/4 **BELMONT, CA 94002**
0.146 mi.
772 ft. **Site 3 of 4 in cluster F**

Relative:
Lower

Actual:
16 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0028699
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0048055
Description:	GENERATES <27 GAL/YEAR

F29 NE 1/8-1/4 0.153 mi. 806 ft. — **ORSBORN MACHINING**, **525 MOUNTAIN VIEW**, **BELMONT, CA 94002** — **San Mateo Co. BI** — **S106035141** / **N/A**

Site 4 of 4 in cluster F

Relative: Lower
Actual: 14 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0027794
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0044894
Description:	GENERATES <27 GAL/YEAR

G30 NNW 1/8-1/4 0.156 mi. 823 ft. — **256 OLD COUNTY RD**, **BELMONT, CA 94002** — **EDR US Hist Auto Stat** — **1015368652** / **N/A**

Site 1 of 4 in cluster G

Relative: Lower
Actual: 22 ft.

EDR Historical Auto Stations:

Name:	SILVER STAR AUTO BODY
Year:	1999
Address:	256 OLD COUNTY RD
Name:	SILVER STAR AUTO BODY
Year:	2000
Address:	256 OLD COUNTY RD
Name:	SILVER STAR AUTO BODY
Year:	2001
Address:	256 OLD COUNTY RD
Name:	ALEXAS AUTO BODY
Year:	2003
Address:	256 OLD COUNTY RD
Name:	SILVER STAR AUTO BODY
Year:	2010
Address:	256 OLD COUNTY RD
Name:	SILVER STAR AUTO BODY
Year:	2011
Address:	256 OLD COUNTY RD
Name:	SILVER STAR AUTO BODY
Year:	2012
Address:	256 OLD COUNTY RD

H31 SE 1/8-1/4 0.159 mi. 842 ft. — **U-HAUL CENTER**, **554 EL CAMINO REAL**, **BELMONT, CA 94002** — **HIST CORTESE**, **LUST**, **SWEEPS UST** — **S102267423** / **N/A**

Site 1 of 2 in cluster H

Relative: Higher
Actual: 64 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA

U-HAUL CENTER (Continued) **S102267423**

Reg Id: 41-0384

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	120036
How Discovered:	OM
Leak Cause:	Unknown
Leak Source:	Unknown
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

SWEEPS UST:

Status:	Active
Comp Number:	120012
Number:	1
Board Of Equalization:	Not reported
Referral Date:	05-05-94
Action Date:	05-05-94
Created Date:	03-22-94
Tank Status:	A
Owner Tank Id:	Not reported
Swrcb Tank Id:	41-000-120012-000001
Actv Date:	03-22-94
Capacity:	8000
Tank Use:	M.V. FUEL
Stg:	P
Content:	UNK
Number Of Tanks:	1

H32 **BELMONT U-HAUL CENTER** **LUST** **U001593845**
SE **554 EL CAMINO REAL** **HIST UST** **N/A**
1/8-1/4 **BELMONT, CA 94002** **SWEEPS UST**
0.159 mi. **San Mateo Co. BI**
842 ft. **Site 2 of 2 in cluster H** **RGA LUST**

Relative:
Higher

Actual:
64 ft.

LUST:

Region:	STATE
Global Id:	T0608100365
Latitude:	37.5258798
Longitude:	-122.282561
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	02/13/2001
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	JM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0384
LOC Case Number:	120036
File Location:	Local Agency

BELMONT U-HAUL CENTER (Continued) **U001593845**

Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100365
Contact Type: Regional Board Caseworker
Contact Name: NANCY KATYL
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET
City: OAKLAND
Email: nkatyl@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0608100365
Contact Type: Local Agency Caseworker
Contact Name: JACOB MADDEN
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: jmadden@smcgov.org
Phone Number: 6503726298

Status History:
Global Id: T0608100365
Status: Open - Case Begin Date
Status Date: 11/04/1996

Global Id: T0608100365
Status: Completed - Case Closed
Status Date: 02/13/2001

Regulatory Activities:
Global Id: T0608100365
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0608100365
Action Type: ENFORCEMENT
Date: 11/04/1996
Action: Notice of Responsibility - #1

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 120036
Facility Status: 9- Case Closed
Global ID: T0608100365
APN Number: 044201080
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

BELMONT U-HAUL CENTER (Continued) **U001593845**

HIST UST:

Region:	STATE
Facility ID:	00000058916
Facility Type:	Other
Other Type:	RETAIL
Total Tanks:	0002
Contact Name:	CLAY APPLEBERRY
Telephone:	4155924036
Owner Name:	U-HAUL COMPANY OF SAN FRANCISC
Owner Address:	1575 BAYSHORE BOULEVARD
Owner City,St,Zip:	SAN FRANCISCO, CA 94124

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	06
Tank Construction:	Not reported
Leak Detection:	None

Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00000580
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Tank Construction:	Not reported
Leak Detection:	None

SWEEPS UST:

Status:	Active
Comp Number:	58916
Number:	9
Board Of Equalization:	Not reported
Referral Date:	01-12-94
Action Date:	01-12-94
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	1
Swrcb Tank Id:	41-000-058916-000001
Actv Date:	07-01-85
Capacity:	8000
Tank Use:	M.V. FUEL
Stg:	P
Content:	UNKNOWN
Number Of Tanks:	2

Status:	Active
Comp Number:	58916
Number:	9
Board Of Equalization:	Not reported
Referral Date:	01-12-94
Action Date:	01-12-94
Created Date:	02-29-88
Tank Status:	A

BELMONT U-HAUL CENTER (Continued) **U001593845**

Owner Tank Id: 2
Swrcb Tank Id: 41-000-058916-000002
Actv Date: 07-01-85
Capacity: 580
Tank Use: OIL
Stg: W
Content: WASTE OIL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 58916
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: 1
Swrcb Tank Id: 41-013-058916-000001
Actv Date: 02-29-88
Capacity: 8000
Tank Use: M.V. FUEL
Stg: P
Content: UNKNOWN
Number Of Tanks: 2

Status: Not reported
Comp Number: 58916
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: 2
Swrcb Tank Id: 41-013-058916-000002
Actv Date: 02-29-88
Capacity: 580
Tank Use: OIL
Stg: W
Content: Not reported
Number Of Tanks: Not reported

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0010755
Prog Element Code: HAZARDOUS WASTE PROGRAM - GENERAL
Record Id: PR0071941
Description: HAZARDOUS WASTE PROGRAM - GENERAL

Region: SAN MATEO
Facility ID: FA0010755
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id: PR0023703
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF

Region: SAN MATEO

BELMONT U-HAUL CENTER (Continued) **U001593845**

Facility ID: FA0010755
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0022229
Description: UNDERGROUND TANK - GENERAL

Region: SAN MATEO
Facility ID: FA0027313
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id: PR0043199
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF

Region: SAN MATEO
Facility ID: FA0029026
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id: PR0049048
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF

RGA LUST:

2012	U-HAUL #708-78	554 EL CAMINO REAL
2011	U-HAUL #708-78	554 EL CAMINO REAL
2010	U-HAUL #708-78	554 EL CAMINO REAL
2009	U-HAUL #708-78	554 EL CAMINO REAL
2008	U-HAUL #708-78	554 EL CAMINO REAL
2007	U-HAUL #708-78	554 EL CAMINO REAL
2006	U-HAUL #708-78	554 EL CAMINO REAL
2005	U-HAUL #708-78	554 EL CAMINO REAL
2003	U-HAUL #708-78	554 EL CAMINO REAL
2002	U HAUL	554 EL CAMINO REAL
2001	U HAUL	554 EL CAMINO REAL
2000	U HAUL	554 EL CAMINO REAL
1998	U HAUL	554 EL CAMINO REAL
1997	U HAUL	554 EL CAMINO REAL

G33 **EDR US Hist Auto Stat** **1015365561**
NNW **252 OLD COUNTY RD** **N/A**
1/8-1/4 **BELMONT, CA 94002**
0.161 mi.
848 ft. **Site 2 of 4 in cluster G**

Relative:
Lower

Actual:
22 ft.

EDR Historical Auto Stations:

Name: SILVER STAR AUTO BODY
Year: 2002
Address: 252 OLD COUNTY RD

Name: SILVER STAR AUTO BODY
Year: 2004
Address: 252 OLD COUNTY RD

Name: SILVER STAR AUTO BODY
Year: 2005
Address: 252 OLD COUNTY RD

Name: SILVER STAR AUTO BODY
Year: 2008
Address: 252 OLD COUNTY RD

Name: SILVER STAR AUTO BODY

(Continued) **1015365561**

Year: 2009
Address: 252 OLD COUNTY RD

G34 NNW 1/8-1/4 0.161 mi. 848 ft. | **SILVER STAR AUTO BODY**
252 OLD COUNTY ROAD
BELMONT, CA 94002

Site 3 of 4 in cluster G

San Mateo Co. BI EMI | **S105428861 N/A**

Relative: Lower

Actual: 22 ft.

San Mateo Co. BI:

Region: SAN MATEO
Facility ID: FA0014807
Prog Element Code: BUSINESS PLAN - GENERAL
Record Id: PR0071204
Description: BUSINESS PLAN - GENERAL

Region: SAN MATEO
Facility ID: FA0014807
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0010915
Description: GENERATES <27 GAL/YEAR

Region: SAN MATEO
Facility ID: FA0014807
Prog Element Code: LESS THAN 500 TIRES
Record Id: PR0045086
Description: LESS THAN 500 TIRES

EMI:

Year: 2001
County Code: 41
Air Basin: SF
Facility ID: 11280
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2002
County Code: 41
Air Basin: SF
Facility ID: 11280
Air District Name: BA
SIC Code: 7532
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0

SILVER STAR AUTO BODY (Continued) **S105428861**

Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2003
County Code:	41
Air Basin:	SF
Facility ID:	11280
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2004
County Code:	41
Air Basin:	SF
Facility ID:	11280
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.084
Reactive Organic Gases Tons/Yr:	0.0782578
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2005
County Code:	41
Air Basin:	SF
Facility ID:	11280
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.084
Reactive Organic Gases Tons/Yr:	.0782578
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

SILVER STAR AUTO BODY (Continued) **S105428861**

Year:	2006
County Code:	41
Air Basin:	SF
Facility ID:	11280
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.084
Reactive Organic Gases Tons/Yr:	.0782578
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2007
County Code:	41
Air Basin:	SF
Facility ID:	11280
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.218
Reactive Organic Gases Tons/Yr:	.188573
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2008
County Code:	41
Air Basin:	SF
Facility ID:	11280
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.218
Reactive Organic Gases Tons/Yr:	.188573
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2009
County Code:	41
Air Basin:	SF
Facility ID:	11280
Air District Name:	BA
SIC Code:	7532

SILVER STAR AUTO BODY (Continued) **S105428861**

Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.218
Reactive Organic Gases Tons/Yr:	0.18857299999999999
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2010
County Code:	41
Air Basin:	SF
Facility ID:	11280
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.218
Reactive Organic Gases Tons/Yr:	0.18857299999999999
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

G35 **EDR US Hist Auto Stat** **1015362581**
NNW **250 OLD COUNTY RD** **N/A**
1/8-1/4 **BELMONT, CA 94002**
0.163 mi.
860 ft. **Site 4 of 4 in cluster G**

Relative:
Lower

Actual:
22 ft.

EDR Historical Auto Stations:

Name:	SILVER STAR AUTO BODY
Year:	2003
Address:	250 OLD COUNTY RD

Name:	SILVER STAR AUTO BODY
Year:	2006
Address:	250 OLD COUNTY RD

Name:	SILVER STAR AUTO BODY
Year:	2007
Address:	250 OLD COUNTY RD

I36 East 1/8-1/4 0.168 mi. 886 ft. | **ALTERNATOR STARTER EXCHANGE** | **San Mateo Co. BI** | **S106981938** | **N/A**
570 MARINE VIEW
BELMONT, CA 94002

Site 1 of 2 in cluster I

Relative: Lower
Actual: 23 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0024761
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0030108
Description:	GENERATES <27 GAL/YEAR

I37 East 1/8-1/4 0.168 mi. 886 ft. | **METAL FUSION INC** | **RCRA-SQG FINDS** | **1000147804** | **CAD980888663**
570-A MARINE VIEW
BELMONT, CA 94002

Site 2 of 2 in cluster I

Relative: Lower
Actual: 23 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	METAL FUSION INC
Facility address:	570-A MARINE VIEW BELMONT, CA 94002
EPA ID:	CAD980888663
Mailing address:	MARINE VIEW BELMONT, CA 94002
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

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	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

METAL FUSION INC (Continued) **1000147804**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002675178

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.

38
East
1/8-1/4
0.186 mi.
980 ft.

BIRDIE BERT PRINTING
550 MARINE VIEW
BELMONT, CA 94002

San Mateo Co. BI **S106981866**
N/A

Relative:
Lower

Actual:
19 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0024307
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0028876
Description: GENERATES <27 GAL/YEAR

J39 **EDR US Hist Auto Stat** **1015343863**
NNW **230 OLD COUNTY RD** **N/A**
1/8-1/4 **BELMONT, CA 94002**
0.187 mi.
987 ft. **Site 1 of 3 in cluster J**

Relative:
Lower

Actual:
21 ft.

EDR Historical Auto Stations:

Name: MOTOR MASTERS
Year: 2001
Address: 230 OLD COUNTY RD

Name: MOTOR MASTERS
Year: 2003
Address: 230 OLD COUNTY RD

Name: MOTOR MASTERS
Year: 2004
Address: 230 OLD COUNTY RD

Name: AUTO CARE OF REDWOOD SHORES
Year: 2006
Address: 230 OLD COUNTY RD

Name: AUTO CARE OF REDWOOD SHORES
Year: 2008
Address: 230 OLD COUNTY RD

Name: AUTO CARE OF REDWOOD SHORES
Year: 2009
Address: 230 OLD COUNTY RD

Name: AUTO CARE OF REDWOOD SHORES
Year: 2010
Address: 230 OLD COUNTY RD

Name: AUTO CARE OF REDWOOD SHORES
Year: 2011
Address: 230 OLD COUNTY RD

Name: AUTO CARE OF REDWOOD SHORES
Year: 2012
Address: 230 OLD COUNTY RD

J40 **AUTO CARE OF REDWOOD SHORES** **San Mateo Co. BI** **S106797887**
NNW **230 OLD COUNTY** **N/A**
1/8-1/4 **BELMONT, CA 94002**
0.187 mi.
987 ft. **Site 2 of 3 in cluster J**

Relative:
Lower

Actual:
21 ft.

San Mateo Co. BI:

Region: SAN MATEO
Facility ID: FA0028862
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0048530
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT

Region: SAN MATEO
Facility ID: FA0028862
Prog Element Code: LESS THAN 500 TIRES
Record Id: PR0048531

AUTO CARE OF REDWOOD SHORES (Continued) **S106797887**

Description: LESS THAN 500 TIRES

Region: SAN MATEO
Facility ID: FA0028862
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0048529
Description: STORES MV FUELS OR WASTE ONLY

J41
NNW
1/8-1/4
0.187 mi.
987 ft.

S & B AUTOMOTIVE
230 OLD COUNTY RD
BELMONT, CA

RCRA-SQG **1000103550**
FINDS **CAD021781240**
San Mateo Co. BI
HAZNET

Site 3 of 3 in cluster J

Relative:
Lower

Actual:
21 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: S & B AUTOMOTIVE
Facility address: 230 OLD COUNTY RD
BELMONT, CA 94002
EPA ID: CAD021781240
Mailing address: OLD COUNTY RD
BELMONT, CA 94002
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

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: 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

S & B AUTOMOTIVE (Continued) **1000103550**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002639226

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.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0017113
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0010852
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT

Region:	SAN MATEO
Facility ID:	FA0017113
Prog Element Code:	LESS THAN 500 TIRES
Record Id:	PR0045083
Description:	LESS THAN 500 TIRES

Region:	SAN MATEO
Facility ID:	FA0017113
Prog Element Code:	STORES MV FUELS OR WASTE ONLY
Record Id:	PR0029237
Description:	STORES MV FUELS OR WASTE ONLY

HAZNET:

Year:	2001
Gepaid:	CAD021781240
Contact:	INACTIVE BUSINESS SOLD 6/96
Telephone:	--

S & B AUTOMOTIVE (Continued) **1000103550**

Mailing Name:	Not reported
Mailing Address:	230 OLD COUNTY RD
Mailing City,St,Zip:	BELMONT, CA 940020000
Gen County:	Not reported
TSD EPA ID:	CAD099452708
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Tons:	0.27
Facility County:	San Mateo

Year:	1999
Gepaid:	CAD021781240
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	230 OLD COUNTY RD
Mailing City,St,Zip:	BELMONT, CA 940020000
Gen County:	Not reported
TSD EPA ID:	CAD099452708
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Tons:	.2710
Facility County:	San Mateo

Year:	1996
Gepaid:	CAD021781240
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	230 OLD COUNTY RD
Mailing City,St,Zip:	BELMONT, CA 940020000
Gen County:	Not reported
TSD EPA ID:	CAD083166728
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Tons:	.3127
Facility County:	San Mateo

42
SE
1/8-1/4
0.198 mi.
1047 ft.

BELMONT TIRES, WHEELS & SERVIC **San Mateo Co. BI** **S102267425**
564 EL CAMINO REAL **N/A**
BELMONT, CA 94002

Relative:
Lower

Actual:
61 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0010773
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0038365
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT

Region:	SAN MATEO
Facility ID:	FA0010773
Prog Element Code:	LESS THAN 500 TIRES
Record Id:	PR0045093

BELMONT TIRES, WHEELS & SERVIC (Continued) **S102267425**

Description: LESS THAN 500 TIRES

Region: SAN MATEO
Facility ID: FA0010773
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0010901
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF

K43
East
1/8-1/4
0.205 mi.
1082 ft.

SANDS OF TIME
530 MARINE VIEW
BELMONT, CA 94002

San Mateo Co. BI **S106498916**
N/A

Site 1 of 5 in cluster K

Relative:
Lower

Actual:
17 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0026097
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0037626
Description: GENERATES <27 GAL/YEAR

Region: SAN MATEO
Facility ID: FA0026097
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0037625
Description: STORES MV FUELS OR WASTE ONLY

Region: SAN MATEO
Facility ID: FA0028586
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0047637
Description: GENERATES <27 GAL/YEAR

Region: SAN MATEO
Facility ID: FA0028586
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0047638
Description: STORES MV FUELS OR WASTE ONLY

44
NE
1/8-1/4
0.212 mi.
1119 ft.

404 HILLER ST
BELMONT, CA 94002

EDR US Hist Cleaners **1015055657**
N/A

Relative:
Lower

Actual:
10 ft.

EDR Historical Cleaners:
Name: GOODWIN CARPET & UPHLSTRY CLNR
Year: 2003
Address: 404 HILLER ST

Name: GOODWIN CARPET & UPHLSTRY CLNR
Year: 2004
Address: 404 HILLER ST

Name: GOODWIN CARPET & UPHOLSTERY CLEANERS
Year: 2006

(Continued) **1015055657**

Address: 404 HILLER ST

Name: GOODWIN CARPET & UPHOLSTERY CLEANERS
Year: 2008
Address: 404 HILLER ST

Name: GOODWIN CARPET & UPHOLSTERY CLEANERS
Year: 2009
Address: 404 HILLER ST

Name: GOODWIN CARPET & UPHOLSTERY CLEANERS
Year: 2011
Address: 404 HILLER ST

Name: GOODWIN CARPET & UPHOLSTERY CLEANERS
Year: 2012
Address: 404 HILLER ST

K45 East 1/8-1/4 0.214 mi. 1131 ft. | **CIRCRAFT, INC**
521 MARINE VIEW AVE
BELMONT, CA 94002 | **San Mateo Co. BI** **S103171141**
EMI **N/A**

Site 2 of 5 in cluster K

Relative: Lower

Actual: 16 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0024760
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0030107
Description: GENERATES <27 GAL/YEAR

EMI:
Year: 1987
County Code: 41
Air Basin: SF
Facility ID: 2125
Air District Name: BA
SIC Code: 3674
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 4
Reactive Organic Gases Tons/Yr: 3
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

K46 East 1/8-1/4 0.216 mi. 1141 ft. | **CIRCRAFT, INC.**
519 MARINE VIEW ST
BELMONT, CA 94002

HIST UST | **U001593846**
N/A

Site 3 of 5 in cluster K

Relative: Lower

Actual: 16 ft.

HIST UST:

Region:	STATE
Facility ID:	00000014109
Facility Type:	Other
Other Type:	PRINTED CIRCUIT MFG.
Total Tanks:	0001
Contact Name:	LEE D. ADAMS
Telephone:	4155910764
Owner Name:	CIRCRAFT, INC.
Owner Address:	519 MARINE VIEW AVENUE
Owner City,St,Zip:	BELMONT, CA 94002
Tank Num:	001
Container Num:	1
Year Installed:	1966
Tank Capacity:	00000025
Tank Used for:	WASTE
Type of Fuel:	Not reported
Tank Construction:	4 inches
Leak Detection:	Visual, None

K47 East 1/8-1/4 0.218 mi. 1150 ft. | **CIRCRAFT INC**
519 MARINE VIEW DR
BELMONT, CA

RCRA-SQG
FINDS
HIST UST

1000180810
CAD009666025

Site 4 of 5 in cluster K

Relative: Lower

Actual: 16 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	CIRCRAFT INC
Facility address:	519 MARINE VIEW DR BELMONT, CA 94002
EPA ID:	CAD009666025
Mailing address:	PO BOX 189 BELMONT, CA 94002
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Land type:	Facility is not located on Indian land. Additional information is not known.
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:	CIRCRAFT, INC.
Owner/operator address:	NOT REQUIRED

CIRCRAFT INC (Continued) **1000180810**

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): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/23/1980
Facility name: CIRCRAFT INC
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 03/07/1986
Date achieved compliance: 03/07/1991
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

CIRCRAFT INC (Continued) **1000180810**

Evaluation Action Summary:

Evaluation date:	03/07/1986
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	03/07/1991
Evaluation lead agency:	State Contractor/Grantee

FINDS:

Registry ID: 110001166611

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.

HIST UST:

Region:	STATE
Facility ID:	00000064287
Facility Type:	Other
Other Type:	PRINTED CIRCUIT BOAR
Total Tanks:	0002
Contact Name:	LEE ADAMS
Telephone:	4155910764
Owner Name:	CIRCRAFT
Owner Address:	519-C MARINE VIEW WAY
Owner City,St,Zip:	BELMONT, CA 94002

Tank Num:	001
Container Num:	2
Year Installed:	1985
Tank Capacity:	00000650
Tank Used for:	WASTE
Type of Fuel:	Not reported
Tank Construction:	6 inches
Leak Detection:	Visual

Tank Num:	002
Container Num:	1
Year Installed:	1985
Tank Capacity:	00000650
Tank Used for:	WASTE
Type of Fuel:	Not reported
Tank Construction:	3/4 inches
Leak Detection:	Visual

K48 East 1/8-1/4 0.218 mi. 1151 ft. | **HELD PAINTING** | **San Mateo Co. BI** | **S103967542** | **N/A**
517 MARINE VIEW
BELMONT, CA 94002

Site 5 of 5 in cluster K

Relative: Lower

Actual: 16 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0014175
Prog Element Code:	BUSINESS PLAN - GENERAL
Record Id:	PR0071690
Description:	BUSINESS PLAN - GENERAL

Region:	SAN MATEO
Facility ID:	FA0014175
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0025141
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT

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49 NNW 1/8-1/4 0.241 mi. 1270 ft. | **KELLY MOORE PAINTS** | **San Mateo Co. BI** | **S107472784** | **N/A**
201 OLD COUNTY
BELMONT, CA 94002

Relative: Lower

Actual: 16 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0029354
Prog Element Code:	STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id:	PR0049855
Description:	STORES HAZ MAT <1,199GAL,9,999LB,4,799CF

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50 ENE 1/4-1/2 0.256 mi. 1353 ft. | **CIRCRAFT INC** | **SLIC** | **S102002472** | **N/A**
519 C MARINE VIEW AVE
BELMONT, CA 94002

Relative: Lower

Actual: 10 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	06/04/2009
Global Id:	T0608191579
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.527675
Longitude:	-122.27893
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41S0013
File Location:	Not reported
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:

CIRCRAFT INC (Continued) **S102002472**

SLIC REG 2:
Region: 2
Facility ID: 41S0013
Facility Status: Preliminary site assessment workplan submitted
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: 12/10/1987
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

51
NW
1/4-1/2
0.297 mi.
1568 ft.

HOWARD TIRE SERVICE
120 EL CAMINO REAL
BELMONT, CA 94002

RCRA NonGen / NLR
HIST CORTESE
LUST
San Mateo Co. BI
RGA LUST

1000154948
CAD039461652

Relative:
Lower

Actual:
23 ft.

RCRA NonGen / NLR:
Date form received by agency: 09/17/1985
Facility name: HOWARD TIRE SERVICE
Facility address: 120 EL CAMINO REAL
BELMONT, CA 94002
EPA ID: CAD039461652
Mailing address: EL CAMINO REAL
BELMONT, CA 94002
Contact: ENVIRONMENTAL MANAGER
Contact address: 120 EL CAMINO REAL
BELMONT, CA 94002
Contact country: US
Contact telephone: (415) 592-3200
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: 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

HOWARD TIRE SERVICE (Continued) **1000154948**

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): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
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

Violation Status: No violations found

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0285

LUST:
Region: STATE
Global Id: T0608100271
Latitude: 37.528752
Longitude: -122.287258
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 11/07/2001
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: JM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0285
LOC Case Number: 120007
File Location: Local Agency
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:

Contact:
Global Id: T0608100271
Contact Type: Regional Board Caseworker
Contact Name: NANCY KATYL
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET
City: OAKLAND

HOWARD TIRE SERVICE (Continued) **1000154948**

Email: nkatyl@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0608100271
Contact Type: Local Agency Caseworker
Contact Name: JACOB MADDEN
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: jmadden@smcgov.org
Phone Number: 6503726298

Status History:
Global Id: T0608100271
Status: Open - Case Begin Date
Status Date: 09/25/1985

Global Id: T0608100271
Status: Completed - Case Closed
Status Date: 11/07/2001

Regulatory Activities:
Global Id: T0608100271
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0608100271
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0608100271
Action Type: ENFORCEMENT
Date: 08/01/1987
Action: Notice of Responsibility - #1

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 120007
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HOWARD TIRE SERVICE (Continued) **1000154948**

SAN MATEO CO. LUST:

Region:	SAN MATEO
Facility ID:	120007
Facility Status:	9- Case Closed
Global ID:	T0608100271
APN Number:	044151200
Case Type:	SAN MATEO CO. LUST
EDR Link ID:	SAN MATEO CO. LUST

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0005710
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0010865
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT
Region:	SAN MATEO
Facility ID:	FA0005710
Prog Element Code:	LESS THAN 500 TIRES
Record Id:	PR0045081
Description:	LESS THAN 500 TIRES
Region:	SAN MATEO
Facility ID:	FA0005710
Prog Element Code:	STORES MV FUELS OR WASTE ONLY
Record Id:	PR0003552
Description:	STORES MV FUELS OR WASTE ONLY

RGA LUST:

2012	HOWARD TIRE COMPANY	120 EL CAMINO REAL
2011	HOWARD TIRE COMPANY	120 EL CAMINO REAL
2010	HOWARD TIRE COMPANY	120 EL CAMINO REAL
2009	HOWARD TIRE COMPANY	120 EL CAMINO REAL
2008	HOWARD TIRE COMPANY	120 EL CAMINO REAL
2007	HOWARD TIRE COMPANY	120 EL CAMINO REAL
2006	HOWARD TIRE COMPANY	120 EL CAMINO REAL
2005	HOWARD TIRE COMPANY	120 EL CAMINO REAL
2003	HOWARD TIRE COMPANY	120 EL CAMINO REAL
2002	HOWARD TIRE COMPANY	120 EL CAMINO REAL
2001	HOWARD TIRE COMPANY	120 EL CAMINO REAL
2000	HOWARD TIRE COMPANY	120 EL CAMINO REAL

L52 **NATIONAL AUTO SERVICES** **HIST CORTESE** **S102270469**
NW **4095 PACIFIC** **LUST** **N/A**
1/4-1/2 **SAN MATEO, CA 94002** **San Mateo Co. BI**
0.366 mi. **RGA LUST**
1935 ft. **Site 1 of 2 in cluster L**

Relative:
Lower

Actual:
15 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-1085

LUST:

Region:	STATE

NATIONAL AUTO SERVICES (Continued) **S102270469**

Global Id:	T0608100996
Latitude:	37.530433
Longitude:	-122.287734
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	01/20/2009
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	MM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-1085
LOC Case Number:	110063
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Extracted from Horizon Environmental's February 29, 2008 Feasibility Study Workplan, San Mateo County does not take responsibility for the accuracy of the statements made or any professional interpretations made in the referenced report. The Site is an operating gasoline and diesel fuel service station located 011 the liorthern corner of the intersection of Pacific Boulevard and Laurie Meadows Avenue in San Mateo, California, as depicted 011 the Site Vicinity Map. The Site is located approximately 12 feet above meat1 sea level (msl) within a primarily cotllliiercial and residential area of San Mateo. Tlie city of San Mateo is located in east-central San Mateo County. Tlie Site property is a trapezoidal-shaped parcel of land approxi~nately 1% acre in size, and is known locally as the Laurie Meadows Shopping Center. The southwestern portion of the property (APN#040-232-220) is occupied by the service station facilities (Site), aud a commercial building is located in the northwestern portion of the property. The coullnercial building shares a colnlnon parking lot with the service station. The Site is bounded by Pacific Boulevard (formerly known as Old County Road) to tlie southwest, Laurie Meadows Avenue to the southeast, and parking lots itnmediately to the north and east. Site facilities iliclude a centrally located station building, two fuel dispenser islands located southwest of the station building, and three underground storage tanks (USTs) located in the southern portion of the Site. Two of tlie USTs are 10,000-gallon capacity USTs used for the storage of unleaded gasoline fuel, while the third UST is a 6,000-gallon capacity UST used for the storage of diesel fuel (formerly used for the storage of gasolilie fuel). The Site has been an operating gasoline retail outlet for at least three decades. There are currently nine groundwater lnonitoring wells (MW-1 through MW-9) associated with the Site. Wells MW-1 through MW-8 are located within the Site property boundaries, while well MW-9 is located offsite to the northwest of the Site. Locations of pertinent Site features are show11 on the Site Map. A former waste-oil UST and former fuel dispenser pumps and associated piping were reliioved from the Site in 1991 and 1999, respectively. After source removal and confirmation sampling, it was reported that the impacted soil imlnediately surrounding both areas was excavated, disposed as hazardous waste or construction fill (Dugan Associates, 1999), and subsequently backfilled with imported soil arid other backfill materials. Commercial businesses are located along Pacific Boulevard to the northwest of the Site, while areas to the north, east and south of the Site consist primarily of residential developments. The nearest buildings to the service station are commercial buildings located approximately 70 feet to the northwest and 110 feet to the northeast.

NATIONAL AUTO SERVICES (Continued) **S102270469**

These commercial buildings are occupied by various businesses including a laundry mat, dry cleaners, beauty shop, video store, various restaurants, and a liquor store. The nearest residential buildings to the Site are the Meadow Court Town Houses, which are located across Laurie Meadows Avenue approxi~nately 110 feet to the south of the Site, and the Laurie Dale Condominiums, which are located approxilnately 220 feet to the east of the Site. All of these buildiigs appear to be constructed on concrete slabs or perimeter foundations and do not appear to have base~llents or other underground areas. The nearest school is the George Hall Elementary School, located approximately 2,100 feet north-northwest of the Site.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100996
Contact Type:	Regional Board Caseworker
Contact Name:	Cheryl L. Prowell
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 Clay Street, Suite 1400
City:	Oakland
Email:	cprowell@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0608100996
Contact Type:	Local Agency Caseworker
Contact Name:	MARC MULLANEY
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	mmullaney@smcgov.org
Phone Number:	6503726289

Status History:

Global Id:	T0608100996
Status:	Open - Case Begin Date
Status Date:	06/27/1991

Global Id:	T0608100996
Status:	Open - Site Assessment
Status Date:	06/27/1991

Global Id:	T0608100996
Status:	Open - Site Assessment
Status Date:	01/20/2009

Regulatory Activities:

Global Id:	T0608100996
Action Type:	RESPONSE
Date:	11/15/2013
Action:	Monitoring Report - Semi-Annually

Global Id:	T0608100996
Action Type:	ENFORCEMENT
Date:	01/05/2005
Action:	Staff Letter - #20050105

NATIONAL AUTO SERVICES (Continued) **S102270469**

Global Id: T0608100996
Action Type: ENFORCEMENT
Date: 05/26/2004
Action: Staff Letter - #20040526

Global Id: T0608100996
Action Type: RESPONSE
Date: 07/11/2006
Action: Soil and Water Investigation Report

Global Id: T0608100996
Action Type: RESPONSE
Date: 04/02/2007
Action: Soil and Water Investigation Workplan

Global Id: T0608100996
Action Type: RESPONSE
Date: 09/19/2007
Action: Soil and Water Investigation Report

Global Id: T0608100996
Action Type: RESPONSE
Date: 03/03/2008
Action: CAP/RAP - Feasibility Study Report

Global Id: T0608100996
Action Type: RESPONSE
Date: 11/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 02/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

Global Id: T0608100996
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0608100996
Action Type: ENFORCEMENT
Date: 03/02/2011
Action: Staff Letter - #20110302

Global Id: T0608100996
Action Type: ENFORCEMENT
Date: 07/20/2011
Action: Staff Letter - #20110720

Global Id: T0608100996
Action Type: RESPONSE

NATIONAL AUTO SERVICES (Continued) **S102270469**

Date: 05/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 08/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0608100996
Action Type: RESPONSE
Date: 02/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 02/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 02/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 10/29/2004
Action: Soil and Water Investigation Report

Global Id: T0608100996
Action Type: RESPONSE
Date: 11/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0608100996
Action Type: RESPONSE
Date: 06/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 11/12/2004
Action: Soil and Water Investigation Report

Global Id: T0608100996
Action Type: RESPONSE
Date: 08/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 05/15/2004
Action: Monitoring Report - Quarterly

NATIONAL AUTO SERVICES (Continued) **S102270469**

Global Id: T0608100996
Action Type: RESPONSE
Date: 08/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 11/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 02/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 05/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 08/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 11/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 05/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 08/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 11/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 05/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 02/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE

NATIONAL AUTO SERVICES (Continued) **S102270469**

Date: 08/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 11/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 11/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 02/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 05/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 08/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 11/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0608100996
Action Type: RESPONSE
Date: 06/11/2009
Action: Conceptual Site Model - Regulator Responded

Global Id: T0608100996
Action Type: RESPONSE
Date: 08/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 11/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 05/15/2010
Action: Monitoring Report - Semi-Annually

NATIONAL AUTO SERVICES (Continued) **S102270469**

Global Id: T0608100996
Action Type: RESPONSE
Date: 11/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0608100996
Action Type: RESPONSE
Date: 05/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0608100996
Action Type: RESPONSE
Date: 11/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0608100996
Action Type: RESPONSE
Date: 12/01/2011
Action: Site Assessment Report

Global Id: T0608100996
Action Type: ENFORCEMENT
Date: 06/25/2002
Action: Staff Letter - #20020625

Global Id: T0608100996
Action Type: ENFORCEMENT
Date: 11/03/2004
Action: Notice of Violation - #20041103

Global Id: T0608100996
Action Type: ENFORCEMENT
Date: 05/22/2007
Action: Staff Letter - #20070522

Global Id: T0608100996
Action Type: ENFORCEMENT
Date: 02/01/2007
Action: Staff Letter - #20070201

Global Id: T0608100996
Action Type: ENFORCEMENT
Date: 01/03/1992
Action: Notice of Responsibility - #1

Global Id: T0608100996
Action Type: ENFORCEMENT
Date: 06/12/2003
Action: Notice of Violation - #20030612

Global Id: T0608100996
Action Type: ENFORCEMENT
Date: 01/02/2008
Action: Staff Letter - #20080102

Global Id: T0608100996
Action Type: RESPONSE

NATIONAL AUTO SERVICES (Continued) **S102270469**

Date: 05/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0608100996
Action Type: ENFORCEMENT
Date: 01/16/2009
Action: Staff Letter - #20090116

Global Id: T0608100996
Action Type: ENFORCEMENT
Date: 07/13/2009
Action: Staff Letter - #20090713

Global Id: T0608100996
Action Type: RESPONSE
Date: 05/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0608100996
Action Type: RESPONSE
Date: 05/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0608100996
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 110063
Facility Status: 5C- Pollution Characterization
Global ID: T0608100996
APN Number: Not reported
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0012413
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0010696
Description: GENERATES <27 GAL/YEAR

Region: SAN MATEO
Facility ID: FA0012413
Prog Element Code: LESS THAN 500 TIRES
Record Id: PR0045789
Description: LESS THAN 500 TIRES

Region: SAN MATEO
Facility ID: FA0012413
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0003313
Description: STORES MV FUELS OR WASTE ONLY

NATIONAL AUTO SERVICES (Continued) **S102270469**

Region: SAN MATEO
Facility ID: FA0012413
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0022132
Description: UNDERGROUND TANK - GENERAL

Region: SAN MATEO
Facility ID: FA0048939
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0066809
Description: GENERATES <27 GAL/YEAR

Region: SAN MATEO
Facility ID: FA0048939
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0066808
Description: STORES MV FUELS OR WASTE ONLY

RGA LUST:

2012	NATIONAL AUTO SERVICES	4095 PACIFIC
2011	NATIONAL AUTO SERVICES	4095 PACIFIC
2010	NATIONAL AUTO SERVICES	4095 PACIFIC
2009	NATIONAL AUTO SERVICES	4095 PACIFIC
2008	NATIONAL AUTO SERVICES	4095 PACIFIC
2007	NATIONAL AUTO SERVICES	4095 PACIFIC
2006	NATIONAL AUTO SERVICES	4095 PACIFIC
2005	NATIONAL AUTO SERVICES	4095 PACIFIC
2004	NATIONAL AUTO SERVICES	4095 PACIFIC
2003	NATIONAL AUTO SERVICES	4095 PACIFIC
2002	NATIONAL AUTO SERVICES	4095 PACIFIC BLVD
2001	NATIONAL AUTO SERVICES	4095 PACIFIC BLVD
2000	NATIONAL AUTO SERVICES	4095 PACIFIC BLVD
1998	NATIONAL AUTO SERVICES	4095 PACIFIC BLVD

L53 **NATIONAL AUTO SERVICES** **LUST** **S104494589**
NW **4095 PACIFIC** **N/A**
1/4-1/2 **SAN MATEO, CA 94403**
0.366 mi.
1935 ft. **Site 2 of 2 in cluster L**

Relative:
Lower

Actual:
15 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Pollution Characterization
Case Number: 110063
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: 1/1/1965
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

54 SE 1/4-1/2 0.395 mi. 2087 ft.

QUAN PROPERTY
847 OLD COUNTY RD
BELMONT, CA 94002

HIST CORTESE
LUST
SLIC
RGA LUST

S104493421
N/A

Relative: Lower

Actual: 38 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-1198

LUST REG 2:

Region:	2
Facility Id:	41-1198
Facility Status:	Leak being confirmed
Case Number:	129007
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Leak Confirmed:	12/18/1998
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

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	06/03/2009
Global Id:	T0608101095
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	129007
Latitude:	37.522416543488
Longitude:	-122.276849067459
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-1198
File Location:	Not reported
Potential Media Affected:	Under Investigation
Potential Contaminants of Concern:	* Solvents
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

RGA LUST:

2008	QUAN PROPERTY	847 OLD COUNTY RD
2007	QUAN PROPERTY	847 OLD COUNTY RD
2006	QUAN PROPERTY	847 OLD COUNTY RD
2005	QUAN PROPERTY	847 OLD COUNTY RD
2003	QUAN PROPERTY	847 OLD COUNTY RD
2002	QUAN PROPERTY	847 OLD COUNTY RD
2001	QUAN PROPERTY	847 OLD COUNTY RD
2000	QUAN PROPERTY	847 OLD COUNTY RD

M55 NW 1/4-1/2 0.461 mi. 2432 ft. | **CARSTENS REALITY INC 49 42ND SAN MATEO, CA 94403** | **HIST CORTESE LUST RGA LUST** | **S104494484 N/A**

Site 1 of 4 in cluster M

Relative: Lower

Actual: 28 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-1044

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	119107
How Discovered:	OM
Leak Cause:	Unknown
Leak Source:	Unknown
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

RGA LUST:

2007	CARSTENS REALTY INC	49 42ND
2006	CARSTENS REALTY INC	49 42ND
2005	CARSTENS REALTY INC	49 42ND
2004	CARSTENS REALTY INC	49 42ND
2003	CARSTENS REALTY INC	49 42ND

M56 NW 1/4-1/2 0.461 mi. 2432 ft. | **CARSTENS REALTY INC 49 W 42ND AVE SAN MATEO, CA** | **LUST RGA LUST** | **S104565236 N/A**

Site 2 of 4 in cluster M

Relative: Lower

Actual: 28 ft.

SAN MATEO CO. LUST:

Region:	SAN MATEO
Facility ID:	119107
Facility Status:	9- Case Closed
Global ID:	T0608132885
APN Number:	042243020
Case Type:	SAN MATEO CO. LUST
EDR Link ID:	SAN MATEO CO. LUST

RGA LUST:

1998	CARSTENS REALITY INC	49 W 42ND AVE

M57 WNW 1/4-1/2 0.463 mi. 2444 ft. | **CARSTENS REALTY INC**
49 WEST 42ND AVENUE
SAN MATEO, CA 94402 | **LUST** **RGA LUST** | **S109285823** **N/A**

Site 3 of 4 in cluster M

Relative: Lower

Actual: 29 ft.

LUST:

Region:	STATE
Global Id:	T0608132885
Latitude:	37.529348
Longitude:	-122.290091
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	12/30/1998
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	MM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-1044
LOC Case Number:	119107
File Location:	Local Agency
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:

Contact:

Global Id:	T0608132885
Contact Type:	Regional Board Caseworker
Contact Name:	NANCY KATYL
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET
City:	OAKLAND
Email:	nkatyl@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0608132885
Contact Type:	Local Agency Caseworker
Contact Name:	MARC MULLANEY
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	mmullaney@smcgov.org
Phone Number:	6503726289

Status History:

Global Id:	T0608132885
Status:	Open - Case Begin Date
Status Date:	07/18/1997

Global Id:	T0608132885
Status:	Completed - Case Closed
Status Date:	12/30/1998

Regulatory Activities:

Global Id:	T0608132885
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

CARSTENS REALTY INC (Continued) **S109285823**

Global Id: T0608132885
Action Type: ENFORCEMENT
Date: 07/28/1997
Action: Notice of Responsibility - #1

RGA LUST:

2012	CARSTENS REALTY INC	49 WEST 42ND AVENUE
2011	CARSTENS REALTY INC	49 WEST 42ND AVENUE
2010	CARSTENS REALTY INC	49 WEST 42ND AVENUE
2009	CARSTENS REALTY INC	49 WEST 42ND AVENUE
2008	CARSTENS REALTY INC	49 WEST 42ND AVENUE

58
NW
1/4-1/2
0.466 mi.
2460 ft.

SHELL
4140 EL CAMINO REAL
SAN MATEO, CA

HIST CORTESE **S104494539**
LUST **N/A**
RGA LUST

Relative:
Lower

Actual:
15 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0504

LUST:
Region: STATE
Global Id: T0608100480
Latitude: 37.530434
Longitude: -122.289706
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 11/04/1998
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: MM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0504
LOC Case Number: 110019
File Location: Local Agency
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:

Contact:
Global Id: T0608100480
Contact Type: Regional Board Caseworker
Contact Name: NANCY KATYL
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET
City: OAKLAND
Email: nkatyl@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0608100480
Contact Type: Local Agency Caseworker

SHELL (Continued) **S104494539**

Contact Name: MARC MULLANEY
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: mmullaney@smcgov.org
Phone Number: 6503726289

Status History:
Global Id: T0608100480
Status: Open - Case Begin Date
Status Date: 07/17/1987

Global Id: T0608100480
Status: Completed - Case Closed
Status Date: 11/04/1998

Regulatory Activities:
Global Id: T0608100480
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0608100480
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

Global Id: T0608100480
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0608100480
Action Type: ENFORCEMENT
Date: 07/17/1987
Action: Notice of Responsibility - #1

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 110019
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SHELL (Continued) **S104494539**

SAN MATEO CO. LUST:

Region:	SAN MATEO
Facility ID:	110019
Facility Status:	9- Case Closed
Global ID:	T0608100480
APN Number:	042242170
Case Type:	SAN MATEO CO. LUST
EDR Link ID:	SAN MATEO CO. LUST

RGA LUST:

2012	SHELL	4140 SOUTH EL CAMINO REAL
2011	SHELL	4140 SOUTH EL CAMINO REAL
2010	SHELL	4140 SOUTH EL CAMINO REAL
2009	SHELL	4140 SOUTH EL CAMINO REAL
2008	SHELL	4140 SOUTH EL CAMINO REAL
2007	SHELL	4140 EL CAMINO REAL
2006	SHELL	4140 EL CAMINO REAL
2005	SHELL	4140 EL CAMINO REAL
2004	SHELL	4140 EL CAMINO REAL
2003	SHELL	4140 EL CAMINO REAL
2002	SHELL	4140 EL CAMINO REAL
2001	SHELL	4140 EL CAMINO REAL
2000	SHELL	4140 EL CAMINO REAL
1998	SHELL	4140 EL CAMINO REAL
1997	SHELL	4140 EL CAMINO REAL
1996	SHELL	4140 EL CAMINO REAL
1995	SHELL	4140 EL CAMINO REAL
1994	SHELL	4140 EL CAMINO REAL
1993	SHELL	4140 EL CAMINO REAL
1992	SHELL	4140 EL CAMINO REAL

M59 **BLUE BIRD CLEANERS** **SLIC** **S112142843**
WNW **56 - 60 WEST 42ND AVENUE** **N/A**
1/4-1/2 **SAN MATEO, CA 94403**
0.474 mi.
2501 ft. **Site 4 of 4 in cluster M**

Relative:
Lower

Actual:
32 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Assessment & Interim Remedial Action**
Status Date:	08/31/2012
Global Id:	T10000004253
Lead Agency:	SAN MATEO COUNTY LOP
Lead Agency Case Number:	119178
Latitude:	37.5296646
Longitude:	-122.2907851
Case Type:	Cleanup Program Site
Case Worker:	MM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	Not reported
File Location:	State Records Center
Potential Media Affected:	Indoor Air, Other Groundwater (uses other than drinking water), Soil, Soil Vapor
Potential Contaminants of Concern:	Tetrachloroethylene (PCE), Trichloroethylene (TCE)
Site History:	Ectrated from RRM's July 26, 2013 Corective Action Report. San Mateo County does not take responsibility for the accuracy of the statements made or any professional interpretations made in the

BLUE BIRD CLEANERS (Continued) **S112142843**

referenced report. The site is located at the northeast corner of the intersection of 42nd Avenue and Piccadilly Lane in a commercial area of San Mateo, California. The site is developed with a one-story building that is divided into two tenant spaces. Blue Bird leases and operates the southwest portion of the building at 60 West 42nd Avenue. The other tenant space at 56 West 42nd Avenue is not currently leased. A hair salon is present in the adjacent east building, a paved alley and parking lot is located to the north, Piccadilly Lane is to the west, and 42nd Avenue is to the south. A paint store originally occupied the site and used a 500-gallon underground storage tank (UST) that was installed circa 1958 and used to store paint thinner. The site building interior space was divided in the late 1970s. A dry cleaning facility has operated at the site since approximately 1981. Prior to approximately 2007, the dry cleaning operation utilized tetrachloroethylene (PCE); currently a petroleum hydrocarbon-based dry cleaning machine is used. Former equipment, including a boiler and steam press are located at the rear portion of the dry cleaner space. A washing machine that is used regularly formerly discharged rinse water to a concrete-lined floor sump; the waters are now directly discharged to the sanitary sewer. The adjoining tenant space at the site has recently been leased to a thrift store and a carpet/flooring store. The aforementioned UST was closed in-place in 1988 under permit from the San Mateo County Environmental Health Department.

Click here to access the California GeoTracker records for this facility:

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60 WNW 1/4-1/2 0.478 mi. 2526 ft. | **BLUE BIRD CLEANERS 60 WEST 42 AVENUE SAN MATEO, CA 94403** | **LUST DRYCLEANERS San Mateo Co. BI EMI** | **1002848167 N/A**

Relative: Lower

Actual: 33 ft.

SAN MATEO CO. LUST:

Region:	SAN MATEO
Facility ID:	119178
Facility Status:	3B- Preliminary Assessment Underway
Global ID:	T10000004253
APN Number:	042242150
Case Type:	SAN MATEO CO. LUST
EDR Link ID:	SAN MATEO CO. LUST

DRYCLEANERS:

EPA Id:	CAL000034487
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	05/16/1990
Facility Active:	No
Inactive Date:	06/30/2000
Facility Addr2:	Not reported
Owner Name:	CHARLEY YI
Owner Address:	60 42ND AVE
Owner Address 2:	Not reported
Owner Telephone:	4156911077
Contact Name:	CHARLEY YI

BLUE BIRD CLEANERS (Continued) **1002848167**

Contact Address: INACT 00VQ FINAL NOTICE - BATCH
Contact Address 2: 4/10/01
Contact Telephone: 4153417869

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0016984
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0023237
Description: GENERATES <27 GAL/YEAR

Region: SAN MATEO
Facility ID: FA0016984
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0023238
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF

EMI:
Year: 1990
County Code: 41
Air Basin: SF
Facility ID: 4956
Air District Name: BA
SIC Code: 7216
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 1995
County Code: 41
Air Basin: SF
Facility ID: 4956
Air District Name: BA
SIC Code: 7216
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 1996
County Code: 41
Air Basin: SF
Facility ID: 4956

BLUE BIRD CLEANERS (Continued) **1002848167**

Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1997
County Code:	41
Air Basin:	SF
Facility ID:	4956
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1999
County Code:	41
Air Basin:	SF
Facility ID:	4956
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2000
County Code:	41
Air Basin:	SF
Facility ID:	4956
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0

BLUE BIRD CLEANERS (Continued) **1002848167**

Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2002
County Code:	41
Air Basin:	SF
Facility ID:	4956
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2003
County Code:	41
Air Basin:	SF
Facility ID:	4956
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2004
County Code:	41
Air Basin:	SF
Facility ID:	4956
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.405
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

BLUE BIRD CLEANERS (Continued) **1002848167**

Year:	2005
County Code:	41
Air Basin:	SF
Facility ID:	4956
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2006
County Code:	41
Air Basin:	SF
Facility ID:	4956
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.169
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2007
County Code:	41
Air Basin:	SF
Facility ID:	4956
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.236
Reactive Organic Gases Tons/Yr:	.1648696
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2008
County Code:	41
Air Basin:	SF
Facility ID:	4956
Air District Name:	BA
SIC Code:	7216

BLUE BIRD CLEANERS (Continued) **1002848167**

Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.32
Reactive Organic Gases Tons/Yr:	.128
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2009
County Code:	41
Air Basin:	SF
Facility ID:	4956
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.32000000000000001
Reactive Organic Gases Tons/Yr:	0.128
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2010
County Code:	41
Air Basin:	SF
Facility ID:	4956
Air District Name:	BA
SIC Code:	7216
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.32000000000000001
Reactive Organic Gases Tons/Yr:	0.128
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

N61 **VANCEA AUTO SERVICES** **LUST** **S102267426**
SE **900 EL CAMINO REAL** **N/A**
1/4-1/2 **BELMONT, CA 94002**
0.480 mi.
2532 ft. **Site 1 of 2 in cluster N**

Relative:
Lower

Actual:
47 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	120034
How Discovered:	OM
Leak Cause:	Unknown

VANCEA AUTO SERVICES (Continued) **S102267426**

Leak Source: Unknown
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

N62
SE
1/4-1/2
0.480 mi.
2532 ft.

VANCEA AUTO SERVICES
900 EL CAMINO REAL
BELMONT, CA 94002

LUST **S103967284**
San Mateo Co. BI **N/A**
RGA LUST

Site 2 of 2 in cluster N

Relative:
Lower

Actual:
47 ft.

LUST:
Region: STATE
Global Id: T0608100885
Latitude: 37.521071
Longitude: -122.277134
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/18/1996
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: JM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0966
LOC Case Number: 120034
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100885
Contact Type: Regional Board Caseworker
Contact Name: NANCY KATYL
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET
City: OAKLAND
Email: nkatyl@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0608100885
Contact Type: Local Agency Caseworker
Contact Name: JACOB MADDEN
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: jmadden@smcgov.org
Phone Number: 6503726298

Status History:
Global Id: T0608100885
Status: Open - Case Begin Date

VANCEA AUTO SERVICES (Continued) **S103967284**

Status Date: 08/28/1995

Global Id: T0608100885
Status: Completed - Case Closed
Status Date: 07/18/1996

Regulatory Activities:
Global Id: T0608100885
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0608100885
Action Type: ENFORCEMENT
Date: 09/07/1995
Action: Notice of Responsibility - #1

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 120034
Facility Status: 9- Case Closed
Global ID: T0608100885
APN Number: 045163070
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0023170
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0026516
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT

Region: SAN MATEO
Facility ID: FA0023170
Prog Element Code: LESS THAN 500 TIRES
Record Id: PR0045104
Description: LESS THAN 500 TIRES

Region: SAN MATEO
Facility ID: FA0023170
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0028060
Description: STORES MV FUELS OR WASTE ONLY

Region: SAN MATEO
Facility ID: FA0023174
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0026521
Description: UNDERGROUND TANK - GENERAL

RGA LUST:

2012	VANCEA AUTO SERVICES	900 EL CAMINO REAL
2011	VANCEA AUTO SERVICES	900 EL CAMINO REAL

VANCEA AUTO SERVICES (Continued) **S103967284**

2010	VANCEA AUTO SERVICES	900 EL CAMINO REAL
2009	VANCEA AUTO SERVICES	900 EL CAMINO REAL
2008	VANCEA AUTO SERVICES	900 EL CAMINO REAL
2007	VANCEA AUTO SERVICES	900 EL CAMINO REAL
2006	VANCEA AUTO SERVICES	900 EL CAMINO REAL
2005	VANCEA AUTO SERVICES	900 EL CAMINO REAL
2003	VANCEA AUTO SERVICES	900 EL CAMINO REAL
2002	VANCEA AUTO SERVICES	900 EL CAMINO REAL
2001	VANCEA AUTO SERVICES	900 EL CAMINO REAL
2000	VANCEA AUTO SERVICES	900 EL CAMINO REAL
1998	VANCEA AUTO SERVICES	900 EL CAMINO REAL
1997	VANCEA AUTO SERVICES	900 EL CAMINO REAL
1996	VANCEA AUTO SERVICES	900 EL CAMINO REAL

63
SE
1/4-1/2
0.490 mi.
2587 ft.

POST OFFICE PARLOR
935 OLD COUNTY RD
BELMONT, CA

LUST **S104493422**
RGA LUST **N/A**

Relative:
Lower

Actual:
38 ft.

LUST:

Region:	STATE
Global Id:	T0608100404
Latitude:	37.503413
Longitude:	-122.252738
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	03/15/1995
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	JM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0425
LOC Case Number:	120017
File Location:	Local Agency
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:

Contact:

Global Id:	T0608100404
Contact Type:	Local Agency Caseworker
Contact Name:	JACOB MADDEN
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	jmadden@smcgov.org
Phone Number:	6503726298

Global Id:	T0608100404
Contact Type:	Regional Board Caseworker
Contact Name:	NANCY KATYL
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET
City:	OAKLAND
Email:	nkatyl@waterboards.ca.gov
Phone Number:	Not reported

POST OFFICE PARLOR (Continued) **S104493422**

Status History:

Global Id:	T0608100404
Status:	Open - Case Begin Date
Status Date:	01/09/1990
Global Id:	T0608100404
Status:	Completed - Case Closed
Status Date:	03/15/1995

Regulatory Activities:

Global Id:	T0608100404
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0608100404
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0608100404
Action Type:	ENFORCEMENT
Date:	01/09/1990
Action:	Notice of Responsibility - #1

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	120017
How Discovered:	OM
Leak Cause:	Unknown
Leak Source:	Unknown
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

SAN MATEO CO. LUST:

Region:	SAN MATEO
Facility ID:	120017
Facility Status:	9- Case Closed
Global ID:	T0608100404
APN Number:	CONDOS
Case Type:	SAN MATEO CO. LUST
EDR Link ID:	SAN MATEO CO. LUST

RGA LUST:

2012	POST OFFICE PARLOR	935 OLD COUNTY
2011	POST OFFICE PARLOR	935 OLD COUNTY

POST OFFICE PARLOR (Continued) **S104493422**

2010	POST OFFICE PARLOR	935 OLD COUNTY
2009	POST OFFICE PARLOR	935 OLD COUNTY
2008	POST OFFICE PARLOR	935 OLD COUNTY
2007	POST OFFICE PARLOR	935 OLD COUNTY
2006	POST OFFICE PARLOR	935 OLD COUNTY
2005	POST OFFICE PARLOR	935 OLD COUNTY
2003	POST OFFICE PARLOR	935 OLD COUNTY
2002	POST OFFICE PARLOR	935 OLD COUNTY RD
2001	POST OFFICE PARLOR	935 OLD COUNTY RD
2000	POST OFFICE PARLOR	935 OLD COUNTY RD
1998	POST OFFICE PARLOR	935 OLD COUNTY RD
1997	POST OFFICE PARLOR	935 OLD COUNTY RD
1996	POST OFFICE PARLOR	935 OLD COUNTY RD
1995	POST OFFICE PARLOR	935 OLD COUNTY RD

64
East
1/2-1
0.747 mi.
3944 ft.

WESTPORT DEVELOPMENT PROJECT **ENVIROSTOR** **S101482231**
HIGHWAY 101 AND MARINE WORLD PARKWAY **N/A**
REDWOOD CITY, CA 94063

Relative:
Lower

Actual:
27 ft.

ENVIROSTOR:

Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	14
NPL:	NO
Regulatory Agencies:	RWQCB 2 - San Francisco Bay, SAN MATEO COUNTY
Lead Agency:	RWQCB 2 - San Francisco Bay
Program Manager:	Not reported
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Facility ID:	41650006
Site Code:	Not reported
Assembly:	22
Senate:	13
Special Program:	Not reported
Status:	Refer: Other Agency
Status Date:	03/21/1995
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.5264
Longitude:	-122.2699
APN:	NONE SPECIFIED
Past Use:	LANDFILL - CONSTRUCTION, LANDFILL - DOMESTIC
Potential COC:	Benzene, Tetrachloroethylene (PCE, Ethylbenzene, Toluene, Xylenes
Confirmed COC:	Benzene, Tetrachloroethylene (PCE, Ethylbenzene, Toluene, Xylenes, Toluene, Tetrachloroethylene (PCE, Ethylbenzene, Benzene, Xylenes
Potential Description:	OTH, SOIL
Alias Name:	41650006
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	02/16/1990
Comments:	Not reported

WESTPORT DEVELOPMENT PROJECT (Continued) **S101482231**

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

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65 ESE 1/2-1 0.759 mi. 4009 ft. | **BELMONT 511 O'NEIL AVE BELMONT, CA 94002** | **RCRA-SQG HIST CORTESE SLIC ENVIROSTOR** | **1001815535 CAR000056507**

Relative: Lower

Actual: 24 ft.

RCRA-SQG:

Date form received by agency:	02/25/2004
Facility name:	BELMONT
Facility address:	511 O'NEIL AVE BELMONT, CA 94002
EPA ID:	CAR000056507
Mailing address:	2525 W. 190TH STREET M/S 23-1-62 TORRANCE, CA 90504
Contact:	BENNY DEHGHI
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(310) 512-2296
Contact email:	BENNY.DEHGHI@HONEYWELL.COM
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:	HONEYWELL INTERNATIONAL INC
Owner/operator address:	19782 MACARTHUR BLVD SUITE 260 IRVINE, CA 92612
Owner/operator country:	Not reported
Owner/operator telephone:	(949) 863-1877
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	HONEYWELL INT'L INC./PUREX INDUST.
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator

BELMONT (Continued) **1001815535**

Owner/Op start date: 01/01/1961
Owner/Op end date: Not reported

Owner/operator name: WILLIAM HOWARD JONES & C.S.
Owner/operator address: 511 O'NEIL AVE
BELMONT, CA 94002
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1978
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/25/2004
Facility name: BELMONT
Classification: Large Quantity Generator

Date form received by agency: 06/24/2002
Facility name: BELMONT
Site name: PUREX INDUSTRIES INC
Classification: Large Quantity Generator

Date form received by agency: 02/25/2002
Facility name: BELMONT
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Facility name: BELMONT
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Waste code: D040
Waste name: TRICHLOROETHYLENE

Violation Status: No violations found

BELMONT (Continued) **1001815535**

HIST CORTESE:

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-1197

SLIC:

Region:	STATE
Facility Status:	**Open - Remediation**
Status Date:	06/14/2004
Global Id:	SL18385805
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	129003
Latitude:	37.520366
Longitude:	-122.271711
Case Type:	Cleanup Program Site
Case Worker:	CLP
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41S0084
File Location:	Regional Board
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern:	Trichloroethylene (TCE)
Site History:	plume defined; remedial actions underway; occasional offsite access issues may impede downgradient remedial activities; Belmont Creek 1/4 mile SE (downgradient) of site. Some offsite properties have risk management requirements for certain construction or excavation activities, primarily for protection of human health, until site cleanup is complete. These parcels are flagged in the City of Belmont and/or San Mateo County Building Dept. databases, and certain building permits will be held until need for risk management has been determined and addressed. See "BBI-Purex 2005 Institutional Controls Plan" on the site documents page for specific information.

Click here to access the California GeoTracker records for this facility:

SLIC REG 2:

Region:	2
Facility ID:	41S0084
Facility Status:	Remedial action (cleanup) Underway
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

ENVIROSTOR:

Site Type:	Historical
Site Type Detailed:	* Historical

BELMONT (Continued) **1001815535**

Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Facility ID: 41280134
Site Code: Not reported
Assembly: 22
Senate: 13
Special Program: * Site Char & Assess Grant (CERCLA 104)
Status: Refer: RCRA
Status Date: 06/08/1994
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 37.52053
Longitude: -122.2712
APN: 046030280
Past Use: NONE SPECIFIED
Potential COC: * UNSPECIFIED SOLVENT MIXTURES
Confirmed COC: * UNSPECIFIED SOLVENT MIXTURES, NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 046030280
Alias Type: APN
Alias Name: CAD980636930
Alias Type: EPA Identification Number
Alias Name: 110006486436
Alias Type: EPA (FRS #)
Alias Name: 41280134
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 10/12/1983
Comments: FACILITY IDENTIFIED ID FROM ERRIS

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 08/04/1981
Comments: FACILITY IDENTIFIED SITE IDENTIFIED ON EPA SUPERFUND LIST.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 04/01/1985
Comments: SOURCE ACT: DISTRIBUTOR & RECYCLER OF SOLVENTS. SUBMIT TO EPA PRELIM ASSESS DONE CERCLA 104

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

BELMONT (Continued) **1001815535**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

66
SE
1/2-1
0.899 mi.
4745 ft.

Relative:
Lower

Actual:
30 ft.

WESTERN GRINDING SERVICE INC
601 HARBOR BLVD
BELMONT, CA 94002

RCRA-SQG **1000403206**
FINDS **CAD982030751**
HIST Cal-Sites
RESPONSE
San Mateo Co. BI
HAZNET
ENVIROSTOR

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	WESTERN GRINDING SERVICE INC
Facility address:	601 HARBOR BLVD BELMONT, CA 94002
EPA ID:	CAD982030751
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Land type:	Facility is not located on Indian land. Additional information is not known.
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:	WILSON WILLIAM P
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

WESTERN GRINDING SERVICE INC (Continued) **1000403206**

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/14/1987
Facility name: WESTERN GRINDING SERVICE INC
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 12/06/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

FINDS:

Registry ID: 110002782757

Environmental Interest/Information System

California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor 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.

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.

WESTERN GRINDING SERVICE INC (Continued) **1000403206**

Calsite:

Facility ID:	41990002
Region:	2
Region Name:	BERKELEY
Branch:	NC
Branch Name:	NORTH COAST
File Name:	Not reported
State Senate District:	03011984
Status:	CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT
Status Name:	CERTIFIED
Lead Agency:	Not reported
Lead Agency:	N/A
Facility Type:	RP
Type Name:	RESPONSIBLE PARTY
NPL:	Not reported
SIC Code:	99
SIC Name:	NONCLASSIFIABLE ESTABLISHMENTS
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Not reported
Staff Member Responsible for Site:	HATIQEE
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	SF
Region Water Control Board Name:	SAN FRANCISCO BAY
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	21
State Senate District Code:	11
Facility ID:	41990002
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03011984
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	41990002

WESTERN GRINDING SERVICE INC (Continued) **1000403206**

Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03011984
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	500
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	601 HARBOR BOULEVARD
Alternate City,St,Zip:	BELMONT, CA 94002
Background Info:	From 1953 until the present, Western Grinding Services (WGS) operated a machine shop at the Site that produced precision ground and machined parts for various industries. Activities at the Site prior to 1953 are unknown. Chemicals used included coolants, lubricants and corrosion resistant chemicals. Metal grinding residues are a by-product of the grinding process. Grinding residues were disposed in an on-site pond behind the facility. In January of 1980, the San Francisco Bay Regional Water Quality Control Board (RWQCB) inspected the Site and observed leachate runoff from the pond, and oil and detergent leakage from barrels stored on-site. The Department of Health Services, Toxic Substances Control Division (DHS, currently DTSC) inspected the Site in June of 1981 and March of 1983. Samples were collected during both events from the drum storage area, grinding residues, and a railroad embankment adjacent to WGS. Lead, zinc, nickel, copper, chromium, and oil and grease were detected, with lead as high as 1120 parts per million (ppm) and chromium as high as 6670 ppm. In July of 1983 DHS directed WGS to remove the contaminated soil from on and off its property.
Comments Date:	03011984
Comments:	Completed RA. Approximately 150 cubic yards of soil was removed
Comments Date:	03011984
Comments:	from the drum storage area, pond, and railroad embankment.
Comments Date:	03011984
Comments:	Post-excavation confirmation samples were taken for lead,
Comments Date:	03011984
Comments:	chromium, zinc, and nickel, and the residual levels detected
Comments Date:	03011984
Comments:	were below standards considered safe for residential use.
Comments Date:	03011984
Comments:	Certified Site.
ID Name:	Not reported

WESTERN GRINDING SERVICE INC (Continued) **1000403206**

ID Value: Not reported
Alternate Name: WESTERN GRINDING SERVICES
Special Programs Code: Not reported
Special Programs Name: Not reported

RESPONSE:
Facility ID: 41990002
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 0.6
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Homayune Atiqee
Supervisor: Mark Piros
Division Branch: Cleanup Berkeley
Site Code: Not reported
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 22
Senate: 13
Special Program Status: Not reported
Status: Certified
Status Date: 03/08/1984
Restricted Use: NO
Funding: Responsible Party
Latitude: 37.51820
Longitude: -122.2699
APN: 046-041-180, 046041180
Past Use: MACHINE SHOP
Potential COC : Total Chromium (1:6 ratio Cr VI:Cr III Lead Nickel Zinc
Confirmed COC: Nickel Total Chromium (1:6 ratio Cr VI:Cr III Lead Zinc
Potential Description: SOIL
Alias Name: 046-041-180
Alias Type: APN
Alias Name: 046041180
Alias Type: APN
Alias Name: 110002782757
Alias Type: EPA (FRS #)
Alias Name: 41990002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/10/1984
Comments: Completed RA. Approximately 150 cubic yards of soil was removed from the drum storage area, pond, and railroad embankment. Post-excavation confirmation samples were taken for lead, chromium, zinc, and nickel, and the residual levels detected were below standards considered safe for residential use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 07/16/2002
Comments: Cleanup activities took place in the past. No further work is

WESTERN GRINDING SERVICE INC (Continued) **1000403206**

required at that site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 03/08/1984
Comments: Certified Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 07/01/1983
Comments: In January of 1980, the San Francisco Bay Regional Water Quality Control Board (RWQCB) inspected the Site and observed leachate runoff from the pond, and oil and detergent leakage from barrels stored on-site. The Department of Health Services, Toxic Substances Control Division (DHS, currently DTSC) inspected the Site in June of 1981 and March of 1983. Samples were collected during both events from the drum storage area, grinding residues, and a railroad embankment adjacent to WGS. Lead, zinc, nickel, copper, chromium, and oil and grease were detected, with lead as high as 1120 parts per million (ppm) and chromium as high as 6670 ppm. In July of 1983 DHS directed WGS to remove the contaminated soil from on and off its property.

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

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0000880
Prog Element Code: GEN <1 TONS HAZ WASTE/YR
Record Id: PR0010857
Description: GEN <1 TONS HAZ WASTE/YR

Region: SAN MATEO
Facility ID: FA0000880
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id: PR0003520
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF

HAZNET:
Year: 2012
Gepaid: CAD982030751
Contact: ROBERT BRINDLE
Telephone: 6505912635
Mailing Name: Not reported
Mailing Address: 601 HARBOR BLVD
Mailing City,St,Zip: BELMONT, CA 940020000
Gen County: San Mateo

WESTERN GRINDING SERVICE INC (Continued) **1000403206**

TSD EPA ID: CAD980887418
TSD County: Alameda
Waste Category: Not reported
Disposal Method: Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons: 6.63864
Facility County: San Mateo

Year: 2012
Gepaid: CAD982030751
Contact: ROBERT BRINDLE
Telephone: 6505912635
Mailing Name: Not reported
Mailing Address: 601 HARBOR BLVD
Mailing City,St,Zip: BELMONT, CA 940020000
Gen County: San Mateo
TSD EPA ID: CAD980887418
TSD County: Alameda
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 6.16326
Facility County: San Mateo

Year: 2012
Gepaid: CAD982030751
Contact: ROBERT BRINDLE
Telephone: 6505912635
Mailing Name: Not reported
Mailing Address: 601 HARBOR BLVD
Mailing City,St,Zip: BELMONT, CA 940020000
Gen County: San Mateo
TSD EPA ID: CA0000084517
TSD County: Sacramento
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 2.1504
Facility County: San Mateo

Year: 2011
Gepaid: CAD982030751
Contact: ROBERT BRINDLE
Telephone: 6505912635
Mailing Name: Not reported
Mailing Address: 601 HARBOR BLVD
Mailing City,St,Zip: BELMONT, CA 940020000
Gen County: Not reported
TSD EPA ID: CA0000084517
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.882
Facility County: San Mateo

Year: 2011

WESTERN GRINDING SERVICE INC (Continued) **1000403206**

Gepaid:	CAD982030751
Contact:	ROBERT BRINDLE
Telephone:	6505912635
Mailing Name:	Not reported
Mailing Address:	601 HARBOR BLVD
Mailing City,St,Zip:	BELMONT, CA 940020000
Gen County:	Not reported
TSD EPA ID:	CAD980887418
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues 10 percent or more
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	19.92009
Facility County:	San Mateo

Click this hyperlink while viewing on your computer to access
68 additional CA_HAZNET: record(s) in the EDR Site Report.

ENVIROSTOR:

Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	0.6
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Homayune Atiqee
Supervisor:	Mark Piros
Division Branch:	Cleanup Berkeley
Facility ID:	41990002
Site Code:	Not reported
Assembly:	22
Senate:	13
Special Program:	Not reported
Status:	Certified
Status Date:	03/08/1984
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.51820
Longitude:	-122.2699
APN:	046-041-180, 046041180
Past Use:	MACHINE SHOP
Potential COC:	Total Chromium (1:6 ratio Cr VI:Cr III, Lead, Nickel, Zinc
Confirmed COC:	Total Chromium (1:6 ratio Cr VI:Cr III, Lead, Nickel, Zinc, Nickel, Total Chromium (1:6 ratio Cr VI:Cr III, Lead, Zinc
Potential Description:	SOIL
Alias Name:	046-041-180
Alias Type:	APN
Alias Name:	046041180
Alias Type:	APN
Alias Name:	110002782757
Alias Type:	EPA (FRS #)
Alias Name:	41990002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE

WESTERN GRINDING SERVICE INC (Continued) **1000403206**

Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/10/1984
Comments: Completed RA. Approximately 150 cubic yards of soil was removed from the drum storage area, pond, and railroad embankment. Post-excavation confirmation samples were taken for lead, chromium, zinc, and nickel, and the residual levels detected were below standards considered safe for residential use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 07/16/2002
Comments: Cleanup activities took place in the past. No further work is required at that site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 03/08/1984
Comments: Certified Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 07/01/1983
Comments: In January of 1980, the San Francisco Bay Regional Water Quality Control Board (RWQCB) inspected the Site and observed leachate runoff from the pond, and oil and detergent leakage from barrels stored on-site. The Department of Health Services, Toxic Substances Control Division (DHS, currently DTSC) inspected the Site in June of 1981 and March of 1983. Samples were collected during both events from the drum storage area, grinding residues, and a railroad embankment adjacent to WGS. Lead, zinc, nickel, copper, chromium, and oil and grease were detected, with lead as high as 1120 parts per million (ppm) and chromium as high as 6670 ppm. In July of 1983 DHS directed WGS to remove the contaminated soil from on and off its property.

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

67 ESE 1/2-1 0.915 mi. 4831 ft. | **TEXACO, INC**
475 HARBOR BLVD.
REDWOOD CITY, CA 94063 | **ENVIROSTOR** | **S100194724**
N/A

Relative: Lower

Actual: 21 ft.

ENVIROSTOR:

Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	10
NPL:	NO
Regulatory Agencies:	HWMP
Lead Agency:	HWMP
Program Manager:	Not reported
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Facility ID:	41460001
Site Code:	Not reported
Assembly:	22
Senate:	13
Special Program:	* RCRA 3012 - Past Haz Waste Disp Inven Site
Status:	Refer: RCRA
Status Date:	08/28/2002
Restricted Use:	NO
Site Mgmt. Req.:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.4994
Longitude:	-122.212
APN:	NONE SPECIFIED
Past Use:	JET FUEL STORAGE/REFUELING
Potential COC:	* WASTE OIL & MIXED OIL
Confirmed COC:	* WASTE OIL & MIXED OIL, NONE SPECIFIED
Potential Description:	OTH, SOIL
Alias Name:	HUGHES AVIATIONS OPER
Alias Type:	Alternate Name
Alias Name:	PACIFIC SOUTHWEST TRADING
Alias Type:	Alternate Name
Alias Name:	SUBSID OF PACIFIC SOUTHWEST AIRLINES
Alias Type:	Alternate Name
Alias Name:	CAD000626689
Alias Type:	EPA Identification Number
Alias Name:	41460001
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	08/28/2002
Comments:	Site referred to DTSC Permitting Branch.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	10/12/1983
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery

TEXACO, INC (Continued) **S100194724**

Completed Date: 08/01/1980
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

68
ESE
1/2-1
0.942 mi.
4972 ft.

WESGO, INC.
477 HARBOR BOULEVARD
BELMONT, CA 94002

ENVIROSTOR **S108206437**
N/A

Relative:
Lower

Actual:
22 ft.

ENVIROSTOR:
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Berkeley
Facility ID: 71002106
Site Code: Not reported
Assembly: 22
Senate: 13
Special Program: Not reported
Status: Inactive - Needs Evaluation
Status Date: Not reported
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 37.51908
Longitude: -122.2684
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED, NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD000107268
Alias Type: EPA Identification Number
Alias Name: 71002106
Alias Type: Envirostor ID Number

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

WESGO, INC. (Continued) **S108206437**

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

Count: 20 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BELMONT	S113757291	RANCHO PULGAS PUMPING SITE	1309A HWY 280 MILE POST 9.4	94002	San Mateo Co. BI
BELMONT	S109953980	T MOBILE WEST CORP SITE ID SF03091	2520 EL CAMINO REAL	94002	San Mateo Co. BI
BELMONT	S114230653		519 C MARINE VIEW AVE		RGA LUST
BELMONT	S114189073		0 MARINE VIEW AVE		RGA LUST
BELMONT	S114492648		1695 OLD COUNTY RD.		RGA LF
BELMONT	S113407597	PLASTIC SMITH, THE	1561 OLD COUNTY	94002	San Mateo Co. BI
BELMONT	1001201260	PROTO METALS	1565 OLD COUNTY ROAD	94002	CERCLIS
FOSTER CITY	S113758629	SPRINT NEXTEL SF36XC070	1010 FRONTAGE RD / HWY 92	94404	San Mateo Co. BI
FOSTER CITY	S113758243	SPRINT NEXTEL CA2101	324 FRONTAGE RD / HWY 92	94404	San Mateo Co. BI
REDWOOD CITY	1003879425	REDWOOD SHORE LANDFILL	REDWOOD SHORE	94065	CERC-NFRAP
SAN CARLOS	S113757636	NEXTEL- SITE ID CA-0868	601 HWY 280-LOWER CORRIDOR	94070	San Mateo Co. BI
SAN CARLOS	S106981831	SAN CARLOS/BELMONT GRADE SEPARATIO	501 EL CAMINO	94070	San Mateo Co. BI
SAN CARLOS	S103723168	JIFFY LUBE #3610	1030 EL CAMINO REAL	94070	HIST CORTESE, LUST, LOS ANGELE CO. HMS
SAN CARLOS	S113758530	CELL SITE FS04 X C320	1161 EDGEWOOD RD & HWY 280	94070	San Mateo Co. BI
SAN CARLOS	S113758770	SPRINT NEXTEL CELL SITE SF54XC250	1030 VISTA PT 2 - HWY 280	94070	San Mateo Co. BI
SAN CARLOS	S110376364	VERIZON WIRELESS-HWY 280/EDGEWOOD	#2 VISTA POINTE OF HWY 280	94070	San Mateo Co. BI
SAN MATEO	S108937442	BIG O TIRES & SERVICE CTR	2160 EL CAMINO	94403	San Mateo Co. BI
SAN MATEO	S106982121	CURUSIS INVESTMENTS LTD	520 EL CAMINO REAL	94403	San Mateo Co. BI
SAN MATEO	S113757319	PULGAS WATER TEMPLE	2 CANADA RD/S OF HWY 92	94403	San Mateo Co. BI
SAN MATEO	S101594083	MARINA LAGOON PUMP STATION	2100 DETROIT DR	94404	CA FID UST, SWEEPS UST, CHMIRS San Mateo Co. BI

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: 04/26/2013
Date Data Arrived at EDR: 05/09/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 01/21/2014
Next Scheduled EDR Contact: 04/21/2014
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 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

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: 04/26/2013
Date Data Arrived at EDR: 05/09/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 01/09/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

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: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 01/09/2014
Number of Days to Update: 62	Next Scheduled EDR Contact: 04/21/2014
	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: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/29/2013	Telephone: 703-412-9810
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 03/10/2014
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/31/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/08/2013	Telephone: 703-603-8704
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 01/10/2014
Number of Days to Update: 151	Next Scheduled EDR Contact: 04/21/2014
	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: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/29/2013	Telephone: 703-412-9810
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 03/10/2014
	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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
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: 06/17/2013
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 104

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
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: 06/17/2013
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 104

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
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: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 03/03/2014
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: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 66

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/10/2014
Next Scheduled EDR Contact: 04/14/2014
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: 11/06/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/03/2013
Number of Days to Update: 27

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/06/2013
Next Scheduled EDR Contact: 02/17/2014
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: 11/06/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/03/2013
Number of Days to Update: 27

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/06/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/18/2013
Date Data Arrived at EDR: 11/21/2013
Date Made Active in Reports: 01/02/2014
Number of Days to Update: 42

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/21/2013
Next Scheduled EDR Contact: 03/03/2014
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: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Quarterly

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/16/2014
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
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: 08/27/2013
Date Data Arrived at EDR: 08/27/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 66

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
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: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

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: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/06/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 29

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

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: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Quarterly

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: 09/28/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 156

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2014
Next Scheduled EDR Contact: 02/11/2014
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: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

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: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

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: 07/29/2013
Date Data Arrived at EDR: 08/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 92

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
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: 07/29/2013
Date Data Arrived at EDR: 07/30/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 129

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
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: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

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: 09/17/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 66

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

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: 11/06/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/03/2013
Number of Days to Update: 27

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/06/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/24/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/24/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: No Update Planned

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

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: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/20/2013
Date Data Arrived at EDR: 11/25/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 36

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 03/03/2014
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: 11/04/2013
Next Scheduled EDR Contact: 02/17/2014
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: 08/06/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 22

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 12/05/2013
Next Scheduled EDR Contact: 03/17/2014
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: 11/06/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/03/2013
Number of Days to Update: 27

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/06/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2013
Date Data Arrived at EDR: 09/03/2013
Date Made Active in Reports: 10/10/2013
Number of Days to Update: 37

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
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: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 04/25/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/13/2013
Next Scheduled EDR Contact: 02/11/2014
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: 10/08/2013
Date Data Arrived at EDR: 10/15/2013
Date Made Active in Reports: 11/27/2013
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
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: 12/09/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 24

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/10/2013
Next Scheduled EDR Contact: 03/24/2014
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: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 76

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 01/13/2014
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: 10/14/2013
Date Data Arrived at EDR: 10/30/2013
Date Made Active in Reports: 12/03/2013
Number of Days to Update: 34

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 10/30/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 18

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/06/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2014
Next Scheduled EDR Contact: 04/28/2014
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: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/13/2013
Next Scheduled EDR Contact: 03/24/2014
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: 06/30/2013
Date Data Arrived at EDR: 08/07/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/14/2014
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: 04/26/2013
Date Data Arrived at EDR: 06/11/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 143

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/12/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/26/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 09/05/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 28

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/06/2013
Next Scheduled EDR Contact: 03/17/2014
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: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/27/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/07/2014
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: 11/21/2013
Next Scheduled EDR Contact: 03/10/2014
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: 11/21/2014
Next Scheduled EDR Contact: 03/10/2014
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: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/09/2014
Next Scheduled EDR Contact: 04/28/2014
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: 06/01/2013
Date Data Arrived at EDR: 07/17/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 107

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/28/2014
Next Scheduled EDR Contact: 04/28/2014
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: 07/22/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
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: 09/30/2013
Date Data Arrived at EDR: 10/09/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/10/2014
Next Scheduled EDR Contact: 04/21/2014
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: 03/08/2013
Date Data Arrived at EDR: 03/21/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 111

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/10/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/25/2013
Next Scheduled EDR Contact: 03/10/2014
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

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 09/25/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/19/2013
Date Data Arrived at EDR: 11/21/2013
Date Made Active in Reports: 01/02/2014
Number of Days to Update: 42

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/21/2013
Next Scheduled EDR Contact: 03/03/2014
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).

Date of Government Version: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 11/26/2013
Number of Days to Update: 56

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/31/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 04/07/2014
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: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/16/2013
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Annually

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/09/2013
Date Data Arrived at EDR: 08/13/2013
Date Made Active in Reports: 10/08/2013
Number of Days to Update: 56

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/08/2013
Next Scheduled EDR Contact: 02/11/2014
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: 12/31/2012
Date Data Arrived at EDR: 07/16/2013
Date Made Active in Reports: 08/26/2013
Number of Days to Update: 41

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/17/2014
Next Scheduled EDR Contact: 04/28/2014
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: 12/31/2010
Date Data Arrived at EDR: 06/25/2013
Date Made Active in Reports: 08/22/2013
Number of Days to Update: 58

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/07/2014
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: 01/15/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Varies

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: 11/21/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Quarterly

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013
Date Data Arrived at EDR: 07/03/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 72

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Quarterly

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013
Date Data Arrived at EDR: 02/14/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST
EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 06/30/2013
Date Data Arrived at EDR: 08/13/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List
The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/31/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/03/2013
Number of Days to Update: 27

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/25/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/18/2013
Date Data Arrived at EDR: 11/19/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 42

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/01/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/13/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 10/28/2013
Date Data Arrived at EDR: 10/29/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 38

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Quarterly

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: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
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: 01/15/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: N/A

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Annually

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
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: 09/20/2013
Date Data Arrived at EDR: 12/11/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 24

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
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: 10/15/2013
Date Data Arrived at EDR: 10/15/2013
Date Made Active in Reports: 11/27/2013
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/14/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 11/26/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/26/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank
The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: EDR
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List
The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: EDR
Telephone: N/A
Last EDR Contact: 06/01/2012
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: 11/13/2013
Date Data Arrived at EDR: 11/15/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 31

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/30/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Semi-Annually

Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 11/13/2013
Date Data Arrived at EDR: 11/15/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 46

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/30/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List
Cupa Facility List

Date of Government Version: 12/05/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 24

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 08/22/2013
Number of Days to Update: 20

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 11/26/2013
Number of Days to Update: 56

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/30/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 06/20/2013
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 08/09/2013
Number of Days to Update: 39

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/18/2013
Date Data Arrived at EDR: 11/19/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 42

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 11/04/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/09/2013
Date Data Arrived at EDR: 01/10/2013
Date Made Active in Reports: 02/25/2013
Number of Days to Update: 46

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 11/04/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/18/2013
Date Data Arrived at EDR: 11/19/2013
Date Made Active in Reports: 01/14/2014
Number of Days to Update: 56

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 11/04/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 09/30/2013
Date Data Arrived at EDR: 10/16/2013
Date Made Active in Reports: 11/27/2013
Number of Days to Update: 42

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/20/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 11/06/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/04/2013
Number of Days to Update: 28

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/10/2014
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: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/12/2013
Date Data Arrived at EDR: 12/13/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 25

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/25/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 33

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/28/2013
Date Data Arrived at EDR: 06/17/2013
Date Made Active in Reports: 08/21/2013
Number of Days to Update: 65

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/21/2013
Date Data Arrived at EDR: 10/22/2013
Date Made Active in Reports: 11/27/2013
Number of Days to Update: 36

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/21/2014
Next Scheduled EDR Contact: 05/05/2014
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: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/30/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 03/25/2013
Number of Days to Update: 32

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 10/21/2013
Date Data Arrived at EDR: 10/25/2013
Date Made Active in Reports: 11/27/2013
Number of Days to Update: 33

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
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: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 07/15/2013
Date Data Arrived at EDR: 07/18/2013
Date Made Active in Reports: 08/20/2013
Number of Days to Update: 33

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 09/20/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/18/2013
Number of Days to Update: 24

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/20/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 10/07/2013
Date Data Arrived at EDR: 10/09/2013
Date Made Active in Reports: 11/26/2013
Number of Days to Update: 48

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 08/23/2013
Date Data Arrived at EDR: 08/27/2013
Date Made Active in Reports: 10/08/2013
Number of Days to Update: 42

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/20/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List

CUPA Facility List

Date of Government Version: 12/02/2013
Date Data Arrived at EDR: 12/03/2013
Date Made Active in Reports: 01/02/2014
Number of Days to Update: 30

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 09/11/2013
Date Data Arrived at EDR: 09/12/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 32

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 11/20/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
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: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/06/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 12/04/2013
Number of Days to Update: 27

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 11/04/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 11/04/2013
Date Data Arrived at EDR: 11/13/2013
Date Made Active in Reports: 12/04/2013
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2013
Date Data Arrived at EDR: 11/13/2013
Date Made Active in Reports: 12/04/2013
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 11/04/2013
Date Data Arrived at EDR: 11/13/2013
Date Made Active in Reports: 12/04/2013
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 12/09/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 28

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/10/2013
Date Data Arrived at EDR: 10/22/2013
Date Made Active in Reports: 11/27/2013
Number of Days to Update: 36

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/19/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/10/2013
Date Data Arrived at EDR: 10/22/2013
Date Made Active in Reports: 11/27/2013
Number of Days to Update: 36

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/19/2013
Next Scheduled EDR Contact: 04/07/2014
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: 08/05/2013
Date Data Arrived at EDR: 10/10/2013
Date Made Active in Reports: 11/26/2013
Number of Days to Update: 47

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/06/2014
Next Scheduled EDR Contact: 04/21/2014
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: 08/05/2013
Date Data Arrived at EDR: 10/10/2013
Date Made Active in Reports: 11/26/2013
Number of Days to Update: 47

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/06/2014
Next Scheduled EDR Contact: 04/21/2014
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: 11/26/2013
Date Data Arrived at EDR: 11/27/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 34

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
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: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2013
Date Data Arrived at EDR: 11/19/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 42

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 02/11/2014
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: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
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: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
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: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 12/18/2013
Date Data Arrived at EDR: 12/19/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 20

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/26/2013
Date Data Arrived at EDR: 08/27/2013
Date Made Active in Reports: 10/10/2013
Number of Days to Update: 44

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/20/2013
Next Scheduled EDR Contact: 03/10/2014
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: 10/01/2013
Date Data Arrived at EDR: 10/08/2013
Date Made Active in Reports: 11/26/2013
Number of Days to Update: 49

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/16/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 12/12/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/12/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/21/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 09/03/2013
Date Data Arrived at EDR: 09/04/2013
Date Made Active in Reports: 10/10/2013
Number of Days to Update: 36

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 12/02/2013
Date Data Arrived at EDR: 12/03/2013
Date Made Active in Reports: 01/02/2014
Number of Days to Update: 30

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/12/2013
Date Data Arrived at EDR: 11/15/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 49

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 11/08/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 12/09/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 24

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 12/03/2013
Date Data Arrived at EDR: 12/04/2013
Date Made Active in Reports: 01/02/2014
Number of Days to Update: 29

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/21/2013
Next Scheduled EDR Contact: 03/10/2014
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: 12/16/2013
Date Data Arrived at EDR: 12/18/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 21

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/12/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/19/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 20

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/12/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 11/26/2013
Number of Days to Update: 56

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/30/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/01/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 11/26/2013
Number of Days to Update: 55

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/30/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 12/10/2013
Date Data Arrived at EDR: 12/11/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 24

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/04/2013
Number of Days to Update: 28

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 10/29/2013
Date Data Arrived at EDR: 11/21/2013
Date Made Active in Reports: 01/14/2014
Number of Days to Update: 54

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/19/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/21/2014
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: 11/19/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Quarterly

Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 10/02/2013
Date Data Arrived at EDR: 10/30/2013
Date Made Active in Reports: 11/27/2013
Number of Days to Update: 28

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
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: 11/26/2013
Date Data Arrived at EDR: 12/18/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 21

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/16/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/18/2013
Date Data Arrived at EDR: 12/24/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 15

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 12/06/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 25

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 12/06/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/22/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/17/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 11/01/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 11/18/2013
Number of Days to Update: 11

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/07/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 07/24/2013
Date Made Active in Reports: 08/19/2013
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 08/05/2013
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/25/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 08/09/2013
Date Made Active in Reports: 09/27/2013
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/11/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 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

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

DAVEY GLEN
400 EL CAMINO REAL
BELMONT, CA 94002

TARGET PROPERTY COORDINATES

Latitude (North):	37.5261 - 37˚ 31' 33.96''
Longitude (West):	122.2835 - 122˚ 17' 0.60''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	563311.4
UTM Y (Meters):	4153273.5
Elevation:	64 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	37122-E3 SAN MATEO, CA
Most Recent Revision:	1999

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

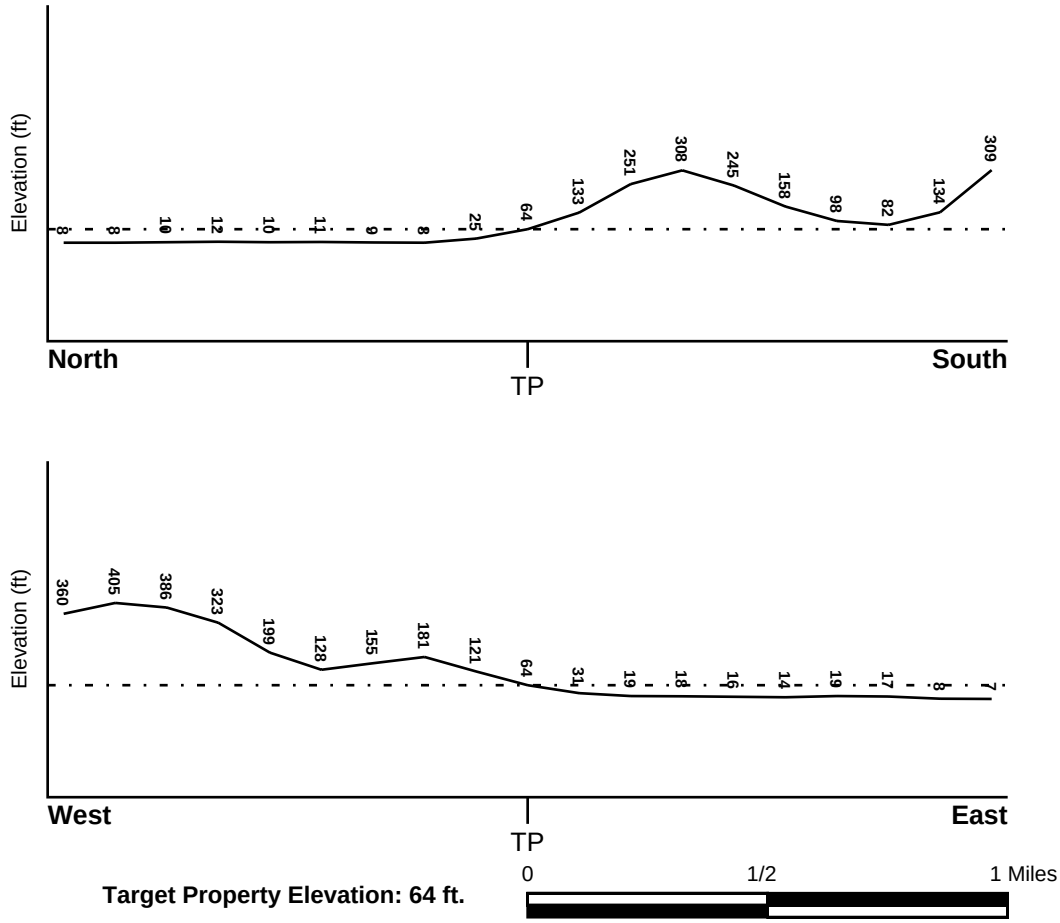
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 64 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
SAN MATEO, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	0650160005B - FEMA Q3 Flood data
Additional Panels in search area:	0603180010C - FEMA Q3 Flood data
	0603280000B - FEMA Q3 Flood data
	0603250004B - FEMA Q3 Flood data
	0603110144B - FEMA Q3 Flood data
	0603270001B - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
SAN MATEO	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
1	1/4 - 1/2 Mile NW	Not Reported
A2	1/2 - 1 Mile NW	E
A3	1/2 - 1 Mile NW	ENE
5	1/2 - 1 Mile NW	E
6	1/2 - 1 Mile SE	NNW

* ©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
7	1/2 - 1 Mile NW	ENE

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

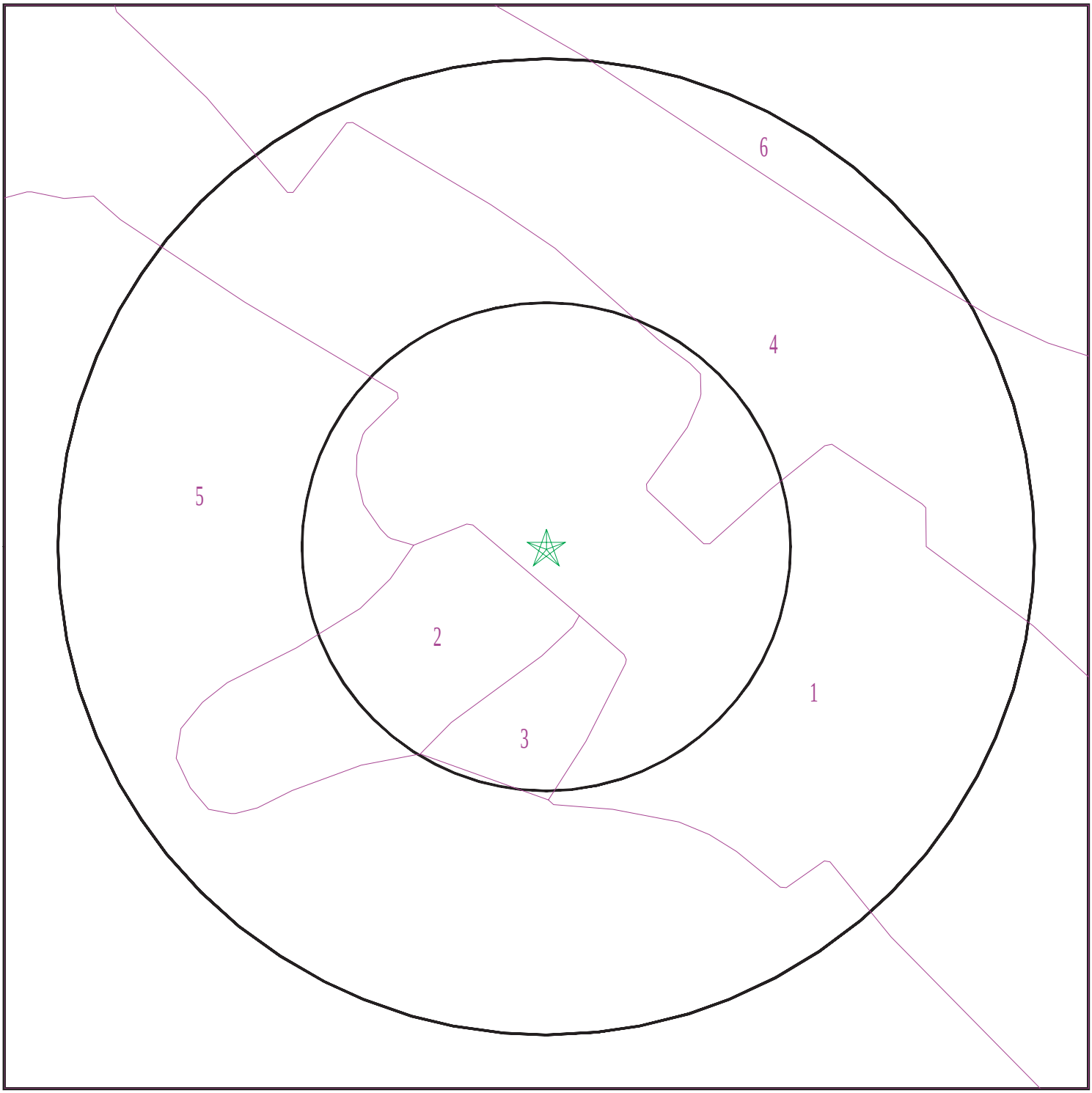
Era:	Mesozoic
System:	Cretaceous
Series:	Upper Mesozoic
Code:	uMze*(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3838499.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME: Davey Glen ADDRESS: 400 EL CAMINO REAL Belmont CA 94002 LAT/LONG: 37.5261 / 122.2835	CLIENT: WEST CONTACT: Peter Morris INQUIRY #: 3838499.2s DATE: January 24, 2014 3:16 pm

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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: Urban land

Soil Surface Texture:
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:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

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	5 inches		Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:

Soil Map ID: 2

Soil Component Name: Los Gatos

Soil Surface Texture: 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: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 91 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	22 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.3 Min: 5.6
2	22 inches	35 inches	sandy 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: 7.3 Min: 5.6
3	35 inches	40 inches	unweathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 3

Soil Component Name: Orthents

Soil Surface Texture: variable

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

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

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	59 inches	variable	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 4

Soil Component Name: Urban land

Soil Surface Texture:
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:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

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	5 inches		Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:

Soil Map ID: 5

Soil Component Name: Orthents

Soil Surface Texture:
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

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	59 inches		Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 6

Soil Component Name: Urban land

Soil Surface Texture:
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:
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

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	5 inches		Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

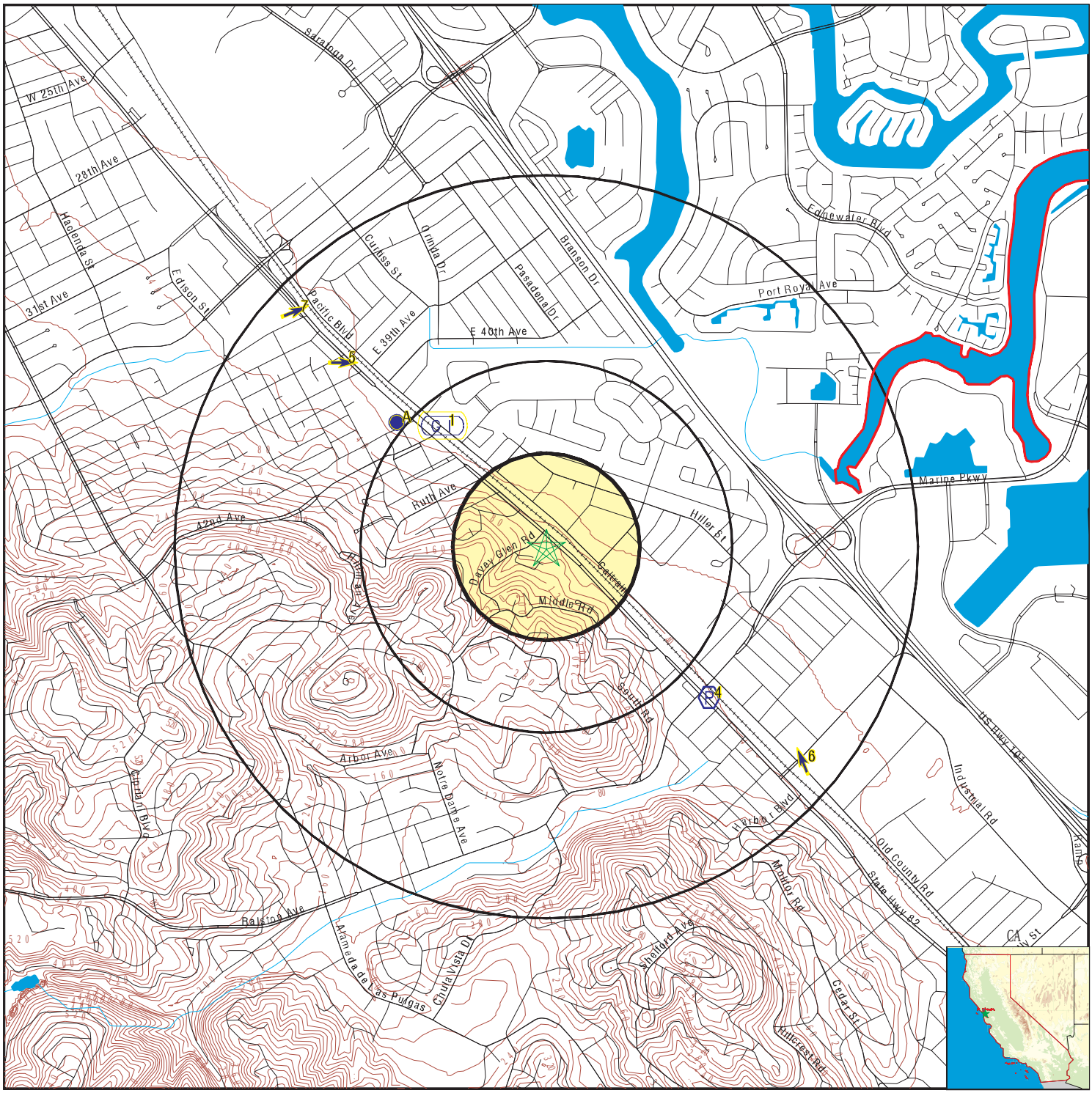
MAP ID	WELL ID	LOCATION FROM TP
4	CA4900784	1/2 - 1 Mile SE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 3838499.2s



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: Davey Glen ADDRESS: 400 EL CAMINO REAL Belmont CA 94002 LAT/LONG: 37.5261 / 122.2835	CLIENT: WEST CONTACT: Peter Morris INQUIRY #: 3838499.2s DATE: January 24, 2014 3:16 pm

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Map ID Direction Distance Elevation			Database	EDR ID Number
1 **NW** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	110063 Not Reported 5.81 9.19 Not Reported 10/27/1996	**AQUIFLOW**	**67745**
A2 **NW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0504 E 4.5 8 Not Reported 11/04/1998	**AQUIFLOW**	**67646**
A3 **NW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-1044 ENE 10.94 11.52 Not Reported 12/30/1998	**AQUIFLOW**	**67639**

4
SE
1/2 - 1 Mile
Lower

FRDS PWS **CA4900784**

Pwsid:	CA4900784	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Windsor Mobile Country Club		
Population Served:	400	Pwssvcconn:	280
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	1		
Facility name:	WELL 01		
Facility type:	Well	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	Kevin Lederer		
Original name:	Windsor Mobile Country Club		
Contact phone:	7078382524	Contact address1:	8109 Conde Lane
Contact address2:	Not Reported		
Contact city:	Windsor		
Contact zip:	95492		
Facility id:	2		
Facility name:	TREATMENT PLANT - WELL 01 - TREATED		
Facility type:	Treatment_plant	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		

Facility id: CA4900784001
Facility name: WELL 01
Facility type: Well Treatment process: hypochlorination, post
Treatment objective: disinfection

Facility id: CA4900784002
Facility name: TREATMENT PLANT - WELL 01 - TREATED
Facility type: Treatment_plant Treatment process: hypochlorination, post
Treatment objective: disinfection

PWS ID: CA4900784
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: WINDSOR MOBILE COUNTRY CLUB
WINDSOR, CA 95492

Addressee / Facility: System Owner/Responsible Party
WINDSOR MOBILE
P O BOX 10
BELMONT, CA 94002

Facility Latitude: 37 31 13 Facility Longitude: 122 16 28
City Served: Not Reported
Treatment Class: Untreated Population: 400

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name: WINDSOR MOBILE COUNTRY CLU
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 1993-07-01 - 2000-03-01
Violation ID: 95V0001
Enforcement Date: 2000-03-01 Enf. Action: Fed Compliance Achieved

System Name: Windsor Mobile Country Club
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 07/01/93 - 03/01/00
Violation ID: 95V0001
Enforcement Date: 03/01/00 Enf. Action: Fed Compliance Achieved

System Name: Windsor Mobile Country Club
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 7/1/1993 0:00:00 - 3/1/2000 0:00:00
Violation ID: 95V0001
Enforcement Date: 3/1/2000 0:00:00 Enf. Action: Fed Compliance Achieved

System Name: WINDSOR MOBILE COUNTRY CLU
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 1993-07-01 - 2015-12-31
Violation ID: 95V0001
Enforcement Date: Not Reported Enf. Action: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
5 **NW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0448 E 6.24 6.90 Not Reported 01/11/1999	**AQUIFLOW**	**67737**
6 **SE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	000629 NNW 1.65 2.65 Not Reported 03/24/1995	**AQUIFLOW**	**65684**
7 **NW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0357 ENE 7 13 Not Reported 05/22/1998	**AQUIFLOW**	**67762**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94002	86	11

Federal EPA Radon Zone for SAN MATEO 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 Zip Code: 94002

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	-0.450 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.400 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 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 Public Health
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.

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

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Davey Glen
400 EL CAMINO REAL
Belmont, CA 94002

Inquiry Number: 3838499.6
January 24, 2014

The EDR Property Tax Map Report

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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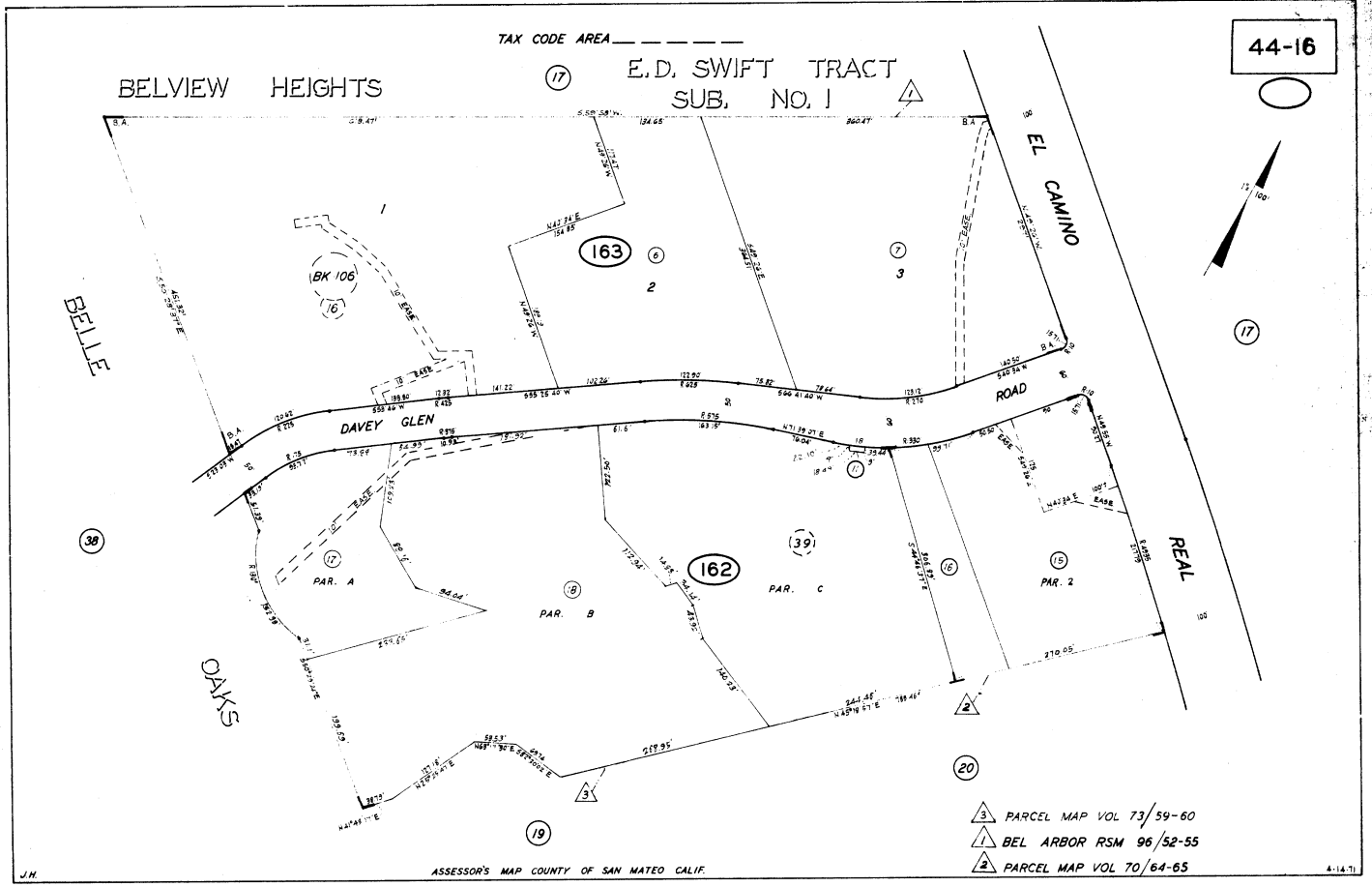
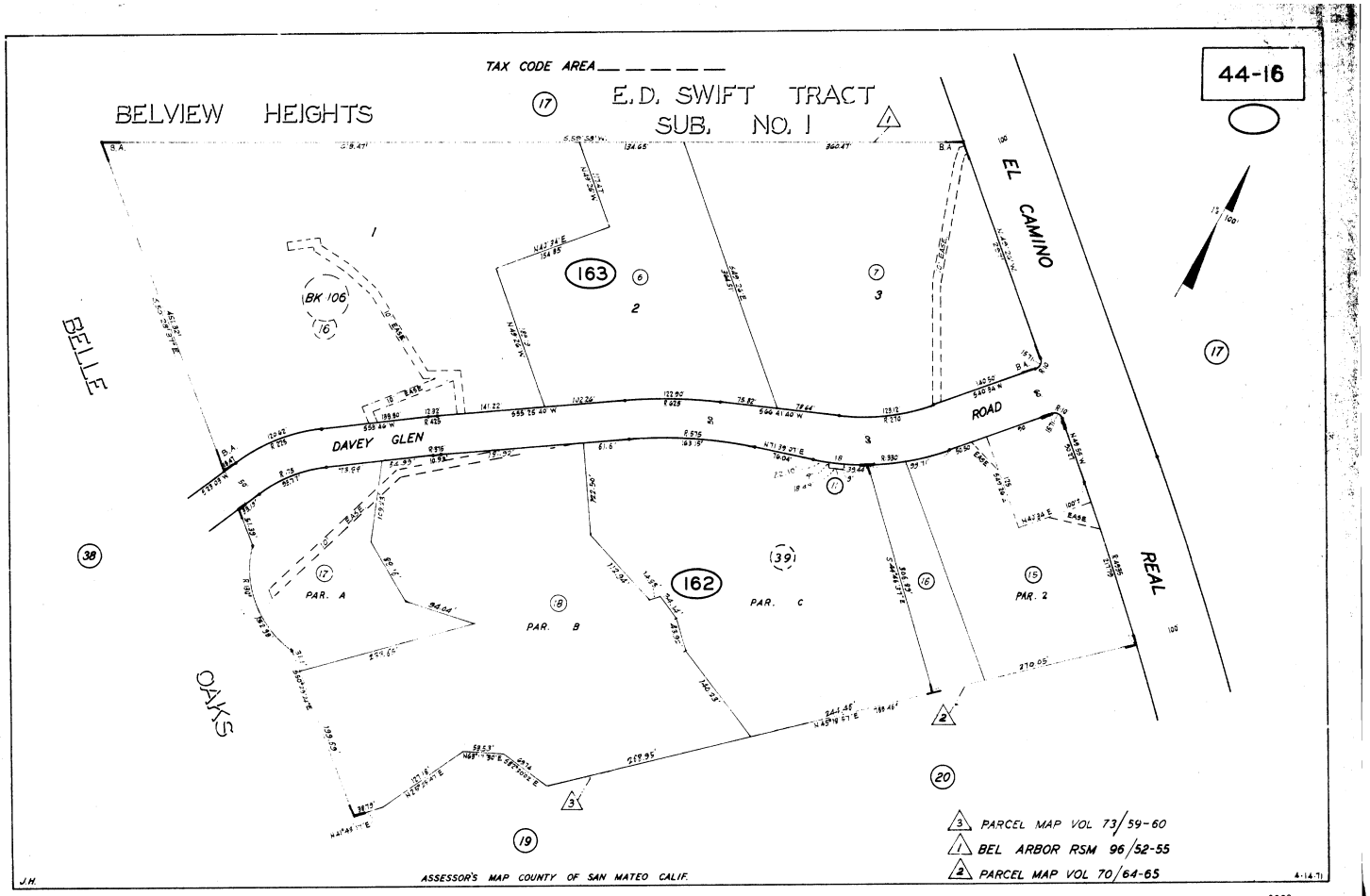

TAX CODE AREA
44-16
BELVIEW HEIGHTS
E.D. SWIFT TRACT
SUB. NO. 1
EL CAMINO REAL
DAVEY GLEN ROAD
BELLE OAKS
163
162
BK 106
PAR. A
PAR. B
PAR. C
PAR. 2
PARCEL MAP VOL 73/59-60
BEL ARBOR RSM 96/52-55
PARCEL MAP VOL 70/64-65
J.H.
ASSESSOR'S MAP COUNTY OF SAN MATEO CALIF.
4-14-71

JAN 0 2 2002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PARCEL MAP VOL 70/64-65
J.H.
ASSESSOR'S MAP COUNTY OF SAN MATEO CALIF.
4-14-71

JAN 0 2 2002

Davey Glen
400 EL CAMINO REAL
Belmont, CA 94002

Inquiry Number: 3838499.8
January 24, 2014

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Building Permit Report: Search Documentation

1/24/14

Site Name:
Davey Glen
400 EL CAMINO
Belmont, CA 94002

EDR Inquiry # 3838499.8

Client Name:
WEST
711 Grand Avenue
San Rafael, CA 94901

Contact: Peter Morris

Search Documentation

DATA GAP

The complete collection of Building Permit data available to EDR has been searched, and as of 1/24/14, EDR does not have access to building permits in the city where your target property is located (Belmont, CA).

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting 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 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILD FAX® PROPERTY HISTORY

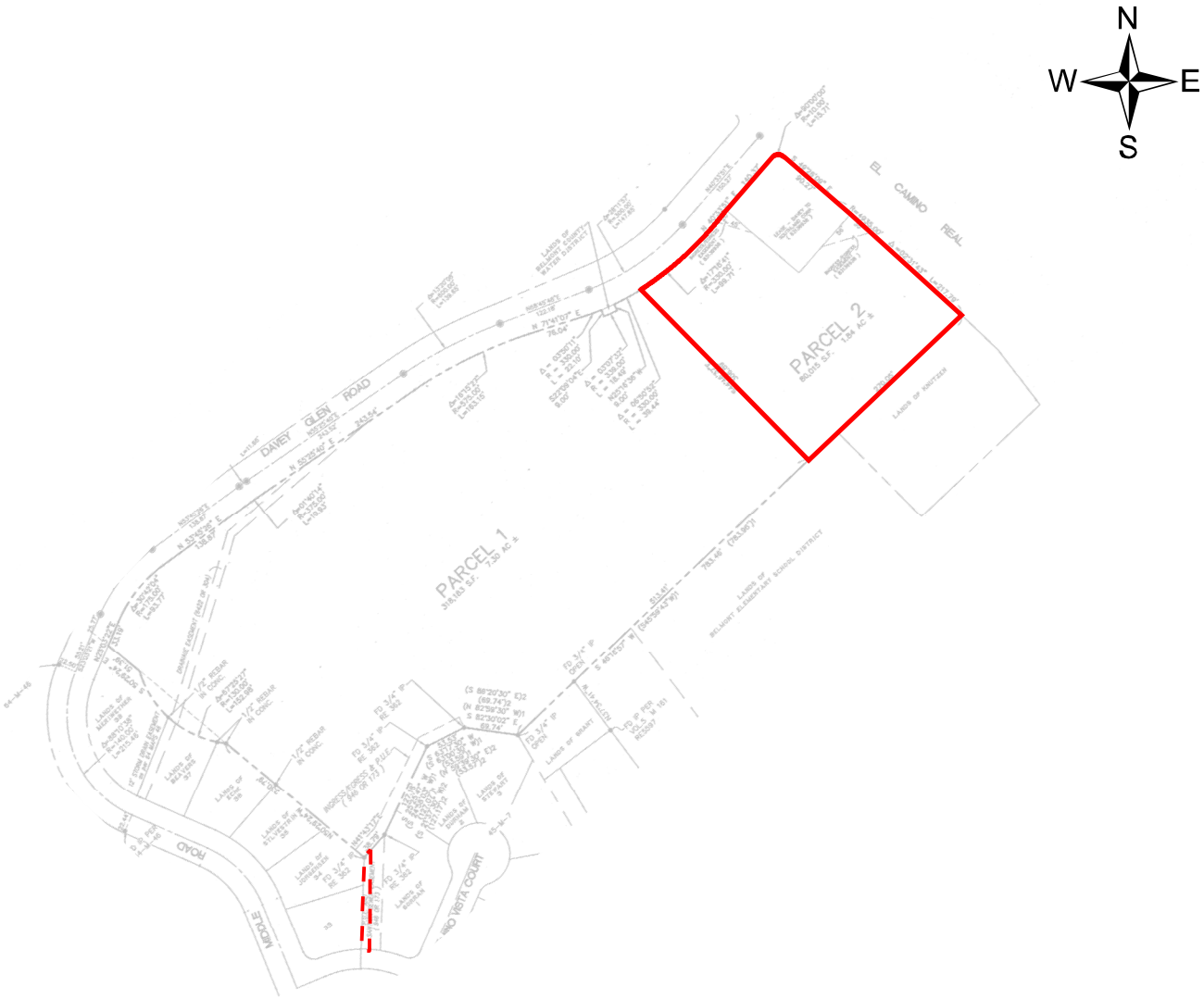
First American Title Company

Reference No.:646998

County:San Mateo

Location Map

356



Legend

- Parcel I
- Parcel II

Tax ID:044-162-150 and 044-162-160

Short Legal:Parcel 2 Parcel Map Bk70 Pg64

Map Not To Scale

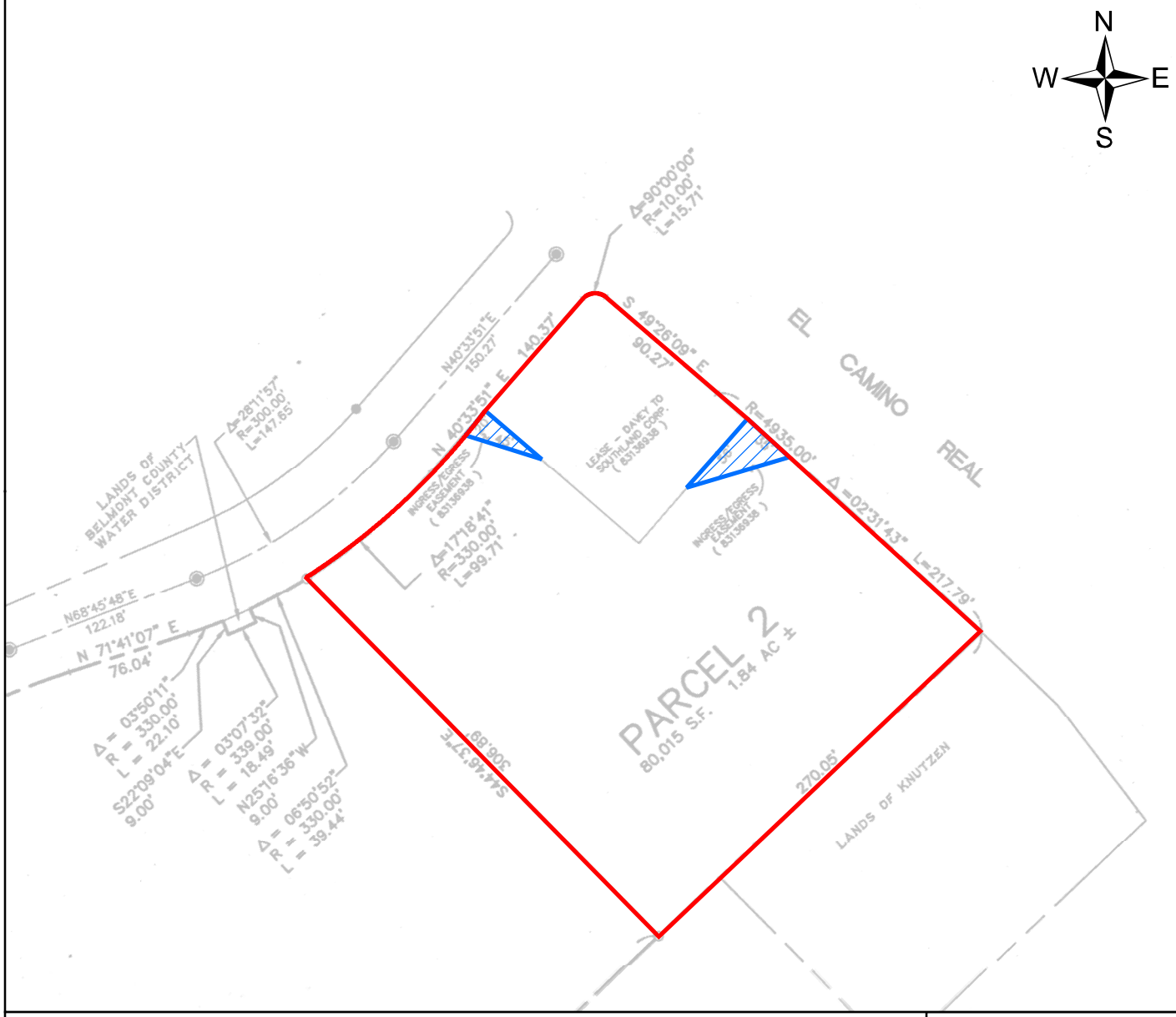
This map may or may not be a survey of the land depicted hereon. You should not rely upon it for any purpose other than orientation to the general location of the parcel or parcels depicted. First American Title expressly disclaims any liability for alleged loss or damage which may result from reliance upon this map.

First American Title Company

Reference No.:646998

County:San Mateo

357



Plotted Easements

Legend

Parcel I

03/19/1941 #15166-E Bk946 Pg173
(Ingress & Egress & Public Utilities-
Not Plotted-Aff App Ease)

12/12/1983 #83136938
(Ingress & Egress)

Tax ID:044-162-150 and 044-162-160

Short Legal:Parcel 2 Parcel Map Bk70 Pg64

Map Not
To Scale

This map may or may not be a survey of the land depicted hereon. You should not rely upon it for any purpose other than orientation to the general location of the parcel or parcels depicted. First American Title expressly disclaims any liability for alleged loss or damage which may result from reliance upon this map.

Order Number: NCS-646998-SC
Page Number: 1

First American Title Company
National Commercial Services
1737 North First Street, Suite 500
San Jose, CA 95112

Drew Huducek
Sares Regis Group of Northern California,LLC
901 Mariners Island Blvd.,Suite 700
San Mateo, CA 94404
Phone: (650)525-7094

Escrow Officer:	Carol M. Herrera
Phone:	(408)451-7829
Email:	cmherrera@firstam.com
Buyer:	REGIS HOMES BAY AREA, LLC
Owner:	CKD LIMITED PARTNERSHIP,
Property:	490 El Camino Real, Belmont, Ca

PRELIMINARY REPORT

In response to the above referenced application for a policy of title insurance, this company hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a Policy or Policies of Title Insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an Exception below or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations of said Policy forms.

The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Exhibit A attached. *The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties.* Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Exhibit A. Copies of the policy forms should be read. They are available from the office which issued this report.

Please read the exceptions shown or referred to below and the exceptions and exclusions set forth in Exhibit A of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.

It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects, and encumbrances affecting title to the land.

First American Title Insurance Company

Order Number: NCS-646998-SC
Page Number: 2

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.

First American Title Insurance Company

Dated as of November 27, 2013 at 7:30 A.M.

The form of Policy of title insurance contemplated by this report is:

To be determined

A specific request should be made if another form or additional coverage is desired.

Title to said estate or interest at the date hereof is vested in:

CKD LIMITED PARTNERSHIP, a California limited partnership

The estate or interest in the land hereinafter described or referred to covered by this Report is:

A Fee as to Parcel I, an Easement as to Parcel II

The Land referred to herein is described as follows:

(See attached Legal Description)

At the date hereof exceptions to coverage in addition to the printed Exceptions and Exclusions in said policy form would be as follows:

1. General and special taxes and assessments for the fiscal year 2013-2014.

First Installment:	$18,288.37, Paid
Penalty:	$0.00
Second Installment:	$18,288.37, Open
Penalty:	$0.00
Tax Rate Area:	03-020
A. P. No.:	044-162-150

2. General and special taxes and assessments for the fiscal year 2013-2014.

First Installment:	$445.44, Paid
Penalty:	$0.00
Second Installment:	$445.44, Open
Penalty:	$0.00
Tax Rate Area:	03-006
A. P. No.:	044-162-160

3. The lien of special tax for the following community facilities district, which tax is collected with the county taxes.

District: BEL CFD 2001-1 LIB

4. The lien of special tax assessed pursuant to Chapter 2.5 commencing with Section 53311 of the California Government Code for Community Facilities District No. 2000-1, as disclosed by Notice

of Special Tax Lien recorded November 10, 2000 as Instrument no. 2000-141625 of Official Records .

5. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.

6. An easement for ingress and egress and Public Utilities and incidental purposes, recorded March 19, 1941 as Instrument no. 15166-E in Book 946, Page 173, of Official Records.
   In Favor of: Foothills Development Company, a corporation
   Affects: as described therein

7. An easement for drainage purposes and incidental purposes, recorded July 02, 1973 as Instrument no. 50573-AG in Book 6422, Page 304 of Official Records.
   In Favor of: City of Belmont, a Municipal Corporation
   Affects: as described therein

8. The fact that the land lies within the boundaries of the LOS COSTANOS COMMUNITY DEVELOPMENT PLAN AREA Redevelopment Project Area, as disclosed by the document recorded January 11, 1982 as Instrument no. 82002401 of Official Records.

9. Terms and provisions of an unrecorded lease dated September 16, 1980, by and between Keith L. Davey as lessor and The Southland Corporation, a Texas Corporation as lessee, as disclosed by a Memorandum of Lease recorded December 12, 1983 as Instrument No. 83136938 of Official Records.

   Defects, liens, encumbrances or other matters affecting the leasehold estate, whether or not shown by the public records are not shown herein.

10. An easement for Ingress/Egress and incidental purposes in the document recorded December 12, 1983 as Instrument No. 83136938 of Official Records.

11. Notice of pendency of action recorded June 25, 1999 as Instrument no. 99109951 of Official Records.

Court:	Superior Court of the State of California in and for the County of San Mateo
Case No.:	409520,
Plaintiff:	John P. Hunter
Defendant:	Gene W. Lee, Mary H. Lee, Charisse M. Lee, Karen E. Lee, Donna J. Lee, CKD Family Partnership, and Does 1 through 20, inclusive
Purpose:	The object of which is to establish a resulting trust

12. Water rights, claims or title to water, whether or not shown by the public records.

13. Rights of parties in possession.

First American Title Insurance Company

INFORMATIONAL NOTES

1. According to the latest available equalized assessment roll in the office of the county tax assessor, there is located on the land a(n) Commercial Structure known as 490 El Camino Real, Belmont, Ca.

   (Affects APN: 044-162-150)

2. The property covered by this report is vacant land.

   (Affects APN: 044-162-160)

3. According to the public records, there has been no conveyance of the land within a period of twenty-four months prior to the date of this report, except as follows:

   None

4. This preliminary report/commitment was prepared based upon an application for a policy of title insurance that identified land by street address or assessor's parcel number only. It is the responsibility of the applicant to determine whether the land referred to herein is in fact the land that is to be described in the policy or policies to be issued.

5. Should this report be used to facilitate your transaction, we must be provided with the following prior to the issuance of the policy:

   A. WITH RESPECT TO A CORPORATION:
      1. A certificate of good standing of recent date issued by the Secretary of State of the corporation's state of domicile.
      2. A certificate copy of a resolution of the Board of Directors authorizing the contemplated transaction and designating which corporate officers shall have the power to execute on behalf of the corporation.
      3. Requirements which the Company may impose following its review of the above material and other information which the Company may require.
   B. WITH RESPECT TO A CALIFORNIA LIMITED PARTNERSHIP:
      1. A certified copy of the certificate of limited partnership (form LP-1) and any amendments thereto (form LP-2) to be recorded in the public records;
      2. A full copy of the partnership agreement and any amendments;
      3. Satisfactory evidence of the consent of a majority in interest of the limited partners to the contemplated transaction;
      4. Requirements which the Company may impose following its review of the above material and other information which the Company may require.
   C. WITH RESPECT TO A FOREIGN LIMITED PARTNERSHIP:
      1. A certified copy of the application for registration, foreign limited partnership (form LP-5) and any amendments thereto (form LP-6) to be recorded in the public records;

2. A full copy of the partnership agreement and any amendment;
3. Satisfactory evidence of the consent of a majority in interest of the limited partners to the contemplated transaction;
4. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

D. WITH RESPECT TO A GENERAL PARTNERSHIP:

1. A certified copy of a statement of partnership authority pursuant to Section 16303 of the California Corporation Code (form GP-I), executed by at least two partners, and a certified copy of any amendments to such statement (form GP-7), to be recorded in the public records;
2. A full copy of the partnership agreement and any amendments;
3. Requirements which the Company may impose following its review of the above material required herein and other information which the Company may require.

E. WITH RESPECT TO A LIMITED LIABILITY COMPANY:

1. A copy of its operating agreement and any amendments thereto;
2. If it is a California limited liability company, a certified copy of its articles of organization (LLC-1) and any certificate of correction (LLC-11), certificate of amendment (LLC-2), or restatement of articles of organization (LLC-10) to be recorded in the public records;
3. If it is a foreign limited liability company, a certified copy of its application for registration (LLC-5) to be recorded in the public records;
4. With respect to any deed, deed of trust, lease, subordination agreement or other document or instrument executed by such limited liability company and presented for recordation by the Company or upon which the Company is asked to rely, such document or instrument must be executed in accordance with one of the following, as appropriate:
   (i) If the limited liability company properly operates through officers appointed or elected pursuant to the terms of a written operating agreement, such documents must be executed by at least two duly elected or appointed officers, as follows: the chairman of the board, the president or any vice president, and any secretary, assistant secretary, the chief financial officer or any assistant treasurer;
   (ii) If the limited liability company properly operates through a manager or managers identified in the articles of organization and/or duly elected pursuant to the terms of a written operating agreement, such document must be executed by at least two such managers or by one manager if the limited liability company properly operates with the existence of only one manager.
5. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

F. WITH RESPECT TO A TRUST:

1. A certification pursuant to Section 18100.5 of the California Probate Code in a form satisfactory to the Company.
2. Copies of those excerpts from the original trust documents and amendments thereto which designate the trustee and confer upon the trustee the power to act in the pending transaction.
3. Other requirements which the Company may impose following its review of the material require herein and other information which the Company may require.

G. WITH RESPECT TO INDIVIDUALS:

1. A statement of information.

The map attached, if any, may or may not be a survey of the land depicted hereon. First American Title Insurance Company expressly disclaims any liability for loss or damage which may result from reliance

on this map except to the extent coverage for such loss or damage is expressly provided by the terms and provisions of the title insurance policy, if any, to which this map is attached.

First American Title Insurance Company

LEGAL DESCRIPTION

Real property in the City of Belmont, County of San Mateo, State of California, described as follows:

Parcel I:

Parcel 2, as shown on that certain map entitled, "Parcel Map Being A Resubdivision of a Portion of Land Conveyed to Keith L. Davey by Deed filed for record on January 3, 1973, in volume 6300 official records at page 526, San Mateo county records", which map was filed for record in the office of the recorder of the county of San Mateo, State of California, on July 3, 1998, in Book 70, of Parcel Maps at pages 64 to 65, inclusive.

Parcel II:

The right to install, maintain, remove and replace underground or overhead public utilities and underground sanitary sewers within the Westerly 10 feet measured at right angles Easterly from the Westerly line of the following described parcel:

Beginning at the most Southerly corner of that certain 19.25 acre tract described in deed from Foothills Development Company, a corporation to Keith L. Davey, dated March 17, 1941, and recorded March 19, 1941 in Volume 946 of official records at page 173 and running thence South 1° 01' 30" West 127.17 feet to Middle Road; thence along Middle Road; South 88° 58' 30" East 25 feet; thence North 1° 01' 30" East 156.82 feet to the Southeasterly line of said 19.25 acre tract; thence along said Southeasterly line South 41° 09' 50" West 38.78 feet to the point of beginning.

APN: 044-162-150 and 044-162-160
JPN: 044 016 162 03A, 044 016 162 07A, 044 016 162 09A, 044 016 162 10A and 044 016 162 10.02A

NOTICE I

Section 12413.1 of the California Insurance Code, effective January 1, 1990, requires that any title insurance company, underwritten title company, or controlled escrow company handling funds in an escrow or sub-escrow capacity, wait a specified number of days after depositing funds, before recording any documents in connection with the transaction or disbursing funds. This statute allows for funds deposited by wire transfer to be disbursed the same day as deposit. In the case of cashier's checks or certified checks, funds may be disbursed the next day after deposit. In order to avoid unnecessary delays of three to seven days, or more, please use wire transfer, cashier's checks, or certified checks whenever possible.

If you have any questions about the effect of this new law, please contact your local First American Office for more details.

NOTICE II

As of January 1, 1991, if the transaction which is the subject of this report will be a sale, you as a party to the transaction, may have certain tax reporting and withholding obligations pursuant to the state law referred to below:

In accordance with Sections 18662 and 18668 of the Revenue and Taxation Code, a buyer may be required to withhold an amount equal to three and one-third percent of the sales price in the case of the disposition of California real property interest by either:

1. A seller who is an individual with a last known street address outside of California or when the disbursement instructions authorize the proceeds be sent to a financial intermediary of the seller, OR
2. A corporate seller which has no permanent place of business in California.

The buyer may become subject to penalty for failure to withhold an amount equal to the greater of 10 percent of the amount required to be withheld or five hundred dollars ($500).

However, notwithstanding any other provision included in the California statutes referenced above, no buyer will be required to withhold any amount or be subject to penalty for failure to withhold if:

1. The sales price of the California real property conveyed does not exceed one hundred thousand dollars ($100,000), OR
2. The seller executes a written certificate, under the penalty of perjury, certifying that the seller is a resident of California, or if a corporation, has a permanent place of business in California, OR
3. The seller, who is an individual, executes a written certificate, under the penalty of perjury, that the California real property being conveyed is the seller's principal residence (as defined in Section 1034 of the Internal Revenue Code).

The seller is subject to penalty for knowingly filing a fraudulent certificate for the purpose of avoiding the withholding requirement.

The California statutes referenced above include provisions which authorize the Franchise Tax Board to grant reduced withholding and waivers from withholding on a case-by-case basis.

The parties to this transaction should seek an attorney's, accountant's, or other tax specialist's opinion concerning the effect of this law on this transaction and should not act on any statements made or omitted by the escrow or closing officer.

The Seller May Request a Waiver by Contacting:
Franchise Tax Board
Withhold at Source Unit
P.O. Box 651
Sacramento, CA 95812-0651
(916) 845-4900

First American Title Insurance Company

Privacy Policy

We Are Committed to Safeguarding Customer Information
In order to better serve your needs now and in the future, we may ask you to provide us with certain information. We understand that you may be concerned about what we will do with such information - particularly any personal or financial information. We agree that you have a right to know how we will utilize the personal information you provide to us. Therefore, together with our parent company, The First American Corporation, we have adopted this Privacy Policy to govern the use and handling of your personal information.

Applicability
This Privacy Policy governs our use of the information which you provide to us. It does not govern the manner in which we may use information we have obtained from any other source, such as information obtained from a public record or from another person or entity. First American has also adopted broader guidelines that govern our use of personal information regardless of its source. First American calls these guidelines its *Fair Information Values*, a copy of which can be found on our website at www.firstam.com.

Types of Information
Depending upon which of our services you are utilizing, the types of nonpublic personal information that we may collect include:

- Information we receive from you on applications, forms and in other communications to us, whether in writing, in person, by telephone or any other means;
- Information about your transactions with us, our affiliated companies, or others; and
- Information we receive from a consumer reporting agency.

Use of Information
We request information from you for our own legitimate business purposes and not for the benefit of any nonaffiliated party. Therefore, we will not release your information to nonaffiliated parties except: (1) as necessary for us to provide the product or service you have requested of us; or (2) as permitted by law. We may, however, store such information indefinitely, including the period after which any customer relationship has ceased. Such information may be used for any internal purpose, such as quality control efforts or customer analysis. We may also provide all of the types of nonpublic personal information listed above to one or more of our affiliated companies. Such affiliated companies include financial service providers, such as title insurers, property and casualty insurers, and trust and investment advisory companies, or companies involved in real estate services, such as appraisal companies, home warranty companies, and escrow companies. Furthermore, we may also provide all the information we collect, as described above, to companies that perform marketing services on our behalf, on behalf of our affiliated companies, or to other financial institutions with whom we or our affiliated companies have joint marketing agreements.

Former Customers
Even if you are no longer our customer, our Privacy Policy will continue to apply to you.

Confidentiality and Security
We will use our best efforts to ensure that no unauthorized parties have access to any of your information. We restrict access to nonpublic personal information about you to those individuals and entities who need to know that information to provide products or services to you. We will use our best efforts to train and oversee our employees and agents to ensure that your information will be handled responsibly and in accordance with this Privacy Policy and First American's *Fair Information Values*. We currently maintain physical, electronic, and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

First American Title Insurance Company

CLTA/ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE (02-03-10)

EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:
   (a) building;
   (b) zoning;
   (c) land use;
   (d) improvements on the Land;
   (e) land division; and
   (f) environmental protection.

   This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.
2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
4. Risks:
   (a) that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
   (b) that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;
   (c) that result in no loss to You; or
   (d) that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.
5. Failure to pay value for Your Title.
6. Lack of a right:
   (a) to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
   (b) in streets, alleys, or waterways that touch the Land.
   This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
7. The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.

LIMITATIONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows: For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.

Your Deductible Amount	Our Maximum Dollar Limit of Liability
Covered Risk 16: 1% of Policy Amount or $2,500.00 (whichever is less)	$10,000.00
Covered Risk 18: 1% of Policy Amount or $5,000.00 (whichever is less)	$25,000.00
Covered Risk 19: 1% of Policy Amount or $5,000.00 (whichever is less)	$25,000.00
Covered Risk 21: 1% of Policy Amount or $2,500.00 (whichever is less)	$5,000.00

ALTA RESIDENTIAL TITLE INSURANCE POLICY (6-1-87)

EXCLUSIONS

In addition to the Exceptions in Schedule B, you are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of any law or government regulation. This includes building and zoning ordinances and also laws and regulations concerning:
   (a) and use
   (b) improvements on the land
   (c) and division
   (d) environmental protection

   This exclusion does not apply to violations or the enforcement of these matters which appear in the public records at Policy Date.
   This exclusion does not limit the zoning coverage described in Items 12 and 13 of Covered Title Risks.
2. The right to take the land by condemning it, unless:
   (a) a notice of exercising the right appears in the public records on the Policy Date

First American Title Insurance Company

(b) the taking happened prior to the Policy Date and is binding on you if you bought the land without knowing of the taking

3. Title Risks:
   (a) that are created, allowed, or agreed to by you
   (b) that are known to you, but not to us, on the Policy Date -- unless they appeared in the public records
   (c) that result in no loss to you
   (d) that first affect your title after the Policy Date -- this does not limit the labor and material lien coverage in Item 8 of Covered Title Risks
4. Failure to pay value for your title.
5. Lack of a right:
   (a) to any land outside the area specifically described and referred to in Item 3 of Schedule A OR
   (b) in streets, alleys, or waterways that touch your land
   This exclusion does not limit the access coverage in Item 5 of Covered Title Risks.

2006 ALTA LOAN POLICY (06-17-06)
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. a. Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   i. the occupancy, use, or enjoyment of the Land;
   ii. the character, dimensions, or location of any improvement erected on the Land;
   iii. the subdivision of land; or
   iv. environmental protection;
   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
   b. Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   a. created, suffered, assumed, or agreed to by the Insured Claimant;
   b. not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   c. resulting in no loss or damage to the Insured Claimant;
   d. attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
   e. resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   a. a fraudulent conveyance or fraudulent transfer, or
   b. a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) that arise by reason of:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

2006 ALTA OWNER'S POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. a. Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

   i. the occupancy, use, or enjoyment of the Land;
   ii. the character, dimensions, or location of any improvement erected on the Land;
   iii. the subdivision of land; or
   iv. environmental protection;

   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.

   b.Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   a. created, suffered, assumed, or agreed to by the Insured Claimant;
   b. not Known to the Company, not recorded in the Public Records at Date of Policy, but known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   c. resulting in no loss or damage to the Insured Claimant;
   d. attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
   e. resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   a. a fraudulent conveyance or fraudulent transfer, or
   b. a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) that arise by reason of:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (07-26-10)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. a. Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   i. the occupancy, use, or enjoyment of the Land;
   ii. the character, dimensions, or location of any improvement erected on the Land;
   iii. the subdivision of land; or
   iv. environmental protection;

   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.

   b. Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters

   a. created, suffered, assumed, or agreed to by the Insured Claimant;
   b. not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   c. resulting in no loss or damage to the Insured Claimant;
   d. attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
   e. resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   a. a fraudulent conveyance or fraudulent transfer, or
   b. a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.

RECORDER'S OFFICE SAN MATEO COUNTY

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL TO

Name
Street Address
City & State

91762AF

RECORDED AT REQUEST OF VOL. 6300 PAGE 526

TITLE INSURANCE AND TRUST CO.

JAN 3 2 47 PM 1973

HARVIN CHURCH RECORDER
SAN MATEO COUNTY
OFFICIAL RECORDS

4.00

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

Name MR KEITH L. DAVEY
Street Address ONE DAVEY GLEN ROAD
City & State BELMONT, CALIFORNIA

A.P. 044-162-030,070,080,100

DOCUMENTARY TRANSFER TAX DUE $ None
☐ COMPUTED ON FULL VALUE OF PROPERTY CONVEYED.
☐ COMPUTED ON FULL VALUE LESS LIENS/ENCUMBRANCES REMAINING THEREON AT TIME OF SALE.

TITLE INSURANCE AND TRUST COMPANY

D.T.T. $

Corporation Grant Deed

TO 406 CA (7-68) THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, THE TI CORPORATION (OF CALIFORNIA), a corporation, formerly TITLE INSURANCE AND TRUST COMPANY, a corporation, successor by merger to CALIFORNIA PACIFIC TITLE INSURANCE COMPANY,
a corporation organized under the laws of the state of California,
hereby GRANTS ~~xx~~ WITHOUT WARRANTY EXPRESS OR IMPLIED to

KEITH L. DAVEY,

the following described real property in the City of Belmont,
County of San Mateo, State of California:

See Exhibit "A" attached and incorporated by reference herein

In Witness Whereof, said corporation has caused its corporate name and seal to be affixed hereto and this instrument to be executed by its Authorized Agents ~~President~~ ~~Secretary~~ thereunto duly authorized.

Dated: January 2, 1973

THE TI CORPORATION (OF CALIFORNIA),
a corporation

By E. O. Pohl, Authorized Agent ~~President~~

By Robert C. Hash, Authorized Agent ~~Secretary~~

STATE OF CALIFORNIA
COUNTY OF San Mateo } SS.

On January 2, 1973 before me, the undersigned, a Notary Public in and for said State, personally appeared E. O. Pohl known to me to be the Authorized Agent ~~President~~ and Robert C. Hash, known to me to be Authorized Agent ~~Secretary~~ of the Corporation that executed the within Instrument, known to me to be the persons who executed the within Instrument on behalf of the Corporation therein named, and acknowledged to me that such Corporation executed the within Instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

Signature Zlata Bicoff

Zlata Bicoff
Name (Typed or Printed)

ZLATA BICOFF
NOTARY PUBLIC - CALIFORNIA
COUNTY OF SAN MATEO
My Commission expires Jan. 15, 1975

(This area for official notarial seal)

Title Order No. 412414 RWC Escrow or Loan No.

MAIL TAX STATEMENTS AS DIRECTED ABOVE

91762AF VOL. 6300 PAGE 526

RECORDER'S OFFICE SAN MATEO COUNTY

EXHIBIT A

BEGINNING at the intersection of the Southeasterly line of Subdivision No. 1 E. D. Swift Tract, Belmont, San Mateo County, California, map of which is filed in Book 9 of Maps at page 3, Records of San Mateo County, with the Southwesterly line of El Camino Real, as said line was established by Deed from Foothills Development Company, a corporation, dated November 21, 1934 and recorded December 19, 1934 in Book 644 of Official Records of San Mateo County at page 42; running thence from said point of beginning, along the Southeasterly line of said Subdivision and its prolongation Southwesterly South 59° 40' West 1112.28 feet to a point in North Road; thence South 50° 48' 30" East 930.24 feet; thence North 41° 09' 50" East 38.78 feet; thence North 24° 58' 30" East 127.07 feet; thence North 63° 00' 30" East 53.59 feet; thence South 82° 59' 30" East 69.74 feet; thence North 45° 59' 43" East 783.96 feet to the Southwesterly line of El Camino Real; thence Northwesterly along said Southwesterly line, on a curve to the left, with a radius of 4935 feet, tangent to which bears North 47° 23' 17" West, an arc distance of 217.79 feet; thence continuing along the Southwesterly line of El Camino Real, North 49° 55' West 467.27 feet, to the point of beginning. CONTAINING APPROXIMATELY 19.25 ACRES.

EXCEPT all that portion of said land described in deed to the City of Belmont, recorded March 3, 1966 in Book 5121, Official Records of San Mateo County, Page 312 (43619-2).

TOGETHER WITH the right to install, maintain, remove and replace underground or overhead public utilities and underground sanitary sewers within the Westerly 10 feet measured at right angles Easterly from the Westerly line of the following described parcel:

BEGINNING at the most Southerly corner of that certain 19.25 acre tract described in deed from Foothills Development Company, a corporation, to Keith L. Davey, dated March 17, 1941, and recorded March 19, 1941 in Volume 946 of Official Records at page 173 and running thence South 1° 01' 30" West 127.17 feet to Middle Road; thence along Middle Road, South 88° 58' 30" East 25 feet; thence North 1° 01' 30" East 156.82 feet to the Southeasterly line of said 19.25 acre tract; thence along said Southeasterly line South 41° 09' 50" West 38.78 feet to the point of beginning.

OWNER'S STATEMENT

WE HEREBY STATE THAT WE ARE THE OWNERS OF OR HAVE SOME RIGHT, TITLE OR INTEREST TITLE OR INTEREST IN AND TO THE REAL PROPERTY INCLUDED WITHIN THE SUBDIVISION SHOWN UPON THIS MAP AND THAT WE ARE THE ONLY PERSONS WHOSE CONSENT IS NECESSARY TO PASS A CLEAR TITLE TO SAID PROPERTY AND WE HEREBY CONSENT TO THE MAKING AND RECORDING OF SAID MAP AND SUBDIVISION AS SHOWN WITHIN THE DISTINCTIVE BORDER LINE.

AS OWNERS:

BY: Gene W. Lee BY: Mary H. Lee
GENE W. LEE MARY H. LEE

BY: Charisse M. Lee BY: Karen E. Lee
CHARISSE M. LEE KAREN E. LEE

BY: Donna G. Lee
DONNA G. LEE

OWNER'S ACKNOWLEDGMENT

STATE OF CALIFORNIA SS.
COUNTY OF SAN MATEO
ON June 2, 1998, 19 , BEFORE ME, THE UNDERSIGNED,
A NOTARY PUBLIC IN AND FOR SAID STATE, PERSONALLY APPEARED
GENE W. LEE AND MARY H. LEE ,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.

NOTARY'S SIGNATURE Maura Fritas
PRINTED NOTARY'S NAME Maura Fritas
NOTARY'S PRINCIPLE PLACE OF BUSINESS San Mateo, CA
COMMISSION NUMBER 1050817
EXPIRATION OF NOTARY'S COMMISSION 1.29.99

MAURA FREITAS
Comm. #1050817
NOTARY PUBLIC - CALIFORNIA
SAN MATEO COUNTY
Comm. Expires Jan. 29, 1999

OWNER'S ACKNOWLEDGMENT

STATE OF CALIFORNIA SS.
COUNTY OF SAN MATEO
ON June 3, 1998, 19 , BEFORE ME, THE UNDERSIGNED,
A NOTARY PUBLIC IN AND FOR SAID STATE, PERSONALLY APPEARED
CHARISSE M. LEE ,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.

NOTARY'S SIGNATURE Maura Fritas
PRINTED NOTARY'S NAME Maura Freitas
NOTARY'S PRINCIPLE PLACE OF BUSINESS San Mateo, CA
COMMISSION NUMBER 1050817
EXPIRATION OF NOTARY'S COMMISSION 1.29.99

MAURA FREITAS
Comm. #1050817
NOTARY PUBLIC - CALIFORNIA
SAN MATEO COUNTY
Comm. Expires Jan. 29, 1999

OWNER'S ACKNOWLEDGMENT

STATE OF CALIFORNIA SS.
COUNTY OF SAN MATEO
ON June 1, 1998, 19 , BEFORE ME, THE UNDERSIGNED,
A NOTARY PUBLIC IN AND FOR SAID STATE, PERSONALLY APPEARED
KAREN E. LEE ,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.

NOTARY'S SIGNATURE Maura Freitas
PRINTED NOTARY'S NAME Maura Freitas
NOTARY'S PRINCIPLE PLACE OF BUSINESS San Mateo, CA
COMMISSION NUMBER 1050817
EXPIRATION OF NOTARY'S COMMISSION 1-29-99

MAURA FREITAS
Comm. #1050817
NOTARY PUBLIC - CALIFORNIA
SAN MATEO COUNTY
Comm. Expires Jan. 29, 1999

OWNER'S ACKNOWLEDGMENT

STATE OF CALIFORNIA SS.
COUNTY OF ~~SAN MATEO~~ San Luis Obispo
ON June 3, 1998, 19 , BEFORE ME, THE UNDERSIGNED,
A NOTARY PUBLIC IN AND FOR SAID STATE, PERSONALLY APPEARED
DONNA J. LEE ,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.

NOTARY'S SIGNATURE Jan Hinote
PRINTED NOTARY'S NAME Jan Hinote
NOTARY'S PRINCIPLE PLACE OF BUSINESS San Luis Obispo, CA
COMMISSION NUMBER 1167402
EXPIRATION OF NOTARY'S COMMISSION 1-2-2002

JAN HINOTE
Comm. #1167402
Notary Public
California
SAN LUIS OBISPO COUNTY
My Comm. Expires Jan. 2, 2002

SURVEYOR'S STATEMENT

THIS MAP WAS PREPARED BY ME OR UNDER MY DIRECTION, AND IS BASED UPON A FIELD SURVEY IN CONFORMANCE WITH THE REQUIREMENTS OF THE SUBDIVISION MAP ACT AND LOCAL ORDINANCE AT THE REQUEST OF JOHN HUNTER IN MARCH 1998. THE SURVEY IS TRUE AND COMPLETE
AS SHOWN. I HEREBY STATE THAT THIS MAP SUBSTANTIALLY CONFORMS TO THE APPROVED OR CONDITIONALLY APPROVED TENTATIVE MAP. ALL MONUMENTS ARE OF THE CHARACTER AND OCCUPY OR WILL OCCUPY THE POSITIONS INDICATED ON OR BEFORE NOVEMBER 1998 AND THAT THE MONUMENTS ARE OR WILL BE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED THIS 22nd DAY OF May, 1998.

TIMOTHY D. SANDIS, R.C.E. NO. 15290
EXPIRES: MARCH 31, 2001

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY D. SANDIS
No. 15290
Exp. 3/31/01
CIVIL
STATE OF CALIFORNIA

CITY ENGINEER'S STATEMENT

I HEREBY STATE THAT I HAVE EXAMINED THE WITHIN PARCEL MAP, THAT THE SUBDIVISION SHOWN IS SUBSTANTIALLY THE SAME AS IT APPEARED ON THE PRELIMINARY PARCEL MAP AND ANY APPROVED ALTERATIONS THEREOF, THAT ALL PROVISIONS OF CHAPTER 2 OF THE CALIFORNIA STATE SUBDIVISION MAP ACT AND OF ANY LOCAL ORDINANCE APPLICABLE AT THE TIME OF APPROVAL OF THE PRELIMINARY PARCEL MAP, IF REQUIRED, HAVE BEEN COMPLIED WITH, AND THAT I AM SATISFIED THAT THE MAP IS TECHNICALLY CORRECT.

DATED: 6-18-98

JOHN E. CURTIS, R.C.E. 17822
DIRECTOR OF PUBLIC WORKS
EXPIRES: JUNE 30, 2001
CITY OF BELMONT, CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JOHN E. CURTIS
No. 17822
EXP 6-30-01
CIVIL
STATE OF CALIFORNIA

COUNTY RECORDER'S STATEMENT

FILE NO. 98-106063 FEE: $8.00 PAID:

FILED FOR RECORD THIS 3rd DAY OF JULY, 1998, AT 3:02 P.M. IN BOOK 70 OF MAPS AT PAGES 64-65 PARCEL, SAN MATEO COUNTY RECORDS, AT THE REQUEST OF OLD REPUBLIC TITLE COMPANY.

WARREN SLOCUM, COUNTY RECORDER

BY: DEPUTY

PARCEL MAP

BEING A RESUBDIVISION OF A PORTION OF LAND CONVEYED TO KEITH L. DAVEY BY DEED FILED FOR RECORD ON JANUARY 3, 1973 IN VOLUME 6300 OFFICIAL RECORDS AT PAGE 526, SAN MATEO COUNTY RECORDS AND LYING ENTIRELY WITHIN THE

CITY OF BELMONT, COUNTY OF SAN MATEO, CALIFORNIA

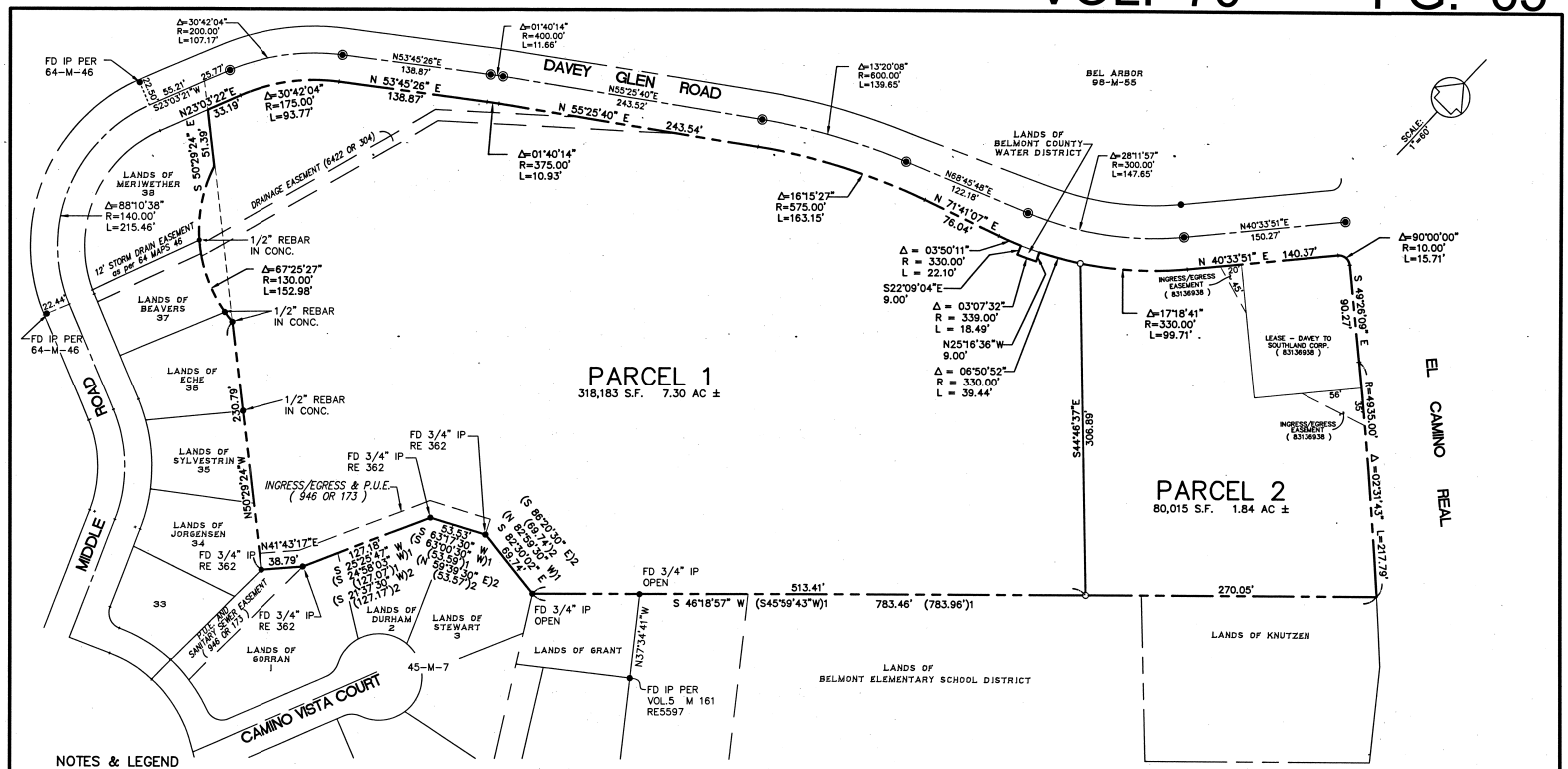
APRIL, 1998

SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS
60 CIVIC SQ. MORAGA CA 94556-2040 (925) 376-0153

5-21-98

SHEET 1 OF 2

297206



NOTES & LEGEND

ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.

THE DISTINCTIVE BORDERLINE INDICATES THE BOUNDARY OF LAND SUBDIVIDED BY THIS MAP AND CONTAINS AN AREA OF 9.15 ACRES MORE OR LESS.

- ● INDICATES IRON PIPE AS NOTED
- ○ INDICATES 3/4" IRON PIPE, TAGGED RCE 15290
- ◉ INDICATES FOUND CITY STANDARD MONUMENT AS NOTED
- INDICATES DISTINCTIVE BORDER
- INDICATES CENTER LINE
- P.U.E. INDICATES PUBLIC UTILITY EASEMENT
- ( ) 1 INDICATES RECORD DATA PER GRANT DEED
- ( ) 2 INDICATES RECORD DATA PER VOL 45-M-7
- ( ) 3 INDICATES RECORD DATA PER VOL 64-M-46
- ( ) 4 INDICATES RECORD DATA PER VOL 96-M-54
- ( ) 5 INDICATES RECORD DATA PER 5121 OR 312

BASIS OF BEARINGS

THE BEARING N 55°25'40" E OF THE CENTERLINE OF DAVEY GLEN ROAD. AS SHOWN ON THE MAP OF BEL ARBOR RECORDED IN VOLUME 96 OF MAPS AT PAGE 54, SAN MATEO COUNTY RECORS, WAS TAKEN AS THE BASIS OF BEARINGS FOR THIS MAP.

PARCEL MAP

BEING A RESUBDIVISION OF A PORTION OF LAND CONVEYED TO KEITH L. DAVEY BY DEED FILED FOR RECORD ON JANUARY 3, 1973 IN VOLUME 6300 OFFICIAL RECORDS AT PAGE 526, SAN MATEO COUNTY RECORDS AND LYING ENTIRELY WITHIN THE

CITY OF BELMONT, COUNTY OF SAN MATEO, CALIFORNIA

SCALE: 1"=60' **APRIL, 1998**

SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS
65 CEDRO St. REDWOOD CITY, CA 94062-2040 (415) 369-6123

SHEET 2 OF 2

297208

read the foregoing notice and know the contents thereof, and that the same is true of Their own knowledge.
Walker B. Lisher. Owner.
Lillian M. Lisher Owner.

Subscribed and sworn to before me this 19th day of March, 1941.

Willa Kirste
Notary Public in and for the County of San Mateo, State of California.

(SEAL ____)

RECORDED at request of CALIFORNIA PACIFIC TITLE & TRUST COMPANY MAR 19 1941 at 25 min. past 1 P. M. San Mateo County Records. T. C.Rice, Recorder. By Annette H. Coogan, Deputy Recorder. -Evelyn Heydenfeldt,Copyist.- Compared & corrections Ok -15155E- (4)
Copyist's Note: xxxxx rulings same as in original.

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PARTIAL RECONVEYANCE

WHEREAS, a portion of the indebtedness secured to be paid by the Deed of Trust executed by REDWOOD HIGHLANDS COMPANY LTD., a corporation to R. H. THAYER and C. B. McELROY as Trustees dated March 2, 1938, and recorded April 5, 1938 in Volume 777 of Official Records at page 409, San Mateo County records, has been paid;

NOW, THEREFORE, R. H. THAYER and C. B. McELROY Trustees do hereby GRANT and RECONVEY unto the PARTIES ENTITLED THERETO, without warranty, all the estate and interest derived to them under said Deed of Trust, in the lands situate in the City of Redwood City County of San Mateo, State of California, described as follows, to-wit:

Lot Numbered Eighteen (18), Block Numbered Thirty-six (36), as delineated and so designated upon that certain map entitled "Map of Redwood Highlands, Redwood City, San Mateo Co., Cal.", filed in the office of the County Recorder of San Mateo County, State of California, on the 20th day of August, 1913, in Book 9 of Maps at pages 6 and 7.

WITNESS our hands this 17th day of March, 1941.
R. H. Thayer Trustee.
C. B. McElroy Trustee.

To R. H. Thayer and C. B. McElroy, Trustees: You are hereby authorized to reconvey the lands hereinabove described so as to release same from lien of deed of trust hereinabove referred to.

(_ _) E. K. WOOD LUMBER COMPANY,
BY H. W. B. Taylor Treasurer.

STATE OF CALIFORNIA,
City and County of San Francisco (ss

On this 18th day of March in the year One Thousand Nine Hundred and Forty-one before me, MARIE H. TUTTLE, a Notary Public in and for the City and County of San Francisco, personally appeared R. H. Thayer known to me to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same. as trustee

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal, at my office in the City and County of San Francisco, the day and year in this certificate first above written.

Marie H. Tuttle Notary Public in and for the City and County of San Francisco, State of California.

(SEAL _____)

My Commission Expires March 30, 1942.

STATE OF CALIFORNIA
County of Los Angeles (ss.

On March 17, 1941, before me, A. L. Hawkins, a Notary Public, in and for said County and State, personally appeared C. B. McElroy known to me to be the person~~s~~ whose name~~s~~ ~~are~~ is subscribed to the within instrument, and acknowledged to me that ~~they~~ he executed the same as Trustee~~s~~.

A L Hawkins Notary Public in and for the County of Los Angeles State of California.

(SEAL _____)

My commission expires October 8, 1942.

RECORDED at request of Redwood Highlands Co. Ltd. MAR 19 1941 at 55 min. past 10 A. M. San Mateo County Records. T. C. Rice,Recorder. By Edith E Letts, Deputy Recorder. -Evelyn Heydenfeldt, Copyist.- Compared & corrections Ok -15145E- (7)
Copyist's Note: / marks and black ink carets same as in original.

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$31.90 U.S.I.R.Doc. stamps cancelled. D E E D

FOOTHILLS DEVELOPMENT COMPANY, a corporation, the first party, hereby grants to KEITH L. DAVEY the second party, all of that real property situated in the Town of Belmont, County of San Mateo, State of California, described as follows:

BEGINNING at the intersection of the southeasterly line of Subdivision No. 1 E. D. Swift Tract, Belmont, San Mateo County, California, map of which is filed in Book 9 of Maps at page 3, Records of San Mateo County, with the southwesterly line of El Camino Real, as said line was established by Deed from Foothills Development Company, a corporation, dated November 21, 1934 and recorded December 19, 1934 in Book 644 of Official Records of San Mateo County at page 42; running thence from said point of beginning along the southeasterly line of said Subdivision and its prolongation southwesterly South 59° 40' West 1112.28 feet to a point in North Road; thence South 50° 48' 30" East 930.24 feet; thence North 41° 09' 50" East 38.78 feet; thence North 24° 58' 30" East 127.07 feet; thence North 63° 00' 30" East 53.59 feet; thence South 82° 59' 30" East 69.74 feet; thence North 45° 59' 43" East 783.96 feet to the southwesterly line of El Camino Real; thence northwesterly along said southwesterly line, on a curve to the left, with a radius of 4935 feet; tangent to which bears North 47° 23' 17" West, an arc distance of 217.79 feet; thence continuing along the southwesterly line of El Camino Real, North 49° 55' West 467.27 feet to the point of beginning.

Containing 19.25 acres;

RESERVING THEREFROM, however, an easement of right of way for ingress and egress and public utilities 15 feet wide over and upon the following described portion of said real property:

BEGINNING at the most southerly point of the 19.25 acre parcel herein described and running North 41° 09' 50" East 38.78 feet; thence North 24° 58' 30" East 127.07 feet; thence North 63° 00' 30" East 53.59 feet; thence North 26° 59' 30" West 15 feet; thence South 63° 00' 30" West 58.76 feet; thence South 24° 58' 30" West 130.11 feet; thence South 41° 09' 50" West 37.17 feet; thence South 50° 48' 30" East 15.01 feet to the point of beginning;

which said easement is reserved by the Grantor for the benefit of and as appurtenant to that certain adjoining land now owned by the Grantor, not to exceed five (5) acres and lying between the southerly boundary of said last described 15.01 foot strip of land and Middle Road.

The Grantor also grants unto the Grantee for the benefit of and as appurtenant to the real property hereinabove granted in fee simple, an easement of right of way for ingress and egress and public utilities 25 feet in width over and upon the hereinafter described land of the Grantor: BEGINNING at the most southerly point of the 19.25 acre parcel herein described and running South 1° 01' 30" West 127.17 feet to Middle Road; thence along Middle Road South 88° 58' 30" East 25 feet; thence North 1° 01' 30" East 156.82 feet to the southeasterly line of said 19.25 acre parcel; thence along said southeasterly line South 41° 09' 50" West 38.78 feet to the point of beginning;

PROVIDED, however, that the Grantor reserves unto itself for the benefit of and as appurtenant to the other adjoining land now owned by the Grantor the right to share the use of said last described easement with the Grantee.

IN WITNESS WHEREOF, the first party has executed this conveyance this 17th day of MARCH, 1941.

(CORP.SEAL) FOOTHILLS DEVELOPMENT COMPANY
By Royal R. Meherin
Royal R. Meherin, President.
Attest: Oliver B. Wyman
Oliver B. Wyman, Secretary.

STATE OF CALIFORNIA,
City and County of San Francisco. (ss.

On this 17th day of March, in the year one thousand nine hundred and forty-one, before me, C. R. HOLTON, a Notary Public in and for said City and County, residing therein, duly commissioned and sworn, personally appeared ROYAL R. MEHERIN and OLIVER B. WYMAN, known to me to be the President and Secretary, respectively, of FOOTHILLS DEVELOPMENT COMPANY, the corporation that executed the within and foregoing instrument, and to be the officers who executed the said instrument on behalf of said corporation therein named, and they acknowledged to me that said corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at my office in the said City and County of San Francisco, the day and year in this certificate last above written.

(SEAL ____) C R. Holton NOTARY PUBLIC
In and for the City and County of San Francisco,
State of California.

RECORDED at request of CALIFORNIA PACIFIC TITLE & TRUST COMPANY MAR 19 1941 at 50 min. past 2 P.M. San Mateo County Records. T. C. Rice, Recorder. By Edith E Letts, Deputy Recorder. -Evelyn Heydenfeldt, Copyist.- Compared & corrections Ok -15166E- (10)

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FHA FORM No. 2104 g (For use under Section 203) (Revised apr. 15, 1940) California

DEED OF TRUST With Assignment of Rents

THIS DEED OF TRUST, made this 15th. day of March, 1941, BETWEEN DAVID G. KENNEDY and HELEN McC. KENNEDY, his wife, as Trustor, P. S. SCALES and H. R. EHLERS, as Trustee, and CROCKER FIRST NATIONAL BANK OF SAN FRANCISCO, as Beneficiary,

WITNESSETH: That Trustor irrevocably GRANTS, TRANSFERS, and ASSIGNS to TRUSTEE IN TRUST, WITH POWER OF SALE, the property in San Mateo County, California, described as:

That lot of land in the City of Atherton, County of San Mateo, State of California, described as follows, to-wit:

Lot numbered seven (7) in Block numbered one (1) as shown on that certain map entitled, "Atherton Oaks - Atherton - Calif.", filed in the office of the County Recorder of San Mateo County June 13, 1927 in Book 16 of Maps at pages 10 and 11.

TOGETHER WITH the rents, issues, and profits thereof, SUBJECT, HOWEVER, to the right, power, and authority hereinafter given to and conferred upon Beneficiary to collect and apply such rents, issues, and profits;

FOR THE PURPOSE OF SECURING Performance of each agreement of Trustor herein contained and payment of the sum of $14,000.00 with interest thereon according to the terms of a promissory note, dated March 15, 1941, payable to Beneficiary or order and made by Trustor.

1. Privilege is reserved to pay the debt secured hereby in whole or in an amount equal to one or more principal payments next due on the note, on the first day of any month prior to maturity, provided written notice of intention so to do is given at least thirty days prior to prepayment and provided that if the debt is fully paid prior to final maturity and at that time it is insured under the National Housing Act, Trustor will also pay to Beneficiary 1% of the original principal amount thereof, except that in no event shall such adjusted premium exceed the aggregate amount of mortgage insurance premium charges which would have been payable by Beneficiary if the debt secured hereby had continued to be insured until final maturity.

2. Trustor agrees to pay to Beneficiary in addition to the monthly payments of principal and interest payable under the terms of said note, on the first day of each month until said note is fully paid, the following sums:

a If this deed of trust and the said note secured hereby are insured under the provisions of the National Housing Act and so long as they continue to be so insured, one-twelfth (1/12) of the annual mortgage insurance premium for the purpose of putting the holder of such note in funds with which to discharge the said holder's obligation to the Federal Housing Administration for mortgage-insurance premiums pursuant to the provisions of Title II of the National Housing Act, as amended, and Regulations thereunder. The holder of the note shall,

RECORDING REQUESTED BY
First American Title Guaranty Company
Order No. 452329 TD/JC
Escrow No. 517043

WHEN RECORDED MAIL TO:

Gene W. Lee
One Davey Glen Rd.
Belmont, CA 94002

DOC # 2000-091391
07/26/2000 03:18P DE Fee:19.00
Page 1 of 5
Recorded in Official Records
County of San Mateo
Warren Slocum
Assessor-County Clerk-Recorder
Recorded By FIRST AMERICAN TITLE COMPANY

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO:

SAME AS ABOVE

The undersigned grantor(s) declare(s):
CITY TRANSFER TAX $ none
DOCUMENTARY TRANSFER TAX $Exempt*
SURVEY MONUMENT FEE $
X Computed on the consideration or value of property conveyed; OR
Computed on the consideration or value less liens or encumbrances remaining at time of sale.

51

APN 044-162-030, 070,090 &120

*per Revenue and Taxation code 11925, proportional interest held by grantors are the same as held in the grantee

GRANT DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

GENE W. LEE and MARY H. LEE, husband and wife; CHARISSE M. LEE, a married woman dealing with her separate property; KAREN E. LEE, an unmarried woman; and DONNA J. LEE, an unmarried woman

hereby GRANT(S) to

CKD LIMITED PARTNERSHIP, a California limited partnership

the real property in the City of **Belmont**
County of **San Mateo**, State of California, described as

SEE LEGAL DESCRIPTION ATTACHED HERETO AND MADE A PART HEREOF

Dated September 29, 1999

STATE OF CALIFORNIA }
COUNTY OF San Mateo } ss.

On October 30th 1999 before me, JASMEN AVEDIAN, personally appeared Gene W. Lee,

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 Jasmen Avedian

Jasmen Avedian
Comm #1117713
NOTARY PUBLIC CALIFORNIA
SAN MATEO COUNTY
Comm Exp Nov 27 2000

Gene W. Lee
GENE W. LEE

Mary H. Lee
MARY H. LEE

CHARISSE M. LEE

Karen E. Lee
KAREN E. LEE

DONNA J. LEE

Executed in counterpart

GD.DOC (R4/99)

MAIL TAX STATEMENTS AS SHOWN ABOVE

(This area for official notarial seal)

RECORDING REQUESTED BY
First American Title Guaranty Company
Order No. 452329
Escrow No. 517043

WHEN RECORDED MAIL TO:

Gene W. Lee
One Davey Glen Rd.
Belmont, CA 94002

2000-091391
07/26/2000 03:18P
DE Page: 2 of 5

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO:

SAME AS ABOVE

The undersigned grantor(s) declare(s):
CITY TRANSFER TAX $ none
DOCUMENTARY TRANSFER TAX $
SURVEY MONUMENT FEE $

X Computed on the consideration or value of property conveyed; OR
Computed on the consideration or value less liens or encumbrances remaining at time of sale.

APN 044-162-030, 070,090 &120

GRANT DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

GENE W. LEE and MARY H. LEE, husband and wife; CHARISSE M. LEE, a married woman dealing with her separate property; KAREN E. LEE, an unmarried woman; and DONNA J. LEE, an unmarried woman

hereby GRANT(S) to

CKD LIMITED PARTNERSHIP, a California limited partnership

the real property in the City of **Belmont**
County of **San Mateo**, State of California, described as

SEE LEGAL DESCRIPTION ATTACHED HERETO AND MADE A PART HEREOF

Dated September 29, 1999

WILLIAM T. KELLY
Notary Public, State of New York
No. 4724547
Qualified in Westchester County
Commission Expires

STATE OF ~~CALIFORNIA~~ New York
COUNTY OF New York } ss.

On September 29 1999 before me, Charisse M. Lee, personally appeared _____,
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 _____

GENE W. LEE

MARY H. LEE

CHARISSE M. LEE

KAREN E. LEE

DONNA J. LEE

GD.DOC (Rev 11/95)

MAIL TAX STATEMENTS AS SHOWN ABOVE

(This area for official notarial seal)

STATE OF CALIFORNIA }ss
COUNTY OF San Louis Obispo }

On OCTOBER 7, 1999, before me, **the undersigned**, a Notary Public in and for said State, personally appeared DONNA J. LEE

___, 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 Suzanne Leon

SUZANNE LEON
Comm. # 1176540
NOTARY PUBLIC - CALIFORNIA
San Luis Obispo County
My Comm. Expires March 15, 2002

(This area for official notarial seal)

STATE OF CALIFORNIA }ss
COUNTY OF SAN MATEO }

On October 29th 1999, before me, **the undersigned**, a Notary Public in and for said State, personally appeared Mary H. Lee and Karen E. Lee

___, 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 Jasmen Avedian

Jasmen Avedian
Comm #1117713
NOTARY PUBLIC CALIFORNIA
SAN MATEO COUNTY
Comm Exp Nov 27 2000

(This area for official notarial seal)

2000-091391
07/26/2000 03:16P
DE Page: 3 of 5

GD.DOC (Rev 11/95)

MAIL TAX STATEMENTS AS SHOWN ABOVE

(This area for official notarial seal)

Order No. 452329-TD
Escrow No. 517043

PARCEL I:

Parcels 1 and 2, as shown on that certain map entitled, "PARCEL MAP BEING A RESUBDIVISION OF A PORTION OF LAND CONVEYED TO KEITH L. DAVEY BY DEED FILED FOR RECORD ON JANUARY 3, 1973, IN VOLUME 6300 OFFICIAL RECORDS AT PAGE 526, SAN MATEO COUNTY RECORDS", which map was filed for record in the office of the Recorder of the County of San Mateo, State of California, on July 3, 1998, in Book 70, of Parcel Maps at pages 64 to 65, inclusive.

PARCEL II:

TOGETHER with the right to install, maintain, remove and replace underground or overhead public utilities and underground sanitary sewers within the Westerly 10 feet measured at right angles Easterly from the Westerly line of the following described parcel:

BEGINNING at the most Southerly corner of that certain 19.25 acre tract described in deed from Foothills Development Company, a corporation to Keith L. Davey, dated March 17, 1941, and recorded March 19, 1941 in Volume 946 of Official Records at page 173 and running thence South 1° 01' 30" West 127.17 feet to Middle Road; thence along Middle Road, South 88° 58' 30" East 25 feet; thence North 1° 01' 30" East 156.82 feet to the Southeasterly line of said 19.25 acre tract; thence along said Southeasterly line South 41° 09' 50 West 38.78 feet to the point of beginning.

A.P. No.:	044-162-030	JPN 044 016 162 03 A
	044-162-070	044 016 162 07 A
	044-162-090	044 016 162 09 A
	044-162-120	044 016 162 10 A
		044 016 162 10.02 A

2000-091391
07/26/2000 03:18P
DE Page: 4 of 5

ILLEGIBLE NOTARY CERTIFICATION AND SEAL DECLARATION
(GOVERNMENT CODE 27361.7)

STATE OF **New York**
) SS.
COUNTY OF **New York**

NAME OF NOTARY: **William T. Kelly**

PLACE OF NOTARY'S OATH/BOND: **Westchester County, New York**

COMMISSION I.D. NUMBER: **4724547**

VENDOR I.D. NUMBER: **N/A**

COMMISSION EXPIRATION DATE: **MARCH 30, 2000**

I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct. (CCP 2015.5)

PLACE OF EXECUTION OF THIS DECLARATION: San Jose, California

DATE: July 20, 2000

BY: Lori Eichler
Lori Eichler

FOR FIRST AMERICAN TITLE GUARANTY COMPANY

2000-091391
07/26/2000 03:18P
DE Page: 5 of 5

DOC # 2000-141625
11/10/2000 11:50A R1 Fee:NC
Page 1 of 26
Recorded in Official Records
County of San Mateo
Warren Slocum
Assessor-County Clerk-Recorder
Recorded By CITY OF BELMONT

WHEN RECORDED MAIL TO:

City of Belmont
1070 Fifth Avenue Suite 311
Belmont, Ca 94002
City Clerk

THIS

26p

Resolution of Intention of the City Council of the City of Belmont to establish Community Facilities District No 2000-1 of the City of Belmont to authorize the levy of a special tax & to pay certain costs from bond proceeds adoption of local goals & policies

TITLE OF DOCUMENT

THIS PAGE ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION
(Additional Recording Fee Applies)
(Gov't Code 27361.6)

CITY OF BELMONT

STATE OF CALIFORNIA)
)ss.
COUNTY OF SAN MATEO)

I, Kathy Kern, City Clerk of the City of Belmont, California do hereby certify that the above and foregoing is a full, true and correct copy of Resolution No. 8884 of Said City Council, and that the same has not been amended or repealed.

Dated: October 24, 2000

Kathy Kern
City Clerk of the City of Belmont

2000-141325
11/10/2000 11:50A
R1 Page 2 of 26

I:\Library bond\certify reso.doc

1070 Sixth Avenue
Belmont, California 94002-3893

~~EXHIBIT 2~~

RESOLUTION NO. 8884

RESOLUTION OF INTENTION OF THE CITY COUNCIL OF THE CITY OF BELMONT TO ESTABLISH COMMUNITY FACILITIES DISTRICT NO. 2000-1 OF THE CITY OF BELMONT, TO AUTHORIZE THE LEVY OF A SPECIAL TAX AND TO PAY CERTAIN COSTS FROM BOND PROCEEDS; ADOPTION OF LOCAL GOALS AND POLICIES

WHEREAS, the City Council of the City of Belmont (respectively, the "City Council" and the "City") has determined pursuant to Section 53318 of the Government Code of the State of California to institute proceeding on its own initiative for the establishment of a community facilities district with boundaries that are coterminous with the City boundaries; and

WHEREAS, the City Council desires to establish a community facilities district consisting of the territory described in Exhibit "A" attached hereto and incorporated herein by this reference, which the City Council hereby determines shall be known as "Community Facilities District No. 2000-1 of the City of Belmont" (the "Community Facilities District No. 00-1" or the "District") pursuant to the Mello-Roos Community Facilities Act of 1982, as amended, commencing with Section 53311 of the Government Code (the "Act") to finance (1) the construction of a new City library located in the City, which has a useful life of five years or longer, as authorized by Section 53313.5 of the Act, and the necessary equipment and facilities required to relocate the existing library to the new location which have a useful life of five years or longer (collectively, the "Project"), (2) improvements to the park area adjacent to the library (3) the ongoing maintenance of the library, and (4) the incidental expenses to be incurred in connection with financing the project including, but not limited to, expenses for the formation and administration of the District, the issuance of the bonds, appraiser fees, paying agent fees and escrow bank fees (the "Incidental Expenses"); and

WHEREAS, the City Council further intends to approve an estimate of the costs of the Project and the Incidental Expenses as hereinbefore described; and

WHEREAS, it is the intention of the City Council to consider financing the Project and the Incidental Expenses through the formation of Community Facilities District No. 00-1 and the sale of bonds in an amount not to exceed $8,650,000 (the "Obligations") and the levy of a special tax to pay for the Project and to pay the debt service on the Obligations and the Incidental Expenses, provided that the bond sale and special tax levy are approved at an election to be held within the boundaries of Community Facilities District No. 2000-1; and

WHEREAS, it is necessary and desirable that the City adopt local goals and policies relating to the use of the Act as required by Section 53312.7 of the Act.

THE CITY COUNCIL OF THE CITY OF BELMONT HEREBY FINDS, DETERMINES, RESOLVES, AND ORDERS AS FOLLOWS:

Section 1. The above recitals are true and correct.

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DOC SSI 21372x1 212970001

Section 2. A community facilities district is proposed to be established under the terms of the Act. It is further proposed that the boundaries of the community facilities district shall be the legal boundaries as described in Exhibit "A" attached hereto, which boundaries shall, upon recordation of the boundary map for the District, include the entirety of any parcel subject to taxation by the District, and as depicted on the map of the proposed Community Facilities District No. 00-1 which is on file with the City Clerk. The boundary of the District is identical to the boundary of the City. The City Clerk is hereby directed to sign the original map of the District and record it with all proper endorsements thereon with the County Recorder of the County of San Mateo within 15 days after the adoption of this resolution, all as required by Section 3111 of the Streets and Highways Code of the State of California.

Section 3. The name of the proposed community facilities district shall be "Community Facilities District No. 2000-1 of the City of Belmont".

Section 4. The acquisition and construction of the Project from the proceeds of Obligations to be issued by the City for the Community Facilities District No. 00-1 are authorized pursuant to Section 53313.5 of the Act. The maintenance of the Project from the proceeds of the special tax is authorized pursuant to Section 53313 of the Act. The City Council hereby finds and determines that the description of the Project herein is sufficiently informative to allow taxpayers within the proposed District to understand what the funds of the District may be used to finance. The Incidental Expenses expected to be incurred include the costs of forming the District and issuing the Obligations and levying and collecting a special tax within the proposed District. Any portion of the Project may be financed through a lease or lease-purchase arrangement if the District hereafter determines that such arrangement is of benefit tot he District.

Section 5. Except where funds are otherwise available, it is the intention of the City Council to levy annually in accordance with the procedures contained in the Act a special tax, secured by recordation of a continuing lien against all nonexempt real property in the District, sufficient to pay for: (i) the Project and Incidental Expenses; and (ii) the principal and interest and other periodic costs on the Obligations proposed to be issued to finance the Project, including the establishment and replenishment of any reserve funds deemed necessary by the District, any remarketing, credit enhancement and liquidity facility fees (including such fees for instruments which serve as the basis of a reserve fund in lieu of cash). The rate and method of apportionment and manner of collection of the special tax are described in detail in Exhibit "B" attached hereto, which Exhibit "B" is incorporated herein by this reference. Exhibit "B" allows each landowner within the District to estimate the maximum amount that may be levied against each parcel. In the first year in which such special tax is levied, the levy shall include an amount sufficient to repay to the City all amounts, if any, transferred to the District pursuant to Section 53314 of the Act and interest thereon.

If special taxes of the District are levied against any parcel used for private residential purposes, (i) the maximum special tax rate shall not be increased over time except that it may be increased by an amount not to exceed two percent per year to the extent permitted by the rate and method of apportionment, (ii) such tax shall not be levied or collected after 30 years from the date of issuance of the bonds paid for by the levy of the tax, or such longer term as is then permitted by law, and (iii) under no circumstances will such special tax be increased as a consequence of delinquency or default by the owner of any other parcel or parcels within the District by more than ten percent.

The special tax within the District is based on the expected demand that each parcel of real

property will place on the Project and on the benefit that each parcel derives from the right to access the Project. The City Council hereby determines the rate and method of apportionment of the special tax set forth in Exhibit "B" to be reasonable. The special tax is apportioned to each parcel on the foregoing basis pursuant to Section 53325.3 of the Act and such special tax is not on or based upon the value or ownership of real property. In the event that a portion of the property within Community Facilities District No. 00-1 shall become for any reason exempt, wholly or partially, from the levy of the special tax specified on Exhibit "B", the City Council shall, on behalf of Community Facilities District No. 00-1, cause the levy to be increased, subject to the limitation of the maximum special tax for a parcel as set forth in Exhibit "B", to the extent necessary upon the remaining property within proposed Community Facilities District No. 00-1 which is not delinquent or exempt in order to yield the special tax revenues required for the purposes described in this Section 5. Conditions under which the obligation to pay special taxes may be prepaid and permanently satisfied are set forth in Exhibit "B" hereto.

Section 6. A public hearing (the "Hearing") on the establishment of the proposed Community Facilities District No. 00-1, the proposed rate and method of apportionment of the special tax and the proposed issuance of the Obligations to finance the Project and the Incidental Expenses shall be held at 7:30 p.m., or as soon thereafter as practicable, on December 12, 2000 at the City Hall located at 1070 Sixth Avenue, Belmont, California 94002. Should the City Council determine to form the District, a special election will be held to authorize the issuance of the Obligations and the levy of the special tax in accordance with the procedures contained in Government Code Section 53326. If held, the proposed procedure at the election will be a registered voter vote with each registered voter having one vote.

Section 7. At the time and place set forth above for the Hearing, any interested person, including all persons owning lands or registered to vote within proposed Community Facilities District No. 00-1, may appear and be heard. At the time and place set forth above for the Hearing, the City Council will receive testimony as to whether the proposed Community Facilities District No. 00-1 shall be established and as to the rate and method of apportionment of the special tax for the District and shall consider:

(a) if an *ad valorem* property tax is currently being levied on property within proposed Community Facilities District No. 00-1 for the exclusive purpose of paying principal of or interest on bonds, lease payments or other indebtedness incurred to finance construction of capital facilities; and

(b) if the capital facilities to be financed and constructed by Community Facilities District No. 00-1 will provide the same services as were provided by the capital facilities mentioned in subsection (a) above; and

(c) if the City Council makes the findings specified in subsections (a) and (b) above, it will consider appropriate action to determine that the total annual amount of *ad valorem* property tax revenue due from parcels within Community Facilities District No. 00-1, for purposes of paying principal and interest on the debt identified in subsection (a) above, shall not be increased after the date on which Community Facilities District No. 00-1 is created, or after a later date determined by the City Council with the concurrence of the legislative body which levied the property tax in question.

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DOCSSF 233251-217911.001

Section 8. Each City officer who is or will be responsible for acquiring and constructing the Project with the Obligations of Community Facilities District No. 00-1, if it is established, is hereby directed to study the proposed District and, at or before the time of the above-mentioned Hearing, file a report with the City Council containing a brief description of the financing of the Project which will in his or her opinion be required to meet adequately the needs of Community Facilities District No. 00-1 and an estimate of the cost of financing the Project including the cost of environmental evaluations of such facilities and an estimate of the fair and reasonable cost of any Incidental Expenses to be incurred.

Section 9. The City Clerk is hereby directed to publish a notice (the "Notice") of the Hearing pursuant to Section 6061 of the Government Code in a newspaper of general circulation published in the area of proposed Community Facilities District No. 00-1. The Notice shall contain the text or a summary of this Resolution, the time and place of the Hearing, a statement that the testimony of all interested persons or taxpayers will be heard, a description of the protest rights of the registered voters and landowners in the proposed district and a description of the proposed voting procedure for the election required by the Act. Such publication shall be completed at least seven (7) days prior to the date of the Hearing.

Section 10. Except to the extent limited in any bond resolution or trust indenture related to the issuance of bonds, the City Council hereby reserves to itself all rights and powers set forth in Section 53344.1 of the Act (relating to tenders in full or partial payment).

Section 11. The City may advance funds for the payment of costs of the formation of the District and the issuance of the Obligations prior to the issuance of the Obligations. The District hereby states its intention and reasonable expectation that the District shall reimburse the City for such funds with proceeds of the Obligations.

Section 12. The reasonably expected maximum principal amount of the Obligations is Eight Million Six Hundred Fifty Thousand Dollars ($8,650,000).

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Section 13. The local goals and policies statement relating to all Community Facilities Districts to be formed within the City is set forth in Exhibit "C" and by this reference made a part hereof. The local goals and policies statement as set forth in Exhibit "C" is approved and adopted by this City Council.

PASSED, APPROVED AND ADOPTED THIS 24TH DAY OF OCTOBER, 2000.

I hereby certify that the foregoing Resolution was duly and regularly passed and adopted by the City Council of the City of Belmont at a regular meeting thereof held on October 24, 2000, by the following vote:

AYES, COUNCIL MEMBERS: Warden, Hahn, Wright, Rianda

NOES, COUNCIL MEMBERS: None

ABSTAIN, COUNCIL MEMBERS: None

ABSENT, COUNCIL MEMBERS: Cook

Kathy Kern
CLERK of the City of Belmont

APPROVED:

Vice MAYOR of the City of Belmont

* Operation and Maintenance Special Tax Option 1

The Maximum Annual Special Tax Rate allocable to Operations and Maintenance Costs shall be the actual amount of Operations and Maintenance Costs allocable to all Taxable Parcels, but in any event, not less than $17.00 per Dwelling Unit per year and $0.02 per square foot of Commercial/Industrial Building Area

*Resolution amended to add Option 1 at Council meeting 10/24/00

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STATE OF CALIFORNIA)
) ss.
COUNTY OF SAN MATEO)

I, Kathy Kern, City Clerk of the City of Belmont, California do hereby certify that the foregoing Resolution No. 8884 was duly adopted by the City Council of said District at a meeting of said City Council held on the 24th day of October, 2000, and that it was so adopted by the following vote:

AYES: Warden, Hahn, Wright, Rianda

NOES: None

ABSTAIN: None

ABSENT: Cook

Dated: October 24, 2000

Kathy Kern
City Clerk of the City of Belmont

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11/10/2000 11:50A
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Reso. No. 8884

EXHIBIT "A"

LEGAL BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2000-1

The boundaries of Community Facilities District No. 2000-1 are coterminous with boundaries of the City. A map of the District is on file in the office of the City.

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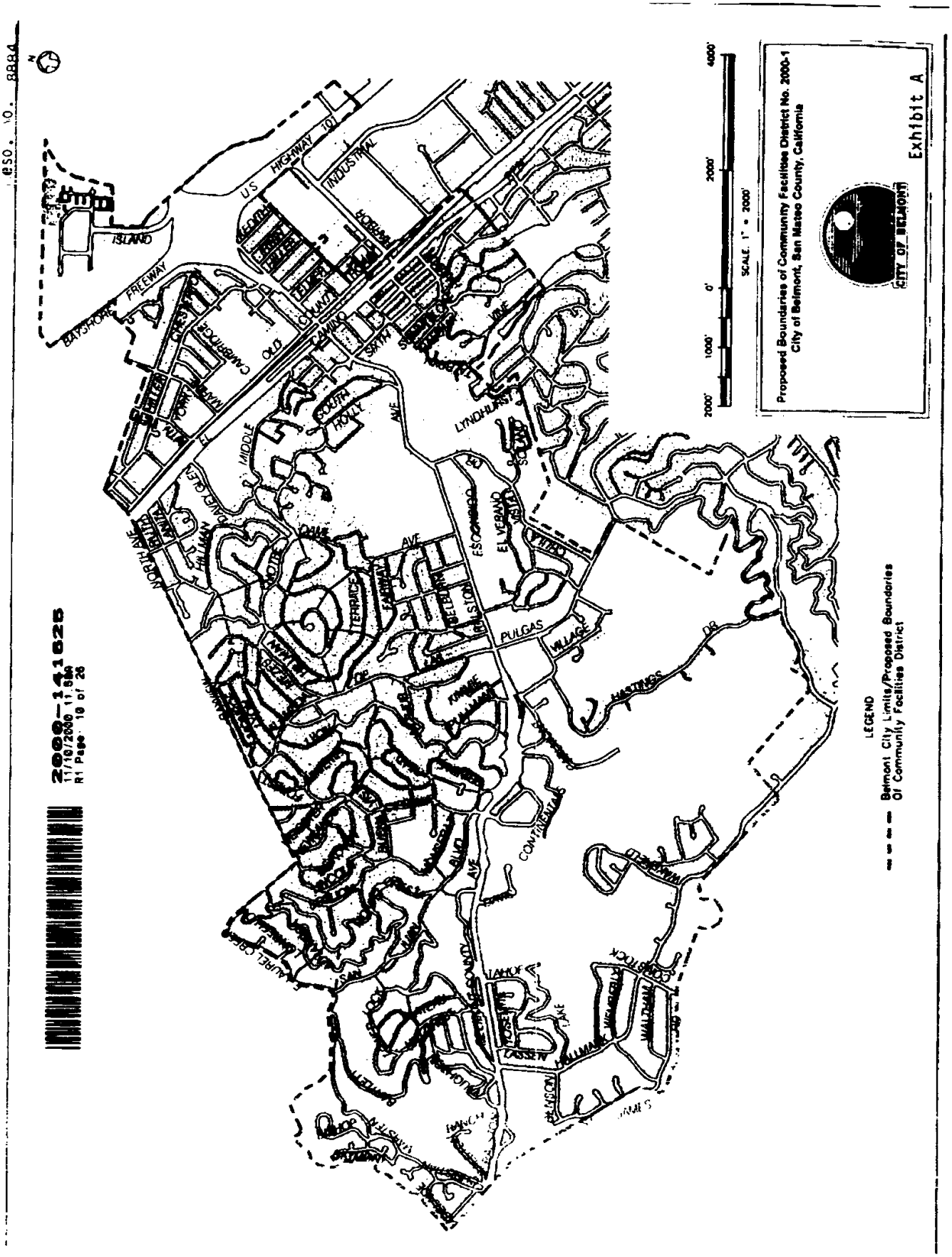
Exhibit A
Proposed Boundaries of Community Facilities District No. 2000-1
City of Belmont, San Mateo County, California
CITY OF BELMONT
SCALE: 1" = 2000'
2000' 1000' 0' 2000' 4000'
LEGEND
Belmont City Limits/Proposed Boundaries
Of Community Facilities District
2000-141625
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US HIGHWAY 101
INDUSTRIAL
BAYSHORE FREEWAY
ISLAND
OLD CAMINO
CHESTNUT
MIDDLE
SOUTH HOLLY
LYNDHURST
ELMERAND
ESCONDIDO
PULGAS
VILLAGE
HASTINGS
CONTINENTAL
LAKE
LASSEN
COLLINS
NORTH ALAMEDA
TERRACE
FAIRWAY
BELMONT
BRISTOL
KNOLL
PALLMARK
WALNUT
CONSTITUTION
TAHOE
SAN
LAUREL CREEK

Reso. No. 8884

EXHIBIT "B"

RATE AND METHOD OF APPORTIONMENT

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11/10/2000 11:50A
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DOC SSF\23372v1:24209.0001

Initial Draft: August 11, 2000
First Revision: October 22, 2000

Attachment A

Operation and Maintenance Special Tax Option 1

The Maximum Annual Special Tax Rate allocable to Operations and Maintenance Costs shall be the actual amount of Operations and Maintenance Costs allocable to all Taxable Parcels, but in any event, not less than $17.00 per Dwelling Unit per year and $0.02 per square foot of Commercial/Industrial Building Area.

Operation and Maintenance Special Tax Option 2

The Maximum Annual Special Tax Rate allocable to Operations and Maintenance Costs shall be the actual amount of Operations and Maintenance Costs allocable to all Taxable Parcels, but in any event, not less than $15.00 per Dwelling Unit per year and $0.016 per square foot of Commercial/Industrial Building Area.

Operation and Maintenance Special Tax Option 3

The Maximum Annual Special Tax Rate allocable to Operations and Maintenance Costs shall be the actual amount of Operations and Maintenance Costs allocable to all Taxable Parcels, but in any event, not less than $12.00 per Dwelling Unit per. The Operation and Maintenance Costs not covered by revenue generated by Dwelling Unit shall be allocated per square foot of Commercial/Industrial Building Area.

Operation and Maintenance Special Tax Option 4

No Special Tax shall be levied for the Operation and Maintenance Costs associated with the library project.

Operation and Maintenance Special Tax Option 5

The Maximum Annual Special Tax Rate allocable to Operations and Maintenance Costs shall be the actual amount of Operations and Maintenance Costs allocable to all Taxable Parcels, but in any event, not less than $12.00 per Dwelling Unit per year and $0.013 per square foot of Commercial/Industrial Building Area.

The maximum Annual Special Tax Rate allocable to Operations and Maintenance Costs shall be adjusted annually to reflect inflation, the adjustment factor is equivalent to the most recently published All Urban Consumer Price Index (Bay Area), as calculated from time to time by the U.S. Bureau of Labor Statistics.

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11/16/2000 11:56A
R1 Page: 12 of 26

Initial Draft. August 11, 2000
First Revision: October 22, 2000

RATE AND METHOD OF APPORTIONMENT

CITY OF BELMONT COMMUNITY FACILITIES DISTRICT NO. 2001-1 (LIBRARY PROJECT)

Section 1. Definitions

The defined terms below shall apply wherever such terms are used in this Rate and Method of Apportionment. Capitalized terms not defined herein shall have that meaning ascribed to them in the fiscal agent agreement.

"Act" means the Mello-Roos Community Facilities Act of 1982 (Chapter 2.5, Part 1, Division 2, Title 5 of the California Government Code), as amended from time to time.

"Administrative Expenses" means the actual or estimated costs incurred by the City to determine, levy and collect the Special Taxes, including salaries of City employees and the fees of consultants, corporate bond paying agents, fiscal agents and bond trustees; the costs of collecting upon the general tax rolls installments of the Special Taxes; preparation and maintenance of required records and reports; preparation of financial audits; and, any other costs required to administer the CFD.

"Annual Special Tax Requirement" means for each Fiscal Year, the total of 1) Debt Service, 2) Operations and Maintenance Costs, adjusted for inflation as described in the definition of such costs, 3) Administrative Expenses, and 3) any amounts needed to replenish bond reserve funds and to make up for any deficit caused by actual or estimated delinquencies in Special Taxes for the previous or current Fiscal Year.

"Annual Tax Revenues" means the amount of Special Taxes collected each Fiscal Year to pay the Annual Special Tax Requirement.

"Approved Dwelling Unit" means each residential dwelling unit that could be constructed on a parcel created within the boundaries of the CFD pursuant to a recorded Final Map approved by the City after the CFD has been established.

"Auditor" means the Auditor for the County or his or her designee

"CFD" means City of Belmont Community Facilities District No. 2001-1 (Library Project)

"Classification Date" means a calendar day at least thirty (30) days before the end of each Fiscal Year

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11/18/2000 11:50A
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"City" means the City of Belmont, California.

"City Council" means the elected legislative body of the City of Belmont.

"City Manager" means the manager of the City of Belmont.
"Commercial/Industrial Parcel" means a Parcel which is designated commercial or industrial pursuant, to the land use approved for such Parcel by the Belmont general plan or other land use planning document approved by the City. In the event the City has no official land use designation for a Parcel, the land use code on the secured tax rolls of the County may be used to classify such Parcel.

"Commercial/Industrial Building Area" means the actual building area of improvements to Commercial/Industrial Parcels as determined by the City or the County.

"County" means County of San Mateo, California.

"Coverage Factor" means a percentage rate equal to fifteen (15) percent.

"Debt Service" means the total amount of principal and interest due on outstanding bonds of the CFD that must be collected by the County in any Fiscal Year in order to make timely payments of principal and interest on such outstanding bonds.

"Developed Dwelling Unit" means any dwelling unit within the boundaries of the CFD for which a building permit has been issued by the City.

"Developed Parcel" means a Parcel on which there are one or more Developed Dwelling Units.

"Development Agreement" means a development agreement approved by the City of Belmont, which allows residential development of one or more Parcels within the boundaries of the CFD.

"Dwelling Unit Equivalent" means one residential dwelling unit.

"Facilities Costs" means the actual costs of constructing, acquiring or developing the library project, including administrative costs of the City.

"Final Map Parcel" means a Parcel within the boundaries of the CFD shown on a recorded final map that is zoned for any residential use.

"Fiscal Year" means the period beginning July 1 and ending the following June 30

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11/10/2000 11:58A
R1 Page. 14 of 28

"Inactive Parcel" means a Parcel within the boundaries of the CFD which is not classified as a Commercial/Industrial Parcel, Developed Parcel, Final Map Parcel, Vacant Residential Parcel, or Public Parcel.

"Maximum Annual Special Tax Rate" means the maximum amount of Special Taxes per Approved Dwelling Unit and Developed Dwelling Units that may be levied against a Taxable Parcel.

"Operations and Maintenance Costs" mean the costs of operating the library facility incurred by or on behalf of the City of Belmont.

"Parcel" means any Parcel within the boundaries of the CFD that is identified by an Assessor's parcel number on the secured tax rolls of the County as of the January 1 lien date (or such other lien date as may be established by the Assessor) of each Fiscal Year.

"Parcel Classification" means the placement of each Parcel into its respective classification as such parcel exists thirty (30) days before the beginning of each Fiscal Year.

"Prepaid Parcel"' means any Parcel that has prepaid in full pursuant to this Rate and Method of Apportionment the Special Taxes to be levied against such Parcel in satisfaction of its pro rata share of the Annual Special Tax Requirement.

"Principal Prepayment Amount" means the amount of unpaid outstanding bond principal allocable to each Taxable Parcel as of the date of such calculation.

"Public Parcel" means any Parcel that is, or is intended to be, publicly owned and which is normally tax-exempt under California law, including public streets, schools, parks, and public drainage ways, rights-of-way, landscaping, greenbelts and open space.

"Special Tax" or "Special Taxes" means any tax levy with respect to the CFD under the Act on Taxable Parcels within the boundaries of the CFD.

"Special Tax Report" means the report prepared annually by the City Manager showing the classification of each Parcel within the boundaries of the CFD, the amount of Special Taxes to be levied on each Taxable Parcel, a projected sources and uses of funds for the CFD in such Fiscal Year showing that projected Annual Tax Revenues are sufficient to pay projected the Annual Special Tax Requirement, and a Tax Collection Schedule.

"Tax Collection Schedule" means the document prepared by the City Manager for use by the Auditor in collecting the Special Taxes each Fiscal Year

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11/10/2000 11:50A
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"Taxable Classification Date" means the date on which a Parcel is first classified as a Taxable Parcel.

"Taxable Parcel" means any Vacant Residential Parcel, Developed Parcel, Commercial/Industrial Parcel, or Final Map Parcel.

"Tax-Exempt Parcel" means any Parcel that is a Public Parcel. However, Taxable Parcels that are acquired by a public entity shall remain subject to the applicable Special Tax pursuant to Section 53317.4 of the Act.

"Vacant Residential Parcel" means any Parcel designated as residential in use by the Belmont general plan for which the City has neither issued a residential building permit nor approved the construction of one or more residential dwelling units pursuant to an approved final map.

Section 2. Basis of Special Tax Levy

A Special Tax under the Act applicable to each Taxable Parcel included within the boundaries of the CFD shall be levied and collected according to the tax liability determined by the City through the application of the procedures described below.

Section 3. Determination and Classification of Parcels Subject to Special Tax

Prior to July 1 of each Fiscal Year the City Manager shall cause to be prepared a Special Tax Report setting forth: 1) the classification of each Parcel within the boundaries of the CFD, the amount of Special Tax to be levied on each Taxable Parcel in the next ensuing Fiscal Year, a projected sources and uses of funds for the CFD in such Fiscal Year showing that projected Annual Tax Revenues are sufficient to pay the projected Annual Special Tax Requirement, 2) the total number of Dwelling Unit Equivalents, Approved Dwelling Units and Developed Dwelling Units in the CFD for such Fiscal Year, 3) the total number of Dwelling Unit Equivalents, Approved Dwelling Units and Developed Dwelling Units allocable to Prepaid Parcels, 4) the net taxable Dwelling Unit Equivalents, Approved Dwelling Units, Developed Dwelling Units and Commercial/Industrial Building Area allocable to Taxable Parcels for such Fiscal Year, 5) the Commercial/Industrial Building Area of each Commercial/Industrial Parcel, 6) the Special Tax rate applicable to each Dwelling Unit Equivalent, Approved Dwelling Unit and Developed Dwelling Unit, Commercial/Industrial Building Area allocable to Taxable Parcels for such Fiscal Year, 7) the classification of each Parcel within the boundaries of the CFD, 8) the total number each of Dwelling Unit Equivalents, Approved Dwelling Units, Developed Dwelling Units and Commercial/Industrial Building Area allocable to each Parcel and the sum total of all such dwelling units and/or building area allocable to each Parcel for each Fiscal Year, 9) the amount of Special Taxes to be levied on each Taxable Parcel in the next ensuing Fiscal Year, 10) the annual Principal

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Prepayment Amount allocable to each Taxable Parcel, and 11) a Tax Collection Schedule.

Parcels shall be classified as of their status applicable in the next ensuing Fiscal Year thirty (30) days before the end of each Fiscal Year. The secured property tax roll, land use codes and plot map books maintained by the County Assessor of San Mateo County, in combination with official records maintained by the City regarding Development Agreements, recorded final maps, building permits issued, and other changes in parcel development status, will be the basis for classifying the Parcels in the CFD. If the land use code on the secured property tax roll is incorrect, the City may assign the appropriate code based on its review of the status of the property.

Upon direction of the City Council prior to the first issuance of bonds, and thereafter as of the thirtieth (30th) day prior to the beginning of each Fiscal Year, the City Manager shall cause:

1. Each Parcel to be classified as a Public Parcel, Tax-Exempt Parcel, Inactive Parcel, Vacant Residential Parcel, Prepaid Parcel or Taxable Parcel;

2. Each Taxable Parcel to be classified as a Commercial/Industrial Parcel, Vacant Residential Parcel, Final Map Parcel, or Developed Parcel; and,

3. The number of dwelling units or building area assignable to each Taxable Parcel to be determined.

Once a Parcel is classified as a Taxable Parcel it may not be removed from such classification unless i) Special Taxes allocable to such Parcel have been prepaid pursuant to Section 7 hereof in which case such Parcel shall be reclassified as a Prepaid Parcel or ii) the City Manager determines that such removal shall not cause the Special Tax rate per dwelling unit or building area on remaining Taxable Parcels to exceed the Maximum Annual Special Tax Rate. Provided further, once the number of Approved Dwelling Units, Developed Dwelling Units or Commercial/Industrial Building Area has been has been initially allocated to a Taxable Parcel (provided such initial allocation is not in error), such number may not be reduced unless the City Manager determines that such reduction shall not cause the Special Tax rate per dwelling unit or building area on remaining Taxable Parcels to exceed the Maximum Annual Special Tax Rate.

If any single building permit has been issued for construction of one or more dwelling units on multiple Parcels, each such Parcel shall be assigned the total number of Developed Dwelling Units applicable to such Parcels prior to construction notwithstanding the fact that such Parcels may have been consolidated into a single Parcel by the County Assessor provided, however, the number of Developed Dwelling Units may be reduced if the City Manager determines that such reduction

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shall not cause the Special Tax rate per dwelling unit on remaining Taxable Parcels to exceed the Maximum Annual Special Tax Rate.

The Special Tax shall be levied only on Taxable Parcels within the boundaries of the CFD. The amount of the Special Tax for each Taxable Parcel shall be determined in accordance with the provisions of Section 6 hereof. Each Taxable Parcel's Special Tax for the next ensuing Fiscal Year shall be levied against such Parcel's Assessor's parcel number as it was shown on the County Assessor's records of Parcels in the CFD as of the prior January 1 lien date, or such other lien date established by the Assessor.

Section 4. Termination of the Special Tax

When all of the CFD's Administrative Expenses, Operations and Maintenance Costs and Debt Service obligations are satisfied and no bonds authorized for issuance by the CFD remain either unissued or outstanding, the City Council shall determine that the Special tax shall cease to be levied. The City Council shall then direct the City Clerk to record a Notice of Cessation of Special Tax as provided by law. Notwithstanding the foregoing, in no event shall the Special Tax be levied after the Fiscal Year ending June 30, 2031.

Section 5. Maximum Annual Special Tax Rate

The Maximum Annual Special Tax Rate for each Taxable Parcel shall consist of two components: a Maximum Special Tax allocable to Facilities Costs and a Maximum Special Tax allocable to Operations and Maintenance Costs. The Maximum Annual Special Tax allocable to Facilities Costs shall not exceed $54 per Dwelling Unit Equivalent, Approved Dwelling Unit and Developed Dwelling Unit or $0.065 per square foot of Commercial/Industrial Building Area allocable to such Taxable Parcel.

Operation and Maintenance Special Tax Option 1:

The Maximum Annual Special Tax Rate allocable to Operations and Maintenance Costs shall be the actual amount of Operations and Maintenance Costs allocable to all Taxable Parcels, but in any event, not less than $17.00 per Dwelling Unit per year and $0.02 per square foot of Commercial/Industrial Building Area.

{Please see Attachment A for Options 2 through 5}

Section 6. Apportionment and Selection of Special Tax Rates

A Special Tax rate per square foot of Commercial Industrial Building Area, or per unit of Dwelling Unit Equivalents, Approved Dwelling Units and Developed

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Dwelling Units allocable to each Taxable Parcel in the CFD shall be established annually by the City Council. The Special Tax rate shall then be multiplied by the sum of the number of Dwelling Unit Equivalents, Approved Dwelling Units and Developed Dwelling Units or Commercial/Industrial Building Area on each such Taxable Parcel to determine the Special Tax applicable to each such Taxable Parcel, as the case may be. Prior to July 1 of each Fiscal Year for which the Annual Special Tax Requirement is payable, the Special Tax rate per Dwelling Unit Equivalent, Approved Dwelling Unit and Developed Dwelling Unit and to Commercial/Industrial Building Area allocable to each Taxable Parcel in the CFD shall be established as follows:

Step 1 The total Annual Special Tax Requirement for such Fiscal Year shall be determined.

Step 2 The sum of unexpended fund balances held under the fiscal agent agreement securing outstanding bonds that is available to pay Debt Service in the such Fiscal Year shall be determined.

Step 3 The amount of Debt Service due in such Fiscal Year payable from Annual Tax Revenues collected in the prior Fiscal Year shall be determined.

Step 4 The amounts calculated in steps 1 and 3 above shall be added together and the amount determined in step 2 above shall be subtracted from such sum to arrive at the Annual Tax Revenues to be collected in such Fiscal Year.

Step 5 The total number of Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units and Commercial/Industrial Building Area in the CFD as of the Classification Date for such Fiscal Year shall be determined.

Step 6 The total number of Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units and Commercial/Industrial Building Area attributable to Prepaid Parcels shall be determined.

Step 7 The total number of Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units and Commercial/Industrial Building Area attributable to Prepaid Parcels shall be subtracted from the total number of Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units and Commercial/Industrial Building Area in the CFD to arrive at the total taxable Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units and Commercial/Industrial Building Area for such Fiscal Year.

Step 8 The Annual Tax Revenues calculated in step 4 above shall be divided by the total number of taxable Dwelling Unit Equivalents, Approved Dwelling Units, Developed Dwelling Units and Commercial/Industrial Building Area calculated in

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step 7 above to determine the Special Tax rate per Dwelling Unit Equivalent, Approved Dwelling Unit, Developed Dwelling Unit or unit of Commercial/Industrial Building Area applicable for such Fiscal Year; provided, however, the Special Tax rate per Dwelling Unit Equivalent, Approved Dwelling Unit, Developed Dwelling Unit or Commercial/Industrial Building Area in any Fiscal Year may not exceed the Maximum Annual Special Tax Rate per Dwelling Unit Equivalent, Approved Dwelling Unit, Developed Dwelling Unit or Commercial/Industrial Building Area.

Step 9 For each Taxable Parcel, the Special Tax rate per Dwelling Unit Equivalent, Approved Dwelling Unit, Developed Dwelling Unit and Commercial/Industrial Building Area unit for such Fiscal Year shall be multiplied by the total number of Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units and Commercial/Industrial Building Area on such Taxable Parcel to determine the Special Tax applicable to such Taxable Parcel. Vacant Residential Parcels shall be assigned one Dwelling Unit Equivalent.

Notwithstanding the above, under no circumstances shall the Special Tax levied against any parcel used for private residential purposes be increased as a consequence of delinquency or default by the owner of any other parcel or parcels within the CFD by more than ten (10) percent.

After each Parcel has been annually classified, the annual Special Tax for each Taxable Parcel has been calculated and a Special Tax Report for such Fiscal Year approved by resolution of the City Council in July of each Fiscal Year, the City Manager shall forward a Tax Collection Schedule showing the annual Special Tax liability for each Taxable Parcel to the County Auditor, requesting that the Tax Collection Schedule be placed on the secured property tax roll for the applicable Fiscal Year. The Tax Collection Schedule shall be sent not later than August 10 or such other date required by the County Auditor for such placement.

The City shall make every effort to correctly assign the Special Tax rates and calculate the annual Special Tax liability for each Taxable Parcel for each Taxable Parcel. It shall be the burden of the taxpayer to correct any errors in the determination and classification of the Parcels subject to the Special Tax and their respective Special Tax liabilities.

Section 7. Prepayment of Special Taxes

Prepayment Prior to the Sale of Bonds. Prior to the sale of bonds, the owner of each Taxable Parcel shall have the option to prepay future Special Taxes attributable to Facilities Costs to be levied against such Taxable Parcel with a single cash payment. The amount of such optional cash payment shall be determined as follows:

Step 1 Prior to the sale of bonds, the total number of Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units and Commercial/Industrial Building Area shall be determined.

Step 2 The total library project costs to be financed with the sale of bonds by the CFD shall be determined. From such amount shall be deducted the following bond financing costs: the cost of financing a bond debt service reserve fund, any interest to be capitalized from the proceeds of bonds, an underwriter's discount and bond insurance premiums. All other budgeted costs of creating the CFD and issuing bonds approved by the City shall be included as library project costs.

Step 3 The net amount determined in step 2 above shall be divided by the sum of the total number of Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units and Commercial/Industrial Building Area as determined in step 1 above.

Step 4 The quotient resulting from step 3 above shall, for each Taxable Parcel be multiplied by the total number of Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units or Commercial/Industrial Building Area allocable to each such Taxable Parcel. The product of such multiplication shall be the optional cash payment amount assigned to each such Taxable Parcel.

Notice shall be given by mail to each owner of Taxable Parcels within the CFD of a 30-day period prior to the sale of bonds within which cash payments may be made. Only cash payments in whole may be accepted in lieu of the payment of annual Special Taxes for Facilities Costs. Parcels for which the prepayment of Special Taxes in whole has been made shall be reclassified as Prepaid Parcels and shall no longer be subject to the levy of Special Taxes for Facilities Costs. Prepaid Parcels will remain subject to an annual levy of Special Taxes for payment of Operations and Maintenance Costs.

Prepayment Subsequent to the Sale of Bonds. The owner of any Taxable Parcel may prepay the Special Taxes attributable to Facilities Costs to be levied against such Parcel at certain times during the term to maturity of outstanding bonds. The dates of such prepayment(s) will be determined by the City at the time(s) bonds are sold, but will generally be at the first date the bonds secured by the Special Taxes may be called for optional redemption. Special Taxes for Facilities Costs may not be prepaid in part. Optional prepayment amounts for each Taxable Parcel subsequent to the sale of bonds shall be determined at the same time annual Special Taxes are determined as follows.

Step 1 The total number of Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units and Commercial/Industrial Building Area in the CFD as of the Classification Date for such Fiscal Year shall be determined

Step 2 The total number of Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units and Commercial/Industrial Building Area attributable to Prepaid Parcels shall be determined.

Step 3 The total number of Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units and Commercial/Industrial Building Area attributable to Prepaid Parcels shall be subtracted from the total number of Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units and Commercial/Industrial Building Area in the CFD to arrive at the total taxable Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units and Commercial/Industrial Building Area for such Fiscal Year.

Step 4 The total amount of unpaid bond principal outstanding at the beginning of such Fiscal Year shall be determined, from which amount shall be subtracted any principal coming due in such Fiscal Year, the payment of which was provided for in the collection of the prior Fiscal Year's Annual Tax Revenues.

Step 5 The unpaid outstanding bond principal determined in step 4 above shall be divided by the total taxable Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units and Commercial/Industrial Building Area for such Fiscal Year as determined in step 3 above to arrive at the unpaid bond principal per taxable Dwelling Unit Equivalent, Developed Dwelling Unit or Approved Dwelling Unit for such Fiscal Year.

Step 6 For each Taxable Parcel, the unpaid bond principal per taxable Dwelling Unit Equivalent, Developed Dwelling Unit, Approved Dwelling Unit or Commercial/Industrial Building Area for such Fiscal Year shall be multiplied by the total number of taxable Dwelling Unit Equivalents, Developed Dwelling Units, Approved Dwelling Units and Commercial/Industrial Building Area allocable to such Taxable Parcel to arrive at the Principal Prepayment Amount allocable to each such Taxable Parcel.

An owner of a Taxable Parcel may prepay the future Special Tax obligations of such Parcel attributable to Facilities Costs by paying in cash the sum of i) the amount of any delinquent and unpaid installments of Special Taxes levied against such Parcel, together with any penalties, interest and costs due thereon, ii) the Special Taxes levied against such Parcel in such Fiscal Year, iii) the Principal Prepayment Amount allocable to such Taxable Parcel in such Fiscal Year, iv) a prepayment premium in an amount equal to the prepayment premium required under the fiscal agent agreement to be paid on bonds to be called on the next permissible call date times the Principal Prepayment Amount allocable to such Taxable Parcel in such Fiscal Year, v) a reasonable fee, fixed by the City, for the cost of administering the prepayment and the advance redemption of bonds, and vi) a credit for such

Taxable Parcel's pro rata share of the reserve fund balance (if any) established under the fiscal agent agreement.

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Section 8. Application of Surplus Tax Revenues

Any amounts collected in excess of the Annual Special Tax Requirement shall be applied as set forth in the fiscal agent agreement securing outstanding bonds of the CFD.

Section 9. Administrative Changes

The City Manager has the authority to make necessary administrative adjustments to the Rate and Method of Apportionment in order to remedy any portions of the Special Tax formula that require clarification, provided that no such adjustment shall result in a tax levy on any Taxable Parcel in excess of the applicable Maximum Annual Special Tax Rate for such Taxable Parcel.

Any taxpayer that believes that the amount or formula of the Special Tax is in error may file a notice with the City Manager appealing the Special Tax. The City Manager or his designee will then promptly review the appeal, and if necessary, meet with the applicant. If the findings of the City Manager verify that the Special Tax should be modified, a recommendation at that time will be made to the City Council and, as appropriate, the Special Tax shall be corrected and, if applicable, a refund shall be granted from such fund or account established under the indenture securing outstanding bonds of the CFD for which the payment of such refunds is authorized.

Interpretations may be made by resolution of the City Council for purposes of clarifying any vagueness or ambiguity as it relates to the Special Tax or the Maximum Annual Special Tax Rate, the method of apportionment, the classification of properties or any definition applicable to the CFD.

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EXHIBIT "C"

LOCAL GOALS AND POLICIES STATEMENT

CITY OF BELMONT
STATEMENT OF LOCAL GOALS AND POLICIES
CONCERNING THE USE OF THE
MELLO-ROOS COMMUNITY FACILITIES ACT
OF 1982, AS AMENDED

Pursuant to Section 53312.7 of the California Government Code, the City Council of the City of Belmont (hereafter the "City Council") hereby states its goals and policies concerning the use of Chapter 2.5 of Part I of Division 2 of Title 5 of the Government Code of the State of California (hereafter the "Act") in providing adequate public infrastructure improvements for the City of Belmont (the "City") including, but not limited to, library facilities, school facilities, sewer, water, flood control and for the refunding of existing debt on land within the CFD (as defined below). The following goals and policies shall apply to all community facilities districts (each a "CFD") hereafter formed by the City. Any policy or goal stated herein may be supplemented or amended or deviated from upon a determination by the City Council that such supplement, amendment or deviation is necessary or desirable, and any policy or goal stated herein shall be deemed amended or supplemented in the event, and as of the date, if ever, that such amendment or supplement is required to ensure compliance with the Act or any other laws of the State of California or federal laws of the United States of America.

I. Priority that Various Kinds of Public Facilities Shall have for Financing Through the Use of the Act.

It is the policy of the City to give first priority to the provision through the use of the Act of public infrastructure improvements benefiting the City, which improvements may include, but are not limited to, library facilities, school facilities, sewer, water, flood control and for the refunding of existing debt on land within the CFD. It is secondarily the policy of the City to assist in the provision of other public facilities when to do so will, in the sole discretion of the City Council acting as the legislative body of the affected CFD, result in a savings to taxpayers residing within or owning property within the City boundaries.

II. Credit Quality to be Required of Bond Issues, Includin2 Criteria to be Used in Evaluating the Credit Quality.

It is the policy of the City to refrain from the issuance of any CFD bonds unless at the time of issuance of any CFD bonds, (i) special tax revenues from that CFD are reasonably expected to provide at least 110% debt service coverage for each year of the term of such bonds; and (ii) such CFD establishes, and covenants to cause special taxes to be levied in an amount sufficient to maintain, for the term of such bonds (provided, however, that depletion may occur to pay debt service in the last 2 years of such term), a reserve fund securing such bonds in an amount equaling the lowest of(1) ten percent (10%) of the original proceeds of such bonds, or (2) the largest amount, for any bond year during the term of such bonds, of principal and interest payable on such bonds, or (3) one hundred twenty-five percent (125%) of the average amount payable, for any bond year, of principal and interest on the outstanding bonds of such bond issue. Further, it is the policy of the City

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to comply with all provisions of the Act including, but not limited to, Section 53345.8, as such Section may be amended from time to time. If the criteria set forth above are met, such bond issues need not be rated by nationally-recognized rating agencies.

III. Steps to be Taken to Ensure that Prospective Property Purchasers are Fully Informed About Their Taxpaving Obligations.

It is the goal of the City that all taxpayers residing within, or owning property within, the boundaries of a Mello-Roos City heretofore or hereafter established by the City will receive the form of notice required by Section 53341.5 of the Act, at the time set forth therein, as such Section may be amended from time to time. In order to comply with this goal, it is the policy of the City to provide Section 53340.2 notice of special tax to any individual requesting such notice or any owner of property subject to a special tax levied by the City within five working days of receiving a request for such notice.

IV. Criteria for Evaluating the Equity of Tax Allocation Formulas, and Concerning Desirable and Maximum Amounts of Special Tax to be Levied Against Any Parcel.

It is the goal of the City that each taxpayer residing within, or owning property within, the boundaries of any CFD hereafter established by the City pay special taxes which reflect, as nearly as practicable, such taxpayer's fair and reasonable share of their projected benefit from, and/or burden upon, the facilities to be financed or of any refunding of existing debt within the CFD by such CFD. It is the goal of the City that maximum Mello-Roos special taxes on residential owner-occupied property, when taken together with ad valorem taxes, any other special taxes levied pursuant to the Act and assessments applicable to such property, do not exceed in any year two percent (2%) of the greater of the assessed value or appraised value of such property. Nevertheless, special taxes on residential owner-occupied property, when taken together with ad valorem taxes, any other special taxes levied pursuant to the Act and assessments applicable to such property, may exceed in any year two percent (2%) of the greater of the assessed value or appraised value of such property if the City determines at the time of formation of a CFD that over the term of the bonds, the special taxes, ad valorem taxes and assessments are expected to average two percent (2%) or less per year of the greater of the assessed value or appraised value of such property. It is further the policy of the City to comply with the provisions of Section 53321 of the Act with respect to the escalation of maximum taxes.

V. Definitions, Standards, and Assumptions to be Used in Appraisals Required by Section 53345.8.

It is the goal of the City to conform, as nearly as practicable, to the California Debt Advisory Commission's Appraisal Standards for Land-Secured Financings attached hereto as Exhibit A, as such Standards may be amended from time to time, provided, however, that this City Council may additionally amend such standards from time to time as it deems necessary and reasonable, in its own discretion, to provide needed infrastructure improvements within the City, while still accomplishing the goals set forth herein.

read the foregoing notice and know the contents thereof, and that the same is true of Their own knowledge.

Subscribed and sworn to before me this 19th day of March, 1941.

Walker B. Lisher. Owner.
Lillian M. Lisher Owner.

(SEAL ____)

Willa Kirste
Notary Public in and for the County of San Mateo, State of California.

RECORDED at request of CALIFORNIA PACIFIC TITLE & TRUST COMPANY MAR 19 1941 at 25 min. past 1 P. M. San Mateo County Records. T. C.Rice, Recorder. By Annette H. Coogan, Deputy Recorder. -Evelyn Heydenfeldt,Copyist.- Compared & corrections Ok -15155E- (4)
Copyist's Note: xxxxx rulings same as in original.

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PARTIAL RECONVEYANCE

WHEREAS, a portion of the indebtedness secured to be paid by the Deed of Trust executed by REDWOOD HIGHLANDS COMPANY LTD., a corporation to R. H. THAYER and C. B. McELROY as Trustees dated March 2, 1938, and recorded April 5, 1938 in Volume 777 of Official Records at page 409, San Mateo County records, has been paid;

NOW, THEREFORE, R. H. THAYER and C. B. McELROY Trustees do hereby GRANT and RECONVEY unto the PARTIES ENTITLED THERETO, without warranty, all the estate and interest derived to them under said Deed of Trust, in the lands situate in the City of Redwood City County of San Mateo, State of California, described as follows, to-wit:

Lot Numbered Eighteen (18), Block Numbered Thirty-six (36), as delineated and so designated upon that certain map entitled "Map of Redwood Highlands, Redwood City, San Mateo Co., Cal.", filed in the office of the County Recorder of San Mateo County, State of California, on the 20th day of August, 1913, in Book 9 of Maps at pages 6 and 7.

WITNESS our hands this 17th day of March, 1941.

R. H. Thayer Trustee.
C. B. McElroy Trustee.

To R. H. Thayer and C. B. McElroy, Trustees: You are hereby authorized to reconvey the lands hereinabove described so as to release same from lien of deed of trust hereinabove referred to.

(_ _) E. K. WOOD LUMBER COMPANY,
BY H. W. B. Taylor Treasurer.

STATE OF CALIFORNIA,
City and County of San Francisco (ss

On this 18th day of March in the year One Thousand Nine Hundred and Forty-one before me, MARIE H. TUTTLE, a Notary Public in and for the City and County of San Francisco, personally appeared R. H. Thayer known to me to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same. as trustee

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal, at my office in the City and County of San Francisco, the day and year in this certificate first above written.

(SEAL _____)

Marie H. Tuttle Notary Public in and for the City and County of San Francisco, State of California.

My Commission Expires March 30, 1942.

STATE OF CALIFORNIA
County of Los Angeles (ss.

On March 17, 1941, before me, A. L. Hawkins, a Notary Public, in and for said County and State, personally appeared C. B. McElroy known to me to be the persons whose names ~~are~~ is subscribed to the within instrument, and acknowledged to me that ~~they~~ he executed the same as Trustees.

A L Hawkins Notary Public in and for the County of Los Angeles State of California.

(SEAL _____)

My commission expires October 8, 1942.

RECORDED at request of Redwood Highlands Co. Ltd. MAR 19 1941 at 55 min. past 10 A. M. San Mateo County Records. T. C. Rice,Recorder. By Edith E Letts, Deputy Recorder. -Evelyn Heydenfeldt, Copyist.- Compared & corrections Ok -15145E- (7)
Copyist's Note: / marks and black ink carets same as in original.

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$31.90 U.S.I.R.Doc. stamps cancelled. D E E D

FOOTHILLS DEVELOPMENT COMPANY, a corporation, the first party, hereby grants to KEITH L. DAVEY the second party, all of that real property situated in the Town of Belmont, County of San Mateo, State of California, described as follows:

BEGINNING at the intersection of the southeasterly line of Subdivision No. 1 E. D. Swift Tract, Belmont, San Mateo County, California, map of which is filed in Book 9 of Maps at page 3, Records of San Mateo County, with the southwesterly line of El Camino Real, as said line was established by Deed from Foothills Development Company, a corporation, dated November 21, 1934 and recorded December 19, 1934 in Book 644 of Official Records of San Mateo County at page 42; running thence from said point of beginning along the southeasterly line of said Subdivision and its prolongation southwesterly South 59° 40' West 1112.28 feet to a point in North Road; thence South 50° 48' 30" East 930.24 feet; thence North 41° 09' 50" East 38.78 feet; thence North 24° 58' 30" East 127.07 feet; thence North 63° 00' 30" East 53.59 feet; thence South 82° 59' 30" East 69.74 feet; thence North 45° 59' 43" East 783.96 feet to the southwesterly line of El Camino Real; thence northwesterly along said southwesterly line, on a curve to the left, with a radius of 4935 feet; tangent to which bears North 47° 23' 17" West, an arc distance of 217.79 feet; thence continuing along the southwesterly line of El Camino Real, North 49° 55' West 467.27 feet to the point of beginning.

Containing 19.25 acres;

RESERVING THEREFROM, however, an easement of right of way for ingress and egress and public utilities 15 feet wide over and upon the following described portion of said real property:

BEGINNING at the most southerly point of the 19.25 acre parcel herein described and running North 41° 09' 50" East 38.78 feet; thence North 24° 58' 30" East 127.07 feet; thence North 63° 00' 30" East 53.59 feet; thence North 26° 59' 30" West 15 feet; thence South 63° 00' 30" West 58.76 feet; thence South 24° 58' 30" West 130.11 feet; thence South 41° 09' 50" West 37.17 feet; thence South 50° 48' 30" East 15.01 feet to the point of beginning;

which said easement is reserved by the Grantor for the benefit of and as appurtenant to that certain adjoining land now owned by the Grantor, not to exceed five (5) acres and lying between the southerly boundary of said last described 15.01 foot strip of land and Middle Road.

The Grantor also grants unto the Grantee for the benefit of and as appurtenant to the real property hereinabove granted in fee simple, an easement of right of way for ingress and egress and public utilities 25 feet in width over and upon the hereinafter described land of the Grantor: BEGINNING at the most southerly point of the 19.25 acre parcel herein described and running South 1° 01' 30" West 127.17 feet to Middle Road; thence along Middle Road South 88° 58' 30" East 25 feet; thence North 1° 01' 30" East 156.82 feet to the southeasterly line of said 19.25 acre parcel; thence along said southeasterly line South 41° 09' 50" West 38.78 feet to the point of beginning;

PROVIDED, however, that the Grantor reserves unto itself for the benefit of and as appurtenant to the other adjoining land now owned by the Grantor the right to share the use of said last described easement with the Grantee.

IN WITNESS WHEREOF, the first party has executed this conveyance this 17th day of MARCH, 1941.

(CORP.SEAL) FOOTHILLS DEVELOPMENT COMPANY
By Royal R. Meherin
Royal R. Meherin, President.
Attest: Oliver B. Wyman
Oliver B. Wyman, Secretary.

STATE OF CALIFORNIA,
City and County of San Francisco. (ss.

On this 17th day of March, in the year one thousand nine hundred and forty-one, before me, C. R. HOLTON, a Notary Public in and for said City and County, residing therein, duly commissioned and sworn, personally appeared ROYAL R. MEHERIN and OLIVER B. WYMAN, known to me to be the President and Secretary, respectively, of FOOTHILLS DEVELOPMENT COMPANY, the corporation that executed the within and foregoing instrument, and to be the officers who executed the said instrument on behalf of said corporation therein named, and they acknowledged to me that said corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at my office in the said City and County of San Francisco, the day and year in this certificate last above written.

(SEAL ____) C R. Holton NOTARY PUBLIC
In and for the City and County of San Francisco,
State of California.

RECORDED at request of CALIFORNIA PACIFIC TITLE & TRUST COMPANY MAR 19 1941 at 50 min. past 2 P.M. San Mateo County Records. T. C. Rice, Recorder. By Edith E Letts, Deputy Recorder. -Evelyn Heydenfeldt, Copyist.- Compared & corrections Ok -15166E- (10)

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FHA FORM No. 2104 g (For use under Section 203) (Revised apr. 15, 1940) California

DEED OF TRUST With Assignment of Rents

THIS DEED OF TRUST, made this 15th. day of March, 1941, BETWEEN DAVID G. KENNEDY and HELEN McC. KENNEDY, his wife, as Trustor, P. S. SCALES and H. R. EHLERS, as Trustee, and CROCKER FIRST NATIONAL BANK OF SAN FRANCISCO, as Beneficiary,

WITNESSETH: That Trustor irrevocably GRANTS, TRANSFERS, and ASSIGNS to TRUSTEE IN TRUST, WITH POWER OF SALE, the property in San Mateo County, California, described as:

That lot of land in the City of Atherton, County of San Mateo, State of California, described as follows, to-wit:

Lot numbered seven (7) in Block numbered one (1) as shown on that certain map entitled, "Atherton Oaks - Atherton - Calif.", filed in the office of the County Recorder of San Mateo County June 13, 1927 in Book 16 of Maps at pages 10 and 11.

TOGETHER WITH the rents, issues, and profits thereof, SUBJECT, HOWEVER, to the right, power, and authority hereinafter given to and conferred upon Beneficiary to collect and apply such rents, issues, and profits;

FOR THE PURPOSE OF SECURING Performance of each agreement of Trustor herein contained and payment of the sum of $14,000.00 with interest thereon according to the terms of a promissory note, dated March 15, 1941, payable to Beneficiary or order and made by Trustor.

1. Privilege is reserved to pay the debt secured hereby in whole or in an amount equal to one or more principal payments next due on the note, on the first day of any month prior to maturity, provided written notice of intention so to do is given at least thirty days prior to prepayment and provided that if the debt is fully paid prior to final maturity and at that time it is insured under the National Housing Act, Trustor will also pay to Beneficiary 1% of the original principal amount thereof, except that in no event shall such adjusted premium exceed the aggregate amount of mortgage insurance premium charges which would have been payable by Beneficiary if the debt secured hereby had continued to be insured until final maturity.

2. Trustor agrees to pay to Beneficiary in addition to the monthly payments of principal and interest payable under the terms of said note, on the first day of each month until said note is fully paid, the following sums:

a If this deed of trust and the said note secured hereby are insured under the provisions of the National Housing Act and so long as they continue to be so insured, one-twelfth (1/12) of the annual mortgage insurance premium for the purpose of putting the holder of such note in funds with which to discharge the said holder's obligation to the Federal Housing Administration for mortgage-insurance premiums pursuant to the provisions of Title II of the National Housing Act, as amended, and Regulations thereunder. The holder of the note shall,

RECORDED IN OFFICIAL RECORDS SAN MATEO COUNTY

RESOLUTION NO. 2976

RESOLUTION ACCEPTING GRANT DEED AND AUTHORIZING RECORDATION THEREOF-KEITH L. DAVEY AND ROSE DAVEY, GRANTORS

RESOLVED by the City Council of the City of Belmont that the attached Grant Deed from Keith L. and Rose Davey to the City of Belmont, a municipal corporation, dated June 4, 1973, is hereby accepted by the City, and the City Clerk is authorized to record same with the San Mateo County Recorder.

$ $ $ $ $ $ $ $ $

I hereby certify that the foregoing Resolution was duly and regularly passed and adopted by the City Council of the City of Belmont at a regular meeting thereof held on June 25, 1973, by the following vote:

AYES, COUNCILMEN: HARDRICK, SULLIVAN, GIULIANI

NOES, COUNCILMEN: NONE

ABSENT, COUNCILMEN: VALLEGA, JONES

CLERK of the City of Belmont

APPROVED:

VICE MAYOR of the City of Belmont

5052216

ANDERSON & OVERSON
LEVEONE & SCHNITZER
ATTORNEYS AT LAW
1024 LAUREL STREET
SAN CARLOS, CALIF.
TEL. 593-3117

Vol 6422 Pg 304

RECORDING REQUESTED BY

CITY OF BELMONT

AND WHEN RECORDED MAIL TO

James W. McLaughlin
Belmont City Clerk
City Hall
1365 Fifth Avenue
Belmont, Calif. 94002

Name
Street Address
City & State

50573AG
RECORDED AT REQUEST OF
City of Belmont

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JUL 2 2 47 PM 1973

MARVIN CHURCH, RECORDER
SAN MATEO COUNTY
OFFICIAL RECORDS

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO

Name
Street Address
City & State

Governmental entity acquiring title.
Tax exempt effective November 10, 1969

TO 401 CA (9-62)

Joint Tenancy Grant Deed

DATE

THIS FORM FURNISHED BY TITLE INSURANCE AND TRUST COMPANY

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

Keith L. and Rose Davey

hereby GRANT(S) to CITY OF BELMONT, a Municipal Corporation,

AS JOINT TENANTS,

the real property in the City of Belmont
County of San Mateo State of California, described as:

An easement for drainage over the following described property:

A strip of land 10 feet in width, 5 feet of which lies on each side of the following described line:

BEGINNING at a point on the Southwesterly line of that certain 10.25 acre parcel conveyed to Keith L. Davey by Deed recorded in Book 946 of Official Records of San Mateo County, State of California, at page 173, distant along said line, South 50° 28' 37" East 113 feet from the Southeasterly line of Davey Glen Road, as said road is described in the Deed to the City of Belmont, a municipal corporation, recorded in Volume 5121 of Official Records of San Mateo County, at page 313 through 316; thence from said point of beginning, North 15° 45' West 229 feet; thence North 49° 14' East 180 feet more or less to the Southeasterly line of said Davey Glen Road.

Dated: June 4, 1973

Keith L. Davey
Rose L. Davey

STATE OF CALIFORNIA
COUNTY OF San Mateo } ss.

On June 4, 1973 before me, the undersigned, a Notary Public in and for said State, personally appeared

Keith L. Davey
Rose Davey

known to me to be the person s whose name s subscribed to the within instrument and acknowledged that they executed the same.

WITNESS my hand and official seal.

Signature Lee Kaufman

Lee Kaufman
Name (Typed or Printed)

LEE KAUFMAN
NOTARY PUBLIC — CALIFORNIA
PRINCIPAL OFFICE IN
SAN MATEO COUNTY
My Commission Expires June 12, 1974

(This area for official notarial seal)

Title Order No. Escrow or Loan No.

MAIL TAX STATEMENTS AS DIRECTED ABOVE

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RECORDER'S OFFICE SAN MATEO COUNTY

RECORDED IN OFFICE SAN MATEO COUNTY

I N T E R - O F F I C E

M E M O R A N D U M

Mary K. McLaughlin
City Clerk JUN 14 1973

TO: Jim McLaughlin - City Clerk

FROM: J.R. Doerksen - City Engineer

DATE: June 14, 1973

SUBJECT: Grant Deed for drainage easement

I find the attached Drainage Easement Grant Deed from Keith L. and Rose Davey to be technically correct. Please include in the agenda of the next Council meeting.

Acceptance of subject Deed by the City Council is required prior to recordation.

J.R. Doerksen

cc: City Manager

REC'D 22700 306

RECORDER'S OFFICE SAN MATEO COUNTY

CITY OF BELMONT
1365 FIFTH AVENUE
BELMONT, CALIFORNIA 94002

Office of the City Clerk
James W. McLaughlin, CMC

Telephone
573-2790

December 8, 1981

Marvin Church, County Clerk/Recorder
Government Center of San Mateo County
Redwood City, CA. 94063

Attn: C. Gaddy, Deputy

Dear Mr. Church,

Herewith is a certified copy of City of Belmont Ordinance No. 692, adopted by the Belmont City Council on November 24, 1981, approving and adopting the Redevelopment Plan for the Los Costanos Community Development Plan Area.

The proceedings for the redevelopment of the Project Area have been instituted under the Community Redevelopment Law.

Also enclosed is a copy of the metes and bounds description and a map of the boundaries of the Project Area.

Please record this letter and these documents at your earliest convenience.

Thank you for your cooperation.

Very truly yours,

James W. McLaughlin
James W. McLaughlin, CMC,
Belmont City Clerk

82002401

cc with all enclosures to:
W.J. Bergman, Jr., Auditor-Controller
R. Giannini, Assessor
G.R. Reilly, State Board of Equalization
Belmont School District, Board of Trustees
Community College District, Board of Trustees
Sequoia Union High School District, Board of Trustees
Mosquito Abatement District, Board of Trustees
Sequoia Hospital Board of Directors
Belmont Fire District, Board of Directors
South County Fire District, Board of Directors
Belmont County Water District, Board of Directors
San Mateo County Harbor District, Board of Directors
Mrs. Jean Davis, Librarian
Directors of Belmont Redevelopment Agency
Agency Attorney Copeland
College of San Mateo, Board of Trustees
Agency Executive Director

82002401
RECORDED AT REQUEST OF
City of Belmont
JAN 11 4 26 PM 1982
MARVIN CHURCH, RECORDER
SAN MATEO COUNTY
OFFICIAL RECORDS

RF
MF CG

First American Title

RECORDER'S OFFICE SAN MATEO COUNTY

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CITY OF BELMONT
ORDINANCE NO. 682
AN ORDINANCE APPROVING AND ADOPTING THE REDEVELOPMENT PLAN FOR THE LOS COSTANOS COMMUNITY DEVELOPMENT PROJECT AREA

WHEREAS, the City Council of the City of Belmont (the "City") has received from the Redevelopment Agency of the City of Belmont (the "Agency") the proposed redevelopment Plan (the "Redevelopment Plan") for the Los Costanos Community Development Project Area (the "Project Area"), entitled "Plan for the Los Costanos Community Development Project Area", dated November 1981, a copy of which is on file at the office of the Agency at 1365 Fifth Avenue, Belmont, California, and at the office of the City Clerk, City Hall, 1365 Fifth Avenue, Belmont, California, together with a report (the "Report"), thereon of the Agency, dated November 1981, including the reasons for the selection of the Project Area, a description of the physical, social, and economic conditions existing in the Project Area, the proposed method of financing the redevelopment of the Project Area in sufficient detail so that this Council may determine the economic feasibility of the Redevelopment Plan, a plan (including the provisions required by Health and Safety Code Section 33411.1) for the relocation of families and persons who may be temporarily or permanently displaced from housing facilities in the Project Area, an analysis of the preliminary Plan for the Project Area, the report and recommendation of the City Planning Commission, the report required by Government Code Section 65402, a summary of meetings with the Project Area residents, an Environmental Impact Report on the Redevelopment Plan, the report of the County Fiscal Officer and the Agency's analysis thereof (including a Summary of Consultation of the Agency, or attempts to consult by the Agency, with each of the taxing agencies as required by Health and Safety Code Section 33328), and a neighborhood impact report describing in detail the impact of the Los Costanos Redevelopment Project (the "Project") upon the residents of the Project Area and the surrounding areas; and

hearing on November 12, 1981, on adoption of the Redevelopment Plan and on the Final Environmental Impact Report on the Redevelopment Plan; and

WHEREAS, a notice of said hearing was duly and regularly published in the San Mateo Times, a newspaper of general circulation published in San Mateo County, there being no newspaper of general circulation printed and published in this City, once a week for four successive weeks prior to the date of said hearing, and a copy of said notice and affidavit of publication are on file with the City Clerk and the Agency; and

WHEREAS, copies of the notice of joint public hearing were mailed by certified mail with return receipt requested to the last known address of each assessee as shown on the last equalized assessment roll of the County of San Mateo of each parcel of land in the proposed Project Area; and

WHEREAS, each assessee in the Project Area was sent a separate statement, attached to the notice of the joint public hearing, that his property may be subject to acquisition by purchase or condemnation under the Redevelopment Plan and subject to the limitations thereof, and a map of all properties which would be subject to acquisition by purchase or condemnation under the Plan; and

WHEREAS, copies of the notice of joint public hearing were mailed by certified mail with return receipt requested to the governing body of each taxing agency which receives taxes from property in the Project Area; and

WHEREAS, the Planning Commission of the City, which is the duly designated and acting official planning body for the City, has submitted to this Council its report and recommendation respecting the Redevelopment Plan, has found that the Redevelopment Plan conforms to the General Plan of the City, and has recommended that the Redevelopment Plan be approved by this Council, and this Council has duly considered same; and

WHEREAS, the Redevelopment Plan prescribes certain land uses for the Project Area and may require, among other things, changes or modifications in zoning, the vacating and removal of streets, alleys and other public rights-of-way, the establishment of new street patterns, the location of sewers, water mains, utility lines and other public facilities, and other public action; and

WHEREAS, the Agency has prepared and submitted a program for the relocation of families and persons who may be displaced as a result of carrying out the Project in accordance with the Redevelopment Plan; and

WHEREAS, the Council has general knowledge of the conditions existing in the Project Area and of the availability of suitable housing in the City for the relocation of families and persons who may be displaced by the Project, and in the light of such knowledge of local housing conditions, has carefully considered and reviewed such program for relocation; and

WHEREAS, the Council is cognizant of the conditions that are imposed in the undertaking and implementation of redevelopment projects under State law, including those prohibiting discrimination because of race, color, creed or national origin; and

WHEREAS, the Council has considered the Report of the Agency, the Redevelopment Plan and its economic feasibility, the feasibility of the relocation program, the Final Environmental Impact Report, and provided an opportunity for all persons to be heard, and has received and considered all evidence and testimony presented for or against any and all aspects of the Redevelopment Plan; and

WHEREAS, the Agency has reviewed and considered the Environmental Impact Report for the Redevelopment Plan, prepared and submitted pursuant to Public Resources Code Section 21151 and Health and Safety Code Section 33352, and determined that the redevelopment of the Project Area pursuant to the Redevelopment Plan will not have a significant effect on the environment;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF BELMONT DOES HEREBY ORDAIN AS FOLLOWS:

SECTION 1. That the purpose and intent of the City Council with respect to the Project Area is to accomplish the following:

a. Provide a more diversified and stable economic base for the Project Area and community by, for example, creating public/private partnerships to facilitate development of remaining commercial and industrial land in order to increase and diversify revenue sources available to the City, and installing needed improvements to stimulate new private investment, employment and economic growth, and replanning, redesigning and developing undeveloped areas which are stagnant or improperly utilized in the Project Area;

b. Provide safer, more efficient, and economical movement of persons and goods within the community, by, for example, reducing present commute traffic by providing local employment opportunities through the development of now vacant commercial and vacant lands and the construction or improvement of needed pedestrian and vehicular circulation within the Project Area, and provide adequate parking and open space facilities within the Project Area;

c. Conserve and improve existing public facilities and provide new such facilities as needed for the full and complete development of the Project Area and community, including water, storm and sanitary utilities, parks and recreation facilities, streets, sidewalks, and governmental facilities;

d. Provide assistance to the residents of the Project Area and City in the improvement of their homes, and provide additional housing opportunities for all economic segments of the Project Area, community and region through, for example, the use of State and local programs, tax increment revenues, and mortgage-revenue bond programs;

e. Provide additional employment opportunities for residents of the Project Area and community through, for example, the development of vacant properties;

f. Create, conserve and protect those natural areas and environmental qualities that contribute to the beauty and character of the Project Area and community;

g. Strengthen and improve the existing retail and other commercial functions in the Project Area and the existing economic base of the City through, for example, the provision of financial assistance through mortgage-revenue bonds for commercial rehabilitation efforts and the provision of additional public facilities and amenities that will improve existing business areas and thus encourage greater private sector investment;

h. Accomplish these goals with a minimum displacement of any residential homeowner, renter or business, such as, for example, through the institution of rehabilitation programs, including methods of financing same;

i. Establish and implement performance criteria to assure high site design standards and environmental quality and other design elements which provide unity and integrity to the entire Project Area.

SECTION 2. The Council hereby finds and determines that:

a. The Project Area is a blighted area, the redevelopment of which is necessary to effectuate the public purposes declared in the California Community Redevelopment Law (Health and Safety Code Section 33000 et seq.) This finding is based upon the following conditions which characterize the Project Area:

(1) The existence of buildings and structures used or intended to be used for living, commercial, industrial or other purposes which are unfit or unsafe to occupy for such purposes and therefore conducive to ill health, transmission of disease, infant mortality, juvenile delinquency, and crime due to deterioration, dilapidation, age, obsolescence, mixed character, defective design and character of physical construction, faulty interior arrangement and exterior spacing, shifting of uses, inadequate sanitation, open spaces and recreation facilities;

(2) The existence of properties which suffer from economic deterioration and disuse because of:

(a) the existence of inadequate public improvements, public facilities, utilities and open spaces, including inadequate and insufficient traffic circulation, parking, drainage, streets, sidewalks, curbs, gutters, and sewers, which cannot be remedied with private or governmental action without redevelopment;

(b) lots (parcels) subdivided and sold of irregular form, shape and inadequate size for proper usefulness and development;

(c) lots (parcels) laid out in disregard to contours, topography, or physical characteristics and surrounding conditions; and

(d) lots (parcels) subject to flooding;

(3) Economic dislocation, deterioration or disuse resulting from faulty planning; and

(4) A prevalence of depreciated values, impaired investments and social and economic maladjustment.

Such conditions are causing and will increasingly cause a reduction and lack of proper utilization of the area to such an extent that it constitutes a serious physical, social or economic burden on the City, which cannot reasonably be expected to be reversed or alleviated by private enterprise acting alone, requiring redevelopment in the interest of the health, safety and general welfare of the people of the City and the State. This finding is based on the fact that governmental action available to the City without redevelopment would be insufficient to make any significant correction of the blighting conditions, and the fact that the nature and costs of the public improvements and facilities required to correct the blighting conditions are beyond the capacity of the City and cannot be undertaken or borne by private enterprise, acting alone or in concert with available governmental action, among other reasons.

b. The Redevelopment Plan will redevelop the Project Area in conformity with the Community Redevelopment Law and in the interests of the public peace, health, safety and welfare. Among other reasons, this finding is based upon the fact that the purposes of the Community Redevelopment Law would be attained by the proposed Project: through the elimination of blighting influences; by the provision of streets and other public improvements necessary to alleviate poor traffic circulation,

First American Title

RECORDER'S OFFICE SAN MATEO COUNTY

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drainage, and other deficiences and to promote development by private enterprise, by development of the Project Area in a manner consistent with the General Plan and the Redevelopment Plan, and promotion of the objective to revitalize and upgrade a significant area within the City in order to increase sales and business tax revenues, reduce the cost of providing services, create jobs for area residents, assure economic stability, eliminate the depressing effects of physical blight, promote aesthetic and environmental actions and improvements and make the City a better place to live, work and enjoy leisure time.

c. The adoption and carrying out of the Redevelopment Plan is economically sound and feasible. Among other reasons, this finding is based on the fact that under the Redevelopment Plan no public redevelopment activity will be undertaken unless the Agency can demonstrate that it has adequate revenue to finance the activity.

d. The Redevelopment Plan conforms to the General Plan of the City. This finding is substantiated by the report of the Planning Commission that the Redevelopment Plan conforms to the General Plan of the City.

e. The carrying out of the Redevelopment Plan will promote the public peace, health, safety and welfare of the City and will effectuate the purposes and policy of the Community Redevelopment Law. Among other reasons, this finding is based on the fact that redevelopment will benefit the Project Area by correcting conditions of blight and by coordinating public and private actions to stimulate development and improve the economic, social and physical conditions of the Project Area.

f. The condemnation of real property, as provided for in the Redevelopment Plan, is necessary to the execution of the Redevelopment Plan, and adequate provisions have been made for the payment for property to be acquired as provided by law. This finding is based upon the need to ensure that the provisions of the Redevelopment Plan will be carried out and to prevent the recurrence of blight, and the fact that the Redevelopment Plan limits the Agency's use of the eminent domain power to that which is necessary to accomplish the goals set forth therein.

g. The Agency has a feasible method and plan for the relocation of families and persons who might be displaced, temporarily or permanently, from housing facilities in the Project Area. This finding is based upon the fact that the Redevelopment Plan provides for relocation assistance according to law, the fact that the Agency has adopted relocation guidelines pursuant to the law, and the fact that minimal or no displacement of residents is contemplated.

h. There are, or are being provided, within the Project Area or within other areas not generally less desirable with regard to public utilities and public and commercial facilities and at rents or prices within the financial means of the families and persons who might be displaced from the Project Area, decent, safe and sanitary dwellings equal in number to the number of and available to such displaced families and persons and reasonably accessible to their places of employment. This finding is based upon the fact that implementation of the Redevelopment Plan will result in the relocation of few residents, if any, and the fact that no person or family will be required to move from any dwelling unit until suitable replacement housing is available.

i. There are no nonconforming areas contained in the Project Area.

j. Inclusion of any lands, buildings or improvements which are not detrimental to the public health, safety or welfare is necessary for the effective redevelopment of the entire area of which they are a part, and any such area is not included for the purpose of obtaining the allocation of tax increment revenues from such area pursuant to Section 33670 of the Community Redevelopment Law without other substantial justification for its inclusion. Among other reasons, this finding is based upon the fact that the boundaries of the Project Area were chosen as a unified and consistent whole to include lands that were underutilized because of blighting influences or affected by the existence of blighting influences and land uses significantly contributing to the conditions of blight, the inclusion of which is necessary to accomplish the objectives and benefits of the Redevelopment Plan.

k. The elimination of blight and the redevelopment of the Project Area could not reasonably be expected to be accomplished by private enterprise acting alone without the aid and assistance of the Agency. This finding is based upon the existence of blighting influences, including the lack of adequate public improvements and facilities, and the inability of individual developers to economically remove these blighting influences without substantial public assistance in providing adequate public improvements and facilities, among other reasons.

l. The Redevelopment Plan for the Project Area will afford the maximum opportunity, consistent with the sound needs of the City as a whole, for the redevelopment of such area by private enterprise.

m. The Redevelopment Plan contains adequate safeguards so that the work of redevelopment will be carried out pursuant to the Redevelopment Plan, and it provides for the retention of controls and the establishment of restrictions and covenants running with the land sold or leased for private use for periods of time and under conditions specified in the Redevelopment Plan, which this Council deems necessary to effectuate the purposes of the Community Redevelopment Law.

n. All of the recitals set forth in the "WHEREAS" provisions hereof are true and correct.

SECTION 3. The Council is satisfied that permanent housing facilities will be available within three years from the time occupants of the Project Area are displaced, if any, and that pending the development of such facilities, there will be available to any such displaced occupants temporary housing facilities at rents comparable to those at the City at the time of their displacement. No persons or families of low and moderate income shall be displaced from residences unless and until there is a suitable housing unit available and ready for occupancy by such displaced persons or families at rents comparable to those at the time of their displacement. Such housing units shall be suitable to the needs of such displaced persons or families and must be decent, safe, sanitary and otherwise standard dwellings. The Agency shall not displace any such persons or families until such housing units are available and ready for occupancy.

SECTION 4. The Council is convinced that the effect of tax increment financing will not cause a severe financial burden or detriment on any taxing agency deriving revenues from the Project Area.

SECTION 5. All objections presented to the Council have been duly considered and are hereby overruled, including written objections to the Redevelopment Plan filed with the City Clerk before the hour set for hearing and all oral objections presented to the Council at the hearing.

SECTION 6. The Council finds, determines and certifies that the Final Environmental Impact Report prepared and submitted pursuant to Public Resources Code Section 21151 and Health and Safety Code Section 33352, having been fully considered by the Council, complies with the requirements of the California Environmental Quality Act (Division 13 of the Public Resources Code), including the Official State Guidelines, as amended, for the implementation of said Act, and the local guidelines of the City, that the Redevelopment Plan will not have a significant effect on the environment, that the redevelopment of the Project Area will enhance and promote high-quality environment, and that the approval and adoption of the Redevelopment Plan is in the best interest of the public health, safety and general welfare. This finding is based on the Final Environmental Impact Report and the findings, determinations and facts recited in the resolution of the Agency certifying the completion of the Final Environmental Impact Report.

SECTION 7. That certain document heretofore submitted to this Council by the Agency entitled "Plan for the Los Costanos Community Development Project Area", dated November 1981, a copy of which is on file in the office of the City Clerk, having been duly reviewed and considered, is hereby incorporated in this Ordinance by reference and made a part hereof, and as so incorporated is hereby designated, approved and adopted as the official "Plan for the Los Costanos Community Development Project Area."

SECTION 8. This Council hereby (a) pledges its cooperation in helping to carry out the Redevelopment Plan, (b) requests the various officials, departments, boards and agencies of the City having administrative responsibilities in the Project Area likewise to cooperate to such end and to exercise their respective functions and powers in a manner consistent with the redevelopment of the Project Area, (c) stands ready to consider and take appropriate action upon proposals and measures designed to effectuate the Redevelopment Plan, and (d) declares its intention to undertake and complete any proceeding necessary to be carried out by the City under the provisions of the Redevelopment Plan.

SECTION 9. The City Clerk is hereby directed to send a certified copy of this Ordinance to the Agency whereupon the Agency is vested with the responsibility for carrying out the Redevelopment Plan.

SECTION 10. The City Clerk is hereby directed to record with the County Recorder of San Mateo County a description of the land within the Project Area and a statement that proceedings for the redevelopment of the Project Area have been instituted under the Community Redevelopment Law.

SECTION 11. The City Clerk is hereby directed to transmit a copy of the description and statement recorded by the Clerk pursuant to Section 10 of this Ordinance, a copy of this Ordinance and a map or plat indicating the boundaries of the Project Area, to the auditor-controller and assessor of the County of San Mateo, to the governing body of each of the taxing agencies which receives taxes from property in the Project Area and to the State Board of Equalization.

SECTION 12. EFFECTIVE DATE. This Ordinance shall be in full force and effect thirty (30) days after passage.

SECTION 13. PUBLICATION. The City Clerk is hereby ordered and directed to certify to the passage of the Ordinance and to cause the same to be published once in the SAN MATEO TIMES, a daily newspaper of general circulation, printed and published in the County of San Mateo, and circulated in the City, there being no newspaper of general circulation published and circulated in the City.

SECTION 14. POSTING. The City Clerk is hereby directed to cause this Ordinance to be posted, within 15 days after its passage, on the bulletin boards at the following three public places in the City:

(1) City Hall
(2) Post Office
(3) Fire Station No. 1

SECTION 15. SEVERABILITY. If any part of this Ordinance or the Redevelopment Plan which it approves is held to be invalid for any reason, such decision shall not affect the validity of the remaining portion of this Ordinance or of the Redevelopment Plan, and this Council hereby declares that it would have passed the remainder of the Ordinance or approved the remainder of the Redevelopment Plan if such invalid portion thereof had been deleted.

If it is determined by final judgment by a court of competent jurisdiction that any parcel of property within the Project Area is not properly a part of said Project Area due to any technical or substantive error including said parcel within the Project Area, then the boundaries of the Redevelopment Plan and Project Area shall be automatically modified to exclude such parcel and such exclusion shall not affect any other part of the Redevelopment Plan, and the remainder thereof shall be carried into effect as though such parcel had not been contained therein.

Introduced on November 18, 1981, at a regular meeting of the City Council.

PASSED AND ADOPTED as an Ordinance of the City of Belmont at a regular meeting of the City Council held on November 24, 1981.

AYES, COUNCILMEN: Moore, Hardwick, Buckley, Green
NOES, COUNCILMEN: None
ABSENT, COUNCILMEN: Hoffman

/s/ JOSEPH GREEN, Mayor

ATTEST:
/s/ JAMES W. McLAUGHLIN, City Clerk

Published in The San Mateo Times, San Mateo, CA 94402, Tuesday, December 1, 1981. (8462)

LEGAL NOTICE

I, the undersigned, City Clerk of the City of Belmont, California, hereby certify that the annexed Ordinance No. 692 is a true and correct copy of an Ordinance duly and regularly introduced and passed by the City Council as in said Ordinance set forth and that the same was duly and regularly published in the San Mateo Times according to law on the 1st day of December 1981

James W. McLaughlin

CITY CLERK
INCORPORATED
OCTOBER 25 1920
CALIFORNIA

82002401 LOS COSTANOS COMMUNITY DEVELOPMENT PROJECT AREA

Legal Description

Exhibit "A"

Beginning at the most northerly corner of Lot 1, Block 3, as said Lot and Block are shown on that certain map entitled "STERLING DOWNS, BELMONT, CALIFORNIA", recorded in Volume 25 of Maps at Page 26, July 16, 1952, San Mateo County Records; said Point of Beginning being identical with the "STERLING DOWNS ANNEXATION" Point of Beginning, as said Annexation was adopted in Ordinance 125 on June 5, 1953, File Number 8727 K.1, City of Belmont; thence from said Point of Beginning along the northeasterly line of said subdivision, South 71°32'18" East 3113.79 feet to the westerly line of Marine View Avenue, as said Avenue is shown on that map entitled "PARCEL MAP NO. 94, CITY OF SAN MATEO, SAN MATEO COUNTY, CALIFORNIA", recorded in Book 21 of Parcel Maps at Page 7, June 13, 1973; thence along the general easterly boundary of last said Parcel Map and Marine View Avenue, North 18°07'42" East 410.00 feet; thence leaving the westerly line of Marine View Avenue and crossing same, South 71°52'18" East 468.91 feet and North 43°11'00" East 470.66 feet to a point in the southwesterly right of way line of Bayshore Freeway; thence across last said Freeway North 07°50'27" East 230.53 feet to a point in the northeasterly right of way line of said Freeway; said point also being the most southwesterly corner of Parcel "C", as said Parcel is shown on that certain "RECORD OF SURVEY, CITY OF BELMONT, SAN MATEO COUNTY, CALIFORNIA", recorded in Volume 6 of L.L.S. Maps at Page 114, December 4, 1975; thence along the southwesterly line of last said Parcel, said line also being the northeasterly right of way line of Bayshore Freeway on the arc of a curve to the right, whose center bears North 31°25'36" East with a radius of 9847.00 feet, a central angle of 1°28'36" and an arc length of 244.71 feet to the most northwesterly corner of last said Parcel "C"; thence continuing along the northeasterly right of way line of Bayshore Freeway also being the southwesterly line of Lands of Buckley-Jaeger as said line and Lands are shown on last said map on the arc of a curve to the right, tangent to last said curve with a radius of 9847.00 feet, a central angle of 1°48'01" and an arc length of 312.27 feet and North 35°11'37" West 880.80 feet to the most westerly corner of last said Lands; thence leaving said northeasterly right of way line of Bayshore Freeway along the northwesterly line of aforesaid lands North 54°40'23" East 275 feet more or less to a point on the common boundary line between Section 35, Township 4 South, Range 4 West and Section 2, Township 5 South, Range 4 West M.D.B. and M.; thence South 89°16'36" East 3250 feet more or less along last said common boundary line, said line also being the northeasterly line of Lands of Buckley-Jaeger, Parcel "B", Parcel "A" and Parcel "E" to the most easterly corner of Parcel "E", as said Lands and Parcels are shown on last said Record of Survey; thence leaving last said common boundary line and southerly along last said Parcel "E" South 70°36'00" West 391.30 feet, thence South 50°15'00" West 258.98 feet; thence South 28°34'00" West 288.98 feet and South 12°17'00" West 658.35 feet to the southeasterly corner of said Parcel "E", said corner also being on the northerly line of Parcel "B" and as shown on that certain "PARCEL MAP NO. 71-1, CITY OF REDWOOD CITY, SAN MATEO COUNTY, CALIFORNIA", recorded in Volume 12 of Parcel Maps at Page 1, February 6, 1978, thence westerly along last said line common to Parcels "E" and "A" of last said Record of Survey and Parcel "B" of last said Parcel Map South 89°27'07" East 897.45 feet to the most northwesterly corner of last said Parcel "B"; thence leaving said common line South 1°46'16" West 840.27 feet; thence South 59°04'11" East 344.74 feet and South 49°37'43" East 4.3.10 feet to the most southerly corner of last said Parcel "B", said corner also being on the northwesterly right of way line of Marine World Parkway (formerly Ralston Parkway); thence across last said Parkway South 40°37'43" East 210 feet more or less to a point in the southeasterly right of way line of said Parkway, also being the westerly corner of Block "A" as shown on that certain map entitled "MARINA PARK, REDWOOD CITY, SAN MATEO COUNTY, CALIFORNIA", recorded in Volume 70 of Maps at Page 4, August 8, 1969, thence southeasterly along the westerly boundary of said Block and Map South 49°37'43" East 905.40 feet; thence South 33°26'43" East 388.81 feet; thence South 13°11'12" East 886.80 feet and South 40°37'43" East 381.16 feet to the southerly corner of last said boundary of Block and Map; thence South 42°00'00" East 311.73 feet across the lands of Leslie Salt Company and a 40.00 foot easement conveyed from Leslie Salt Company to Pacific Portland Cement Company by Deed recorded May 27, 1952, in Book 2241 of Official Records of San Mateo County at Page 482, to a point on the southeasterly line of said easement; thence along the line common to the properties of Leslie Salt Company and David D. Bohannon Organization South 42°00'00" East 919.43 feet; thence South 42°00'00" East 73.38 feet more or less, thence South 45°16'30" West 405 feet more or less to the northeasterly line of the right of way of the said Bayshore Freeway; thence South 45°13'30" West 236.83 feet more or less over and across said Bayshore Freeway to a point on the southwesterly line of said Bayshore Freeway; as said line is shown on that certain RIGHT OF WAY MAP (04-SM-101-8.6-10362-DD formerly IV-SM-68-B); thence along last said line North 47°08'25" West 1434 feet more or less to an angle point in said line; thence North 47°21'13" West 216.04 feet; thence on a curve to the left with a radius of 176.00 feet, a central angle of 86°40'36" and an arc length of 266.26 feet to a point in the southeasterly line of Harbor Boulevard; thence North 47°12'58" West 180.00 feet to a point in the northwesterly line of Harbor Boulevard; thence along aforesaid southwesterly line of Bayshore Freeway North 42°31'31" East 19.71 feet; thence on the arc of a curve to the left with a radius of 180.00 feet, a central angle of 89°00'15" and an arc length of 267.65 feet; thence North 42°00'34" West 613 feet more or less to a point in the northwesterly line of O'Neill Avenue also being the southeasterly line of Block 12, as said Avenue and Block are shown on that certain map entitled "PORT SAN FRANCISCO, SAN MATEO COUNTY, CALIFORNIA", recorded in Volume 36 of Maps at Page 36, August 8, 1927; thence southwesterly along a line common to the northwesterly line of O'Neill Avenue also being the southeasterly line of Block 12, and the northwesterly line of Lots "C" and "A" as said Avenue, Block and Lots are shown on aforesaid Map; and the southeasterly line of Block 1 and 07.4 of said Avenue, as said Block and Avenue are shown on that certain map entitled "MAP NO. 1 HOMEVIEW, BELMONT, CALIFORNIA", recorded in Volume 25 of Maps at Page 36, March 27, 1946, Records of San Mateo County, and southeasterly line of O'Neill Avenue as shown on that certain map entitled "MAP NO. 2 OF HOMEVIEW, BELMONT, CALIFORNIA", recorded in Volume 28 of Maps at Page 38, March 26, 1946, South 43°34'13" West 1230.85 feet more or less to a point on described common line; thence leaving last said line and common line South 44°59'10" East 360.00 feet; thence South 45°01'00" West 368.89 feet to a point on the northeasterly boundary of a portion of Parcel C containing 2.89 acres, as said Parcel is shown on that certain "PARCEL MAP, SAN MATEO COUNTY, CALIFORNIA", recorded in Volume 20 of Parcel Maps at Page 3, September 5, 1973; thence North 46°20'00" West 280.00 feet, a portion thereof being common to last said line, back to last said common line; thence continuing southwesterly along last said common line South 42°34'13" West 422.35 feet and South 44°42'10" East 33.63 feet to the westerly corner of Parcel C of last said Parcel Map also being the intersection of the southeasterly line of O'Neill Avenue and northeasterly line of Kimer Street; thence across Kimer Street South 43°34'13" West 10.86 feet to the intersection of the southeasterly line of O'Neill Avenue with the southwesterly line of Kimer Street, said intersection also being the northerly corner of Parcel A as shown on that certain "PARCEL MAP, SAN MATEO COUNTY, CALIFORNIA", recorded in Book 44 of Parcel Maps at Page 41, December 6, 1978; thence southwesterly along the southeasterly line of O'Neill Avenue also being the northwesterly boundary of last said Parcel Map South 43°34'13" East 168.86 feet; thence leaving said O'Neill Avenue and along the southwesterly and southeasterly boundary of last said Parcel Map South 45°11'00" East 178.30 feet; thence North 43°08'07" East 30.63 feet; thence leaving last said boundary South 46°42'10" East 136.00 feet and South 43°08'00" West 345.80 feet to a point on the southwesterly line of Parcel "A" also being the northeasterly line of COUNTY ROAD, as said Parcel and Road are shown on aforesaid Map of "PORT SAN FRANCISCO"; thence along last said line North 44°42'10" West 136.00 feet; thence leaving last said line across said County Road South 43°05'00" West 60 feet more or less to a point in the southwesterly line of last said Road, said line also being the northeasterly line of Lots 3 through 44 inclusive as said Lots are shown on that certain map entitled "BAY VIEW HEIGHTS SUBDIVISION NO. 3, SAN MATEO COUNTY, CALIFORNIA", recorded in Volume 16 of Maps at Page 35, September 24, 1927; thence southeasterly along last said line South 46°31'00" East 675 feet more or less across Harbor Boulevard to an angle point in Lot 14, thence continuing along last said line South 43°07'10" East 334.65 feet to the easterly corner of Lot 3 of last said Map; thence continuing along the southwesterly line of County Road southeasterly 1130 feet more or less to its intersection with the northeasterly extension of the southeasterly line of F Street, as said line, Road and Street are shown on that certain map entitled "SUNNYSLOPE BELMONT", recorded in Volume 1 at Page 73, San Mateo County Records, California, thence continuing southwesterly along the southeasterly line of last said F Street across the Lands of Southern Pacific Rail Road Co. shown as S.B.E. 872-41-7A Parcel 14 San Mateo County Assessor's Records and across State Route 82 also known as El Camino Real 805 feet more or less to its intersection with the southeasterly extension of the southwesterly line of Sixth Street, as said Street is shown on that certain map entitled "BAY VIEW HEIGHTS, SUBDIVISION NO. 2, SAN MATEO COUNTY, CALIFORNIA", recorded in Volume 16 of Maps at Page 28, August 27, 1927; thence northwesterly along last said line and across King Street North 47°30'00" West 325 feet more or less; thence continuing along the arc of a tangent curve to the right with a radius of 227.91 feet and an arc length of 60 feet more or less to its intersection with the southwesterly prolongation of the northwesterly line of E Street, as said Street is shown on that certain map entitled "BAY VIEW HEIGHTS, SAN MATEO COUNTY, CALIFORNIA", recorded in Volume 14 of Maps at Page 28, October 10, 1926; thence along last said line and across Sixth Avenue North 42°30'00" East 245 feet more or less to its intersection with the southwesterly line of Fifth Avenue; thence along last said line North 47°30'00" West 82.34 feet to an angle point in last said line; thence leaving last said and across Fifth Avenue northerly 60 feet more or less to a point being the intersection of the westerly lot line of Lot 42, Block 1, with the northeasterly line of last said Avenue; thence North 38°28'47" East 88.64 feet along the westerly line of last said Lot to a corner common to Lots 42, 41, 7 and 8 of said Block, thence westerly along the southern line of Lot 7 thru 17 inclusive of said Block North 47°37'03" West 25.00 feet, thence North 88°24'42" West 168.20 feet and North 70°00'00" West 150.00 feet to a point in the easterly line of an alley in said Block; thence southwesterly and northwesterly along the southwesterly line of said alley along the arc of a curve to the right with a radius of 20.00 feet and an arc length of 28.13 feet; thence North 44°02'00" West 220.00 feet to its intersection with the southeasterly line of Harbor Boulevard; thence across Harbor Boulevard North 44°02'00" West 70.00 feet to the northwesterly line of Harbor Boulevard and its intersection with the southwesterly line of an alley in Block 2 of last said Map; thence along last said line North 44°02'00" West 300.00 feet to the northeasterly corner of Lot 30, Block 2; thence South 45°58'00" West 50.00 feet to the southeasterly corner of said Lot; thence South 45°58'00" West 70.00 feet across Fifth Avenue to the northeasterly corner of Lot 12, Block 5 of said Map; thence South 45°58'00" West 100.00 feet to the southeasterly corner of Lot 12; thence South 45°58'00" West 20.00 feet across an alley to the northeasterly corner of Lot 26, Block 5; thence South 45°58'00" West 100.00 feet to the southeasterly corner of Lot 24; thence South 45°58'00" West 60.00 feet across Sixth Avenue to a point in the southwesterly line of Sixth Avenue; thence along last said line North 44°02'00" West 202 feet more or less and on the arc of a curve to the left with a radius of 20.00 feet and an arc length of 31.00 feet to a point on the southeasterly line of Broadway; thence southwesterly along last said line and across Sunnyslope Avenue South 42°30'00" West 380 feet more or less to the northwesterly corner of Lot 7, Block 12; thence North 47°30'00" West 58.00 feet across Broadway to the southwesterly corner of Lot 2, Block 12; thence North 47°30'00" West 100.00 feet to the northwesterly corner of last said Lot, also being a point in the northwesterly boundary of last said map of "BAY VIEW HEIGHTS"; thence northwesterly 25 feet more or less to a point in the southwesterly line of an alley also being the northerly terminus of a 20.00 foot radius curve, as shown on Block 2, as last said Alley, Curve and Block are shown on that certain map entitled "AMENDED MAP OF BROOKHAVEN, SAN MATEO COUNTY, CALIFORNIA", recorded in Volume 17 of Maps at Page 11, July 26, 1928; thence along last said line North 48°41'30" West 231.13 feet to the northerly corner of Lot 16, Block 2; thence South 39°36'00" West 100.00 feet to the westerly corner of last said Lot, thence South 41°19'17" West 60.00 feet across Paloma Avenue to a point in the northeasterly line of Lot 8 in Block 4; thence North 48°00'43" West 31 feet more or less along the southwesterly line of Paloma Avenue to the northerly corner of Lot 8, Block 4; thence South 40°39'00" West 120.31 feet to the most westerly corner of last said Lot and Subdivision; thence in a straight line southwesterly 1020.00 feet more or less to the most northerly corner of Block 1 as shown on that certain map entitled "PANORAMA HEIGHTS, BELMONT, CALIFORNIA", recorded in Volume 48 of Maps at Page 2, November 6, 1957; thence southwesterly along the boundary of last said Block South 42°00'10" West 2.9 feet; thence leaving last said line North 47°00'00" West 1000 feet more or less to the southeasterly line of Ralston Avenue; thence North 15°48'00" West 80 feet more or less across Ralston Avenue to a point in the northwesterly line of Ralston Avenue, as said Avenue is shown as Belmont and Canada Raymundo Road on that certain map entitled "MAP OF THE MIXUS RANCH, NEAR BELMONT, SAN MATEO COUNTY, CALIFORNIA", recorded in Volume 1 of Maps at Page 73, January 10, 1880; said point being in the southeasterly line of the Estate of WM Sharon and being distant southwesterly 20 feet more or less from the southerly corner of Lot 1, Lands of James Springer; thence easterly along last said line to the southerly corner of Lot

RECORDER'S OFFICE SAN MATEO COUNTY

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1, Lands of Jason Springer; thence along the southeasterly line of last said Lot 1 northeasterly to its intersection with the westerly line of South Road; thence continuing northerly and westerly along the westerly line of South Road and across Holly Road which is not shown on aforesaid map, to a point in Lot 4, Lands of Jason Springer, as said Roads, Estate and Lots are shown on aforesaid map of MIXES RANCH; thence from last said point South 43°45'00" West 19 feet more or less to the most easterly corner of Parcel "B" as shown on that certain "PARCEL MAP, BELMONT, SAN MATEO COUNTY, CALIFORNIA", recorded in Book 16 of Parcel Maps at Page 3, March 30, 1972; thence along the southwesterly line of South Road North 38°25'00" East 35.93 feet and on the arc of a curve to the left with a radius of 300.00 feet and a central angle of 1°25'04" and an arc length of 12.86 feet to the northerly corner of last said Parcel; last described line being distant 40.00 feet and parallel to the northeasterly line of South Road, as last said line is shown on that certain map entitled "BELWOOD, BELMONT, SAN MATEO COUNTY, CALIFORNIA", recorded in Volume 13 of Maps at Page 38, March 10, 1938; thence continuing along said parallel line on the arc of a curve to the left with a radius of 360.00 feet, a central angle of 16°24'26" and an arc length of 103.44 feet; thence North 49°30'00" West 194.04 feet, a portion of last said line being the easterly line of Parcels "B" and "C" as shown on that certain "RECORD OF SURVEY" in Book 4 of L.L.S. Maps at Page 147 recorded September 1, 1961, San Mateo County, California, and the easterly line of Parcel A as shown on that certain "PARCEL MAP, CITY OF BELMONT, SAN MATEO COUNTY, CALIFORNIA", recorded in Book 34 of Parcel Maps at Page 21, April 30, 1976; to a point being distant South 41°30'00" West 40.00 feet from the southwesterly corner of Lot 15, as said Lot is shown on aforesaid map of BELWOOD; thence across South Road North 41°30'00" East 40.00 feet to last said corner, thence along the northeasterly boundary of said Map of Belwood, a portion of said boundary also being part of the southeasterly subdivision boundary as shown on that certain map entitled "ANTIQUE FOREST HOMES, CITY OF BELMONT, SAN MATEO COUNTY, CALIFORNIA", recorded in Book 96 of Maps at Page 8, August 24, 1977, North 42°00'00" East 296.00 feet to the intersection of the southwesterly line of Laurel Avenue with the northwesterly line of Cypress Avenue as shown on last said map; thence North 36°18'11" East 7.00 feet along the northwesterly line of Cypress Avenue; thence on the arc of a curve to the left with a radius of 17.00 feet and an arc length of 8 feet more or less to a point on the southerly line of Cobblestone Lane; thence across same North 36°18'11" East 46 feet more or less to the intersection of the northerly line of Cobblestone Lane with the northwesterly line of Cypress Avenue; thence along last said line North 36°18'11" East 73.94 feet; thence North 79°14'34" East 8.17 feet; thence North 36°18'11" East 38.29 feet; thence North 32°08'44" West 8.17 feet; thence North 36°18'11" East 198.38 feet and North 36°23'40" East 5.02 feet to the intersection with the southwesterly line of Middle Road; thence along last said line North 39°05'34" West 32.38 feet; thence North 39°34'30" West 178.85 feet and along the arc of a curve to the left with a radius of 200.00 feet and an arc length of 118 feet more or less to a point on last said line, said point being southerly and radially across from the intersection of the common line to Lots 7 and 8 with the northerly line of Middle Road, as shown on that certain map entitled "SWIFT'S SUBDIVISION OF LOT NO. 10 AND A PORTION OF

LOT NO. 13, MIXES RANCH, BELMONT, SAN MATEO COUNTY, CALIFORNIA", recorded in Book 2 of Maps at Page 88, February 13, 1897; thence across Middle Road northerly and radial 40 feet more or less to the northerly line of Middle Road and its intersection of the line common to Lots 7 and 8; thence along last said line northeasterly 83.00 feet to its intersection of the line common to Lots 8 and 14; thence northwesterly along the southwesterly line of Lots 14 through 19 inclusive 394.28 feet with its intersection of the northwesterly boundary of said map; thence along last said boundary southwesterly 38.40 feet; to the most easterly corner of PARCEL THREE as described in that FINAL ORDER OF CONDEMNATION recorded in Volume 3933, Page 662 (30936T) on February 14, 1961, Records of San Mateo County, California; thence along the northeasterly line of said Parcel North 45°21'14" West 240.04 feet to the most northerly corner of said Parcel, also being a point in the southeasterly line of PARCEL FOUR as described in said FINAL ORDER OF CONDEMNATION; thence along last said line North 45°20'00" East 5.00 feet to the southerly corner of an Exception to said PARCEL FOUR; thence northwesterly along the southwesterly line of said Exception North 42°47'00" West 110 feet more or less to the westerly corner of said Exception also being an angle point in the northwesterly line of PARCEL FOUR; thence continuing along last said line North 42°47'00" West 50 feet more or less and South 45°20'00" West 60 feet more or less to a point in last said line, said point also being the easterly corner of PARCEL TWO of said FINAL ORDER OF CONDEMNATION; thence along the northeasterly line of last said Parcel, North 38°34'31" West 251.90 feet; thence North 32°17'00" West 76.12 feet and North 45°28'24" West 465.45 feet to the northerly corner of last said Parcel, also being a point in the southeasterly line of the lands described in the Deed from Keith L. Davey, to California Pacific Title Insurance Company, dated August 10, 1960 and recorded June 5, 1961 in Book 3993 Official Records of San Mateo County, Page 64 (65585-T); thence northeasterly along the last mentioned line North 45°30'43" East 35 feet more or less to the southerly corner of that certain Parcel of Land conveyed by Deed from Eugene J. Malcshi to Keith L. Davey recorded in Volume 6300 Page 326 (91787 AY) on January 3, 1973; thence along the southwesterly line of said Parcel North 49°28'00" West 303 feet more or less to the westerly corner of said Parcel, said corner also being on the southeasterly line of Davey Glen Road; thence southwesterly along last said line on a curve to the right with a radius of 330.00 feet and an arc length of 129.34 feet and South 71°28'07" West 25 feet more or less to a point, said point being the intersection of the southeasterly prolongation of the line common to Lots 2 and 3 with the southwesterly line of Davey Glen Road and across same North 49°28'00" West 62 feet more or less to a point on the northwesterly line of Davey Glen Road, being the intersection of last said line with the line common to said Lots 2 and 3 as shown on that certain map entitled "BEL ARBOR, CITY OF BELMONT, CALIFORNIA", recorded in Book 96 of Maps, Page 33,

November 17, 1977; thence along last said line North 49°26'00" feet; thence southwesterly along the northwesterly boundary of last said map, last said boundary also being the southeasterly subdivision boundary as shown on that certain map entitled "MAP OF SUBDIVISION NO. 1 E.D. SWIFT TRACT, BELMONT, SAN MATEO COUNTY, CALIFORNIA" recorded in Map Book 9, at Page 2, July 18, 1913; South 85°40'00" West 83.10 feet to the southerly corner of Lot 6, Block 5; thence along the southwesterly line of Lots 6 through 9 inclusive North 47°25'00" West 183.50 feet to its intersection with the easterly line of Belmont Avenue now Malcolm Avenue; thence crossing same northwesterly 50 feet more or less to a point in the westerly line of Malcolm Avenue with the intersection of the line common to Lots 9 and 10, Block 1, as shown on that certain map entitled "BELVIEW

HEIGHTS MAP NO. 1, BELMONT, SAN MATEO COUNTY, CALIFORNIA", recorded in Volume 38 of Maps at Page 37, November 7, 1950; thence along the arc of a curve to the left with a radius of 149.00 feet, a central angle of 24°19'00" and an arc length of 63.48 feet to its intersection with the line common to Lots 8 and 9, Block 1; thence leaving last said intersection and crossing Malcolm Avenue and Belmont Avenue northerly 85 feet more or less to a point on the northeasterly line of Belmont Avenue, being distant thereon 27 feet more or less from the northerly terminus of last said line and as shown on the aforementioned E.D. SWIFT TRACT, Map Book 9 at Page 2; thence southeasterly along the northeasterly line of Belmont Avenue 415.33 feet to its intersection with the southwesterly line of Lots 1 through 8 inclusive of Block 3; thence North 49°35'00" West 388.42 feet along last said line to the southeasterly line of Anita Avenue; thence northwesterly along last said line across Belmont Avenue and Malcolm Avenue North 62°28'00" West 160 feet more or less to its intersection with the southwesterly line of Malcolm Avenue; thence along last said line and across Anita Avenue North 37°38'00" West 378.60 feet to its intersection with the southeasterly line of Ruth Avenue as shown on that certain map entitled "MAP OF SUBDIVISION NO. 2 E.D. SWIFT TRACT, BELMONT, SAN MATEO COUNTY, CALIFORNIA", recorded in Volume 23 of Maps at Page 43, April 18, 1941; thence southwesterly along last said line South 62°25'00" West 484.97 feet; thence along the arc of a tangent curve to the left with a radius of 178.00 feet, a central angle of 38°37'00" and an arc length of 119.97 feet and South 23°28'00" West 38.82 feet to the westerly corner of Lot 12, Block 12; thence across Ruth Avenue and North Road westerly 61 feet more or less to an angle point being the intersection of the northwesterly and southwesterly line of North Road; thence along the southwesterly line North 26°30'00" West 80 feet more or less to an angle point; thence South 62°20'00" West 10.00 feet to an angle point also being the easterly corner of Lot 9 as shown on that certain map entitled "BELLA VISTA GARDENS, BELMONT, CALIFORNIA", recorded in Volume 46 of Maps at Page 22 on March 28, 1955 thence across Irene Court and along the southwesterly line of North Road North 28°30'00" West 276.97 feet to an angle point in North Road; thence northeasterly along the northwesterly line of North Road as shown on aforesaid E.D. SWIFT TRACT Volume 9, Page 2, North 62°30'00" East ...16 feet to its intersection with the southwesterly line of El Camino Real being also State Route 82; thence northeasterly across El Camino Real and the Lands of Southern Rail Road Co. said land shown as S.B.E. 872-41-7G Parcel 34 San Mateo County Assessor's Records North 62°30'00" East 143 feet more or less to the intersection with the southwesterly line of Pacific Boulevard (County Road) as shown on that certain map entitled "TOWN OF BERESFORD MAP NO. 2 SAN MATEO COUNTY, CALIFORNIA", recorded in Volume 16 of Maps at page 41, October 4, 1927; thence southeasterly along last said line South 90°18'16" East 36 feet more or less to a point on last said line, said point being the southwesterly prolongation of the northwesterly boundary line of first described STERLING DOWNS Volume 28, Page 36, thence crossing said Road, now named Old County Road North 43°11'00" East 60 feet more or less to the westerly corner of said subdivision; thence North 43°11'00" East 504.48 feet along last said boundary to the POINT OF BEGINNING.

RECORDER'S OFFICE SAN MATEO COUNTY

RECORDER'S OFFICE SAN MATEO COUNTY

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RECORDED AT REQUEST OF
SAFECO TITLE INSURANCE CO.
DEC 12 10 33 AM 1983
MARVIN [illegible]
SAN MATEO [illegible]

WHEN RECORDED MAIL TO:

The Southland Corporation
Attn.: Real Estate Services Dept.
2828 North Haskell Avenue
Dallas, Texas 75204

RF 7
MF 1
CB 8

SPACE ABOVE THIS LINE FOR RECORDER'S USE

Loc. 23096

MEMORANDUM OF LEASE

This is a Memorandum of Lease by and between Keith L. Davey

hereinafter called LESSOR (whether one or more) of 1 Davey Glen Way, Belmont, CA 94082

, and THE SOUTHLAND CORPORATION, a Texas Corporation, hereinafter called LESSEE, of 2828 North Haskell Avenue, Dallas, Texas. LESSOR hereby grants, demises and leases the premises described below to LESSEE upon the following terms:

Date of Lease: September 16, 1980

Description of Leased Premises: SEE SCHEDULE "A" ATTACHED

83136938

RECORDER'S OFFICE SAN MATEO COUNTY

Date of Commencement: If the necessary permits are obtained as contemplated by Article 3 hereof, the term of this lease shall commence on the first day of the first calendar month following (1) 15 days after the acceptance by Lessee's architect of the building and after improvements to be constructed on the demised premises, or (2) the date that Lessee or its assigns shall first be open for business to the public, or (3) March 1, 1981, whichever event first occurs.

Term: 20 Years.

Renewal Options: Two - Five Year

Purchase Option(s): No

Right Of First Refusal Option: No

The purpose of this Memorandum of Lease is to give record notice of the lease and of the rights created thereby, all of which are hereby confirmed.

In witness whereof the parties have executed this Memorandum of Lease as of the dates set forth in their respective acknowledgements.

(SEAL) LESSOR

Attest:

By Keith L Davey
Keith L Davey

(SEAL) LESSEE

Attest: THE SOUTHLAND CORPORATION

Assistant Secretary

By
Vice President

form 4400041 6/79

RECORDER'S OFFICE SAN MATEO COUNTY

83136938

(Individual)

STATE OF California
COUNTY OF San Mateo } SS.

On Aug 1 1980 before me, the undersigned, a Notary Public in and for said State, personally appeared Keith L. Davey, known to me to be the person whose name is subscribed to the within instrument and acknowledged that executed the same.

WITNESS my hand and official seal.

Signature E. Lexine Killian

E LEXINE KILLIAN
Name (Typed or Printed)

OFFICIAL SEAL
E. LEXINE KILLIAN
NOTARY PUBLIC-CALIFORNIA
Principal Office in SAN MATEO County
My Commission Expires June 10 1983

(This area for official notarial seal)

STAPLE HERE

(Corporation)

STATE OF Texas
COUNTY OF Dallas } SS.

On September 16, 1980 before me, the undersigned, a Notary Public in and for said State, personally appeared SK Ale, known to me to be the Vice President, and Perry Hawkins, known to me to be Assistant Secretary of the corporation that executed the within Instrument, known to me to be the persons who executed the within Instrument on behalf of the corporation therein named, and acknowledged to me that such corporation executed the within Instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

Signature Elizabeth A Fowler

Name (Typed or Printed)

ELIZABETH A. FOWLER, Notary Public
In and for Dallas County, Texas
My Commission Expires May 22, 1984

(This area for official notarial seal)

STAPLE HERE

(Corporation)

STATE OF
COUNTY OF } SS.

On before me, the undersigned, a Notary Public in and for said State, personally appeared , known to me to be the President, and , known to me to be Secretary of the corporation that executed the within Instrument, known to me to be the persons who executed the within Instrument on behalf of the corporation therein named, and acknowledged to me that such corporation executed the within Instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

Signature

Name (Typed or Printed)

(This area for official notarial seal)

STAPLE HERE

SCHEDULE "A"

BEGINNING at a point on the Southwesterly line of El Camino Real, as said line was established by Deed from Foothills Development Company, a Corporation, to State of California, dated November 21, 1934, and recorded December 19, 1934 in Book 644 Official Records of San Mateo County, page 42 (52439-C), distant Southeasterly along said Southwesterly line of El Camino Real 367.00 feet from the intersection of said Southwesterly line of El Camino Real with the Southeasterly line of Subdivision No. 1, E.D. Swift Tract, Belmont, San Mateo County, Calif., a map of which is filed July 16, 1913 in Book 9 of Maps at page 3, Records of San Mateo County, said point of beginning also being the most Easterly corner of that certain road called Davey Road (also known as Davey Glen Road), as described in Exhibit B attached to that certain Deed of Trust executed by 200 Davey Glen Road Company, a Limited Partnership, et al, dated November 5, 1962 and recorded November 5, 1962 in Book 4300 Official Records of San Mateo County, page 493 (30038-V); thence from said point of beginning South 40°34' West along the Southeasterly line of said Davey Glen Road, 100.00 feet; thence leaving said southeasterly line, South 49°26' East 125.00 feet; thence North 40°34' East 100 feet, more or less, to the aforementioned Southwesterly line of El Camino Real; thence Northwesterly along said Southwesterly line of El Camino Real, 125 feet, more or less, to the point of beginning.

TOGETHER WITH non-exclusive easements for ingress and egress over and across the following described parcels of land:

1. Beginning on the said Southwesterly line of El Camino Real at the most Easterly corner of the above described lands; thence from said point of beginning South 40°34' West along the Southeasterly line of said lands 56 feet; thence leaving said last mentioned line Northeasterly in a direct line 67 feet more or less, to a point on the Southwesterly line of El Camino Real distant thereon 35 feet Southeasterly from the point of beginning of this description; thence Northwesterly along said Southwesterly line of El Camino Real, 35 feet to the point of beginning.

2. Beginning on the Southeasterly line of Davey Glen Road above referred to, at the most Westerly corner of the parcel of land first above described; thence from said point of beginning South 49°26' East along the Southwesterly line of said parcel of land first above described, a distance of 45 feet; thence leaving said last mentioned line Northwesterly in a direct line 50 feet, more or less to a point on the Southeasterly line of Davey Glen Road, distant thereon 20 feet Southwesterly from the point of beginning of this description; thence North 40°34' East along the said Southeasterly line of Davey Glen Road 20 feet to the point of beginning.

EXCEPTING FROM the lands first above described, the following described parcel of land:

BEGINNING on the said Southwesterly line of El Camino Real at the most Northerly corner of the first above described lands; thence from said point of beginning South 40°34' West along the Northwesterly line of said lands a distance of 10 feet to a point; thence leaving said Northwesterly line, Southeasterly on the arc of a curve to the right, said curve having a radius of 10 feet and a central angle of 90° and being tangent to a line bearing North 40° 34' East at the last mentioned point, an arc distance of 15.71 feet to the said Southwesterly line of El Camino Real; thence North 49°26' West along the last mentioned line 10 feet to the point of beginning.

RECORDER'S OFFICE SAN MATEO COUNTY

83136938

RECORDER'S OFFICE SAN MATEO COUNTY

Order No. J57394

EXHIBIT "A"

City of Belmont

PARCEL I:

BEGINNING at a point on the Southwesterly line of El Camino Real, as said line was established by Deed from Foothills Development Company, a corporation, to State of California, dated November 21, 1934, and recorded December 19, 1934 in Book 644 Official Records of San Mateo County, Page 42 (52439-C), distant Southeasterly along said Southwesterly line of El Camino Real 367.00 feet from the intersection thereof with the Southeasterly line of Subdivision No. 1, E.D. Swift Tract, Belmont, San Mateo County, California, a map of which is filed July 16, 1913 in Book 9 of Maps at Page 3, Records of San Mateo County, said point of beginning also being the most Easterly corner of that certain road called Davey Road (also known as Davey Glen Road), as described in Exhibit "B" attached to that certain Deed of Trust executed by 200 Davey Glen Road Company, a limited partnership, et al, dated November 5, 1962 and recorded November 5, 1962 in Book 4300, Official Records of San Mateo County, Page 493 (30038-V); thence from said point of beginning South 40° 34' West along the Southeasterly line of said Davey Glen Road, 100.00 feet; thence leaving said road South 49° 26' East 125.00 feet; thence North 40° 34' East 100 feet, more or less, to the aforementioned Southwesterly line of El Camino Real; thence Northwesterly along said Southwesterly line 125 feet, more or less to the point of beginning.

831369 38

EXCEPTING therefrom the following described parcel of land:

BEGINNING on the said Southwesterly line of El Camino Real at the most Northerly corner of the first above described lands; thence from said point of beginning South 40° 34' West along the Northwesterly line of said lands a distance of 10 feet to a point; thence leaving said Northwesterly line, Southeasterly on the arc of a curve to the right, said tangent to a line bearing North 40° 34' East at the last mentioned point, an arc distance of 15.71 feet to the said Southwesterly line of El Camino Real; thence North 49° 26' West along the last mentioned line 10 feet to the point of beginning.

SAFECO

RECORDER'S OFFICE SAN MATEO COUNTY

Order No. J57394

EXHIBIT "A"

(CONTINUED)

PARCEL II:

A non-exclusive easement for ingress and egress over and across the following described parcel of land;

Beginning on the Southwesterly line of El Camino Real at the most Easterly corner of the lands described in Parcel I above; thence from said point of beginning South 40° 34' West along the Southeasterly line of said lands 56 feet; thence leaving said last mentioned line Northeasterly in a direct line 67 feet more or less, to a point on the Southwesterly line of El Camino Real distant thereon 35 feet Southeasterly from the point of beginning of this description; thence Northwesterly along said Southwesterly line of El Camino Real, 35 feet to the point of beginning.

PARCEL III:

A non-exclusive easement for ingress and egress over and across the following described parcel of land;

Beginning on the Southeasterly line of Davey Glen Road above referred to, at the most Westerly corner of the Lands described in Parcel I above; thence from said point of beginning South 49° 26' East along the Southwesterly line of said parcel of land first above described, a distance of 45 feet; thence leaving said last mentioned line Northwesterly in a direct line 50 feet, more or less to a point on the Southeasterly line of Davey Glen Road, distant thereon 20 feet Southwesterly from the point of beginning of this description; thence North 40° 34' East along the said Southeasterly line of Davey Glen Road 20 feet to the point of beginning.

83136938

SAFECO

83076

83136938
RECORDED AT REQUEST OF
SAFECO TITLE INSURANCE CO.
DEC 12 10 33 AM 1983
MARTIN [illegible]
SAN MATEO [illegible]

WHEN RECORDED MAIL TO:

The Southland Corporation
Attn.: Real Estate Services Dept.
2828 North Haskell Avenue
Dallas, Texas 75204

RF 7
MF 1
CB 8

SPACE ABOVE THIS LINE FOR RECORDER'S USE

Loc. 23096

MEMORANDUM OF LEASE

This is a Memorandum of Lease by and between Keith L. Davey

hereinafter called LESSOR (whether one or more) of 1 Davey Glen Way, Belmont, CA 94082

, and THE SOUTHLAND CORPORATION, a Texas Corporation, hereinafter called LESSEE, of 2828 North Haskell Avenue, Dallas, Texas. LESSOR hereby grants, demises and leases the premises described below to LESSEE upon the following terms:

Date of Lease: September 16, 1980

Description of Leased Premises: SEE SCHEDULE "A" ATTACHED

83136938

RECORDER'S OFFICE SAN MATEO COUNTY

Date of Commencement: If the necessary permits are obtained as contemplated by Article 3 hereof, the term of this lease shall commence on the first day of the first calendar month following (1) 15 days after the acceptance by Lessee's architect of the building and after improvements to be constructed on the demised premises, or (2) the date that Lessee or its assigns shall first be open for business to the public, or (3) March 1, 1981, whichever event first occurs.

Term: 20 Years.

Renewal Options: Two - Five Year

Purchase Option(s): No

Right Of First Refusal Option: No

The purpose of this Memorandum of Lease is to give record notice of the lease and of the rights created thereby, all of which are hereby confirmed.

In witness whereof the parties have executed this Memorandum of Lease as of the dates set forth in their respective acknowledgements.

(SEAL) LESSOR

Attest:

By Keith L Davey
Keith L Davey

(SEAL) LESSEE

Attest: THE SOUTHLAND CORPORATION

Assistant Secretary

By
Vice President

form 4400041 6/79

RECORDER'S OFFICE SAN MATEO COUNTY

83136938

(Individual)

STATE OF California
COUNTY OF San Mateo } SS.

On Aug 1 1980 before me, the undersigned, a Notary Public in and for said State, personally appeared Keith L. Davey, known to me to be the person whose name is subscribed to the within instrument and acknowledged that executed the same.

WITNESS my hand and official seal.

Signature E. Lexine Killian

E LEXINE KILLIAN
Name (Typed or Printed)

OFFICIAL SEAL
E. LEXINE KILLIAN
NOTARY PUBLIC-CALIFORNIA
Principal Office in SAN MATEO County
My Commission Expires June 10 1983

(This area for official notarial seal)

STAPLE HERE

(Corporation)

STATE OF Texas
COUNTY OF Dallas } SS.

On September 16, 1980 before me, the undersigned, a Notary Public in and for said State, personally appeared SK Ale, known to me to be the Vice President, and Perry Hawkins, known to me to be Assistant Secretary of the corporation that executed the within Instrument, known to me to be the persons who executed the within Instrument on behalf of the corporation therein named, and acknowledged to me that such corporation executed the within Instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

Signature Elizabeth A Fowler

Name (Typed or Printed)

ELIZABETH A. FOWLER, Notary Public
In and for Dallas County, Texas
My Commission Expires May 22, 1984

(This area for official notarial seal)

STAPLE HERE

(Corporation)

STATE OF
COUNTY OF } SS.

On _____ before me, the undersigned, a Notary Public in and for said State, personally appeared _____, known to me to be the _____ President, and _____, known to me to be _____ Secretary of the corporation that executed the within Instrument, known to me to be the persons who executed the within Instrument on behalf of the corporation therein named, and acknowledged to me that such corporation executed the within Instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

Signature _____

Name (Typed or Printed)

(This area for official notarial seal)

STAPLE HERE

SCHEDULE "A"

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RECORDER'S OFFICE SAN MATEO COUNTY

83136938

RECORDER'S OFFICE SAN MATEO COUNTY

Order No. J57394

EXHIBIT "A"

City of Belmont

PARCEL I:

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831369 38

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SAFECO

RECORDER'S OFFICE SAN MATEO COUNTY

Order No. J57394

EXHIBIT "A"

(CONTINUED)

PARCEL II:

A non-exclusive easement for ingress and egress over and across the following described parcel of land;

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83136938

SAFECO

12. SP-Exceptions 11_99109951

RECORDING REQUESTED BY:
Charles H. Rible, Esq.

WHEN RECORDED MAIL TO:
Charles H. Rible, Esq.
3130 La Selva Drive #307
San Mateo, CA 94403

OFFICIAL RECORDS OF SAN MATEO COUNTY
ASSESSOR-COUNTY CLERK-RECORDER
WARREN SLOCUM

Recorded at Request of
CHARLES H RIBLE ESQ

99-109951 06/25/99 04:15

Recording Fee: 19 BKORWEK

THIS SPACE FOR RECORDER'S USE ONLY

5p

Re: San Mateo County Superior Court Action
John P. Hunter vs. Gene W. Lee, et al.

99-109951

NOTICE OF PENDENCY OF ACTION (LIS PENDENS)

TITLE OF DOCUMENT

THIS PAGE ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION
(Additional Recording Fee Applies)
(Govt Code 27361.6)

CHARLES H. RIBLE, ESQ.
3130 La Selva Drive, Suite 307
San Mateo, CA 94403-2148
Tel: 650/573-0307
State Bar No. 62505

Attorney for Plaintiff,
JOHN P. HUNTER

SUPERIOR COURT OF CALIFORNIA, COUNTY OF SAN MATEO

JOHN P. HUNTER, Plaintiff, vs. GENE W. LEE, MARY H. LEE, CHARISSE M. LEE, KAREN E. LEE, DONNA J. LEE, CKD FAMILY PARTNERSHIP, and DOES 1 through 20, inclusive, Defendants.	No. 409520 **NOTICE OF PENDENCY OF ACTION (LIS PENDENS)**

PLEASE TAKE NOTICE THAT the above-captioned action, by plaintiff JOHN P. HUNTER against the above-named defendants, affects title to and/or possession of real property in that plaintiff seeks to establish a resulting trust regarding the undivided one-half interest of GENE W. LEE, MARY H. LEE, CHARISSE M. LEE, KAREN E. LEE, DONNA J. LEE, CKD FAMILY PARTNERSHIP in the property located in San Mateo County commonly known as 400-490 El Camino Real, Belmont, California, and more particularly

99-109951

described in Exhibit A attached hereto and incorporated by reference.

Dated: June 24, 1999.

Charles H. Rible, Esq.
Attorney for Plaintiff,
JOHN P. HUNTER

99-109951

The real property is located in the City of Belmont, County of San Mateo, State of California, and described as follows:

0.26 Ac Mol on Sly Cor of El Camino Real & Davey Glen Rd
Ptn of Arb Lot 24 Map of Mezes Ranch RSM 1/75
1.18 Ac Mol Hav 183.06 Ft Mol Front on El Camino Real
Ptn of Lot 16 & Ptn of Arb Lot 24 Map of Mezes Ranch RSM 1/75

APN: 044-162-070
APN: 044-162-090

99-109951

EXHIBIT A

PROOF OF SERVICE BY MAIL
CCP Sections 1013(a) and 2015.5

I declare that I am employed in the County of San Mateo, State of California. I am over the age of eighteen years and not a party to the within cause; my business address is 3130 La Selva Drive, Suite 307, San Mateo, CA 94403 and my business telephone number is 650/573-0307.

On June 25, 1999, I served the within

NOTICE OF PENDENCY OF ACTION (LIS PENDENS)

on defendants in said cause, by placing a true copy thereof enclosed in a sealed envelope with postage fully prepaid, in the United States mail at San Mateo, California, addressed as follows:

Gene W. Lee One Davey Glen Road Belmont, CA 94002	Mary H. Lee One Davey Glen Road Belmont, CA 94002
Charisse M. Lee One Davey Glen Road Belmont, CA 94002	Karen E. Lee One Davey Glen Road Belmont, CA 94002
Donna J. Lee One Davey Glen Road Belmont, CA 94002	CKD Family Partnership One Davey Glen Road Belmont, CA 94002

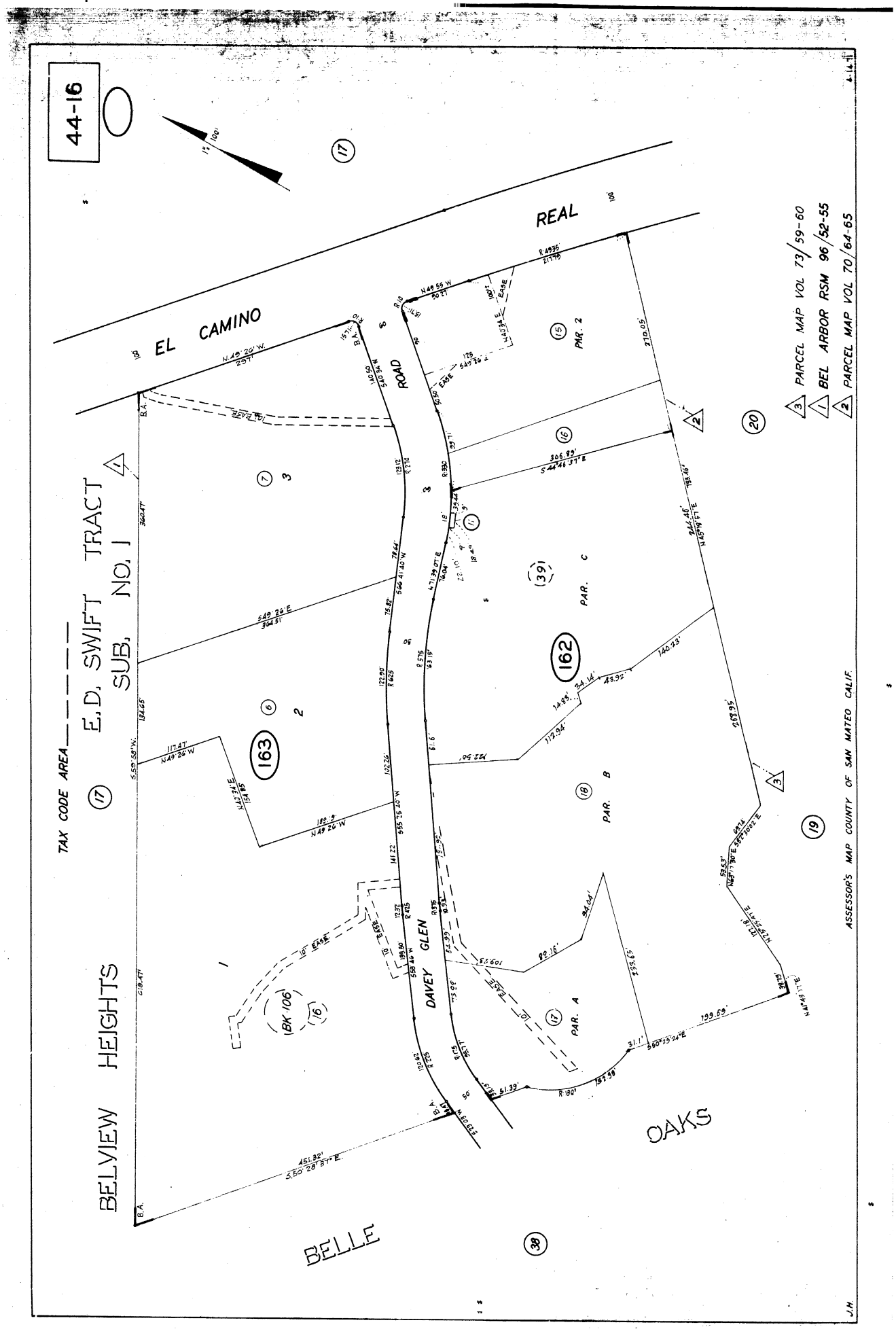
I declare under penalty of perjury pursuant to the laws of the State of California that the foregoing is true and correct.

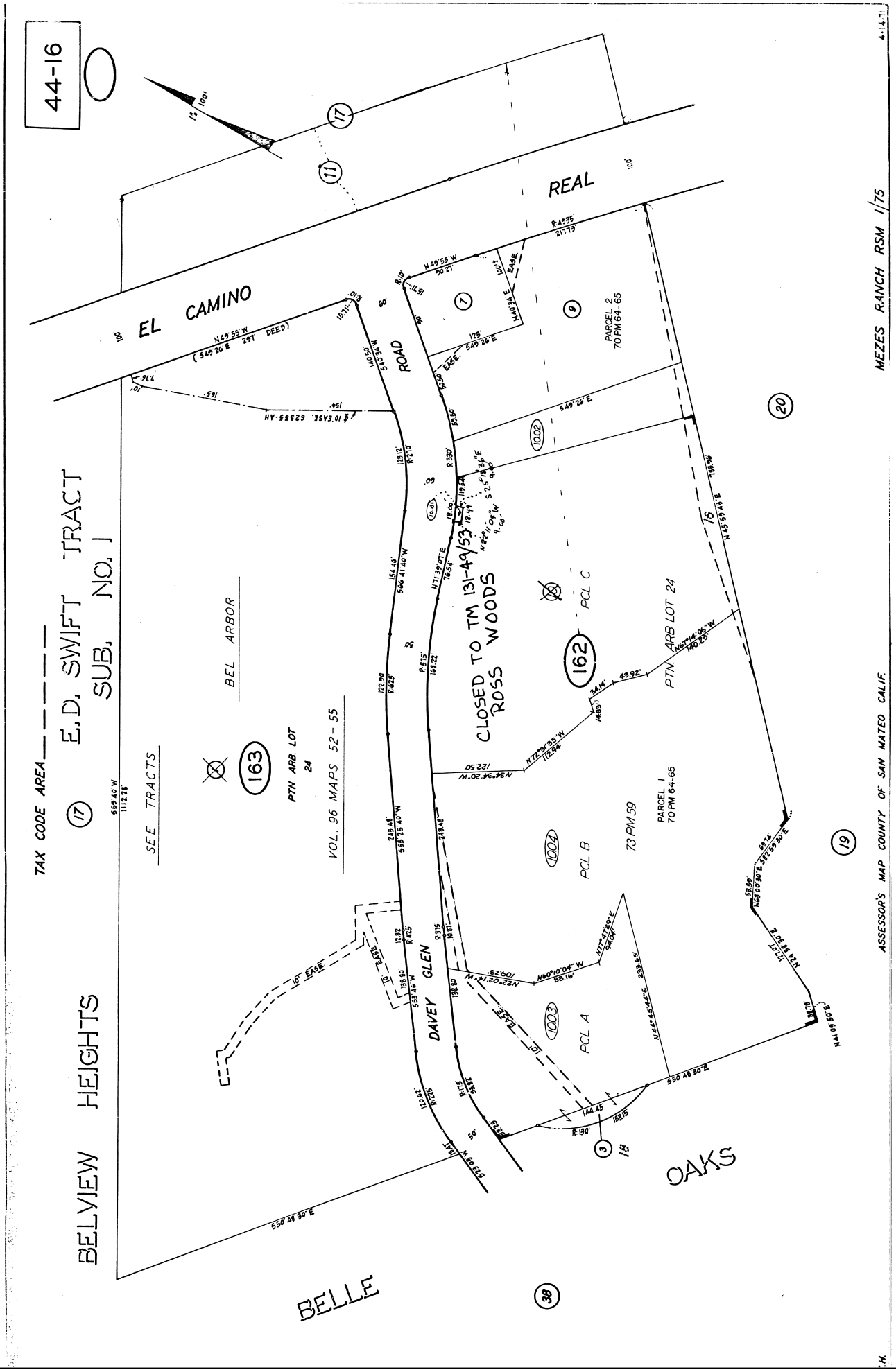
Executed this 25th day of June, 1999, at San Mateo, California.

M. Alvarez
Margaret Alvarez

99-109951

13. Map-Customer




44-16
TAX CODE AREA
17
E.D. SWIFT TRACT
SUB. NO. 1
BELVIEW HEIGHTS
SEE TRACTS
BEL ARBOR
163
PTN ARB. LOT 24
VOL. 96 MAPS 52-55
EL CAMINO REAL
DAVEY GLEN ROAD
CLOSED TO TM 131-49/53
ROSS WOODS
162
PCL C
PTN ARB LOT 24
PARCEL 2
70 PM 64-65
PARCEL 1
70 PM 64-65
73 PM 59
PCL B
PCL A
1004
1003
1002
10.01
BELLE OAKS
MEZES RANCH RSM 1/75
ASSESSOR'S MAP COUNTY OF SAN MATEO CALIF.
4-14-71

JPN BOOK 44

PAGE 16
REVISED 07-11-74 10' EASE 6654 O.R. 464 (62355-AH) IN ARB 1 BL. 163 ADDED
REVISED 11-18-77 ARB 1 IN BL. 163 CLOSED AS NOTED
REVISED 12-27-91 ARB 11 IN BL. 162 CREATED (91171427)
REVISED 09-06-96 ARB 10.01 IN BL 162 CREATED (96110519)
REVISED 07-03-98 ARB 10.02 BL 162 CREATED (70 PM 64-65)
REVISED 03-29-01 ARBS 1003, 1004 BL 162 CREATED (73 PM 59)
REVISED 09-27-01 ARB 10 BLK 162 CLOSED TO TM 131-49/53

11/8/2005

OWNER'S STATEMENT

WE HEREBY STATE THAT WE ARE THE OWNERS OF OR HAVE SOME RIGHT, TITLE OR INTEREST TITLE OR INTEREST IN AND TO THE REAL PROPERTY INCLUDED WITHIN THE SUBDIVISION SHOWN UPON THIS MAP AND THAT WE ARE THE ONLY PERSONS WHOSE CONSENT IS NECESSARY TO PASS A CLEAR TITLE TO SAID PROPERTY AND WE HEREBY CONSENT TO THE MAKING AND RECORDING OF SAID MAP AND SUBDIVISION AS SHOWN WITHIN THE DISTINCTIVE BORDER LINE.

AS OWNERS:

BY: Gene W. Lee BY: Mary H. Lee
GENE W. LEE MARY H. LEE

BY: Charisse M. Lee BY: Karen E. Lee
CHARISSE M. LEE KAREN E. LEE

BY: Donna J. Lee
DONNA J. LEE

OWNER'S ACKNOWLEDGMENT

STATE OF CALIFORNIA SS.
COUNTY OF SAN MATEO
ON June 2, 1998, 19 , BEFORE ME, THE UNDERSIGNED,
A NOTARY PUBLIC IN AND FOR SAID STATE, PERSONALLY APPEARED
GENE W. LEE AND MARY H. LEE ,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.

NOTARY'S SIGNATURE Maura Freitas
PRINTED NOTARY'S NAME Maura Freitas
NOTARY'S PRINCIPLE PLACE OF BUSINESS San Mateo, CA
COMMISSION NUMBER 1050817
EXPIRATION OF NOTARY'S COMMISSION 1.29.99

MAURA FREITAS
Comm. #1050817
NOTARY PUBLIC - CALIFORNIA
SAN MATEO COUNTY
Comm. Expires Jan. 29, 1999

OWNER'S ACKNOWLEDGMENT

STATE OF CALIFORNIA SS.
COUNTY OF SAN MATEO
ON June 3, 1998, 19 , BEFORE ME, THE UNDERSIGNED,
A NOTARY PUBLIC IN AND FOR SAID STATE, PERSONALLY APPEARED
CHARISSE M. LEE ,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.

NOTARY'S SIGNATURE Maura Freitas
PRINTED NOTARY'S NAME Maura Freitas
NOTARY'S PRINCIPLE PLACE OF BUSINESS San Mateo, CA
COMMISSION NUMBER 1050817
EXPIRATION OF NOTARY'S COMMISSION 1.29.99

MAURA FREITAS
Comm. #1050817
NOTARY PUBLIC - CALIFORNIA
SAN MATEO COUNTY
Comm. Expires Jan. 29, 1999

OWNER'S ACKNOWLEDGMENT

STATE OF CALIFORNIA SS.
COUNTY OF SAN MATEO
ON June 1, 1998, 19 , BEFORE ME, THE UNDERSIGNED,
A NOTARY PUBLIC IN AND FOR SAID STATE, PERSONALLY APPEARED
KAREN E. LEE ,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.

NOTARY'S SIGNATURE Maura Freitas
PRINTED NOTARY'S NAME Maura Freitas
NOTARY'S PRINCIPLE PLACE OF BUSINESS San Mateo, CA
COMMISSION NUMBER 1050817
EXPIRATION OF NOTARY'S COMMISSION 1-29-99

MAURA FREITAS
Comm. #1050817
NOTARY PUBLIC - CALIFORNIA
SAN MATEO COUNTY
Comm. Expires Jan. 29, 1999

OWNER'S ACKNOWLEDGMENT

STATE OF CALIFORNIA SS.
COUNTY OF ~~SAN MATEO~~ San Luis Obispo
ON June 3, 1998, 19 , BEFORE ME, THE UNDERSIGNED,
A NOTARY PUBLIC IN AND FOR SAID STATE, PERSONALLY APPEARED
DONNA J. LEE ,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.

NOTARY'S SIGNATURE Jan Hinote
PRINTED NOTARY'S NAME Jan Hinote
NOTARY'S PRINCIPLE PLACE OF BUSINESS San Luis Obispo, CA
COMMISSION NUMBER 1167402
EXPIRATION OF NOTARY'S COMMISSION 1-2-2002

JAN HINOTE
Comm. #1167402
Notary Public
California
SAN LUIS OBISPO COUNTY
My Comm. Expires Jan. 2, 2002

SURVEYOR'S STATEMENT

THIS MAP WAS PREPARED BY ME OR UNDER MY DIRECTION, AND IS BASED UPON A FIELD SURVEY IN CONFORMANCE WITH THE REQUIREMENTS OF THE SUBDIVISION MAP ACT AND LOCAL ORDINANCE AT THE REQUEST OF JOHN HUNTER IN MARCH 1998. THE SURVEY IS TRUE AND COMPLETE AS SHOWN. I HEREBY STATE THAT THIS MAP SUBSTANTIALLY CONFORMS TO THE APPROVED OR CONDITIONALLY APPROVED TENTATIVE MAP. ALL MONUMENTS ARE OF THE CHARACTER AND OCCUPY OR WILL OCCUPY THE POSITIONS INDICATED ON OR BEFORE NOVEMBER 1998 AND THAT THE MONUMENTS ARE OR WILL BE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED THIS 22nd DAY OF May, 1998.

TIMOTHY D. SANDIS, R.C.E. NO. 15290
EXPIRES: MARCH 31, 2001

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY D. SANDIS
No. 15290
Exp. 3/31/01
CIVIL
STATE OF CALIFORNIA

CITY ENGINEER'S STATEMENT

I HEREBY STATE THAT I HAVE EXAMINED THE WITHIN PARCEL MAP, THAT THE SUBDIVISION SHOWN IS SUBSTANTIALLY THE SAME AS IT APPEARED ON THE PRELIMINARY PARCEL MAP AND ANY APPROVED ALTERATIONS THEREOF, THAT ALL PROVISIONS OF CHAPTER 2 OF THE CALIFORNIA STATE SUBDIVISION MAP ACT AND OF ANY LOCAL ORDINANCE APPLICABLE AT THE TIME OF APPROVAL OF THE PRELIMINARY PARCEL MAP, IF REQUIRED, HAVE BEEN COMPLIED WITH, AND THAT I AM SATISFIED THAT THE MAP IS TECHNICALLY CORRECT.

DATED: 6-18-98

JOHN E. CURTIS, R.C.E. 17822
DIRECTOR OF PUBLIC WORKS
EXPIRES: JUNE 30, 2001
CITY OF BELMONT, CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JOHN E. CURTIS
No. 17822
EXP 6-30-01
CIVIL
STATE OF CALIFORNIA

COUNTY RECORDER'S STATEMENT

FILE NO. 98-106063 FEE: $8.00 PAID:

FILED FOR RECORD THIS 3rd DAY OF JULY, 1998, AT 3:02 P.M. IN BOOK 70 OF MAPS AT PAGES 64-65 PARCEL, SAN MATEO COUNTY RECORDS, AT THE REQUEST OF OLD REPUBLIC TITLE COMPANY.

WARREN SLOCUM, COUNTY RECORDER

BY: DEPUTY

PARCEL MAP

BEING A RESUBDIVISION OF A PORTION OF LAND CONVEYED TO KEITH L. DAVEY BY DEED FILED FOR RECORD ON JANUARY 3, 1973 IN VOLUME 6300 OFFICIAL RECORDS AT PAGE 526, SAN MATEO COUNTY RECORDS AND LYING ENTIRELY WITHIN THE

CITY OF BELMONT, COUNTY OF SAN MATEO, CALIFORNIA

APRIL, 1998

SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS
60 CERRO ST. MOHAWK VIEW, CA 94062-2040 (63) 591-0553

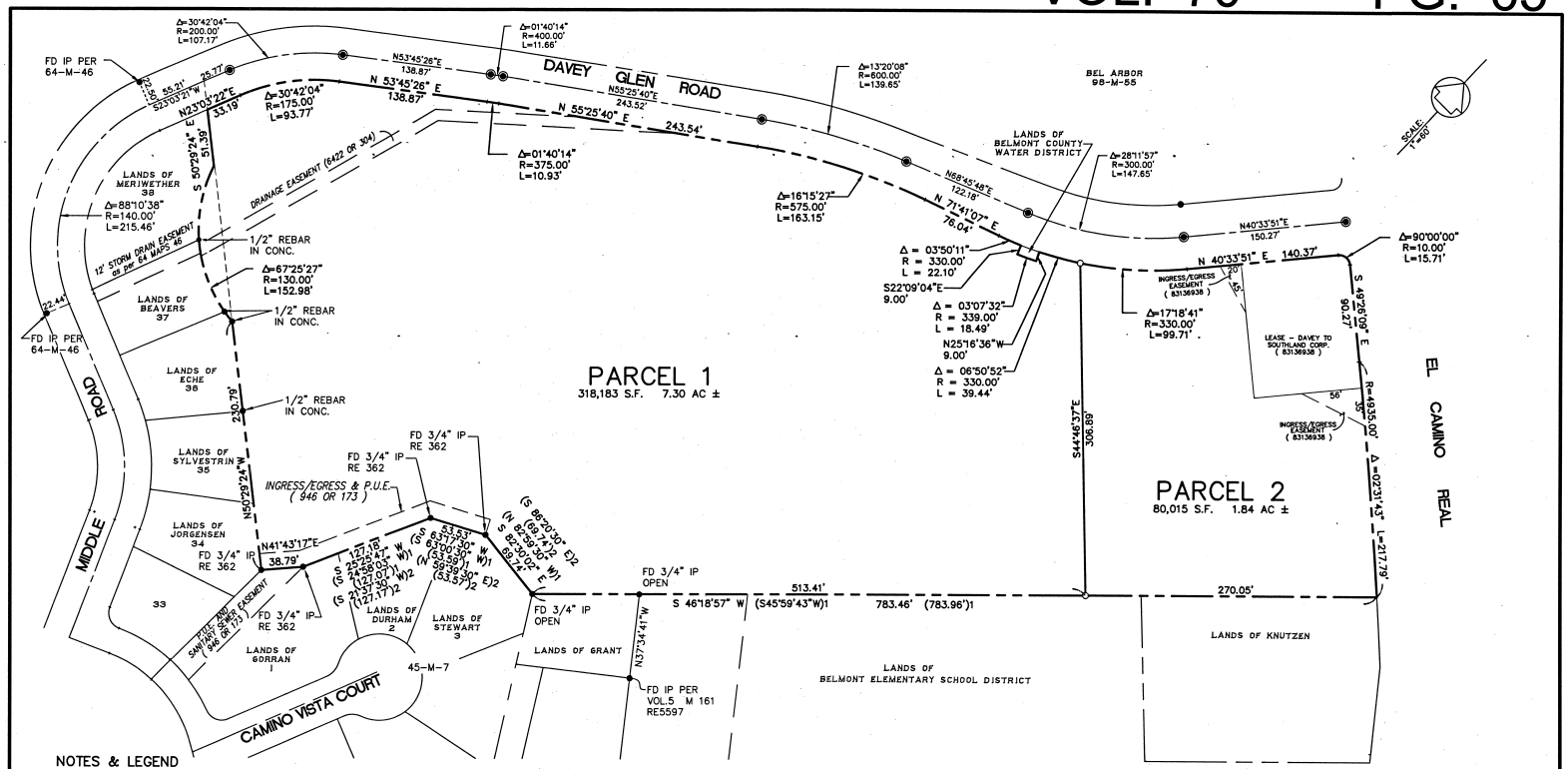
SHEET 1 OF 2

297206

5-21-98

PM.DWG

First American Title 438
First American Title



NOTES & LEGEND

ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.

THE DISTINCTIVE BORDERLINE INDICATES THE BOUNDARY OF LAND SUBDIVIDED BY THIS MAP AND CONTAINS AN AREA OF 9.15 ACRES MORE OR LESS.

- ● INDICATES IRON PIPE AS NOTED
- ○ INDICATES 3/4" IRON PIPE, TAGGED RCE 15290
- ◉ INDICATES FOUND CITY STANDARD MONUMENT AS NOTED
- INDICATES DISTINCTIVE BORDER
- INDICATES CENTER LINE
- P.U.E. INDICATES PUBLIC UTILITY EASEMENT
- ( ) 1 INDICATES RECORD DATA PER GRANT DEED
- ( ) 2 INDICATES RECORD DATA PER VOL 45-M-7
- ( ) 3 INDICATES RECORD DATA PER VOL 64-M-46
- ( ) 4 INDICATES RECORD DATA PER VOL 96-M-54
- ( ) 5 INDICATES RECORD DATA PER 5121 OR 312

BASIS OF BEARINGS

THE BEARING N 55°25'40" E OF THE CENTERLINE OF DAVEY GLEN ROAD. AS SHOWN ON THE MAP OF BEL ARBOR RECORDED IN VOLUME 96 OF MAPS AT PAGE 54, SAN MATEO COUNTY RECORS, WAS TAKEN AS THE BASIS OF BEARINGS FOR THIS MAP.

PARCEL MAP

BEING A RESUBDIVISION OF A PORTION OF LAND CONVEYED TO KEITH L. DAVEY BY DEED FILED FOR RECORD ON JANUARY 3, 1973 IN VOLUME 6300 OFFICIAL RECORDS AT PAGE 526, SAN MATEO COUNTY RECORDS AND LYING ENTIRELY WITHIN THE

CITY OF BELMONT, COUNTY OF SAN MATEO, CALIFORNIA

SCALE: 1"=60' **APRIL, 1998**

SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS
65 CEDRO St. REDWOOD CITY, CA 94062-2040 (415) 369-6123

SHEET 2 OF 2

297208

San Mateo County
Health System

Project Regis. Belmont. DV

FEB 06 2014

File

February 3, 2014

Peter Morris
West Environmental Services & Technology Inc
711 Grand Ave., Suite 220
San Rafael, CA 94901

Dear Mr. Morris,

The inquiry for 390, 400 and 490 EL Camino Real, Belmont has been completed. Environmental Health has only records and files for Hazardous Materials and Groundwater for 390 El Camino Real. Files are in PDF format and have been placed onto a CD.

Environmental Health has no records or files for 400 and 490 El Camino Real, Belmont.

If you have any questions regarding these files please contact Hazardous Materials Inspector, Amy De Masi at 650-372-6285 or Groundwater Inspector, Jake Madden at 650-372-6298.

Sincerely,

Tanya Adamovitch
Office Assistant II
San Mateo County Environmental Health

Environmental Health
2000 Alameda de las Pulgas, Suite 100, San Mateo, CA 94403
Phone (650) 372-6200 • **Fax** (650) 627-8244 • **CA Relay** 711 • **Website** www.smchealth.org

Health System Chief • Jean S. Fraser
Board of Supervisors • Don Horsley • Dave Pine • Carole Groom • Warren Slocum • Adrienne Tissier

WEST
Environmental Services & Technology
711 Grand Avenue, Suite 220
San Rafael, California 94901
415.460.6770 • Fax 415.460.6771
main@westenvironmental.com

FACSIMILE COVER SHEET

Date	January 29, 2014
Deliver to	Custodian of Records
Name of Firm	Department of Toxic Substance Control
Fax Number	(510) 540-3801
From	Peter Morris

NUMBER OF PAGES: This cover page plus 0 page(s)

Remarks

To Whom It May Concern:

West Environmental Services & Technology, Inc., would like to schedule an appointment to review available files/plans/permits/hazardous material/UST records for the following addresses in Belmont, California:

- 390 El Camino Real
- 400 El Camino Real
- 490 El Camino Real

Please let us know if there are no records regarding the above sites. Please call me at 415/460-6770 ext. 206, if you have any questions or wish to discuss this further.

Sincerely,

Peter Morris

This facsimile message is solely for the individual or entity to which it is addressed. This message may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, be aware that any disclosure, dissemination, distribution or copying of this communication, or the use of its contents, is strictly prohibited. If you have received this communication in error, please notify me immediately by telephone and return the original to us via U. S. Mail. Thank you.

* * * Memory TX Result Report (Jan. 29. 2014 4:36PM) * * *

1) west
2)

Date/Time: Jan. 29. 2014 4:36PM

File No.	Mode	Destination	Pg(s)	Result	Page Not Sent
0562	Memory TX	15105403801	P. 1	OK	

Reason for error
E. 1) Hang up or line fail
E. 2) Busy
E. 3) No answer
E. 4) No facsimile connection
E. 5) Exceeded max. E-mail size

WEST Environmental Services & Technology
711 Grand Avenue, Suite 220
San Rafael, California 94901
415.460.6770 • Fax 415.460.6771
main@westenvironmental.com

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Date	January 29, 2014
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Sincerely,

Peter Morris

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WEST
Environmental Services & Technology
711 Grand Avenue, Suite 220
San Rafael, California 94901
415.460.6770 • Fax 415.460.6771
main@westenvironmental.com

FACSIMILE COVER SHEET

Date	January 29, 2014
Deliver to	Terri Cook
Name of Firm	City of Belmont – City Clerk's Office
Fax Number	(650) 637-2981
From	Peter Morris

NUMBER OF PAGES: This cover page plus __0__ page(s)

Remarks

Dear Terri:

West Environmental Services & Technology, Inc., would like to schedule an appointment to review available files/plans/permits/hazardous material/UST records from the Public Works, Building and Fire departments for the following addresses in Belmont, California:

- 390 El Camino Real
- 400 El Camino Real
- 490 El Camino Real

Please let us know if there are no records regarding the above sites. Please call me at 415/460-6770 ext. 206, if you have any questions or wish to discuss this further.

Sincerely,

Peter Morris

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* * * Memory TX Result Report (Jan. 29. 2014 4:37PM) * * *

1) west
2)

Date/Time: Jan. 29. 2014 4:36PM

File No.	Mode	Destination	Pg(s)	Result	Page Not Sent
0563	Memory TX	16506372981	P. 1	OK	

Reason for error
E. 1) Hang up or line fail
E. 2) Busy
E. 3) No answer
E. 4) No facsimile connection
E. 5) Exceeded max. E-mail size

WEST Environmental Services & Technology
711 Grand Avenue, Suite 220
San Rafael, California 94901
415.460.6770 • Fax 415.460.6771
main@westenvironmental.com

FACSIMILE COVER SHEET

Date	January 29, 2014
Deliver to	Terri Cook
Name of Firm	City of Belmont – City Clerk's Office
Fax Number	(650) 637-2981
From	Peter Morris

NUMBER OF PAGES: This cover page plus __0__ page(s)

Remarks

Dear Terri:

West Environmental Services & Technology, Inc., would like to schedule an appointment to review available files/plans/permits/hazardous material/UST records from the Public Works, Building and Fire departments for the following addresses in Belmont, California:

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- 400 El Camino Real
- 490 El Camino Real

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Sincerely,

Peter Morris

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WEST
Environmental Services & Technology
711 Grand Avenue, Suite 220
San Rafael, California 94901
415.460.6770 • Fax 415.460.6771
main@westenvironmental.com

FACSIMILE COVER SHEET

Date	January 29, 2014
Deliver to	Melinda Wong
Name of Firm	San Francisco Bay Regional Water Quality Control Board
Fax Number	(510) 622-2095
From	Peter Morris

NUMBER OF PAGES: This cover page plus __0__ page(s)

Remarks

Dear Melinda:

West Environmental Services & Technology, Inc., would like to schedule an appointment to review available files/plans/permits/hazardous material/UST records for the following addresses in Belmont, California:

- 390 El Camino Real
- 400 El Camino Real
- 490 El Camino Real

Please let us know if there are no records regarding the above sites. Please call me at 415/460-6770 ext. 206, if you have any questions or wish to discuss this further.

Sincerely,

Peter Morris

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* * * Memory TX Result Report (Jan. 29. 2014 4:38PM) * * *

1) west
2)

Date/Time: Jan. 29. 2014 4:37PM

File No.	Mode	Destination	Pg(s)	Result	Page Not Sent
0564	Memory TX	15106222095	P. 1	OK	

Reason for error
E. 1) Hang up or line fail
E. 2) Busy
E. 3) No answer
E. 4) No facsimile connection
E. 5) Exceeded max. E-mail size

WEST Environmental Services & Technology
711 Grand Avenue, Suite 220
San Rafael, California 94901
415.460.6770 • Fax 415.460.6771
main@westenvironmental.com

FACSIMILE COVER SHEET

Date	January 29, 2014
Deliver to	Melinda Wong
Name of Firm	San Francisco Bay Regional Water Quality Control Board
Fax Number	(510) 622-2095
From	Peter Morris

NUMBER OF PAGES: This cover page plus 0 page(s)

Remarks

Dear Melinda:

West Environmental Services & Technology, Inc., would like to schedule an appointment to review available files/plans/permits/hazardous material/UST records for the following addresses in Belmont, California:

- 390 El Camino Real
- 400 El Camino Real
- 490 El Camino Real

Please let us know if there are no records regarding the above sites. Please call me at 415/460-6770 ext. 206, if you have any questions or wish to discuss this further.

Sincerely,

Peter Morris

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APPENDIX B

HISTORICAL RECORD SOURCES

Davey Glen
400 EL CAMINO REAL
Belmont, CA 94002

Inquiry Number: 3838499.3
January 24, 2014

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

1/24/14

Site Name:	**Client Name:**
Davey Glen	WEST
400 EL CAMINO REAL	711 Grand Avenue
Belmont, CA 94002	San Rafael, CA 94901
EDR Inquiry # 3838499.3	Contact: Peter Morris

EDR® Environmental Data Resources Inc

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by WEST were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name:	Davey Glen
Address:	400 EL CAMINO REAL
City, State, Zip:	Belmont, CA 94002
Cross Street:	
P.O. #	NA
Project:	Regis.Belmont.DV
Certification #	3E55-4F76-8B5C

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results
Certification # 3E55-4F76-8B5C

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Davey Glen
400 EL CAMINO REAL
Belmont, CA 94002

Inquiry Number: 3838499.4
January 24, 2014

EDR Historical Topographic Map Report

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.

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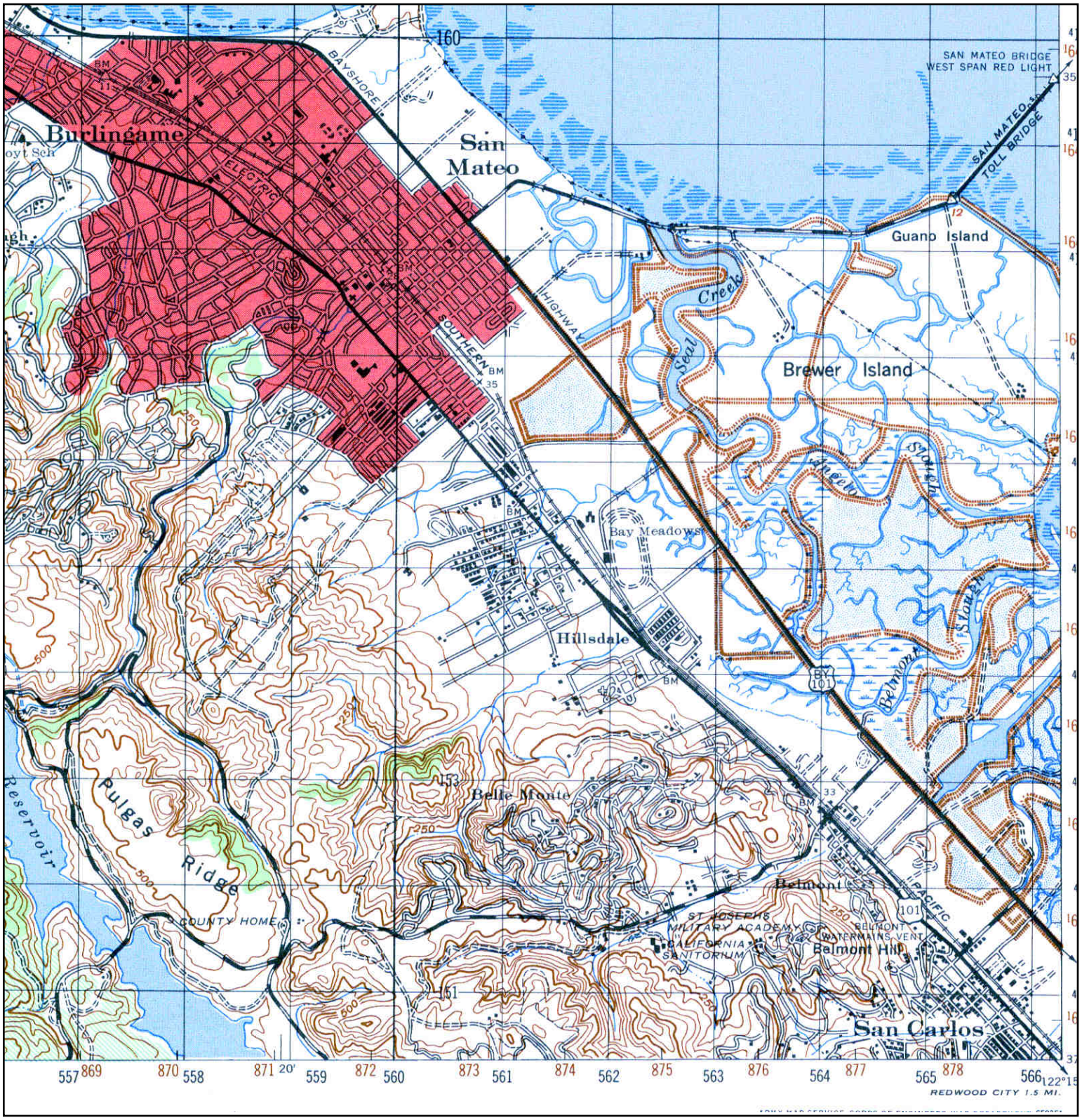
Historical Topographic Map

N	TARGET QUAD NAME: SAN MATEO MAP YEAR: 1899 SERIES: 15 SCALE: 1:62500	SITE NAME: Davey Glen ADDRESS: 400 EL CAMINO REAL Belmont, CA 94002 LAT/LONG: 37.5261 / -122.2835	CLIENT: WEST CONTACT: Peter Morris INQUIRY#: 3838499.4 RESEARCH DATE: 01/24/2014

Historical Topographic Map

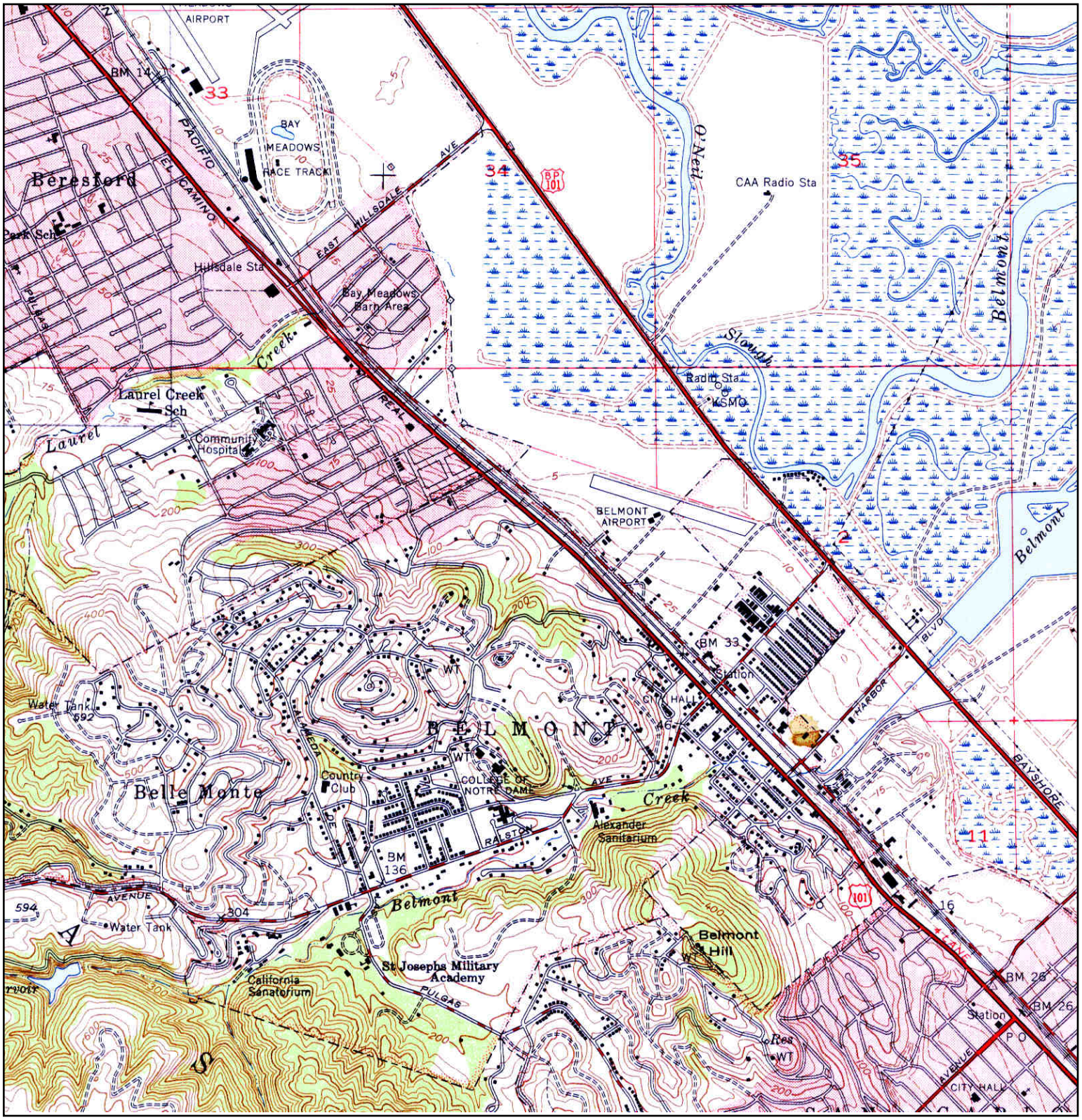
N	TARGET QUAD NAME: SAN MATEO MAP YEAR: 1915 SERIES: 15 SCALE: 1:62500	SITE NAME: Davey Glen ADDRESS: 400 EL CAMINO REAL Belmont, CA 94002 LAT/LONG: 37.5261 / -122.2835	CLIENT: WEST CONTACT: Peter Morris INQUIRY#: 3838499.4 RESEARCH DATE: 01/24/2014

Historical Topographic Map



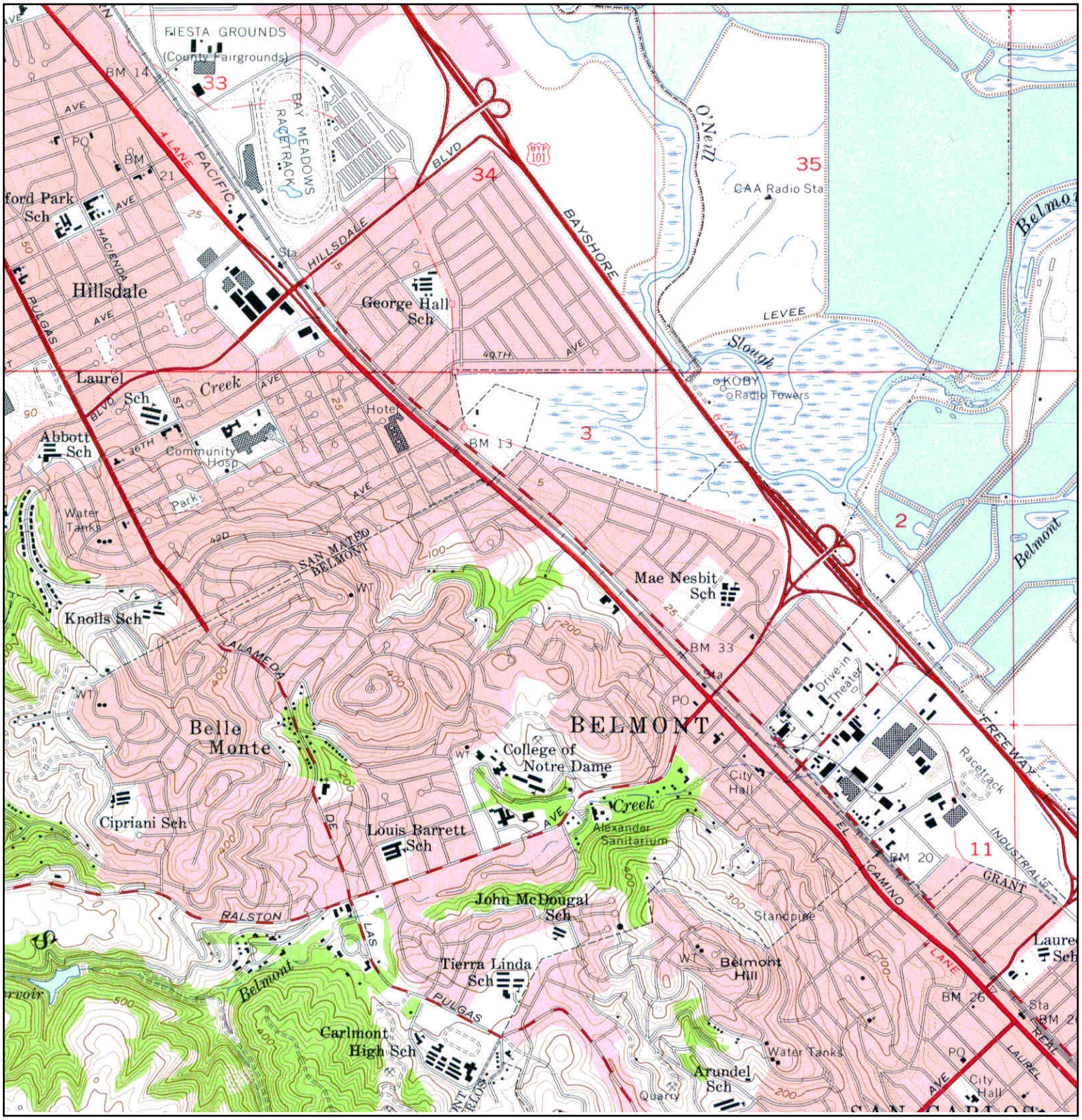
N	TARGET QUAD NAME: SAN MATEO MAP YEAR: 1947 SERIES: 15 SCALE: 1:50000	SITE NAME: Davey Glen ADDRESS: 400 EL CAMINO REAL Belmont, CA 94002 LAT/LONG: 37.5261 / -122.2835	CLIENT: WEST CONTACT: Peter Morris INQUIRY#: 3838499.4 RESEARCH DATE: 01/24/2014

Historical Topographic Map



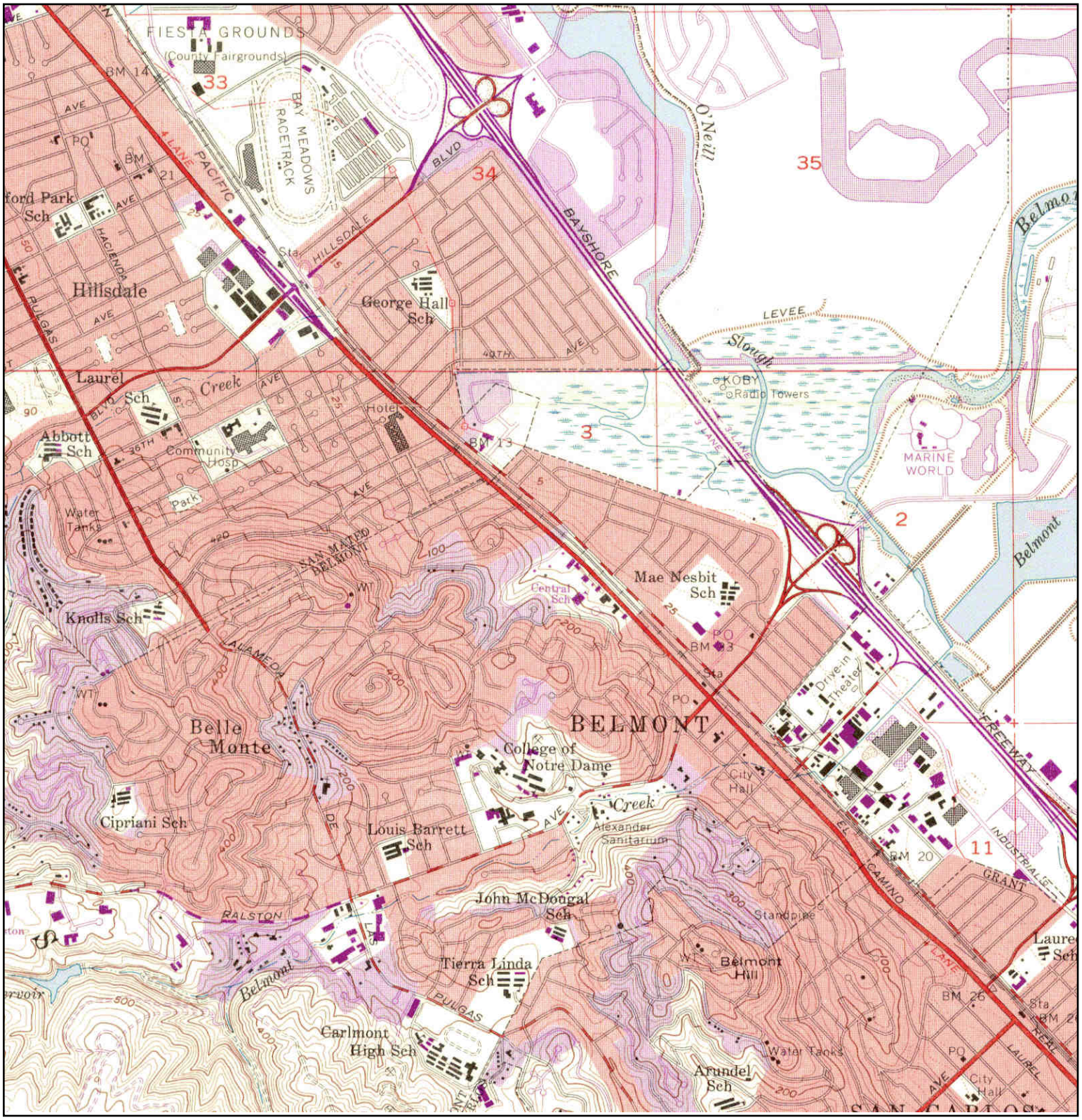
N	TARGET QUAD NAME: SAN MATEO MAP YEAR: 1949 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Davey Glen ADDRESS: 400 EL CAMINO REAL Belmont, CA 94002 LAT/LONG: 37.5261 / -122.2835	CLIENT: WEST CONTACT: Peter Morris INQUIRY#: 3838499.4 RESEARCH DATE: 01/24/2014

Historical Topographic Map



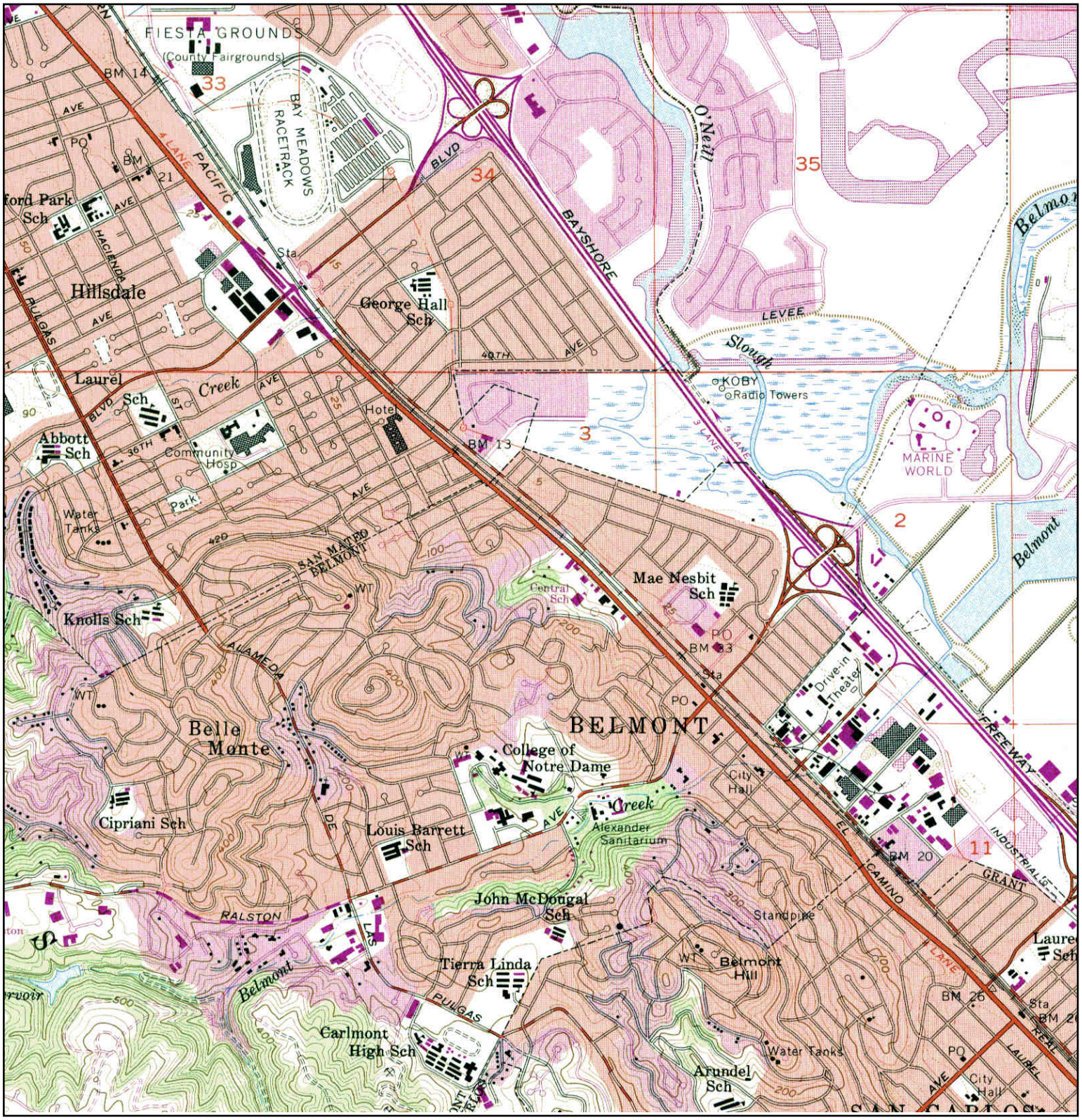
N	TARGET QUAD NAME: SAN MATEO MAP YEAR: 1956 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Davey Glen ADDRESS: 400 EL CAMINO REAL Belmont, CA 94002 LAT/LONG: 37.5261 / -122.2835	CLIENT: WEST CONTACT: Peter Morris INQUIRY#: 3838499.4 RESEARCH DATE: 01/24/2014

Historical Topographic Map



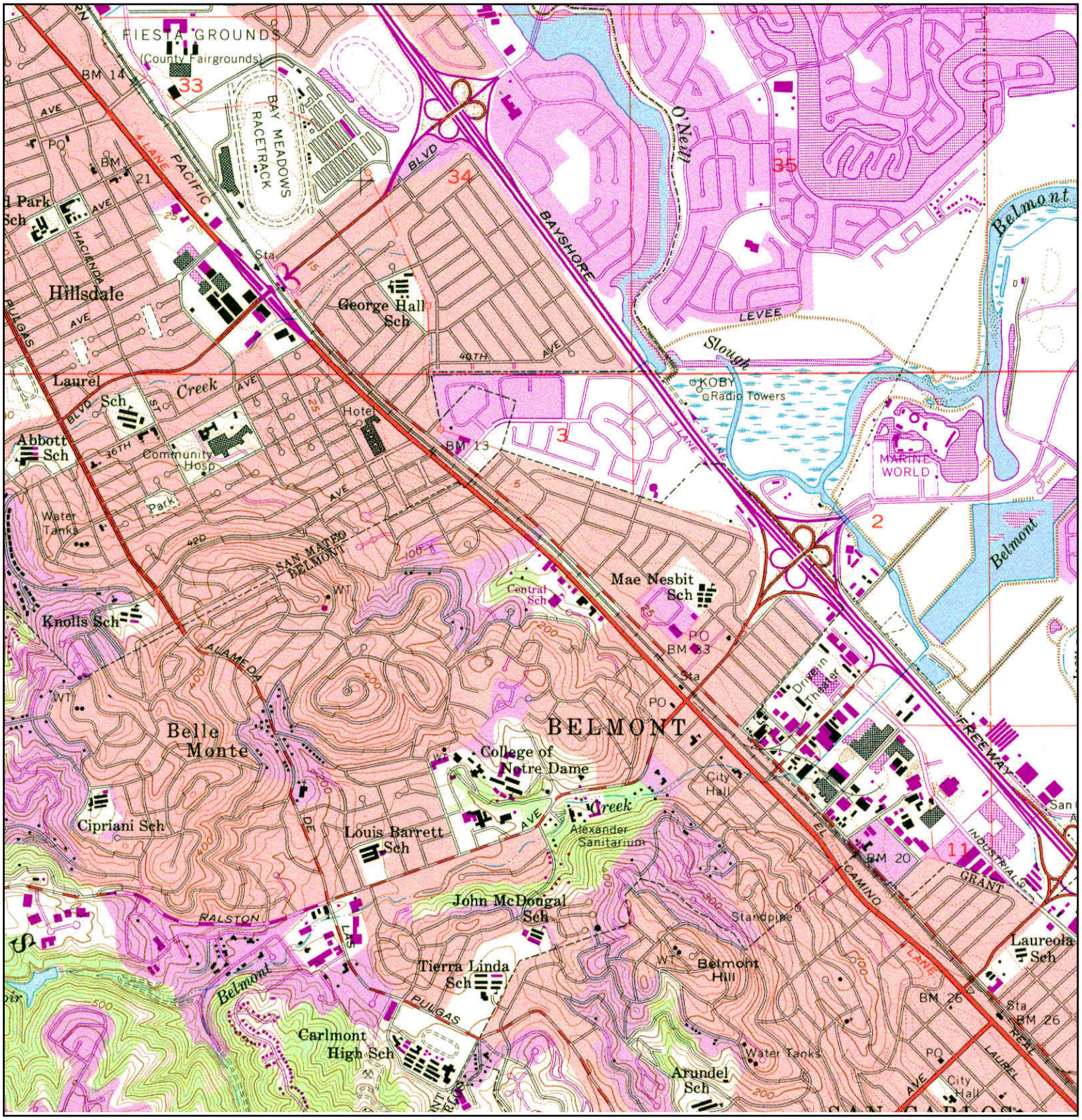
N	TARGET QUAD NAME: SAN MATEO MAP YEAR: 1968 PHOTOREVISED FROM :1956 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Davey Glen ADDRESS: 400 EL CAMINO REAL Belmont, CA 94002 LAT/LONG: 37.5261 / -122.2835	CLIENT: WEST CONTACT: Peter Morris INQUIRY#: 3838499.4 RESEARCH DATE: 01/24/2014

Historical Topographic Map



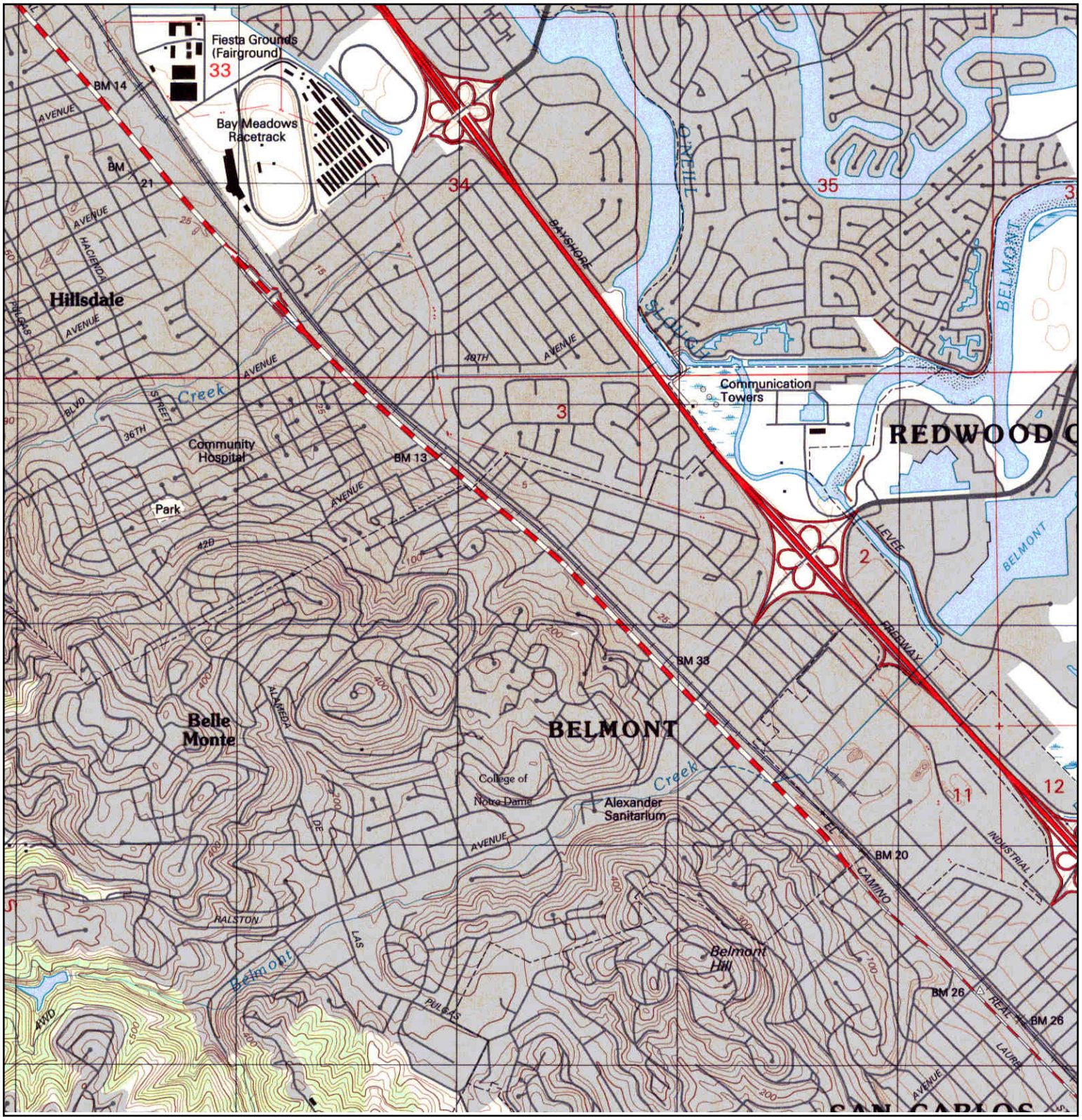
N	TARGET QUAD NAME: SAN MATEO MAP YEAR: 1973 PHOTOREVISED FROM :1956 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Davey Glen ADDRESS: 400 EL CAMINO REAL Belmont, CA 94002 LAT/LONG: 37.5261 / -122.2835	CLIENT: WEST CONTACT: Peter Morris INQUIRY#: 3838499.4 RESEARCH DATE: 01/24/2014

Historical Topographic Map



N	TARGET QUAD NAME: SAN MATEO MAP YEAR: 1980 PHOTOREVISED FROM :1956 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Davey Glen ADDRESS: 400 EL CAMINO REAL Belmont, CA 94002 LAT/LONG: 37.5261 / -122.2835	CLIENT: WEST CONTACT: Peter Morris INQUIRY#: 3838499.4 RESEARCH DATE: 01/24/2014

Historical Topographic Map



N	TARGET QUAD NAME: SAN MATEO MAP YEAR: 1993 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Davey Glen ADDRESS: 400 EL CAMINO REAL Belmont, CA 94002 LAT/LONG: 37.5261 / -122.2835	CLIENT: WEST CONTACT: Peter Morris INQUIRY#: 3838499.4 RESEARCH DATE: 01/24/2014

Historical Topographic Map

N	TARGET QUAD NAME: SAN MATEO MAP YEAR: 1997 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Davey Glen ADDRESS: 400 EL CAMINO REAL Belmont, CA 94002 LAT/LONG: 37.5261 / -122.2835	CLIENT: WEST CONTACT: Peter Morris INQUIRY#: 3838499.4 RESEARCH DATE: 01/24/2014

Davey Glen
400 EL CAMINO REAL
Belmont, CA 94002

Inquiry Number: 3838499.11
January 27, 2014

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.

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Date EDR Searched Historical Sources:

Aerial Photography January 27, 2014

Target Property:

400 EL CAMINO REAL

Belmont, CA 94002

Year	***Scale***	***Details***	***Source***
1943	Aerial Photograph. Scale: 1"=500'	Flight Year: 1943	Aero
1946	Aerial Photograph. Scale: 1"=500'	Flight Year: 1946	Jack Ammann
1956	Aerial Photograph. Scale: 1"=500'	Flight Year: 1956	Clyde Sunderland
1968	Aerial Photograph. Scale: 1"=500'	Flight Year: 1968	USGS
1974	Aerial Photograph. Scale: 1"=500'	Flight Year: 1974	USGS
1982	Aerial Photograph. Scale: 1"=500'	Flight Year: 1982	USGS
1993	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1993	EDR
1998	Aerial Photograph. Scale: 1"=500'	Flight Year: 1998	USGS
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	EDR
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	EDR
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	EDR
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	EDR

INQUIRY #: 3838499.11
YEAR: 1943
465
= 500'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3838499.11
YEAR: 1946
466
= 500'
N

INQUIRY #: 3838499.11
YEAR: 1956
467
= 500'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3838499.11
YEAR: 1968
468
= 500'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3838499.11
YEAR: 1974
469
= 500'
N

INQUIRY #: 3838499.11
YEAR: 1982
470
= 500'
N

INQUIRY #: 3838499.11
YEAR: 1993
471
= 500'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3838499.11
YEAR: 1998
472
= 500'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3838499.11
YEAR: 2005
473
= 500'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3838499.11
YEAR: 2009
474
= 500'
N

INQUIRY #: 3838499.11
YEAR: 2010
475
= 500'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3838499.11
YEAR: 2012
476
= 500'
N
EDR Environmental Data Resources Inc

Davey Glen
400 EL CAMINO REAL
Belmont, CA 94002

Inquiry Number: 3838499.5
January 24, 2014

The EDR-City Directory Image Report

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report 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 Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2013	☑	☐	Cole Information Services
2008	☑	☐	Cole Information Services
2003	☑	☐	Cole Information Services
1999	☑	☐	Cole Information Services
1995	☑	☐	Haines Criss-Cross Directory
1990	☑	☐	Haines Criss-Cross Directory
1985	☑	☐	Haines Criss-Cross Directory
1980	☑	☐	Haines Criss-Cross Directory
1977	☑	☐	Haines Criss-Cross Directory

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FINDINGS

TARGET PROPERTY STREET

400 EL CAMINO REAL
Belmont, CA 94002

Year	*CD Image*	*Source*
EL CAMINO REAL		
2013	pg A1	Cole Information Services
2008	pg A3	Cole Information Services
2003	pg A5	Cole Information Services
1999	pg A7	Cole Information Services
1995	pg A9	Haines Criss-Cross Directory
1990	pg A10	Haines Criss-Cross Directory
1985	pg A11	Haines Criss-Cross Directory
1985	pg A12	Haines Criss-Cross Directory
1980	pg A13	Haines Criss-Cross Directory
1980	pg A14	Haines Criss-Cross Directory
1977	pg A15	Haines Criss-Cross Directory

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	Cole Information Services

EL CAMINO REAL 2013

100	PLANET GRANITE
101	AUTO STAR
104	OCCUPANT UNKNOWN
120	WHEEL WORKS
230	MADAME DIANA
240	WORKSPACE INNOVATIONS
300	SHALIZAAR RESTAURANT
311	PILGRIM KITCHEN
374	FOOTSTEPS CHILD CARE INC
380	A LOCKSMITH 24 HOUR INC
	LAVENDER HEALTH CENTER
390	BELMONT PLAZA DENTAL CARE VAL NICKHI
	BELMONT PLAZA LAUNDERLAND
	BRONZE
	BRONZE TANNING
	DREAM DINNERS
	EDIBLE ARRANGMENTS
	ENVY NAILS
	GOLD MEDAL MARTIAL ARTS
	GREEN ISLAND
	HAIR TODAY
	LOCKS & LOCKSMITHS
	LOCKSMITH
	MAJOR CLEANERS
	MOUNTAIN MIKES PIZZA
	THE LITTLE GYM
	WHISPERS CAFEBELMONT
	WITTWER DAVID P
	WITTWER DAVID P DC
400	7ELEVEN
490	ADVANTAGE BOOKKEEPING & TAX CENTER
	PROVIDENT CREDIT UNION BELMONT COMMU
	UNIQUE ACUPUNCTURE CLINIC
	ZHANG STEPHANIE DDS
510	IHOP
516	DOLLAR TREE
522	MCDONALDS
554	UHAUL MOVING & STORAGE OF BELMONT
560	HOTEL BELMONT
564	BELMONT TIRES WHEELS & SERVICE
572	PENINSULA SPORTS CARDS
574	GOLF TOWN
578	SOCCER PRO
600	BRIANNA ROTTER
	HERTZ
630	HILLSIDE LODGE
700	BELMONT PALMS MOTEL
720	BELMONT MASSAGE THERAPY GROUP
	ROCIO GUITARD VOCAL STUDIO
740	COPYMAN

Target Street	Cross Street	Source
✓	-	Cole Information Services

EL CAMINO REAL 2013 (Cont'd)

740 DAVIDSON RICHARD E & CO
770 CAROL GARCIA STUDIO

Target Street	Cross Street	Source
✓	-	Cole Information Services

EL CAMINO REAL 2008

101	JODEL MOTORS
103	AUTOSTAR
104	OCCUPANT UNKNOWN
120	WHEEL WORKS
125	CINGULAR WIRELESS
153	COPY 2000
210	CLC INVESTMENTS
	HONEYBAKED HAM CO
230	DIANA MADAME
240	WORKSPACE INNOVATIONS INC
300	SHALIZAAR RESTAURANT
311	PILGRIM KITCHEN
374	CASILLAS MANUEL
	NOTARY BY MANUEL CASILLAS
	SIGNATURE FUNDING GROUP
390	AUTO PARTS DISCOUNT CENTER
	BELMONT PLAZA LAUNDERLAND
	CITIFINANCIAL
	DAVID WITTWER
	DREAM DINNERS
	ECONOPAGE
	EDIBLE ARRANGEMENTS
	ENVY NAILS
	EURO TAN
	HAIR TODAY
	LITTLE GYM
	MAJOR CLEANERS
	MOUNTAIN MIKES PIZZA & PASTA
	SLENDER LADY OF BELMONT
	SUPERMATH
	UNITED STATES DEPT OF NAVY
	WITTWER CHIROPRACTIC CENTER
	ZUHAIR QUTAMI
400	SOUTHWEST CONVENIENCE STORES LLC
490	CALLAGY PATRICK J ENROLLED AGENT
	CALLAGYS ACCOUNTING & TAX PRACTICE
	PENINSULA DRIVING SCHOOL
	PROVIDENT CREDIT UNION
	S CHEN
	STRATHDEE & ASSOCS
510	IHOP
	INTERNATIONAL HOUSE OF PANCAKES
516	DOLLAR TREE STORES INC
	ETRACK COM
520	WESTLAKE DEVELOPMENT CO
522	MCDONALDS RESTAURANTS OF CALIFORNIA
554	U HAUL
	U HAUL MOVING & STORAGE
564	BELMONT TIRES & COMPLETE AUTOMOTIVE
	BELMONT TIRES WHEELS & SERVICE

Target Street	Cross Street	Source
✓	-	Cole Information Services

EL CAMINO REAL 2008 (Cont'd)

572	PENINSULA SPORTS CARDS
	R C RHODES
574	GOLF TOWN OF BELMONT
	NEVADA BOBS DISCOUNT GOLF
578	KICKERS SOCCER SHOP
600	BELMONT FLOWER MARKET
	NATURALLY REFRESHING INC
630	ECONO LODGE
650	SALVATION ARMY THE
	WESTERN TERRITORIAL OF THE SALVATION
700	VINIT
720	AVON PRODUCTS INC
	BELMONT MASSAGE THERAPY
	REAL ESTATE VALUATION ASSOCS
	ROCIO GUITARD VOCAL STUDIO
	VISIONS STUDIO SALON
	WORLD & CO
740	COPYMAN
	RICHARD E DAVIDSON & CO

Target Street	Cross Street	Source
✓	-	Cole Information Services

EL CAMINO REAL 2003

100	OCCUPANT UNKNOWN
	PLANET GRANITE
101	JODEL MOTORS
	OCCUPANT UNKNOWN
103	AUTOSTAR
	OCCUPANT UNKNOWN
104	OCCUPANT UNKNOWN
120	HOWARD TIRE BY WHEEL WORKS
	TIRES PLUS
210	HONEY BAKED HAM CO
230	DIANA MADAME
240	OCCUPANT UNKNOWN
	WORKSPACE INNOVATIONS
300	OCCUPANT UNKNOWN
311	OCCUPANT UNKNOWN
	PILGRIM KITCHEN
370	OCCUPANT UNKNOWN
372	OCCUPANT UNKNOWN
	PERMANENT CSMTQ INTRNTNL I
374	ACOSTA CARLOS INSURANCE AGENT
	COMPUNET MICROSYSTEMS
	MANUEL CASILLAS
	NOTARY BY MANUEL CASILLAS
	OCCUPANT UNKNOWN
380	OCCUPANT UNKNOWN
390	AARON BENNETT
	AUTO PARTS DISCOUNT CTR
	BELMONT PLAZA DENTAL CARE VAL
	BELMONT PLAZA LAUNDERLAND
	DAVID P WITTWER DC
	DESIGNERS OUTLET
	ENVY NAILS
	EURO TAN SUN SPA
	HAIR TODAY
	LUZ BOSEMAN
	MAJOR CLEANERS
	PANCHOS BAR & GRILL
	PIERRES AUTO PARTS
	PKS CLEANERS & ALTERATIONS
	PKS INTERIORS
	UNITED STATES ARMY RCRTNG STTN
	US MARINES RECRUTING OFFICE
	WITTWER CHIROPRACTIC CTR
	WITTWER DAVID P DC
400	J & R MACHINE WORKS
490	CALLAGY PATRICK J ENRLD AGENT
	CONNECTWORKS INC
	DESNA TOLENTINO
	FRANK GONSALVES
	GONSALVES FRANK AIA ARCHTCT

Target Street	Cross Street	Source
✓	-	Cole Information Services

EL CAMINO REAL 2003 (Cont'd)

490	MARIA L RUGANI
	NG CLEMENT INSURANCE SERVICE
	NTNL ASCTN ON ALCHL DRUGS
	PENNEL APPRAISAL SERVICE
	PROVIDENT CENTRAL CREDIT UNION
	TRANS METRO EXPRESS INC
	WENDY OLSON
510	INTERNATIONAL HOUSE OF PNCK
	OCCUPANT UNKNOWN
516	ETRACKS CO
	OCCUPANT UNKNOWN
522	MCDONALDS
554	DANIEL CORRALES
	U HAUL CO
560	KINGSWAY MOTEL
564	BELMONT TIRES WHEELS & SERVICE
	OCCUPANT UNKNOWN
572	OCCUPANT UNKNOWN
	PENINSULA SPORTS CARDS
574	NAN LEE
600	BELMONT FLOWER MARKET
	HERTZ RENT A CAR
630	DIPAK PATEL
	PATEL DIPAK
	STEWART TITLE CO
650	SALVATION ARMY
700	BELMONT PALMS MOTEL
	DAVE DHOLAKIA
720	AVON PRODUCTS INC
	BOREL POPLAR DEVELOPMENT
	BOSNIAN USA CTR
	JENNIFER FOTI
	TZU CHI ACDMY USA SAN MATEO SC
	WORLD CO
730	TRAVIS HATTON
740	M MOTORSPORTS
770	CAMERON FURNARI
	LASER CO
780	DOMINIC NGUYEN

Target Street	Cross Street	Source
✓	-	Cole Information Services

EL CAMINO REAL 1999

101	JODEL MOTORS
103	AUTOSTAR
104	OCCUPANT UNKNOWN
	TEEZ SALON
	TS SALON
120	HOWARD TIRE BY WHEEL WORKS
	TIRE SERVICE BY WHEEL WORKS RETAIL STORES
	WHEEL WORKS
210	HONEYBAKED HAM COMPANY
230	MADAME DIANA PALMISTRY
240	WORKSPACE INNOVATIONS
300	VIVA LAPASTA
311	PILGRIM KITCHEN
374	ACOSTA CARLOS AGENT
	ACOSTA CARLOS INSURANCE AGENT
	CASILLAS MANUEL INS
	COMPUNET MICROSYSTEMS
	NOTARY BY MANUEL CASILLAS
	STATE FARM INSURANCE COMPANIES
	STATE FARM INSURANCE COMPANIES AGENT OFFICES
	STATE FARM INSURANCE COMPANIES AGENTS BELMONT
390	ALL WIRELESS INCORPORATED
	BELMONT PLAZA DENTAL CARE VAL NICKHINSON DDS
	ECONOPAGE
	ENVY NAILS
	EURO TAN
	HAIR TODAY
	LUCIAS
	NRC DISCOUNT AUTO PARTS
	OCCUPANT UNKNOWN
	PAP AUTO PARTS
	PARS AUTO PARTS
	PKS CLEANERS & ALTERATIONS
	PKS INTERIORS
	PUDLEYS
	UNITED STATES GOVERNMENT AIR FORCE DEPARTMENT OF
	UNITED STATES GOVERNMENT ARMY DEPARTMENT OF
	UNITED STATES GOVERNMENT MARINE CORPS
	UNITED STATES GOVERNMENT NAVY DEPARTMENT OF
	UNITED STATES GOVERNMENT RECRUITING
	VIDEOMATIC
	VILLA LUCIAS
	WITTWER DAVID P DC
400	SEVEN ELEVEN FOOD STORE
490	BAY AREA PSYCHOLOGICAL SERVICES
	BELMONT EXECUTIVE CENTER
	BRENDAN ALEXANDER BARBARI ENTERPRISES
	CONNECTWORKS INCORPORATED
	DAY JOHN GRIFFITH AIAAICP
	FHAR FAMILY HOUSING & ADULT RESOURCES INCORPORATED

Target Street	Cross Street	Source
✓	-	Cole Information Services

EL CAMINO REAL 1999 (Cont'd)

490	GONSALVES FRANK AIA ARCHITECT & ASSOCIATES
	GROW REALTY
	INDEPENDENT FINANCIAL GROUP
	JEWISH FAMILY & CHILDRENS SERVICES
	NG CLEMENT INSURANCE SERVICE
	OPEN HOME FAXCTS
	PARENTS PLACE PARENT EDUCATION & SUPPORT GROUPS
	PENNEL APPRAISAL SERVICE
	S CHEN
	SENIORS-AT-HOME COMPREHENSIVE GERIATRIC SERVICES
	UNITED TRAVEL & TOURS
510	INTERNATIONAL HOUSE OF PANCAKES
516	SUPER SHOPS AUTOMOTIVE PERFORMANCE CENTERS
522	MCDONALDS
554	REC VEE WORLD
	U-HAUL COMPANY MOVING CENTERS
560	KINGSWAY MOTEL
564	BELMONT TIRES WHEELS & SERVICE
572	PENINSULA SPORTS CARDS
574	NEVADA BOBS DISCOUNT GOLF
600	VISTA WINDOW & DOOR
630	ECONO LODGE
	PATEL DIPAK
650	SALVATION ARMY THE
700	BELMONT PALMS MOTEL
720	AL ANON & ALATEEN LITERATURE OFFICE
	AL ANON & ALATEEN MID PENINSULA INFORMATION
	AL ANON & ALATEEN MID PENINSULA INFORMATION FROM
	BOREL-POPLAR DEVELOPMENT
	HILLCREST PATROL SERVICES
	LINDYS
770	FARMERS INSURANCE GROUP AGENTS
	HARLEY CHRISTOPHER INSURANCE

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

EL CAMINO REAL 1995

EL CAMINO REAL 94002
BELMONT

WEALTH CODE 7.5

100	★BELMNT ARTS CINEMA	591-5042	4
	★BELMNT CINEMA	591-5349	
101	★JODEL MOTORS	598-0130	2
103	★ROYAL AUTO SALES	595-1618	0
104	★TEEZ SALON	591-9024	+5
105	XXXX	00	
120	★HOWARD TIRE INC	592-3200	4
130	★GLOSKOWSKI WALTER	593-5910	4
210	★HONEYBAKED HAM CO	595-8551	9
230	LISTER Frank B	591-4527	
	★MADAME DIANA	591-7996	
240	★CA HAIRWAVES	591-4457	2
	★LUCIA DANA	594-1429	3
300	★TWO GUYS FROM ITALY	591-5371	
311	★PILGRIM KITCHEN	592-0638	
372	★PERMANENT COSMETQUE	591-8182	+5
374	★ACOSTA CARLOS AGENT	570-4398	1
	★ACOSTA CARLOS AGENT	598-0394	1
	★CASILLAS MANUEL INS	593-8258	3
	★COMPUNET MCRSYSTMS	594-2988	2
	★STATE FARM INS AGNT	598-0394	1
	★STATE FARM INS CO	570-4398	1
380	XXXX	00	
390.....	BUILDING		
	★ALL STAR NAILS	593-9497	1
	★BELMNT PIZZA RSTRNT	593-7666	1
	★BELMNT PLZA LNDRLND	591-3560	0
	★FISHING PLACE THE	591-2318	9
	★HAIR TODAY	591-4743	2
	★LAUNDERLAND	591-3560	9
	★LUCIAS	593-4178	
	★PIZZA EXPRESS	593-7666	0
	★PKS CLNRS&ALTRTNS	508-7835	+5
	★PKS INTERIORS	593-1488	+5
	★PUDLEYS	593-1144	
	★THAT FISHING&ARCHRY	591-2318	9
	★VIDEOMATIC	802-8401	4
	★VILLA LUCIAS	593-4178	
	★WITTWER CHIRO CT	591-9674	1
	★WITTWER DAVID P DC	591-9674	
390.....			
400	★SEVEN11 FOOD	592-0859	
409	XXXX	00	
457	XXXX	00	
490.....	BUILDING		
	★ASSOCTD SECURITIES	591-4073	4
	★BELMNT EXEC CNTR	591-2515	4
	★BRENDAN ALEXANDER	592-3922	+9
	★BROWNCLARKSON INC	592-4100	+5
	★CARLSON N W CFP	591-4073	4
	★CELIS MARCEL ENGRS	593-5466	8
	★FAMILY HSNG&RSRC	593-2516	
	★FHARFMLY HSNG&RSRC	593-0363	+5
	★FHARFMLY HSNG&RSRC	593-2516	+5
	★GROW REALTY	594-1234	+5
	★JEWISH FMLY&CHLD SV	591-8991	
	★LANGDONS	802-9000	+5
	★PENNEL APPRSL SERV	598-9831	4
	★RAYMOND&RAYMOND INS	591-4944	2
	★ROOMATES	592-3771	4
490.....			
510	★SANTINIS RESTPZRA	592-2300	2
516	★SUPER SHOPS AUTOMTV	592-3010	6
522	★MCDONALDS	592-6833	3
546	XXXX	00	
548	XXXX	00	
550	XXXX	00	
554	★REC VEE WORLD	592-4036	
	★UHAUL CO CENTERS	592-4036	+5
560	★KINGSWAY MOTEL	593-3495	
564	★BELMNT TIRES WHEELS	592-9932	7
	★FADELLI FRED	592-9932	3
	★RUBBER TREE	592-9932	9
572	★KARATE USA	637-0902	2
574	★NEVADA BOBS GOLF	593-2177	6
	★NV BOBS DSCNT GOLF	593-2177	+5
576	XXXX	00	
630	★ECONO LODGE	593-5883	4
	★PATEL DIPAK	593-5883	
650	★SALVATN ARMY STORE	591-5499	
700	★BELMNT PALMS MOTEL	593-3951	
720	★BORELPOPLAR DEVLP	591-9615	4
	★TRISTAR CARPETS	593-5214	+5
730	● CHANG Bert	00	+5
	★OVERSEAS MRCHNT CRP	595-7788	3
740	★CRYSTAL ANGEL	591-9539	+5
	★INDIANAS DLI&COFFEE	591-5706	+5
	★LOPEZ B STAIND GLSS	591-9539	+5
	★LOPEZ L STAIND GLSS	591-9539	+5
	★STAINED GLASS ART	591-9539	+5
770	★FARMERS INS AGENT	598-9100	4
	★HARLEY CHRISTOPHER	598-9100	4
	MILLER James	593-9520	4

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

EL CAMINO REAL 1990

EL CAMINO REAL 94002
BELMONT

100	★BELMNT 3 CINEMAS	591-5349	3
101	★ABLE AUTO SLS&LEASE	592-7940	+0
	★ATLAS MOTION PCTRS	591-0233	8
103	★ROYAL AUTO SALES	595-1618	+0
104	★SOUND&VISION ELTRNC	595-8688	7
105	XXXX	00	
120	★HOWARD TIRE BELMONT	592-3200	
210	★HONEYBAKED HAM CO	595-8551	9
230	LISTER Frank B	591-4527	
	MADAME Diana	591-7996	
240	★HAIR REPRODUCTION	592-6394	+0
	★PRODUCTION HAIR CTR	591-4457	
300	★TWO GUYS FROM ITALY	591-5371	
311	★PILGRIM KITCHEN	592-0638	
372	★OBRIEN ACCOUNTING	592-1325	8
	★OBRIEN CATERING	592-5157	+0
374	★CENTURY 21 CITY CT	595-5330	9
380	XXXX	00	
390.....	BUILDING		
	★BELMNT PLZ LNDRLAND	591-3560	+0
	★CRAMER JOHANNES DC	593-0933	8
	★EUROPEAN BAKERY	594-0170	7
	★FISHING PLACE THE	591-2318	9
	★GENL BUILDING MNTNC	593-0360	+0
	★JEAN JJ JOHNSON	593-0933	8
	★LAUNDERLAND	591-3560	9
	★LUCIAS	593-4178	5
	★MORRIS PLAN CO CA	594-9341	9
	★NICHOLS CHIROPRACTC	593-0933	6
	★P K S CLNRS&ALTRTNS	593-1488	+0
	★P K S WINDOW COVRNG	593-1488	+0
	★PAC FORMAL WEAR	595-4000	8
	★PIZZA EXPRESS	593-7666	+0
	★PUDLEYS	593-1144	1
	★STAVER JILL	594-0174	9
	★SUPERIOR MARKET	595-8880	3
	★THAT FISHING PLACE	591-2318	9
	★VILLA LUCIAS	593-4178	5
	P ★VIDEO AFFAIR	591-2111	3
	T ★HAIR TODAY	591-4743	1
390.....			
400	★SEVEN 11 FOOD	592-0859	4
409	XXXX	00	
457	XXXX	00	
490.....	BUILDING		
	★ARIZMENDI THOS PHD	592-2602	9
	★AURA WM MUSIC	592-4902	7
	★BELMNT EXEC CENTER	591-2515	9
	★BENCO FNCL CORP	592-1963	8
	★BENCORP FNCL INC	595-4833	8
	★BROWN CLARKSON INC	592-4100	+0
	★CELIS MARCEL ENGRS	593-5466	8
	★EMERGICARD CA INC	592-1963	+0
	★F H A R FAMILY HSE	593-2516	9
	★GEOTHARMAL FLORAL	595-3161	8
	★GOLDEN B TRAVEL SRV	592-2920	
	★HOMES BY S KENNEDY	593-8551	+0
	★JEWISH FMLY&CHLD SV	591-8991	
	★KENNEDY DRAFTING	593-8551	9
	★LAMB LLOYD R	591-7377	
	★LEE GENE W OD	593-2020	+0
	★LI SEM ENTERPRISES	592-4901	9
	★MOTOR LODGE INVST	591-7377	
	★PANTANO REALTY INC	595-3075	8
	★PAULMAN INC	593-0573	7
	★QUANTUM CONSTR INTL	593-8551	8
	★STOKLOSA&ASSOCIATES	591-5446	+0
	★STOOPENKOFF L A ASC	592-9800	9
	★TRONDEL CORPORATION	592-4902	7
490.....			
500	★SIRLOIN&BREW UNLMTD	595-9678	2
510	XXXX	00	
516	★SUPER SH ATMTV CTR	592-3010	6
546	XXXX	00	
548	XXXX	00	
550	XXXX	00	
554	★BURFORD M	591-3416	5
	★REC VEE WORLD	592-4036	4
	★U HAUL CO	592-4036	
560	★KINGSWAY MOTEL	593-3495	
564	★BELMNT TIRES WHEELS	592-9932	7
	★RUBBER TREE	592-9932	9
574	★NEVADA BOBS GOLF	593-2177	6
576	XXXX	00	
600	★ENERGY HOUSE	593-1496	8
630	★HILLSIDE MOTEL	593-5883	3
	★PATEL DIPAK	593-5883	
650	★SALVATN ARMY STORE	591-5499	3
700	★BELMNT PALMS MOTEL	593-3951	
720	★AUDUBON SOCIETY	593-7368	6
	★DAYTOP	592-0866	+0
	★GLOBE GUIDE TRAVEL	593-5982	9
	★LANDSCAPE CO THE	594-9933	9
	★SEQUOIA AUDUBON SOC	593-7368	8
	★TESHOIAN NERSES CPA	594-4874	+0
730	XXXX	00	
740	★MERLINS MAGIC MNSN	594-0802	7
770	★BRILL T PSYCHIC	593-3068	
	★BRILL TERRIE	593-3068	
	★HUDSON KIRK	595-3154	8
	★NEW AGE GIFT SHOPPE	593-3068	+0
780	★RICHS APPLIANCE RPR	592-9685	8

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

EL CAMINO REAL 1985

EL CAMINO REAL 94002
BELMONT

100	BELMONT 3 CINEMAS	591-5349	3
101	BELMONT CAR CO	591-7900	4
104	XXXX	00	
105	XXXX	00	
120	HOWARD TIRE BELMONT	592-3200	6
210	PENINSULA AUDIO SYS	591-0333	1
230	LISTER FRANK B	591-4527	
	MADAME DIANA	591-7996	
240	PRODUCTION HAIR DSN	591-4457	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

EL CAMINO REAL 1985

..EL CAMINO REAL 94002 CONT..

300	TWO GUYS FROM ITALY	591-5371	0
311	PILGRIM KITCHN PIES	592-0638	
370	XXXX	00	
372	XXXX	00	
374	SAXE RLTY BLMNT	592-2910	9
	WANDMAYER VICTOR G	592-2910	
380	XXXX	00	
390.....	BUILDING		
	A SLICE OF ITALY	593-5000	1
	ASTRO LUM	594-0581	+5
	BEANS&LEAVES	593-2222	1
	BELMNT PLAZA PHARM	595-3635	2
	CAUMONS CLNRS&LNDRY	592-3447	3
	CENTER DRAPERY CLNR	593-1488	1
	CENTURY 21 BELMONT	595-5330	
	CENTURY 21 CITY CT	349-6755	4
	CENTURY 21 CTY CNTR	595-5330	
	CONTL LADY HLTH SPA	591-2600	4
	DELGADO TRAVEL	592-3386	2
	KUCSAK F MENSWEAR	593-4480	+5
	LUCIAS	593-4178	+5
	PIZZA EXPRESS	593-7666	4
	PUDLEYS	593-1144	1
	SLICE OF ITALY A	593-5000	1
	SUPERIOR MARKET	595-8880	3
	VILLA LUCIAS	593-4178	+5
J	POLISHED ELEGANCE	595-2332	+5
P	VIDEO AFFAIR	591-2111	3
T	HAIR TODAY	591-4743	1
390.....			
400	SEVEN 11 FOOD STORE	592-0859	4
409	XXXX	00	
457	XXXX	00	
490	GOLDEN B TRAVEL SRV	592-2920	7
	JEWISH FMLY&CHLD SV	591-8991	
	LAMB LLOYD R	591-7377	
	MOTOR LODGE INVST	591-7377	
	SEVEN 11 DIST OFC	595-0525	3
	SITKOFF BEA	592-2920	7
500	SIRLOIN&BREW UNLMTD	595-9678	2
510	XXXX	00	
516	KINNEY SHOES	595-5211	2
520	MCDONALDS RESTRNTS	595-9631	2
526	AMER NATL INS CO	591-5335	
546	XXXX	00	
548	XXXX	00	
550	XXXX	00	
554	BURFORD M	591-3416	+5
	REC VEE WORLD	592-4036	4
	U HAUL CO	592-4036	4
	U HAUL CTR BLMNT	592-4036	
560	KINGSWAY MOTEL	593-3495	
564	RUBBER TREE	592-9932	4
572	MORRIS KEN PIANO CO	592-1200	4
	SAN YUEN MARKET	592-8674	+5
574	GRANTREE FURN RENTL	593-2163	4
576	BUCKSTOVE FAN CNTR	593-1496	1
	ENERGY SAVING HOUSE	593-1496	+5
600	BELMNT TRADING POST	593-9390	
	KLAIBER KATHY	595-1397	+5
630	HILLSIDE MOTEL	593-5883	3
	PATEL DIPAK	593-5883	
650	SALVATION ARMY STR	591-5499	3
700	BELMNT PALMS MOTEL	593-3951	
720	CAMINAR ADMIN OFC	591-2681	8
	COST DYNAMICS	595-5807	3
	FOUR SEASONS SOFTWR	592-6810	+5
	HERCULES ENGINEERNG	595-4847	4
	J&M FABRICATORS	595-4849	+5
	LIBERTY ADVERTISING	593-4130	1
	PETITE SHERRE	592-9353	+5
730	KAPOOR ASHOK	593-1065	3
740	BELMNT LAPIDARY	593-9541	2
	SMITH HARRIET	593-9541	
750	ELCAMINO HOUSE	593-1472	9
	SCHWARZ J	593-6975	1
770	SLADE DON AIA ARCH	591-7439	
780	XXXX	00	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

EL CAMINO REAL 1980

EL CAMINO REAL 94002
BELMONT

100★	BELMNT TWIN CINEMAS	591-5349	6
101★	CARS R US	595-1716	+0

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Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

EL CAMINO REAL 1980

EL CAMINO REAL 94002 CON

★	CLASSIFIED AUTOS	592-3315	5
104	HATT DOUG	592-5246	8
★	STATE FARM BELMONT	592-5246	5
105★	SANCARLOS MOTORS	592-5222+0	
120★	HOWARD TIRE	592-3200	6
210★	PENSLA AUDIO SYSTEM	591-0333	8
230	LISTER FRANK B	591-4527	
	MADAME DIANA	591-7996	
240★	CAROLYNS CORNER	591-4457+0	
★	PRODUCTION HAIRSTYL	591-4457	
300★	TWO GUYS FROM ITALY	592-9838+0	
★	TWO GUYS FROM ITALY	591-5371+0	
311★	PILGRIM KITCHN PIES	592-0638	3
370	XXXX	00	
372	XXXX	00	
374★	SAXE REALTORS	592-2910	9
★	WANDMAYER VICTOR G	592-2910	5
380	XXXX	00	
490.....	BUILDING		
★	ADIA TASK FORCE	592-2900	8
★	ADIA TEMPORARY SV	595-0290+0	
★	CALIF CANADIAN BANK	592-9320	7
★	CARLTON CROSBY	595-2333	
	CARLTON KIRK	595-2333	8
	CROSBY CHARLES H	595-2333	8
	FREEMAN BILL	592-6682+0	
★	GLOBAL MANAGEMENT	591-7757+0	
210★	GOLDEN B TRAVEL SRV	592-2920	7
202★	JEWISH FAMLY SV AGC	591-8991	
★	LAMB LLOYD R	591-7377	
213★	MOTOR LDG INVSTMNT	591-7377	
★	SEVEN 11 FOOD STR	595-0525+0	
210★	SITKOFF BEA	592-2920	7
210★	TASK FORCE TEMP HLP	592-2900	5
212★	TOMLINSON PENNY	592-7960	5
215★	WISMANS BOB	592-8993	5
490			
510★	SIRLOIN&BREW UNLTD	592-9678	6
516★	KINNEY SHOES	592-9893	
520★	MCDONALDS RESTAURNT	592-9631	2
526★	AMER NATL INS CO	591-5335	
546	XXXX	00	
548	XXXX	00	
550★	MORRIS KEN PIANO CO	592-1200	7
554★	LYON MOVING&STORAGE	593-2181	4
560★	KINGSWAY MOTEL	593-3495	
564★	RUBBER TREE THE	595-1320+0	
576	XXXX	00	
600★	BELMNT TRADING POST	593-9390	
630★	HILLSIDE MOTEL	593-5883	
	PATEL DIPAK	593-5883	
650★	BIAGIS CARRIAGE HSE	592-2323	
★	CARRIAGE HOUSE	592-2323	
700★	BELMNT PLAINS MOTEL	593-3951	
720★	CAMINAR ADMIN OFC	591-2681	8
★	SATELLITE HOUSING	593-3154	2
★	TYSON ACCOUNTING	591-3489	9
730	XXXX	00	
740★	BELMNT LAPIDARY SPL	593-9541	4
	SMITH HARRIET	593-9541	
750★	ELCAMINO HOUSE	593-1472	9
770★	SLADE DON AIA	591-7439	4
780★	INTL RL EST ASSOCTS	595-3161	9

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

EL CAMINO REAL 1977

EL CAMINO REAL 94002 BELMONT

```
100*BELMNT TWIN CINEMAS591-5349 6
104*ANDRAKIN ANDY       592-5246 5
   *STATE FARM BELMONT 592-5246 5
120*HOWARD TIRE         592-3200 6
210*VALENTINOS          592-8117+7
230 LISTER FRANK B      591-4527
    MADAME DIANA        591-7996
240*PRODUCTION HAIRSTYL591-4457
300*PLUM TREE RESTAURNT592-9817+7
311*PILGRIM KITCHN PIES592-0638 3
370 MILLS B M           593-3979+7
372 DARABONT ETHEL      591-2013
374*SAXE REALTORS        592-2910 5
   *WANDMAYER VICTOR G 592-2910 5
380*JUDYS                592-9849 3
490....BUILDING
   *A P ENGINEERING INC593-6392 6
   *BAY AR LEASE        592-9300 6
   *CALIF CANADIAN BANK592-9320+7
   *CAMBION             592-4524 5
   *CAMBRIDGE THERMIONC592-4524 5
   *CARLTON CONSULTANTS591-8675+7
   *CARLTON KIRK        591-8675+7
   *FARMERS INS BELMONT592-8992 5
   *FREEMAN BILL        592-8992 5
   *GOLDEN B TRAVEL SRV592-2920+7
202 *JEWISH FAMLY SV AGC591-8991
214 *KELLY SERVICES     593-1038 5
213 *LAMB L R MTR LODGE 591-7377
213 *MOTOR LDG INVSTMNT 591-7377
215 *NEWMAN CONSTRUCTION591-9445 4
   *SEVEN ELEVEN FD STR593-8263 2
   *SITKOFF BEA         592-2920+7
   *TASK FORCE TEMP HLP592-2900 5
212 *TOMLINSON PENNY    592-7960 5
   *WISMANS BOB         592-8993 5
   *WOODMEN OF THE WRLD593-1694
490.......................
510*SIRLOIN&BREW UNLTD 592-9678 6
516*KINNEY SHOES        592-9893
520*MCDONALDS RESTAURNT592-9631 2
526*AMER NATL INS CO    591-5335
546  XXXX               00
548  XXXX               00
550*CARNES PIANO&ORGAN 592-1200
   *MORRIS KEN PIANO CO592-1200+7
554*LYON MOVING&STORAGE593-2181 4
560*KINGSWAY MOTEL      593-3495
564*HI LO APPLNC&TV CTR593-8237
   *HILO APPLNCE&TV CTR593-8237 6
576  XXXX               00
600*BELMNT TRADING POST593-9390
630*HILLSIDE MOTEL      593-5883
    PATEL DIPAK         593-5883
650*BIAGIS CARRIAGE HSE592-2323
   *CARRIAGE HOUSE      592-2323
700*BELMNT PALMS MOTEL 593-3951
720*CAMINAR              593-3154 6
   *CIRCULATION USA     591-5006 6
   *LEADER&CO INC       593-8086 6
   *PERRY FRANK B       593-4435 4
   *SATELLITE HOUSING   593-3154 2
   *SMTO CO HLTH MENTAL593-3154
   *SPORLAN VALVE CO    592-0955
   *VINATIERI JOHN&ASSC592-7495+7
730 HEMINGWAY ALICE     593-0436 5
740*BELMNT LAPIDARY SPL593-9541 4
    SMITH HARRIET       593-9541
750*ELCAMINO HOUSE       593-3154+7
770*SLADE DON AIA        591-7439 4
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APPENDIX C

SITE PHOTOGRAPHS

Photograph 1 – View looking north at east side of 400 El Camino Real.

Photograph 2 – View looking north along west side of 400 El Camino Real.

Photograph 3 – View looking west at residential neighborhood adjacent to east edge of Site.

Photograph 4 – View looking southeast at office building at 490 El Camino Real portion of Site.

Photograph 5 – View looking northeast toward 400 El Camino Real.

Photograph 6 – View of subsurface anomaly (pink) near southwest corner of 400 El Camino Real.

Photograph 7 – View looking northeast at subsurface anomaly near northeast corner of 400 El Camino Real.

Photograph 8 – View looking southeast at subsurface anomaly (pink) near northeast corner of 400 El Camino Real.

Photograph 9 – View looking north from the Site across Davey Glen Road at adjacent shopping center.

Photograph 10 – View of subsurface anomaly (pink) along north edge of 400 El Camino Real.

APPENDIX D

INTERVIEW DOCUMENTATION

Project Regis Belmont. DV

JAN 27 2014

File

WEST Environmental Services & Technology
711 Grand Avenue, Suite 220
San Rafael, California 94901
415.460.6770 • Fax 415.460.6771
main@westenvironmental.com

Name/Title of Individual Completing Questionnaire:	GENE W. LEE
Phone No./Email Address:	650-637-1217 genesook@yahoo.com
Property Name:	Belmont Executive Center
Property Address:	400-490 El Camino Real, Belmont, Ca. 94002

PHASE I ESA INTERVIEW QUESTIONNAIRE

	Owner/Occupant/Site Manager Inquiry	Response: Yes	No	Unk
1a.	Is the property used for industrial purposes? Specify:		✓	
1b.	Is any adjoining property used for industrial purposes? Specify:		✓	
2a.	Did you observe evidence or do you have any prior knowledge that the property has been used for industrial purposes in the past? Specify:		✓	
2b.	Did you observe evidence or do you have any prior knowledge that any adjoining property has been used for industrial purposes in the past? Specify:		✓	
3a.	Is the property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)? heard about it, but no sure.	✓		
3b.	Is any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?		✓	
4a.	Did you observe evidence or do you have any prior knowledge that the property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)? gas station	✓		
4b.	Did you observe evidence or do you have any prior knowledge that any adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?		✓	

505

PHASE I ESA INTERVIEW QUESTIONNAIRE

	Owner/Occupant/Site Manager Inquiry	Response		
		Yes	No	Unk
5a.	Are any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than 5 gallons in volume or 50 gallons in the aggregate currently stored on or used at the property or at the facility?		✓	
5b.	Did you observe evidence or do you have prior knowledge that any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than 5 gallons in volume or 50 gallons in the aggregate have previously been stored on or used at the property or at the facility?		✓	
6a.	Are any industrial drums (typically, 55 gallons) or sacks of chemicals currently located on the property or at the facility?		✓	
6b.	Did you observe evidence or do you have prior knowledge that any industrial drums (typically, 55 gallons) or sacks of chemicals have previously been located on the property or at the facility?		✓	
7a.	Did you observe evidence or do you have prior knowledge that fill dirt that originated from a contaminated site has been brought into the property?		✓	
7b.	Did you observe evidence or do you have prior knowledge that fill dirt that is of an unknown origin has been brought into the property?		✓	
8a.	Did you observe evidence or do you have prior knowledge that any pits, ponds, or lagoons in connection with waste treatment or waste disposal have previously been located on the property?		✓	
8b.	Are any pits, ponds, or lagoons in connection with waste treatment or waste disposal currently located on the property?		✓	
9a.	Is any stained soil currently on the property?		✓	
9b.	Did you observe evidence or do you have prior knowledge that any stained soil has previously been on the property?		✓	
10a.	Are any registered or unregistered storage tanks (aboveground or underground) currently located on the property?			✓
10b.	Did you observe evidence or do you have prior knowledge that any registered or unregistered storage tanks (aboveground or underground) have previously been located on the property?			✓

PHASE I ESA INTERVIEW QUESTIONNAIRE

	Owner/Occupant/Site Manager Inquiry	Response		
		Yes	No	Unk
11a.	Are any vent pipes, fill pipes or access ways indicating a fill pipe protruding from the ground currently located on the property or adjacent to any structure located on the property?		✓	
11b.	Did you observe evidence or do you have prior knowledge that any vent pipes, fill pipes or access ways indicating a fill pipe protruding from the ground have previously been located on the property or adjacent to any structure located on the property?		✓	
12a.	Are any flooring, drains, or walls that are stained by substances other than water or are emitting foul odors currently located within the facility?		✓	
12b.	Did you observe evidence or do you have prior knowledge that any flooring, drains, or walls that are stained by substances other than water or are emitting foul odors have previously been located within the facility?		✓	
13a.	If the property is served by a private well or nonpublic water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system?		✓	
13b.	If the property is served by a private well or nonpublic water system, is there evidence or do you have prior knowledge that that the well has been designated as contaminated by any government environmental or health agency?		✓	
14.	Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property?		✓	
15a.	Has the owner or occupant of the property been informed of the past existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?			✓
15a.	Has the owner or occupant of the property been informed of the current existence of hazardous substances or petroleum products with respect to the property or any facility located on the property?			✓
15c.	Has the owner or occupant of the property been informed of the past existence of environmental violations with respect to the property or any facility located on the property?		✓	
15d.	Has the owner of occupant of the property been informed of the current existence of environmental violations with respect to the property or any facility located on the property?		✓	

PHASE I ESA INTERVIEW QUESTIONNAIRE

Owner/Occupant/Site Manager Inquiry	Response		
	Yes	No	Unk
16. Does the owner or occupant of the property have any knowledge of environmental site assessment of the property or facility that indicate the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?		✓	
17. Does the owner or occupant of the property know of any past, threatened or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum product involving the property?		✓	
18a. Does the property discharge waste water on or adjacent to the property, other than stormwater into a stormwater system?		✓	
18b. Does the property discharge waste water on or adjacent to the property, other than stormwater into a sanitary system?		✓	
19. Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried, and/or buried on the property?		✓	
20. Do any records exist indicating the presence of polychlorinated biphenyls (PCBs) for a transformer, capacitor, or any hydraulic equipment?		✓	
21. Does the owner or occupant have any knowledge of any asbestos-containing materials or presumed asbestos-containing materials on any facility located on the property?		✓	

Completed by (Signature)	Title	Date
Benn N. Lee	GENERAL PARTNER	1/23/2014

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APPENDIX E

PHASE II ESA FINDINGS

TABLE E-1
SUMMARY OF SOIL ANALYTICAL RESULTS - TPH AND BTEX
400 El Camino Real
Belmont, California

Sample ID	Date	Depth (ft)	TPHg	TPHd	Benzene	Toluene	Ethyl Benzene	Xylenes
			(mg/kg)	(mg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
W-1	3/13/14	5	<1.00	<10.0	--	--	--	--
		10	<1.00	<10.0	<1.56	<1.56	<1.56	<1.56
		13	3.51	<10.0	<1.44	<1.44	<1.44	<1.44
W-2	3/13/14	5	<1.00	<10.0	--	--	--	--
		10	<1.00	<10.0	--	--	--	--
W-3	3/13/14	5.5	<1.00	<10.0	<1.62	<1.62	<1.62	<1.62
		10	<1.00	<10.0	<1.56	<1.56	<1.56	<1.56
		13	<1.00	<10.0	--	--	--	--
W-4	3/13/14	3	<1.00	<10.0	<1.14	<1.14	<1.14	<1.14
		6	<1.00	<10.0	<1.63	<1.63	<1.63	<1.63
W-6	3/13/14	5.5	<1.00	<10.0	--	--	--	--
ESLs-Residential			100	100	44	2,900	3,300	2,300

Notes

µg/kg: micrograms per kilogram
mg/kg: milligams per kilogram
--: Not analyzed/not avaialble
<1.00: less than the laboratory-reporting limit of 1.00

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TABLE E-2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - PAHS
400 El Camino Real
Belmont, California

Sample ID	Date	Depth (feet)	Polycyclic Aromatic Hydrocarbons		
			Acenaphthene	Benzo(a) pyrene	Naphthalene
			(µg/kg)		
W-1	3/13/14	13	3.68	4.89	<2.50
W-3	3/13/14	10	4.03	4.48	7.15
W-6	3/13/14	5.5	3.80	4.68	<2.50
ESLs-Residential			16,000	38	1,200

Notes

µg/kg: micrograms per kilogram

--: Not analyzed/not avaialble

<2.50: less than the laboratory-reporting limit of 2.50

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TABLE E-3
SUMMARY OF SOIL ANALYTICAL RESULTS - METALS
400 El Camino Real
Belmont, California

Sample ID	Date	Depth (feet)	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
W-1	3/13/14	5	<2.50	--	--	--	--	--	--	<2.50	--	--	--	--	--	--	--	--
		10	4.35	51.6	<2.50	<2.50	12.5	11.0	19.5	4.85	1.09	<2.50	40.7	<2.50	<2.50	<2.50	38.6	40.1
		13	3.47	--	--	--	--	--	--	5.84	--	--	--	--	--	--	--	--
W-2	3/13/14	5	<2.50	--	--	--	--	--	--	3.01	--	--	--	--	--	--	--	--
		10	3.09	--	--	--	--	--	--	4.21	--	--	--	--	--	--	--	--
W-3	3/13/14	10	4.57	118	<2.50	<2.50	29.9	10.9	15.6	6.56	<0.100	<2.50	33.3	<2.50	<2.50	<2.50	31.0	37.5
W-4	3/13/14	6	3.45	--	--	--	--	--	--	5.24	--	--	--	--	--	--	--	--
W-6	3/13/14	5.5	4.45	74.6	<2.50	<2.50	38.9	8.04	17.3	5.88	<0.100	<2.50	40.6	<2.50	<2.50	<2.50	49.0	36.5
ESLs-Residential			bg	750	4	12	750	23	230	80	6.7	40	150	10	20	0.78	200	600

Notes:

mg/kg: milligrams per kilogram

--: Not available/not analyzed

<2.50: less than the laboratory-reporting limit of 2.50

TABLE E-4
SUMMARY OF SOIL GAS SAMPLE ANALYTICAL RESULTS
400 El Camino Real
Belmont, California

Sample ID	Date	Depth (feet)	TCM	CM	Benzene	Toluene	Ethyl benzene	Xylenes	1,2,4-TMB	DCDFM
			(µg/m^3)	(µg/m^3)	(µg/m^3)	(µg/m^3)	(µg/m^3)	(µg/m^3)	(µg/m^3)	(µg/m^3)
W-5	3/13/14	5	<4.88	3.55	14.5	55.5	11.2	62	7.23	8.11
W-6	3/13/14	5	26.9	<2.07	32.1	61.4	14.7	76.5	12.0	<4.95
Modified USEPA RSLs			120	94,000	84	310,000	1,100	100,000	730	11,000

Notes:

PCE: Tetrachloroethene
CE: Chloroethene
TCM: Trichlotomethane
CM: Chloromethane
TMB: Trimethylbenzene
DCDFM: Dichlorodifluoromethane
µg/m^3: micrograms per cubic meter
<6.78: less than the laboratory-reporting limit of 6.78
--: not sampled/not available

F. HYDROLOGY/WATER QUALITY

1. Sares-Regis. 2014. *C.3 and C.6 Development Review Checklist.*

2. BKF. 2014. *Davey Glen—490 El Camino Real Storm Water Management Analysis.* August 11, 2014.

SAN MATEO COUNTYWIDE
Water Pollution
Prevention Program

C.3 and C.6 Development Review Checklist

Municipal Regional Stormwater Permit (MRP)
Stormwater Controls for Development Projects

City of Belmont
1 Twin Pine Lane
Belmont, CA 94002
www.belmont.gov

Applicability of C.3 and C.6 Stormwater Requirements

1. Enter Project Data *(For "C.3 Regulated Projects," data will be reported in the municipality's stormwater Annual Report.)*

1.1 Project Name: DAVEY GLEN

1.2 Project Address: 490 EL CAMINO REAL

1.3 Project APN: 044-162-150/160 Project Watershed:

1.4 Applicant/Agent Name: SARES-REGIS Applicant/Agent Phone: 650 377 5810

1.5 Applicant/Agent Address: 901 MARINERS ISLAND BLVD, 7th FLOOR SAN MATEO CA 94404

1.6 Development type: (check all that apply)
- ☐ Residential ☐ Commercial ☐ Industrial ☒ Mixed-Use ☐ Streets, Roads, etc.
- ☐ 'Redevelopment' as defined by MRP: creating, adding and/or replacing exterior existing impervious surface on a site where past development has occurred[1]
- ☐ 'Special land use categories' as defined by MRP: (1) auto service facilities[2], (2) retail gasoline outlets, (3) restaurants[2], (4) uncovered parking area (stand-alone or part of a larger project)

1.7 Project Description[3]: MIXED-USE RESIDENTIAL 73 UNITS & 4,990 SF RETAIL SPACE.

1.8 Is the site a "High Priority Site" that disturbs less than 1 acre (43,560 sq.ft.) of land? ☐ Yes ☒ No
- "High Priority Sites" are sites that require a grading permit, are adjacent to a creek, or are otherwise high priority for stormwater protection during construction (see Provision C.6.e.ii(2)).

1.9 Total Area of Site: 80,010 sq.ft. ; Total Area of Land Disturbed: 73,600 sq.ft.
- *If less than 5,000 sq.ft. of imperious surface is created/replaced, skip to Item 3. Otherwise, continue to Item 2.1.*
- *If 1 acre (43,560 sq.ft.) or more of land is disturbed, obtain coverage under the state's Construction General Permit at https://smarts.waterboards.ca.gov/smarts/faces/SwSmartsLogin.jsp. Submit to the municipality a copy of your Notice of Intent and Storm Water Pollution Prevention Plan (SWPPP) before a grading or building permit will be issued.*

2. Is the project a "C.3 Regulated Project" per MRP Provision C.3.b?

2.1 Enter the amount of impervious surface[4] created and/or replaced by the project (if the total amount is 5,000 sq.ft. or more):

	1	2	3
Type of Impervious Surface	**Pre-Project Impervious Surface** (sq.ft.)	**Existing Impervious Surface to be Replaced**[6] (sq.ft.)	**New Impervious Surface to be Constructed**[6] (sq.ft.)
Roof area(s) – excluding any portion of the roof that is vegetated ("green roof")			
Impervious[4] sidewalks, patios, paths			
Impervious[4] driveway and uncovered parking[5]			
Streets (public)			
Streets (private)			
Total Impervious Surfaces:	57,100	57,100	3,900
Total New Impervious Surface (sum of totals for columns 2 and 3):		61,000	

1 Roadway projects that replace existing impervious surface are subject to C.3 requirements only if one or more lanes of travel are added.
2 See Standard Industrial Classification (SIC) codes here
3 Project description examples: 5-story office building, industrial warehouse, residential with five 4-story buildings for 200 condominiums, etc.
4 Per the MRP, pervious pavement underlain with pervious soil or pervious storage material, such as a gravel layer sufficient to hold at least the volume of rainfall runoff specified in MRP Provision C.3.d is not an impervious surface.
5 Uncovered parking includes top level of a parking structure.
6 "Replace" means to install new impervious surface where existing impervious surface is removed. "Construct" means to install new impervious surface where there is currently no impervious surface.

2. Is the project a "C.3 Regulated Project" per MRP Provision C.3.b? (continued)

		Yes	No	NA
2.2	In Item 2.1, does the Total New Impervious Surface equal 10,000 sq.ft. or more? *If YES, skip to Item 2.5 and check "Yes." If NO, continue to Item 2.3.*	☒	☐	☐
2.3	Does the Item 2.1 Total New Impervious Surface equal 5,000 sq.ft. or more, but less than 10,000 sq.ft? *If YES, continue to Item 2.4. If NO, skip to Item 2.5 and check "No."*	☐	☐	☐
2.4	Is the project a "Special Land Use Category" per Item 1.6? For uncovered parking, check YES only if there is 5,000 sq.ft or more uncovered parking. *If NO, go to Item 2.5 and check "No." If YES, go to Item 2.5 and check "Yes."*	☐	☐	☐
2.5	Is the project a C.3 Regulated Project? *If YES, skip to Item 4; if NO, continue to Item 3.*	☒	☐	☐

3. Projects that are NOT C.3 Regulated Projects

If you answered NO to Item 2.5, or the project creates/replaces less than 5,000 sq. ft. of impervious surface (see Item 1.8), then the project is NOT a C.3 Regulated Project, and stormwater treatment is not required, BUT the municipality may determine that source controls and site design measures are required. Skip to Item 6.1.

4. Projects that ARE C.3 Regulated Projects

If you answered YES to Item 2.5, then the project is a C.3 Regulated Project. The project must include appropriate site design measures and source controls AND hydraulically sized stormwater treatment measures. Items 4.1 and 4.2 will help you determine the applicability of Low Impact Development (LID) stormwater treatment requirements. IF FINAL DISCRETIONARY APPROVAL IS GRANTED ON OR AFTER **DECEMBER 1, 2011**, LID REQUIREMENTS APPLY, except for "Special Projects."

		Yes	No	NA
4.1	Is this project a "Special Project" (including urban infill, high density, or transit oriented development) per the criteria included in Appendix J of the C.3 Technical Guidance? *If YES, some non-LID treatment is allowed; skip to Item 5.1. If NO, continue to Item 4.2.*	☐	☒	☐
4.2	Is it feasible to treat the full C.3.d amount of runoff with infiltration or rainwater harvesting and use, per the LID Feasibility Criteria in Appendix I of the C.3 Technical Guidance? *Unless final discretionary approval is granted before 12/1/11, a NO answer means that stormwater treatment may be met through biotreatment; a YES answer means that stormwater treatment must be met through rainwater harvesting and reuse or infiltration. In either case, continue to Item 5.*	☐	☒	☐

5. Is the project a Hydromodification Management (HM) Project?

If you answered NO to Item 2.2, the project is too small to be an HM project. Skip to Item 6. Otherwise, continue to Item 5.1

5.1 Does the project create and/or replace 1 acre (43,560 sq. ft.) or more of impervious surface? (Refer to Item 2.1.)

- ☒ YES. *Continue to Item 5.2.*
- ☐ NO. *Skip to Item 5.5 and check "No."*

5.2 Is the total impervious area increased over the pre-project condition?

- ☒ YES. *Continue to Item 5.3.*
- ☐ NO. *The project is NOT required to incorporate HM measures. Skip to Item 5.5 and check "No."*

5.3 Is the site located in an HM Control Area per the HM Control Areas map (Appendix H of the C.3 Technical Guidance)?

- ☒ YES. *Skip to Item 5.5 and check "Yes."*
- ☐ NO. *Attach map, indicating project location. Skip to Item 5.5 and check "No."*
- ☐ Further analysis required. *Continue to Item 5.4.*

5.4 Has an engineer or qualified environmental professional determined that runoff from the project flows only through a hardened channel or enclosed pipe along its entire length before emptying into a waterway in the exempt area?

- ☐ YES. *Attach signed statement by qualified professional. Go to Item 5.5 and check "No."*
- ☒ NO. *Go to Item 5.5 and check "Yes."*

5.5 Is the project a Hydromodification Management Project?

- ☒ YES. *The project is subject to HM requirements (described in Section 11 of this form). Continue to Item 6.*
- ☐ NO. *The project is EXEMPT from HM requirements. Continue to Item 6.*

Implementation of C.3 and C.6 Stormwater Requirements

6. Select appropriate source controls *(Applies to C.3 Regulated Projects; for other projects required at municipality discretion[7])*

Check if project has these features		Features that require source control measures	Source Control Measures (Local Source Control List for detailed requirements)	Is source control measure included in project plans?		
Yes	No			Yes	No	Plan Sheet No.
☒	☐	Storm Drain	Mark on-site inlets with the words "No Dumping! Flows to Bay" or equivalent.	☐	☐	
☒	☐	Floor Drains	Plumb interior floor drains to sanitary sewer[8] [or prohibit].	☐	☐	
☒	☐	Parking garage	Plumb interior parking garage floor drains to sanitary sewer.[8]	☐	☐	
☒	☐	Landscaping	▪ Retain existing vegetation as practicable. ▪ Select diverse species appropriate to the site. Include plants that are pest- and/or disease-resistant, drought-tolerant, and/or attract beneficial insects. ▪ Minimize use of pesticides and quick-release fertilizers. ▪ Use efficient irrigation system; design to minimize runoff.	☐	☐	
☒	☐	Pool/Spa/Fountain	Provide connection to the sanitary sewer to facilitate draining.[8]	☐	☐	
☒	☐	Food Service Equipment (non-residential)	Provide sink or other area for equipment cleaning, which is: ▪ Connected to a grease interceptor prior to sanitary sewer discharge.[8] ▪ Large enough for the largest mat or piece of equipment to be cleaned. ▪ Indoors or in an outdoor roofed area designed to prevent stormwater run-on and run-off, and signed to require equipment washing in this area.	☐	☐	
☒	☐	Refuse Areas	▪ Provide a roofed and enclosed area for dumpsters, recycling containers, etc., designed to prevent stormwater run-on and runoff. ▪ Connect any drains in or beneath dumpsters, compactors, and tallow bin areas serving food service facilities to the sanitary sewer.[8]	☐	☐	
☐	☒	Outdoor Process Activities[9]	Perform process activities either indoors or in roofed outdoor area, designed to prevent stormwater run-on and runoff, and to drain to the sanitary sewer.[8]	☐	☐	
☒	☐	Outdoor Equipment/ Materials Storage	▪ Cover the area or design to avoid pollutant contact with stormwater runoff. ▪ Locate area only on paved and contained areas. ▪ If storage area will contain non-hazardous liquids, roof the area, drain to sanitary sewer[8], and contain by berms or similar.	☐	☐	
☐	☒	Vehicle/ Equipment Cleaning	▪ Roofed, pave and berm wash area to prevent stormwater run-on and runoff, plumb to the sanitary sewer[8], and sign as a designated wash area. ▪ Commercial car wash facilities shall discharge to the sanitary sewer.[8]	☐	☐	
☐	☒	Vehicle/ Equipment Repair and Maintenance	▪ Designate repair/maintenance area indoors, or an outdoors area designed to prevent stormwater run-on and runoff and provide secondary containment. Do not install drains in the secondary containment areas. ▪ Prohibit floor drains unless connected to wastewater pretreatment systems prior to discharging to the sanitary sewer.[8] ▪ Connect containers or sinks used for parts cleaning to the sanitary sewer.[8]	☐	☐	
☐	☒	Fuel Dispensing Areas	▪ Fueling areas shall have impermeable surface, such as Portland cement concrete, that is a) minimally graded to prevent ponding and b) separated from the rest of the site by a grade break to prevent stormwater run-on. ▪ Fueling area canopy must extend at least 10 ft in each direction from each pump and drain away from fueling area.	☐	☐	
☐	☒	Loading Docks	▪ Cover and/or grade to minimize run-on to and runoff from the loading area. ▪ Position downspouts to direct stormwater away from the loading area. ▪ Drain water from loading dock areas to the sanitary sewer.[8] ▪ Install door skirts between the trailers and the building.	☐	☐	
☒	☐	Fire Sprinklers	Design for discharge of fire sprinkler test water to landscape or sanitary sewer.[8]	☐	☐	
☒	☐	Miscellaneous Drain or Wash Water	▪ Drain condensate of air conditioning units to landscaping. Large air conditioning units may connect to the sanitary sewer.[8] ▪ Roof drains shall drain to unpaved area where practicable. ▪ Boiler drain lines, roof top equipment, and washing and/or steam cleaning activities shall drain to the sanitary sewer.[8]	☐	☐	

[7] See MRP Provision C.3.a.i(7) for non-C.3 Regulated Projects and Provision C.3.c.i(1) for C.3 Regulated Projects.

[8] Any connection to the sanitary sewer system is subject to sanitary district approval.

[9] Businesses that may have outdoor process activities/equipment include machine shops, auto repair, industries with pretreatment facilities.

7. **Select appropriate site design measures** *(Applies to C.3 Regulated Projects; for other projects required at municipality discretion[10])*

Municipal staff will indicate which site design measures have been considered, and which are included in the plans.

7.1 Are appropriate site design measures included in project plans?

Was the site design measure discussed with applicant?		Is the site design measure included in project plans?			
Yes	**No**	**Yes**	**No**	Plan Sheet No.	**Site Design Measures**
☐	☐	☐	☒		Protect sensitive areas, including wetland and riparian areas, and minimize changes to the natural topography.
☐	☐	☐	☒		Minimize land disturbance and impervious surface (especially parking lots).
☐	☐	☒	☐		Minimize impervious areas from being directly connected to the storm drain system (for example, direct runoff from roof downspouts and other impervious surfaces to landscaped areas where feasible).
☐	☐	☐	☒		Install rain barrel or cistern to capture and use rainwater for irrigation or other non-potable use.
☐	☐	☐	☒		Design areas of "micro-detention" in landscaping to retain rainfall runoff onsite, where appropriate.
☐	☐	☒	☐		Maximize permeability by clustering development and preserving open space, where appropriate.
☐	☐	☐	☒		Concentrate development density, where appropriate, to reduce impervious surface on a watershed basis.
☐	☐	☐	☒		Use permeable pavement surfaces where feasible.
☐	☐	☒	☐		Self-treating area (see Section 4.2 of the C.3 Technical Guidance)
☐	☐	☒	☐		Self-retaining area (see Section 4.3 of the C.3 Technical Guidance)

8. **Use construction best management practices (BMPs) (applies to all projects).**

8.1 Are construction BMPs included in project plans?

Yes	No	Best Management Practice (BMP)
☒	☐	Attach the San Mateo Countywide Water Pollution Prevention Program's construction BMP plan sheet to project plans and require contractor to implement the applicable BMPs on the plan sheet.
☒	☐	Temporary erosion controls to stabilize all denuded areas until vegetation is established.
☒	☐	Delineate with field markers clearing limits, easements, setbacks, sensitive or critical areas, buffer zones, trees, and drainage courses.
☒	☐	Provide notes, specifications, or attachments describing the following: ▪ Construction, operation and maintenance of erosion and sediment controls, including inspection frequency; ▪ Methods and schedule for grading, excavation, filling, clearing of vegetation, and storage and disposal of excavated or cleared material; ▪ Specifications for vegetative cover and mulch, including methods and schedules for planting and fertilization; ▪ Provisions for temporary and/or permanent irrigation.
☒	☐	Perform clearing and earth moving activities only during dry weather.
☒	☐	Use sediment controls or filtration to remove sediment when dewatering and obtain all necessary permits.
☒	☐	Protect all storm drain inlets in the vicinity of the site using sediment controls such as berms, fiber rolls, or filters.
☒	☐	Trap sediment on-site, using BMPs such as sediment basins or traps, earthen dikes or berms, silt fences, check dams, soil blankets or mats, covers for soil stock piles, etc.
☒	☐	Divert on-site runoff around exposed areas and divert off-site runoff around the site (e.g., swales and dikes).
☒	☐	Protect adjacent properties and undisturbed areas from construction impacts using vegetative buffer strips, sediment barriers or filters, dikes, mulching, or other measures as appropriate.
☒	☐	Limit construction access routes and stabilize designated access points.

[10] See MRP Provision C.3.a.i(6) for non-C.3 Regulated Projects and Provision C.3.c.i(2)(a) for C.3 Regulated Projects.

8. Use construction BMPs (applies to all projects) – continued

8.1 Are construction BMPs included in project plans?

Yes	No	Best Management Practice (BMP)
☒	☐	No cleaning, fueling, or maintaining vehicles on-site, except in a bermed area where washwater is contained and treated, and fluids are collected in drip pans and disposed of as hazardous waste.
☒	☐	Store, handle, and dispose of construction materials and wastes properly to prevent their contact with stormwater.
☒	☐	Contractor shall train and provide instruction to all employees and subcontractors regarding construction BMPs.
☒	☐	Control and prevent the discharge of all potential pollutants, including pavement cutting wastes, paints, concrete, petroleum products, chemicals, washwater or sediments, and non-stormwater discharges to storm drains and watercourses.

8.2 Is the project a C.3 Regulated Project? (Refer to Item 2.5.)

☒ YES. *Continue to Item 9.*

☐ NO. *Do not complete sections 9 & 10. Municipal staff may use sections 11 – 15.*

9. Include stormwater treatment measures (applies to C.3 Regulated Projects) – *MRP Provisions C.3.c.(2)(b); C.3.d.i; C.3.e.ii*

9.1 Are appropriate stormwater treatment measures included? *(Municipal staff will indicate which information is required.)*

Is Info Applicable / Required? Yes	Is Info Applicable / Required? No	Have Plans been Reviewed and Accepted? Yes	Have Plans been Reviewed and Accepted? No	Have Plans been Reviewed and Accepted? NA	Information that may be required
☐	☒	☐	☐	☒	If project is a "**Special Project**" (refer to Item 4.1) do plans show that the Special Project Criteria[11] are met? Plans reviewed by_____ Date Reviewed_____
☐	☒	☐	☐	☒	If project is a "**Special Project,**" plans may show non-LID measures hydraulically sized to treat C.3.d amount of runoff. Indicate the number of non-LID measures by type, the hydraulic sizing method[12], and percentage of project treated: Non-LID Treatment / No. of units / Hydraulic sizing method[10] / % of project treated Media filter Tree well filter Plans reviewed by_____ Date Reviewed_____
☐	☒	☐	☐	☒	Results of **LID feasibility/infeasibility analysis:**[13] Stormwater treatment of the C.3.d amount of runoff using infiltration or rainwater harvesting/use is (check one): ☐ feasible ☐ infeasible Plans reviewed by_____ Date Reviewed_____
☒	☐	☐	☐	☒	If **infeasibility** is demonstrated above, plans must show biotreatment measures hydraulically sized to treat C.3.d amount of runoff from entire project. Indicate the number of biotreatment measures by type, and the hydraulic sizing method: Biotreatment Measures / No. of units / Hydraulic sizing method[10] Bioretention area / 1 / See SWMP Report Flow-through planter / — / — Vegetated buffer strip / — / — Other (specify):_____ Plans reviewed by_____ Date Reviewed_____

9. Include stormwater treatment measures (applies to C.3 Regulated Projects) – continued

[11] Refer to the Special Projects Criteria in Appendix J of the C.3 Technical Guidance.

[12] Indicate which of the following Provision C.3.d.i hydraulic sizing methods were used. Volume based approaches: 1(a) Urban Runoff Quality Management approach, or 1(b) 80% capture (recommended volume-based approach). Flow-based approaches: 2(a) 10% of 50-year peak flow approach, 2(b) Percentile rainfall intensity approach, or 2(c) 0.2-Inch-per-hour intensity (recommended flow-based approach and basis for 4% rule of thumb). If a combination flow and volume design basis was used, indicate which flow-based and volume-based criteria were used.

[13] Refer to Feasibility/Infeasibility Criteria for Rainwater Harvesting/Use, Infiltration and Evapotranspiration (C.3 Technical Guidance Appendix I).

9.1 Are appropriate stormwater treatment measures included? -- *MRP Provisions C.3.c.(2)(b); C.3.d.i; C.3.e.ii*

Is Info Applicable / Required?		Have Plans been Reviewed and Accepted?			Information that may be required
Yes	No	Yes	No	NA	
☐	☐	☐	☐	☐	If **feasibility** is demonstrated above, plans must show LID treatment measures (non-biotreatment) hydraulically sized to treat the C.3.d amount of runoff from entire project. Indicate the number of non-biotreatment measures by type, and hydraulic sizing method:

LID Treatment Measure (non-biotreatment)	No. of units	Hydraulic sizing method[10]
Rainwater harvesting and use		
Bioinfiltration		
Infiltration trench		
Dry well		
Other (specify):_____		

Plans reviewed by_____ Date Reviewed_____

9.2 Is the project a Hydromodification Management Project? (Refer to Item 5.5.)

☒ YES. *Continue to Item 10.*

☐ NO. *Do not complete section 10. Municipal staff may use sections 11 & 12.*

10. Incorporate HM Controls (applies to HM Projects).

10.1 Is required HM Project information included? -- *MRP Provision C.3.g and Attachment E*

Is Item Required?		Is Item in Plans?			
Yes	No	Yes	No	NA	Required HM Project Information
☐	☐	☒	☐	☐	Site plans with pre- and post-project impervious surface areas, surface flow directions of entire site, locations of flow duration controls and site design measures per HM site design requirement
☐	☐	☒	☐	☐	Soils report or other site-specific document showing soil types at all parts of site
☐	☐	☒	☐	☐	If project uses the Bay Area Hydrology Model (BAHM), a list of model inputs.
☐	☐	☐	☐	☒	If project uses custom modeling, a summary of the modeling calculations with corresponding graph showing curve matching (existing, post-project, and post-project with HM controls curves), goodness of fit, and (allowable) low flow rate.
☐	☐	☐	☐	☒	If project uses the Impracticability Provision, a listing of all applicable costs and a brief description of the alternative HM project (name, location, date of start up, entity responsible for maintenance).
☐	☐	☐	☐	☒	If the project uses alternatives to the default BAHM approach or settings, a written description and rationale.

11. Stormwater Inspections of Construction Sites During the Wet Season (for municipal staff use only):

If the answer is "Yes" to either of the following questions, refer this project to construction site inspection staff, to add to their list of projects that require stormwater inspections at least monthly during the wet season (October 1 through April 30).

		Yes	No
11.1	Does the project disturb 1 acre (43,560 sq.ft.) or more of land? (See Item 1.9)	☐	☐
11.2	Is the site a High Priority Site? (See Item 1.8)	☐	☐

12. Confirm Operations and Maintenance (O&M) Submittals (for municipal staff use only):

The following questions apply to C.3 Regulated Projects and Hydromodification Management Projects.

		Yes	No	N/A
12.1	Was maintenance plan submitted?	☐	☐	☐
12.2	Was maintenance plan approved?	☐	☐	☐
12.3	Was maintenance agreement submitted? (Date executed:_____)	☐	☐	☐

12.4 Indicate the dates on which the Applicant submitted annual reports for project O&M: _____

13. Comments (for municipal staff use only):

_____

_____

_____

_____

_____

14. NOTES (for municipal staff use only):

Section 1 Notes:_____

Section 2 Notes:_____

Section 3 Notes:_____

Section 4 Notes:_____

Section 5 Notes:_____

Section 7 Notes:_____

Section 8 Notes:_____

Section 9 Notes:_____

Section 10 Notes:_____

Section 11 Notes:_____

Section 12 Notes:_____

15. Project Close-Out (for municipal staff use only):

		Yes	No	NA
15.1	Were final Conditions of Approval met?	☐	☐	
15.2	Was initial inspection of the completed treatment/HM measure(s) conducted? (Date of inspection:_____)	☐	☐	☐
15.3	Was maintenance plan submitted? (Date executed:_____)	☐	☐	☐
15.4	Was project information provided to staff responsible for O&M verification inspections? (Date provided to inspection staff:_____)	☐	☐	☐

Name of staff confirming project is closed out:_____

Signature:_____ Date:_____

Name of O&M staff receiving information:_____

Signature:_____ Date:_____

Appendices

Appendix A: O&M Agreement
Appendix B: O&M Annual Report Form

255 Shoreline Drive, Suite 200
Redwood City, CA 94065
(650) 482-6300, Fax (650) 482-6399

TECHNICAL MEMORANDUM

Date:	August 11, 2014	**BKF No.:**	20140022
To:	Gilbert Yau, City of Belmont	**Copies To:**	Jeff Smith, SRGNC
From:	Jason Yee		
Subject:	**Davey Glen – 490 El Camino Real Storm Water Management Analysis**		

Davey Glen
Preliminary Stormwater Management Analysis

INTRODUCTION

Davey Glen is a 1.8 acre site located at 490 El Camino Real on the southern corner of El Camino Real and Davey Glen Road between Belmont Avenue and Middle Road in northern Belmont. At present, the site consists of a parking lot with a one-story convenience store and two-story office building. The plan for this site is to develop a 73 unit high density residential project with two 4-story buildings and a one-story 4,990 SF retail building. To the north across Davey Glen is a retail plaza, to the east is the Caltrain tracks, to the south is a retail building, and to the west is the Ross Woods subdivision directly uphill of the project.

EXISTING CONDITION

The project consists of 80,010 square feet, 56,948 of which is impermeable building roof or asphalt parking lot. Permeable area is 23,062 square feet which includes the hillside on the west side of the project and miscellaneous landscape areas near the convenience store. See attached Figure 1. Assuming a runoff coefficient of 0.90 for impervious surfaces and 0.30 for pervious surfaces the project's average runoff coefficient is 0.73.

PROPOSED IMPROVEMENTS

The proposed project shows 60,880 square feet of impermeable surface area consisting of proposed roof and hardscape pavers and 19,130 square feet of permeable area consisting of a detention pond, pervious pavers for vehicle loading and landscape planters per the Vesting Tentative Map submittal dated 8/11/2014. See attached Figure 2. A detention pond on the west portion of the project will have a designed storage depth of 1.5' and a storage volume of 4,060 cubic feet. Assuming the same runoff coefficients for the proposed surfaces the weighted coefficient is 0.76.

STORMWATER STRATEGY

Per the geotechnical report provided by Rockridge Geotechnical dated March 20, 2014 the presence of bedrock under the project will not allow groundwater infiltration. The proposed project will intercept the drainage of the Ross Woods hillside flowing from west to east. The project proposes to accept the hillside runoff with a swale adjacent to the proposed detention pond. Existing runoff will be routed to the piped storm drain system. The impervious surface areas of the project will be collected and pumped into the detention pond. The soil media in the detention pond shall be designed for an infiltration rate of 5 in/hr and shall drian into subdrains before entering the public system. The detention pond is sized to accept 4,060 cubic feet of stormwater before an overflow condition is reached and runoff is released directly to the public system.

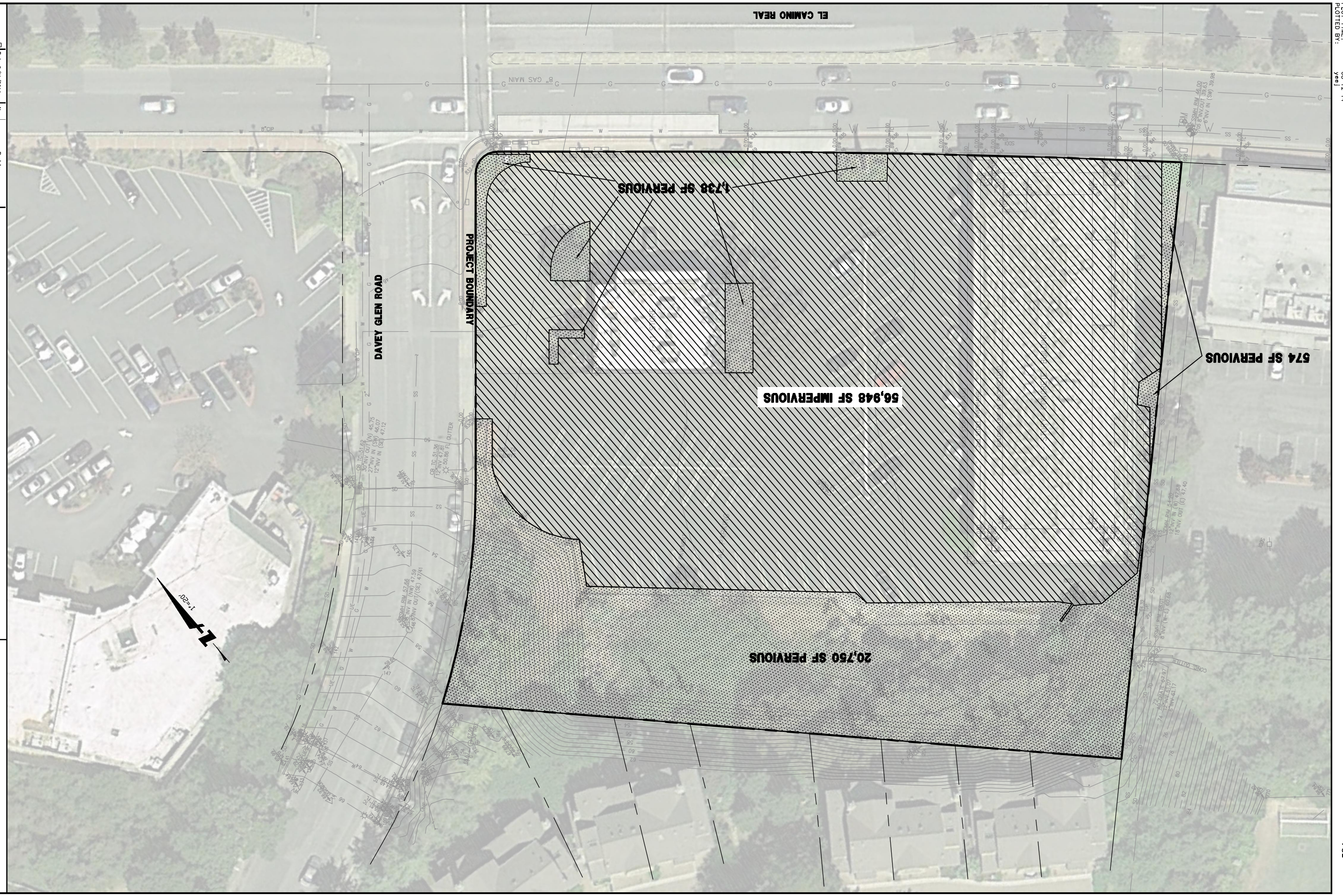
Table B shows the calculations for the treatment of stormwater. The project is designed to treat the first flush event rainfall intensity of 0.2 in/hr and will utilize a soil media that infiltrates at 5 in/hr in the detention pond. The bottom of the pond is sized to be 2,280 square feet and is calculated to fill to a level of 0.17′ (2″) above the level of soil media and take an approximate 4 hours to empty after 3.75 hours of rain.

Table C shows the runoff coefficient and storage calculations. Existing site conditions have a weighted runoff coefficient of 0.73 while the proposed condition has a weighted runoff coefficient of 0.76. For a 100-year storm event, this correlates to an increase in stormwater runoff in the proposed condition by 0.13 cubic feet per second. In order to detain the additional runoff, approximately 350 cubic feet of storage is required per the calculations taking into account a safety factor of 3 and an average time of concentration of 10 minutes.. The proposed detention basin on the west portion of the site shall provide 4,060 cubic feet of storage, satisfying the storage requirement to offset the additional runoff in the proposed condition.

ATTACHMENTS
Figure 1 – Existing Surfaces
Figure 2 – Proposed Surfaces

Table A – Stormwater Treatment Table
Table B – Stormwater Runoff and Storage Table

DRAWING NAME: K:\Eng14\140022\DWG\EXHIBITS\Storm_Report\VTN_SD_Analysis.dwg
PLOTTED: 8-12-14
PLOTTED BY: yaej



DAVEY GLEN – 490 EL CAMINO REAL
STORMWATER ANALYSIS
EXISTING SURFACES

CITY OF BELMONT SAN MATEO COUNTY CALIFORNIA

BKF
ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DR
SUITE 200
REDWOOD CITY, CA 94065
650-482-6300
650-482-6399 (FAX)

Date: 8/11/2014	No. Revisions
Scale: 1"=40'	
Design: JY	
Drawn: JY	
Approved: JM	
Job No: 2014022	

Drawing Number: FIG1

1 OF 2

© BKF ENGINEERS

© BKF ENGINEERS

DRAWING NAME: K:\Eng14\140022\DWG\EXHIBITS\Storm_Report\VTM_SD_Analysis.dwg
PLOT TIME: Oct 2-14
PLOTTED BY: yesj

BKF
ENGINEERS / SURVEYORS / PLANNERS
255 SHORELINE DR
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REDWOOD CITY, CA 94065
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DAVEY GLEN – 490 EL CAMINO REAL
STORMWATER ANALYSIS
PROPOSED SURFACES

CITY OF BELMONT
SAN MATEO COUNTY
CALIFORNIA

No.	Revisions

Date: 8/11/2014
Scale: 1"=40'
Design: JY
Drawn: JY
Approved: JM
Job No: 2014022

Drawing Number:
FIG2

TABLE A
Davey Glen - 490 El Camion Real
Calculation for Bioretention Treatment & Storage

Treatment Volume

24-hour runoff volume	0.75	inches[1]
Drainage Area for Treatment	60880	square feet
Treatment Volume	3805	cubic feet
Treatment Volume	**28,461**	gallons

[1] : from San Mateo or Alameda C3 Guidelines

Design Intensity	**0.20**	inches per hour

Treatment Flow Rate

Treatment Area	2200	square feet
Infiltration Rate	5	inches/hour
Treatment Flow Rate	917	cubic feet per hour
Treatment Flow Rate	**6857**	**gallons per hour**

Duration of Storage Fill

Treatment Volume	28461	gallons
Treatment Flow Rate, Inflow	7590	gph
Duration of Storm	**3.75**	**hours**

Volume Storage = Volume Treatment - Treatment Flow Rate * Fill Duration

Volume Treatment	**28461**	gallons
Treatment Flow Rate	6857	gallons per hour
Fill Duration	3.75	hours
	25713	**gallons**
Volume Storage =	**2749**	**gallons**
	368	**cubic feet**

Storage at Bioretention	368	cubic feet
Treatment Area	2200	square feet
Height above Planting Media	**0.17**	**feet**
Basin Empty Time	**4**	**hours**
Ratio Treatment Area to Drainage Area	3.6%	

Table B1
Davey Glen - City of Belmont
Runoff Coefficient Calculation

Table C1.1: Runoff Coefficients

Type	C-Value*
Open Area	0.30
GrassPave2	0.30
Paved Area	0.90
Roof Area	0.90

*Per RCSDC B.4

Table C1.2: Existing Runoff Coefficient Calculation

System	AREA (acres)					
	Open Area	GrassPave2	Paved Area	Roof Area	Outfall Area	Weighted C
-	0.53	0.00	1.31	0.00	1.84	0.73
Site Totals	0.53	0.00	1.31	0.00	1.84	0.73
Percent	28.8%	0.0%	71.2%	0.0%	100.0%	

Table C1.3: Proposed Runoff Coefficient Calculation

System	AREA (acres)					
	Open Area	GrassPave2	Paved Area	Roof Area	Outfall Area	Weighted C
-	0.44	0.00	1.40	0.00	1.84	0.76
Site Totals	0.44	0.00	1.40	0.00	1.84	0.76
Percent	23.9%	0.0%	76.1%	0.0%	100.0%	

Note: All impervious areas of the project site shall be routed to treatment areas.

Proposed Weighted C Calculation:
[(0.44 / 1.84) * 0.3] + [(1.40 / 1.84) * 0.9] = 0.76

Impervious Area Created or Added: 3,900 square feet removed
Impervious Area Replaced: 57,100 square feet

Table B2
Davey Glen - City of Belmont
Storage Requirement Calculation

Table C2.1: Rainfall Parameters

Duration (min)	Rainfall Intensity (in/hr) 10-year	100-year
10	1.55	2.40
20	1.20	1.70
30	0.90	1.40
60	0.62	1.00
90	0.52	0.82
120	0.45	0.71

From RCSDC Attachment G

Intensity 10-year, 10 minute, I = 1.55 in/hr
Intensity 100-year, 10 minute, I = 2.40 in/hr

Table C2.2: Existing Flows

System	Total Area (acres)	Runoff Coefficient C*	Flow, 10-Year (cfs)	Flow, 100-Year (cfs)
-	1.84	0.73	2.07	3.21
TOTAL	1.84	0.73	2.07	3.21

Table C2.3: Proposed Flows

System	Total Area (acres)	Runoff Coefficient C*	Flow, 10-Year (cfs)	Flow, 100-Year (cfs)
-	1.84	0.76	2.16	3.34
TOTAL	0.00	0.76	2.16	3.34

*See Table C1.3 for runoff coefficients

Required Detention:

Difference in existing and proposed 100-year flow, $Q_{100\text{-year}}$ = 0.13 cfs

Total Storage volume required for Detention 100-year flow, $V_{100\text{-year}}$ = 350 cf

Stormwater Storage Estimation = 3/2 x Tc (sec) x [Q_{new} - Q_{old}] (cfs) x 3 (Safety Factor)

G. NOISE

1. Illingworth & Rodkin, Inc. 2014. *Environmental Noise Feasibility Assessment Davey Glen Project, Belmont, CA.*

2. Illingworth & Rodkin, Inc. 2015. *Response to City Comments on Environmental Noise Feasibility Assessment Davey Glen Project, Belmont, CA.*

ILLINGWORTH & RODKIN, INC.
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August 25, 2014

Mr. Jeff Smith, Vice President
Saris | Regis Homes
901 Mariners Island Blvd. #700
San Mateo, CA. 94404
Via email: jsmith@srgnc.com

SUBJECT: Environmental Noise Feasibility Assessment
Davey Glen Project, Belmont, CA

Dear Mr. Smith:
The following letter-report contains Illingworth & Rodkin, Inc. (I&R) preliminary review of noise issues associated with the proposed mixed use residential development currently identified as the Davey Glen project at 490 El Camino Real on a 1.4-acre site at the southeast corner of El Camino Real and Davey Glen Road, with a residential development to the west and commercial buildings to the south of the site. The project is currently proposing 73 residential units and 5000 square feet of commercial use over subgrade parking. Issues related to community noise associated with this project include the compatibility of the proposed residential and commercial/retail land uses with the noise environment at the site resulting from vehicular traffic on adjacent roadways and rail traffic.

SUMMARY OF FINDINGS

The results of this review indicate that commercial and residential development would be compatible with the site. Residential uses adjacent to El Camino Real would, however, likely require the use of sound rated windows and doors. Mechanical ventilation systems at these, and all other residential units on the site, is also expected to be needed.

APPLICABLE NOISE CRITERIA

The State of California and the City of Belmont establish guidelines, regulations, and policies designed to limit noise exposure at noise sensitive land uses which are relevant to this feasibility study:

California Building Code, Title 24, Part 2, The State of California establishes exterior sound transmission control standards for new residential dwellings other than detached single-family dwellings. Interior noise levels attributable to exterior environmental noise sources shall not exceed 45 dBA L_{dn} in any habitable room. When exterior noise levels (the higher of existing or future) where residential structures are to be located exceed 60 dBA L_{dn}, a report must be

submitted with the building plans describing the noise control measures that have been incorporated into the design of the project to meet the noise limit.

California Building Code, Green Building Standards, Title 24, Part 11, The Green Building Standards establish mandatory exterior sound transmission control standards for such new non-residential buildings by prescriptive or performance type standards.

The prescriptive method requires that wall and roof-ceiling assemblies exposed to the noise source making up the building envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in areas exposed to a CNEL or L_{dn} of 65 dBA or greater.

The performance method requires that wall and roof-ceiling assemblies exposed to the noise source making up the building envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq}-1Hr) of 50 dBA in occupied areas during any hour of operation.

City of Belmont General Plan Noise Element. The Noise Element of the City of Belmont's General Plan establishes goals, policies, and standards for evaluating the compatibility of residential land uses with the onsite noise environment. The Noise Element states that the exterior noise levels normally acceptable up to 65 dBA L_{dn}, conditionally acceptable up to 70 dBA L_{dn}, normally unacceptable between an of 70 and 80 dBA L_{dn}, and unacceptable where noise levels exceed 80 dBA L_{dn}. Goals and policies of the Noise element relevant to this analysis are presented below:

2a. No land use shall be approved in an area where the noise level renders the use clearly unacceptable.
2b. If the noise level renders a proposed use conditionally acceptable or normally unacceptable, an acoustical study shall be undertaken and noise mitigation measures required, as necessary, to reduce the noise to normally acceptable levels for the use.
2c. Unless mitigation can be assured, no land use should be approved when the noise level renders the use normally unacceptable.

ESTIMATED EXISTING AND FUTURE NOISE ENVIRONMENT

The project site is located on a 1.4-acre site at the southeast corner of El Camino Real and Davey Glen Road, with a residential development to the west and commercial buildings to the south of the site. Traffic noise from El Camino Real and rail noise from the more distant Caltrain Line are the primary noise sources on the project site. The project proposes to build three and four stories of residential uses over subgrade parking and fitness/management office space and at grade commercial/retail space on subgrade parking. The commercial/retail space is proposed at the corner of El Camino Real and Davey Glen Road, and the three and four story of residential uses would be located on the southern and western perimeter of the site, with at grade parking and a landscaped courtyard for the residential uses in the central portion of the site. Common outdoor use areas would be provided in the western portion of the site shielded from El Camino Real and adjacent to the residential uses to the west. The schematic layout of the first and upper project levels of the project are shown in Figure 1.

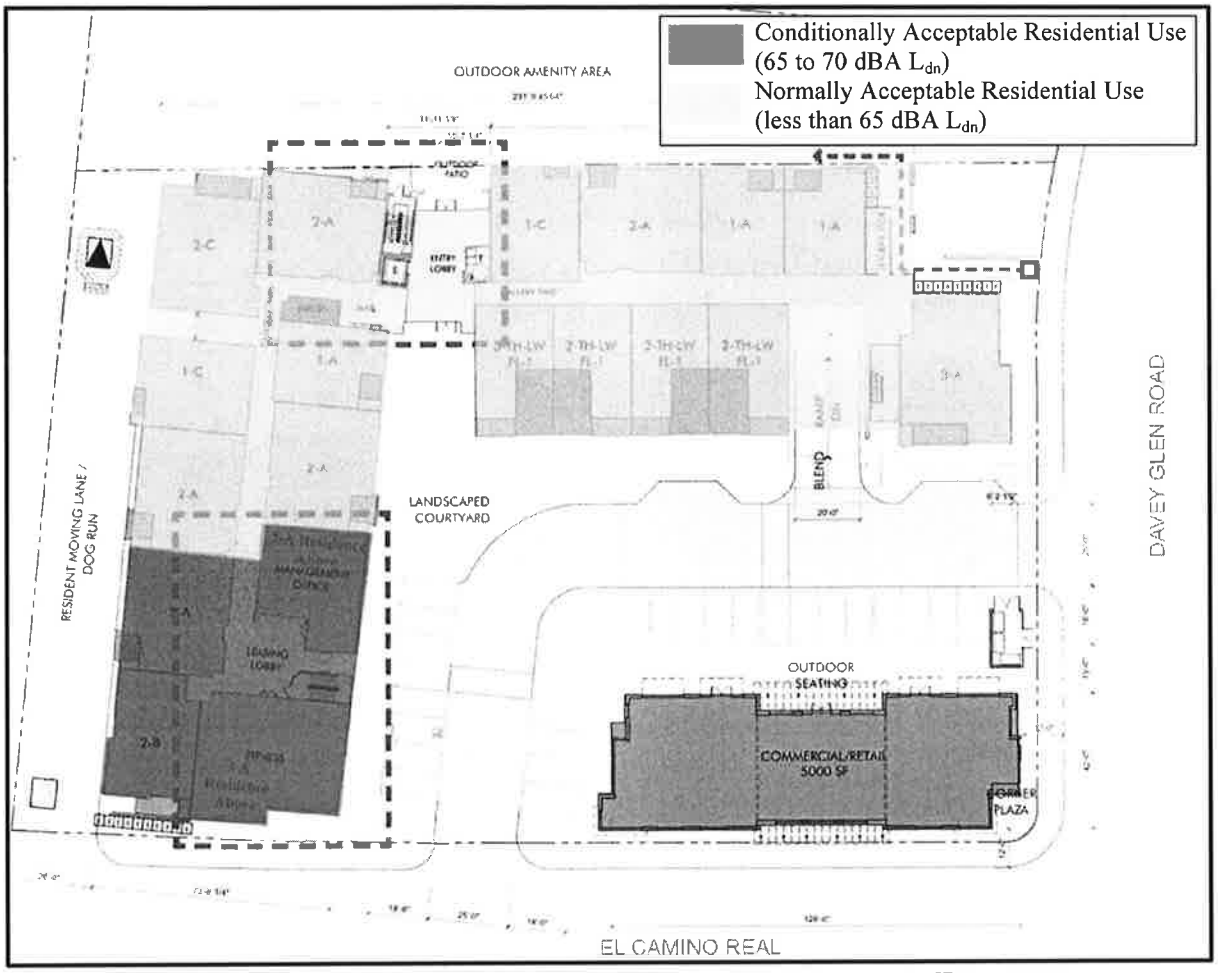

FIGURE 1: CONCEPTUAL SITE PLANS WITH ESTIMATED NOISE EXPOSURE

The closest residential and commercial units to El Camino Real would be about 60 to 65 feet from the roadway centerline and 175 to 180 feet from the centerline of near Caltrain rail line. Based on a review of measurement data from I&R's files, we would estimate unshielded noise levels from El Camino Real traffic at this setback to be about 69 dBA L_{dn}, with noise levels due to Caltrain passbys to at this setback to be about 63 dBA, for a total estimated sound level due to the combined roadway and rail noise sources at the most nose affected residential units of 70 dBA L_{dn}.

Noise levels at the facades of the residential units further removed from El Camino Real and the Caltrain line are expected to be lower due to greater distance from these noise sources and the acoustical attenuation from intervening building structures. Using this type of analysis, noise levels at the facades of the residential units on the building parallel to and further removed from El Camino Real and the Caltrain line would be 65 dBA L_{dn} or less.
Noise levels at the facades of residences perpendicular to El Camino Real at the setback of the parallel building are expected to be exposed to noise levels of between 60 and 65 dBA L_{dn} and those facing away from El Camino Real are expected to be exposed to noise levels of 60 dBA L_{dn} or less (See Figure 1).

The project also designates open space in the area at the western portion of the site protected from El Camino Real noise and adjacent to the residential uses to the west. This area would be acoustically shielded from El Camino Real/Caltrain noise by intervening buildings and thus is expected to be exposed to a noise level of 60 dBA L_{dn} or less.

DETERMINATION OF SITE ACCEPTABILITY

Residential Use

Our review of expected environmental noise exposure at the site shows that the residential units on the of the site adjacent to El Camino Real, are expected to be exposed to an L_{dn} of 70 dBA, that other residences on the site would be exposed to an Ldn of between 65 to 70 dBA L_{dn}, and that other residential units on the site , which are expected to receive noise shielding from intervening buildings and/or distance attenuation, would be exposed to L_{dn} levels of 65 dBA L_{dn} or less. The designated project open space would also be exposed an L_{dn} of 60 dBA or less due to shielding from intervening buildings.

Based on these findings, the noise environment at the residential units closest to adjacent to El Camino Real would be considered "Conditionally Acceptable" for residential use by the City of Belmont General Plan, while other residences on the site would be considered "Normal Acceptable" for residential use by the City of Belmont General Plan. The proposed outdoor use on the site would also expected to be considered "normally acceptable" by the City's noise land use compatibility standards.

The "Conditionally Acceptable" portions of the project are expected to require sound rated windows and exterior doors on facades facing or perpendicular to El Camino Real and mechanical ventilation throughout to provide a habitable interior environment with windows closed for the purpose of noise control. Window and door sound isolation ratings for these units are expected to be in the 28 to 32 STC range.

The "Normal Acceptable" portions of the site are not expected to require any noise mitigation measures to meet General Plan standards, however to meet the State Building Code interior noise limit of 45 dBA L_{dn}, these units will also likely require mechanical ventilation to provide a habitable interior environment with windows closed for the purpose of noise control, but would not be expected to need sound rated windows with the use of standard, thermal insulating, windows.

In terms of the need for mechanical ventilation, in our experience a standard central air conditioning system or a central heating system equipped with a 'summer switch', which allows the fan to circulate air without furnace operation in each residence would provide a habitable interior environment.

Commercial Retail Uses

Based on the expected noise exposure at the projects El Camino Real frontage of 70 dBA L_{dn}, mandatory exterior sound transmission controls, as established by the CALGreen Building Code, would be needed. Standard retail and commercial construction normally provides 30 dBA of noise reduction in interior spaces. Considering this average noise reduction and the measured

relationship of peak hour to L_{dn} noise levels of peak hour $L_{eq} = L_{dn}+3dB$, the peak hour L_{eq} interior noise levels within commercial spaces facing El Camino Real would be about 43 dBA. These interior noise levels would meet the 50 dBA L_{eq} Green Building Code using the performance method, therefore the commercial uses would generally be compatible on the site without the need for mitigation.

This concludes Illingworth & Rodkin, Inc. (I&R) screening review of noise for the proposed mixed use residential development currently identified as the Davey Glen project at 490 El Camino Real in Belmont, CA. Please do not hesitate to call with any questions or concerns,

Sincerely,

Fred M. Svinth, INCE, Assoc., AIA
Senior Consultant, Principal
Illingworth & Rodkin, Inc.

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January 7, 2015

Mr. Jeff Smith, Vice President
Saris | Regis Homes
901 Mariners Island Blvd. #700
San Mateo, CA. 94404
Via email: jsmith@srgnc.com

SUBJECT: Response to City Comments on Environmental Noise Feasibility Assessment Davey Glen Project, Belmont, CA

Dear Mr. Smith:
The following letter contains Illingworth & Rodkin, Inc. (I&R) response to relevant comments and requests by the M-Group (acting for the City) for additional information regarding noise and vibration issues at the Davey Glen project in Belmont California. However, first, it should we would note that the Noise Assessment was a feasibility assessment for the noise at the site, and that vibration and construction issues were not intended to be addressed at that stage on analysis. Given that understanding, I&R presents the following information and responses to the City comments:

Comment 1: There was no evaluation on vibration from Caltrain:

Response 1:
The closest residential and commercial units to El Camino Real would be about 175 to 180 feet from the centerline of near Caltrain rail line. Based on measurements conducted by I&R along the Caltrain line and other commuter rail corridors in the Bay Area, the setback to the 72 VdB contour from Caltrain operations is 100 feet from the center of the near track. Using the Federal Transit Administration (FTA) methodology for determining vibration attenuation with distance, vibration levels at the nearest residential units would be 67 VdB. This level would be below the Vibration impact criteria for maximum overall levels for a single event proposed by the FTA of 72 VdB for frequent events (more than 70 events per day), and thus vibration from Caltrain operations would not be expected to impact the residential use of the site.

Comment 2: There was no evaluation on vibration from construction:

Response 2:
Construction activities would include site preparation work such as grading and the installation of utilities, foundation work, and new building framing. Construction techniques that generate the highest vibration levels, such as impact or vibratory pile driving, may be required at this project. Pile driving can produce Peak Particle Velocity (PPV) levels of 0.6 in/sec (typical) to 1.1 in/sec (upper range) at 25 feet. For structural damage, the California Department of Transportation uses vibration limits of 0.5 in/sec PPV for structurally sound buildings, 0.3 in/sec

PPV for older residential dwellings, and considers a level of 0.1 in/sec PPV to represent virtually no risk of damage to normal buildings.

Pile driving would generally occur at distances of 100 feet or more from the nearest existing residential uses. Considering typical ground attenuation rates the PPV levels from pile driving would 0.15 in/sec (typical) to 0.29 in/sec (upper range) at the nearest existing residential uses. This level of vibration would, therefore, not be expected to result in any structural damage to normal buildings.

Comment 3: There was no evaluation of the impacts from the High Speed Rail operation or vibration:

Response 3:

High Speed Rail Noise[1]

Noise from the high-speed trains is are anticipated to be 74 dBA L_{dn} at 50 feet from the tracks, resulting in noise levels of about 66 dBA L_{dn} at nearest adjacent residences.

This level would be below that produced by existing Cal Train operations at these facades, and would not be expected to significantly increase the L_{dn} levels at the nearest adjacent residences.

High Speed Rail Vibration[1]

According to the Federal Railroad Administration's High-Speed Ground Transportation Noise and Vibration Impact Assessment, steel-wheel at grade high-speed train traveling 125 mph generates a vibration level of approximately 81 VdB at 50 feet from the center of the tracks. Using the FRA methodology for determining vibration attenuation with distance, vibration levels at the nearest residential units will be approximately 71 VdB if the train is traveling at grade. This vibration level would be lower if the high speed rail line is elevated.

These levels would be below the Vibration impact criteria for maximum overall levels for a single event proposed by the FTA of 72 VdB for frequent events (more than 70 events per day), and thus vibration from High Speed Rail operations would not be expected to impact the residential use of the site.

This concludes Illingworth & Rodkin, Inc. (I&R) response to relevant comments and requests regarding noise and vibration issues at the Davey Glen project in Belmont California. Please do not hesitate to call with any questions or concerns.

Sincerely,

Fred M. Svinth, INCE, Assoc., AIA
Senior Consultant, Principal
Illingworth & Rodkin, Inc.

[1] For a conservative analysis, the High Speed Rail line is assumed to be located at ground level just west of the near Caltrain rail line or about 160 feet from the nearest residential units.

H. TRANSPORTATION/TRAFFIC

Fehr & Peers. 2015. *400- 490 El Camino Real Transportation Assessment.* February 26, 2015.

FEHR PEERS

MEMORANDUM

Date: February 26, 2015

To: Jeff Smith, Sares-Regis

From: Mike Hawkins and Jane Bierstedt, Fehr & Peers

Subject: 400 - 490 El Camino Real Transportation Assessment

SF14-0732

This memorandum presents the results of the transportation assessment for the proposed redevelopment of 490 El Camino Real (project), including the project description, project trip generation, intersection impact analysis, and site plan review.

Based on this assessment, the project is estimated to generate up to 80 net new vehicle trips during the peak hour and no significant impacts to intersection operations were identified. Site plan recommendations are provided.

PROJECT CHARACTERISTICS

This section includes a detailed project description and the forecasted trip generation, distribution, and assignment for project trips.

Project Description

The project site is located at 400 and 490 El Camino Real, in the City of Belmont. The approximately 1.8-acre site, as shown on **Figure 1** (all figures are attached at the end of this document), is currently occupied by 14,000 square feet of office space and a 2,400-square foot convenience store. The proposed project includes up to 73 residential units (28 one-bedroom, 28 two-bedroom, three two-bedroom/live-work, 13 three-bedroom, and one three-bedroom/live-work units). The project also includes 5,000 square feet of retail space and several resident amenity areas, including a fitness center, leasing center/office, and a community room. Although the retail space is not yet leased, retail uses for this study were assumed to include a restaurant, coffee shop, and bank to represent a reasonable worst-case scenario due to the high trip generating potential of these land uses. Existing and proposed land uses are summarized in **Table 1**. The housing units would be designated as either luxury condominiums or rental units.

TABLE 1
LAND USE SUMMARY

Land Use	Units[1]	ITE LU[2]
Existing (to be removed)		
Commercial Office Space	14 KSF	710
Convenience Store	2.4 KSF	851
Proposed Project		
Luxury Apartments	73 DU	233
Restaurant	2 KSF	932
Coffee Shop	1.5 KSF	936
Bank	1.5 KSF	911

Notes:
1. DU = dwelling units; KSF = thousand square feet
2. Based on Institute of Transportation Engineers (ITE) *Trip Generation Manual* (9th Edition)

Source: Fehr & Peers, 2015

A parking garage would be constructed with the project and provides 137 parking spaces for residents and guests. In addition to garage parking, 24 surface spaces are proposed to serve retail employees and customers and the leasing office.

Vehicular access to the site would be provided via driveways on El Camino Real and Davey Glen Road. The El Camino Real driveway would provide right-in/right-out access only, while the driveway on Davey Glen would accommodate all turning movements. A conceptual project site plan is shown on **Figure 3**.

The project site is located within 500 feet of several SamTrans bus lines (ECR, 397, 398, KX, 62, 68). The site is also located approximately one-half mile from the Belmont Caltrain station.

Trip Generation

Trip generation refers to the process of estimating the amount of vehicular traffic a project might add to the local roadway network. In addition to estimates of daily traffic, estimates for the peak

one-hour periods during the weekday morning (AM) and evening (PM) commute hours, when traffic volumes on adjacent streets are typically at their highest, are also created.

The trip generation estimates for the proposed project were based on average rates published in *Trip Generation Manual, 9th Edition* (Institute of Transportation Engineers, 2012). This document contains data based on surveys conducted in the United States over the past few decades for various land use types. ITE rates typically represent conservative rates for developments that include a mix of land uses such as are proposed by the project and are located near transit stations.

The estimated trip generation for the proposed project is summarized in **Table 2**. Trips associated with the existing uses were also estimated and subtracted from new project trips to obtain net new project trips.

The project is expected to generate 748 additional weekday daily vehicle trips as compared to the existing land use, including 80 more morning peak hour and 51 more evening peak hour trips. There are a number of factors that could reduce the overall number of trips made by vehicles to/from this site, including the potential for internal trips such as a resident stopping by the bank or coffee shop on their way home. A number of trips could also be expected to be walk/bike trips or transit trips to the nearby Caltrain station (0.60 miles) or various SamTrans routes (<0.10 miles). A number of trips could also be coming from the nearby retail center (Belmont Plaza) located across Davey Glen Road from the project site (<0.10 miles). In order to represent a more conservative analysis, no trip reductions for internalization or walk/bike/transit were accounted for in our analysis of the proposed project. However, for the retail uses, some of the trips could already be on the surrounding roadway system and would represent an interim stop on an already planned trip (pass-by trips). A 50 percent pass-by reduction was applied to the restaurant, coffee shop, and bank trips only.

TABLE 2
TRIP GENERATION ESTIMATES

Use	Size	Weekday						
		Daily	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Residential[1]	73 Units	490	15	26	41	37	17	54
Restaurant[2]	2,000 square feet	250	12	10	22	12	8	20
Coffee Shop[3]	1,500 square feet	1,230	83	80	163	31	30	61
Bank[4]	1,500 square feet	220	10	8	18	8	10	18
Retail Pass-by reduction (50%)[5]		-850	-53	-49	-102	-26	-24	-50
Total Trip Generation		*1,340*	*68*	*75*	*142*	*62*	*41*	*104*
Less Existing Trips (to be removed)								
Office[6]	14,000 Square Feet	150	19	3	22	4	17	21
Convenience Store[7]	2,400 Square Feet	1,770	81	80	161	64	62	126
Convenience Store Pass-by reduction (75%)[5]		-1,328	-61	-60	-121	-48	-47	-95
Total Trips to be Removed		*593*	*39*	*23*	*62*	*20*	*33*	*53*
Net New Vehicle Trips		***748***	***28***	***52***	***80***	***42***	***9***	***51***

Notes:
1. Based on Trip Generation Manual (9th Edition) trip generation rates for land use 233, Luxury Condo/Townhouse
2. Based on Trip Generation Manual (9th Edition) trip generation rates for land use 932, High Turnover Restaurant (Sit-Down)
3. Based on Trip Generation Manual (9th Edition) trip generation rates for land use 936, Coffee Shop (Without Drive-Through)
4. Based on Trip Generation Manual (9th Edition) trip generation rates for land use 911, Bank (Walk-In)
5. Pass-by rates based on Trip Generation Handbook (3rd Edition)
6. Based on Trip Generation Manual (9th Edition) trip generation rates for land use 710, General Office
7. Based on Trip Generation Manual (9th Edition) trip generation rates for land use 851, Convenience Store

Source: Fehr & Peers, 2015

Trip Distribution and Assignment

For all vehicle trips associated with the proposed project, the directions of approach and departure were based on experience with similar projects on the Peninsula, existing travel

patterns, and engineering judgment. The general directions of approach and departure are shown in **Figure 1**.

The project trips were assigned to the roadway system based on the directions of approach and departure discussed above. **Figure 2** shows the number of net new project trips assigned to each turning movement at the study intersections.

INTERSECTION ANALYSIS

Project impacts to the study intersections were determined by measuring the effect the additional traffic that the project would generate would have on intersection operations in the vicinity of the site during the weekday morning (7:00 to 9:00 AM) and weekday evening (4:00 to 6:00 PM) peak periods. The weekday peak periods were chosen for analysis because these are typically the periods with highest adjacent roadway traffic and highest trip generation potential. The intersections of Davey Glen Road / El Camino Real and Ralston Road / El Camino Real, shown on **Figure 1**, were selected based on a review of the project location, and the amount of traffic that would be added to the roadway network in the vicinity of the site.

For this study, the following scenarios were evaluated:

- ***Existing*** – Existing (2014) conditions based on recent traffic counts
- ***Existing Plus Project*** – Existing (2014) conditions plus project-related traffic
- ***Cumulative Without Project*** – Future (2018) forecast conditions, which considers local traffic growth
- ***Cumulative Plus Project*** – Future (2018) forecast conditions plus project-related traffic

Impact Criteria

The *City of Belmont Guidelines for Traffic Impact Studies* includes traffic level of service standards for signalized and unsignalized intersections. The *Guidelines for Traffic Impact Studies* defines a series of significant impact thresholds for signalized intersections based on Level of Service (LOS) and a combination of increases in control delay and the demand to capacity (V/C) ratio, which are summarized in **Table 3**.

TABLE 3 CITY OF BELMONT SIGNALIZED INTERSECTION SIGNIFICANCE CRITERIA

If the existing or Base Case (without project) LOS is:	Then the existing control delay is:[1]	The project impact is considered significant if the increase in control delay associated with the project is:	And the demand to capacity ratio (V/C) increases by more than :
A	10 seconds or less	10 seconds	0.02
B	10.1 to 20 seconds	10 seconds	0.02
C	20.1 to 35 seconds	7.5 seconds	0.02
D	35.1 to 55 seconds	4 seconds	0.01
E	55.1 to 80 seconds	4 seconds (or 35 vehicle trips[2])	0.01
F	Greater than 80	4 seconds (or 20 vehicle trips[2])	0.01

Source: City of Belmont Guidelines for Traffic Impact Studies (May 2012)
Notes:

1. As defined in the Highway Capacity Manual 2000 (Transportation Research Board, 2000).
2. Signalized Intersections: If the addition of project traffic results in a reduction (rather than an increase) in intersection control delay, evaluation should then consider significant if 35 or more project vehicle trips are added to an intersection operating at LOS E, or 20 or more project vehicle trips are added to an intersection operating at LOS F.

Existing Conditions

Weekday morning (7:00 to 9:00 AM) and evening (4:00 to 6:00 PM) peak period intersection turning movement counts were conducted midweek at the study intersections in December 2013 and March 2014, including counts of pedestrians and bicyclists. For the study intersections, the single hour with the highest traffic volumes during the count periods was identified. Pedestrian and bicycle volumes are generally low in the study area. The counts generally indicated between zero and 39 pedestrian crossings per hour at study intersection crosswalks. Bicycle volumes were also low, ranging from one to nine bicyclists per movement at the study intersections. Peak hour vehicle volumes are presented on **Figure 2**. The detailed traffic counts are provided in **Attachment A**.

Existing intersection operations were evaluated for the weekday AM and PM peak hours using the Highway Capacity Manual (HCM) 2000 methodology; the results are summarized in **Table 4**. The analysis was based on the existing peak hour volumes, lane configurations and traffic control.

As shown in **Table 4**, the intersection of Davey Glen Road / El Camino Real operates at LOS A during the AM and PM peak periods. The intersection of Ralston Road / El Camino Real operates near capacity at LOS E in both the AM and PM peak hours under existing conditions. This is primarily due to high through volumes on El Camino Real and high conflicting left-turn volumes at the intersection. Detailed intersection LOS calculation worksheets are presented in **Attachment A**.

Existing Plus Project Conditions

The project traffic volumes were added to the existing peak hour traffic volumes to estimate the Existing Plus Project peak hour traffic volumes, also shown on **Figure 2**.

The Existing Plus Project intersection analysis results are presented in **Table 4**, based on the projected traffic volumes. **Table 4** also includes the operations results for the Existing conditions as a comparison. The study intersections would continue to operate at the same levels of service with the addition of project traffic; the project would not cause a significant impact at either intersection based on Belmont's *Guidelines for Traffic Impact Studies* significance criteria.

TABLE 4
EXISTING AND EXISTING PLUS PROJECT INTERSECTION LEVEL OF SERVICE

Intersection	Control	Peak Hour	Existing		Existing Plus Project		Increase in Delay	Increase in V/C
			Delay[1]	LOS[1]	Delay[1]	LOS[1]		
1. Davey Glen Road / El Camino Real	Signal	AM	8.1	A	8.9	A	0.8	0.02
		PM	7.5	A	8.1	A	0.6	0.01
2. Ralston Road / El Camino Real	Signal	AM	**56.6**	**E**	**59.0**	**E**	2.4	0.01
		PM	**62.4**	**E**	**62.9**	**E**	0.5	0.01

Notes:
1. Traffic operations results include delay (seconds per vehicle) and LOS (level of service). LOS is based on delay thresholds published in the Highway Capacity Manual 2000 (Transportation Research Board, 2000).
Bold denotes unacceptable level of service.

Source: Fehr & Peers, 2015

Cumulative Conditions

The Cumulative scenario presented here represents year 2018 forecasts, which include completion of other approved and pending development projects in the area and additional growth consistent with the C/CAG forecasts. Year 2018 represents a reasonable Cumulative baseline scenario. It represents a timeline that would likely see all pending/approved projects (including

the proposed project) to be completed and occupied. A scenario reflecting conditions beyond the year 2018 may deemphasize the contribution of project trips and potential project impacts, because of significant growth around the project site.

Year 2035 traffic forecasts were developed for the US 101/Holly Street Interchange Project Approval and Environmental Document and included land use changes (consistent with ABAG *Projections 2011*) and funded regional transportation projects. While there were no major roadway improvements in the immediate project vicinity there is a significant amount of land use growth in the area. Therefore growth factors were developed by comparing the 2035 forecasts to the base year forecasts and applied to the existing volumes to determine the additional growth to 2018. The details of approved and pending projects in the project area were provided by City of Belmont staff, which included location, proposed land use type(s), and size. The trip distributions for these projects were developed based on the characteristics of the projects and local knowledge of the area. Trip generation and distribution details for pending projects are included in **Attachment A**. The trip assignment from the City's list of pending and approved projects was added to intersection turning movement volumes developed by applying the appropriate growth factors to the existing volumes to form the Cumulative Without Project forecasts.

The resulting Cumulative Without Project forecasts are presented on **Figure 2**. The peak hour project volumes were added to the Cumulative Without Project traffic volumes to determine cumulative traffic volumes with the proposed project, also presented on **Figure 2**.

The Cumulative Without and With Project conditions intersection analysis results are presented in **Table 5**. In the Cumulative Without Project condition, the intersection of Davey Glen Road / El Camino Real is expected to continue to operate at an acceptable LOS A during both peak hours. The intersection of Ralston Road / El Camino Real is expected to operate slightly worse than under existing conditions; it is projected to operate over capacity at LOS F in both the AM and PM peak hours.

With the addition of project traffic, the average delay would increase slightly at both study intersections, but they would continue to operate at the same LOS when compared to the Cumulative Without Project scenario during both peak hours. In addition, neither intersection would experience an increase in control delay beyond the significance criteria thresholds established by City of Belmont policy. All detailed intersection LOS calculation worksheets are presented in **Attachment A**.

TABLE 5
CUMULATIVE AND CUMULATIVE PLUS PROJECT INTERSECTION LEVEL OF SERVICE

Intersection	Control	Peak Hour	Cumulative		Cumulative Plus Project		Increase in Delay	Increase in V/C
			Delay[1]	LOS[1]	Delay[1]	LOS[1]		
1. Davey Glen Road / El Camino Real	Signal	AM	8.2	A	9.0	A	0.8	0.03
		PM	7.6	A	8.1	A	0.5	0.01
2. Ralston Road / El Camino Real	Signal	AM	**87.9**	**F**	**90.9**	**F**	3.0	0.01
		PM	**80.9**	**F**	**82.5**	**F**	1.6	0.02

Notes:
1. Traffic operations results include delay (seconds per vehicle) and LOS (level of service). LOS is based on delay thresholds published in the Highway Capacity Manual 2000 (Transportation Research Board, 2000).
Bold denotes unacceptable level of service.

Source: Fehr & Peers, 2015

Although neither intersection would require mitigation as part of a CEQA impact, there are some improvements that could be considered to improve operations for pedestrians and vehicles at the study intersections:

Davey Glen Road / El Camino Real

- Update wheelchair ramps to current ADA standards on west side of El Camino Real

Ralston Road / El Camino Real

- Optimize signal timing to better serve future volumes[1]

Since El Camino Real is a state highway (under Caltrans jurisdiction), any changes to the study intersections would require coordination with and approval by Caltrans.

SITE ACCESS, CIRCULATION AND PARKING

This section discusses site access and internal circulation for vehicles, pedestrians, bicycles, loading vehicles, and emergency vehicles based on the site plan provided. A parking assessment was also conducted. Site plan recommendations are shown on **Figure 3a** and **3b**.

[1] Current signal timing may be optimized for the most efficient traffic flow based on existing volumes. In the future, volumes will change with the addition of the proposed project plus other approved/pending projects. Therefore the signal timing should be re-optimized to better serve future volumes.

Vehicle Access and Circulation

Vehicle access to the site would be provided from two driveways – one on Davey Glen Road, allowing all movements into and out of the driveway, and the other on El Camino Real, allowing right-in and right-out movements only. The proposed driveways are located very close to the existing driveways on the site, and will continue to operate in a similar manner. The driveways are connected by the parking aisle which allows access to the surface parking spaces for commercial uses and the ramp to the underground parking garage for residential use. The ramp is within a typical range for vehicular ramps in similar high density residential projects according to the project architect. However, the turning radii at the bottom of the ramp are tight and a civil engineer should check the garage ramp design on the construction drawings to ensure that passenger vehicles can make the turns. There is a passenger drop off area adjacent to the landscaped courtyard which allows access to the entry lobby.

City of Belmont Zoning Ordinance 8.3.2(a) requires that access to off-street parking at the street property line not be more than 25 lineal feet in width. The proposed project site plan specifies 25-foot wide driveways at the street property line at both El Camino Real and Davey Glen Road, which meets the ordinance requirement.

Using the standards from the American Association of State Highway and Transportation Officials' (AASHTO) *A Policy on Geometric Design of Highways and Streets (2001),* both driveways have sufficient sight distance for vehicles making right turns out of the project site onto the main roads. For left turns out of the driveway at Davey Glen Road, the minimum sight distance is not met due to the proximity of the T-intersection of Davey Glen Road and El Camino Real. However, drivers would have full view of the intersection as long as there are no vehicles queued up at the eastbound approach. The existing peak hour 95th percentile queue at this location is less than 100 feet and was not observed to regularly block the current driveway, nor is it expected to with the addition of the project. However, if there are vehicles queued, the view of the intersection may be blocked, creating a hazardous condition when making a left turn out of the driveway.

> **Site Plan Recommendation 1:** Continue to monitor eastbound queues on Davey Glen Road at El Camino Real to ensure project driveway is not regularly blocked. If queue lengths increase, consider working with the City to install "Keep Clear" or "Do Not Block" markings on the eastbound lanes of Davey Glen Road in front of the driveway. With "Keep Clear" markings, even if queues on Davey Glen extend beyond the project driveway, vehicles exiting the driveway would have adequate sight distance to safely turn left.

Parking stalls on both the surface lot and underground garage are set to the uniform width of 8.5 feet and length of 18 feet, meeting the requirements set forth in City of Belmont Zoning Ordinance 8.3.1(a). The parking aisles in both areas are designed to be 26 feet wide, meeting the minimum aisle width outlined in Zoning Ordinance 8.3.1(d) for a two-way aisle and 90 degree angle parking.

On the surface lot, the two spaces closest to El Camino Real and the parking space closest to Davey Glen Road are located close to the driveway entrances. There may be a conflict with an incoming driver while a driver is leaving one of these spaces or waiting for one of these spaces. Incoming drivers may block the sidewalk and create conflict with pedestrians or cause queue spillback onto the main road. A revised site plan has been developed that moves these parking spaces farther from the driveway, reducing the potential conflict. However this change is not incorporated into **Figure 3**.

> **Site Plan Recommendation 2:** Consider moving the two surface parking spaces closest to El Camino Real and the one 90 degree parking space closest to Davey Glen Road as far from the driveways as feasible to provide a buffer for incoming vehicles and vehicles performing parking maneuvers in these spaces.

If parking stalls are acquired on a first-come first-served basis, drivers of vehicles in the tandem spaces may find their vehicles blocked in by another parker. The tandem parking space couplets should be assigned to the same unit. The drivers using the two spaces would coordinate amongst themselves to access the inner vehicle. Additionally, the dead end drive aisles will create a need for turnarounds if drivers are circling while searching for parking. To eliminate this possibility, all residential parking spaces should be assigned. Additionally, to attract residents with fewer vehicles and/or encourage residents to own one vehicle (or less) per unit, the project should consider unbundling parking.

> **Site Plan Recommendation 3:** Unbundle parking and assign all parking spaces to specific units and the tandem parking space couplets to the same unit.

Pedestrian Access and Circulation

With the exception of the two driveway curb cuts, there are continuous sidewalks along Davey Glen Road and El Camino Real that allow pedestrian access to the project site. Within the project site, there are continuous sidewalks bordering the commercial building and the residential building on both sides of the surface parking area. There is a landscaped courtyard that connects the passenger drop off area to the entry lobby of the residential building. Additionally, there are

two crosswalks provided to facilitate walking across the parking aisle between the commercial and residential buildings. The site plan allows for adequate pedestrian access and circulation within the proposed project.

The underground garage has two stairwells and one elevator that allow access to the main floor of the residential building.

Bicycle Access and Circulation

The project site plan does not identify an area for bike storage in the underground garage level, nor does it specify the number of spaces provided. Bike storage located in an underground parking garage is an excellent way to provide long-term secured bike storage for residents or employees. Bicyclists may prefer to use the vehicular ramp rather than the stairs to access the storage area. This may create an unsafe environment for cyclists, as the ramp may be too narrow to simultaneously accommodate an incoming vehicle, outgoing vehicle, and a bicyclist. The grade of the ramp may also create some conflict, as uphill cyclists typically move slower and require more lateral space.

> **Site Plan Recommendation 4:** Designate and specify the capacity of an underground bicycle storage area. Consider widening the nearest stairwell to accommodate bicycle portaging. Consider locating bicycle storage area near the elevator.

The project site plan shows a designated bike parking facility at ground level in the northwest corner of the site. However, no bike parking is provided near the entrances to retail uses. Ground level bike parking is typically used for short-term parking for retail customers or residential visitors.

> **Site Plan Recommendation 5:** Provide short-term bicycle parking facilities (e.g. bike racks) at ground level to serve the retail uses. Ground level bike parking should be located close to the entrance for the retail uses.

Transit Access

There are two bus stops on El Camino Real that serve the proposed project. For travel in the southbound direction, the bus stop is directly in front of the commercial portion of the project site. For travel in the northbound direction, the bus stop is across El Camino Real, accessible via the signalized pedestrian crosswalk. There is also a bus stop on Davey Glen Road just west of the

project site. Nearby bus stops serve SamTrans Routes 62, 68, 397, 398, ECR, and KX. The proposed project frontage would accommodate existing bus stops.

Delivery Vehicle Access

A loading area is shown on the site plan on the far south side of the site behind the residential units. This loading area will be suitable for large delivery and moving trucks. It has a gate to keep the loading area out of site when not in use. All personal vehicles will use the garage or internal driveway for short-term loading. Loading for the commercial/retail location should be restricted to late-night and early-morning hours to limit conflicts with on-site vehicles, to the extent feasible.

A trash enclosure is shown within the underground parking area and is designated for residential trash. A separate trash enclosure is provided at ground level for retail use. As shown on the site plan, trash from the garage will be brought up to ground level for collection.

Parking Supply

The proposed parking supply is 137 spaces in the underground garage (including 43 tandem spaces) and 24 spaces (including 3 reserved for office management) in the surface lot for a total of 161 spaces. Of these spaces 5 are Americans with Disabilities Act (ADA) accessible spaces.

For residential uses in a multiple family structure, the City of Belmont Zoning Ordinance 8.4.1(b) requires one garage space for each dwelling unit plus one paved open parking space or garage space for each such dwelling unit which equates to a rate of 2.0 spaces per unit or a total of 146 spaces. However, the project sponsor expects the parking demand to be one parking space per one-bedroom unit, and two spaces per two- or three-bedroom unit, for a total of 118 parking spaces or a combined rate of 1.6 spaces per unit. This expected parking demand is consistent with the Metropolitan Transportation Commission (MTC) parking recommendations for Suburban Center (1.0-1.5 spaces per dwelling unit) and Transit Neighborhood (1.25-2.25 spaces per dwelling unit).[2]

For retail uses, the City of Belmont Zoning Ordinance 8.4.2(a) requires one parking space for each 250 square feet of floor area accessible to the public. The City of Belmont Zoning Ordinance also specifies parking rates for "establishments dispensing food or beverages for consumption on premises" as one space per 60 square feet of customer area plus one space per 600 square feet of

[2] *Developing Parking Policies to Support Smart Growth in Local Jurisdictions: Best Practices*, Metropolitan Transportation Commission, June 2007.

kitchen and storage area. This results in 43 spaces[3] as the supply for the retail space assuming it is primarily food related use according to the Zoning Ordinance. The parking requirement would be 20 spaces if the retail space did not include food-related uses.

The proposed 137 parking spaces in the underground garage are 9 parking spaces less than the Ordinance requirement for residential use, but 19 more than the expected peak demand. The additional spaces may be used for residential guests or as overflow for retail parking and will be separated from the designated (or reserved) residential parking spaces with a gate. Residential parking reaches its peak demand in the late evening. Therefore most of these spaces will be available for the retail uses during the day. Approximately half of the additional spaces are tandem parking spaces and should be assigned for use by retail employees to maximize efficiency and practicality. This will allow the 21 available surface spaces to be reserved for retail customers.

> **Site Plan Recommendation 6:** Work with the City to create PD zoning that allows fewer parking stalls than is required by the Zoning Ordinance. Allow unused parking spaces in the garage to be used as overflow parking for retail uses on site and assign unused tandem spaces to retail employees.

The City of Belmont Zoning Ordinance 8.3.1(b) specifies the minimum required number of ADA Accessible spaces as a ratio of total parking spaces. For a parking lot of 0-100 spaces, one ADA space is required for every 30 spaces. For a parking lot of 101-200 spaces, four ADA spaces are required. The retail surface parking lot contains 24 spaces and meets the minimum required ADA spaces with one. The underground residential parking lot contains 137 spaces and meets the minimum requirement with four ADA spaces.

The ADA spaces are located as close as practical to the primary entrances. For the single surface lot ADA space, the minimum parking space width is 14 feet to provide a 9-foot parking space and 5-foot loading/unloading area. The proposed project provides a parking space wide enough to meet requirements. For the four adjacent ADA spaces in the residential underground parking lot, a minimum width of 24 feet is required for the two spaces to provide 9-foot parking spaces and a shared 6-foot loading/unloading area in the center. The proposed project provides a width for the two adjacent ADA spaces that exceeds the minimum requirement.

This completes the transportation assessment for the proposed project at 490 El Camino Real. Please call Mike Hawkins at (415) 348-0300 with questions or comments.

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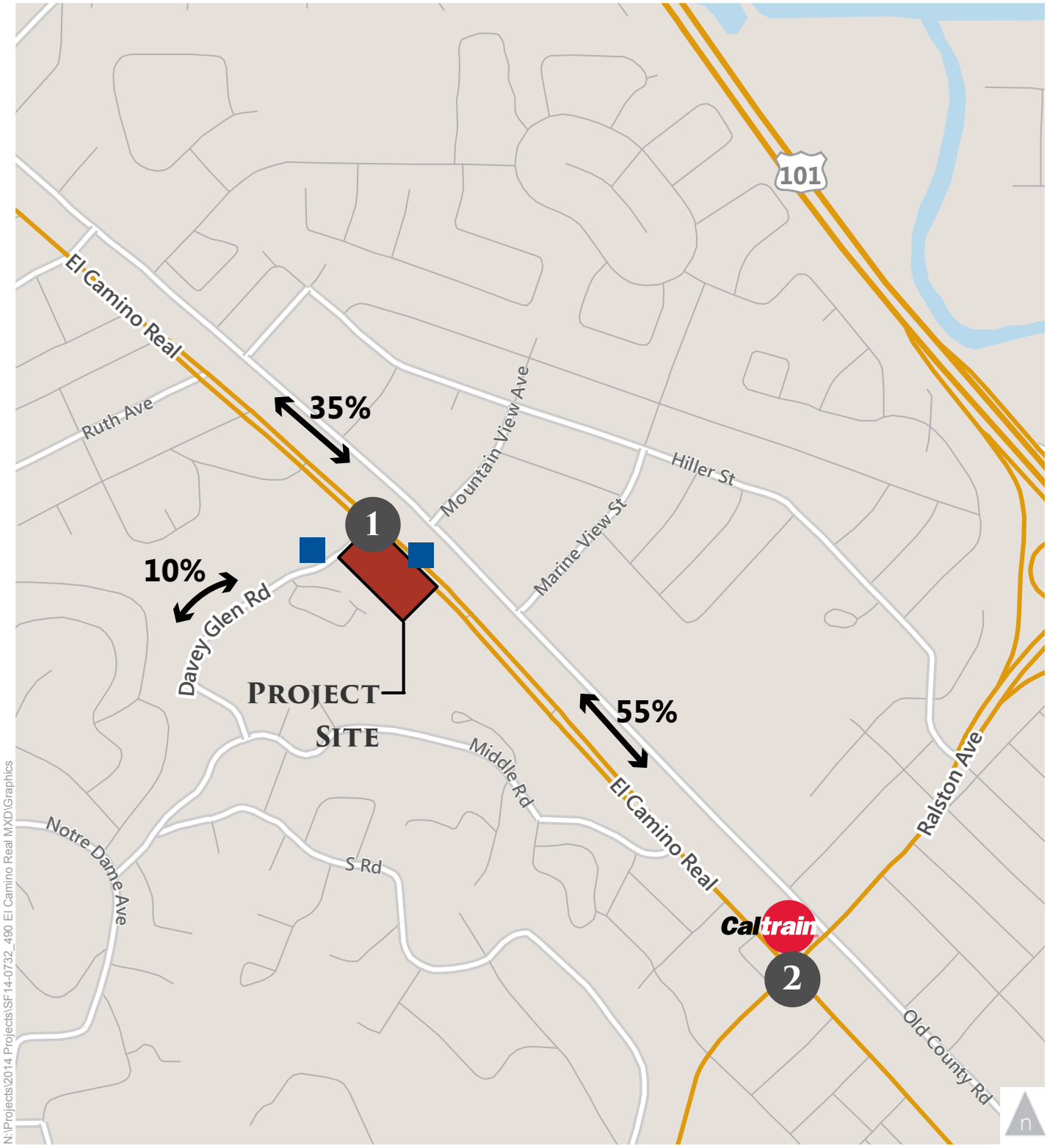
[3] Assumes 60% of restaurant/coffee shop floor area is dedicated to customer uses, while 40% is dedicated to kitchen, storage, and employee areas (Total Food Service).

Attachments:

Figure 1	Site Vicinity and Trip Distribution
Figure 2	Intersection Peak Hour Volumes, Lane Configurations, & Traffic Control
Figure 3	Conceptual Project Site Plan with Recommendations
Attachment A	Traffic Counts, LOS Calculations, Pending Project List



1 Study Intersection

SamTrans Bus Stop

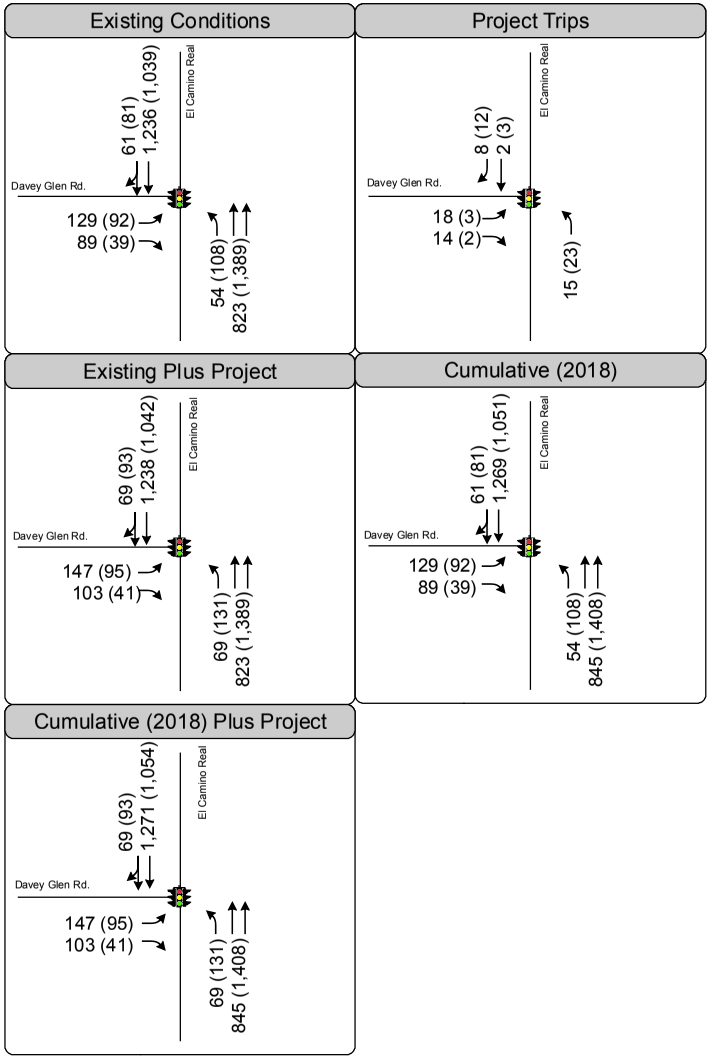
Caltrain Station

XX% Project Trip Distribution

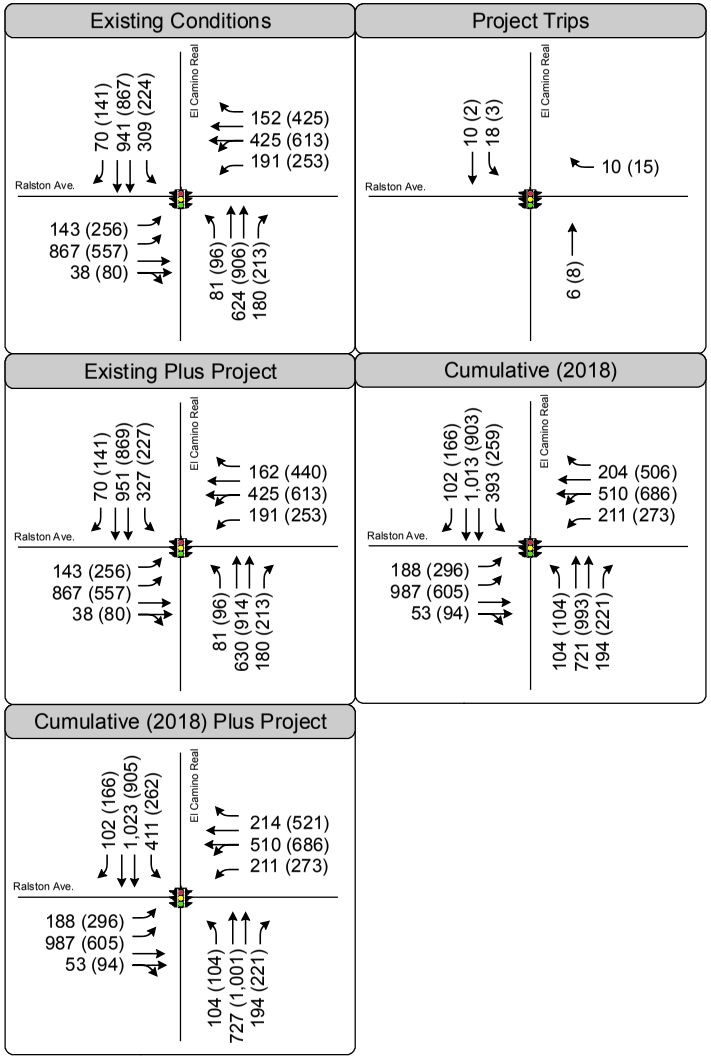
Figure 1

Project Location and Trip Distribution

1 El Camino Real / Davey Glen Road



2 El Camino Real / Ralston Avenue



Traffic Signal

AM (PM) Peak Hour Traffic Volume

N:\Projects\2014 Projects\SF14-0732_490 El Camino Real MXD\Graphics\GIS\MXD\Fig1_ProjectLocation.mxd

Figure 2

Intersection Peak Hour Volumes, Lane Configurations, & Traffic Control

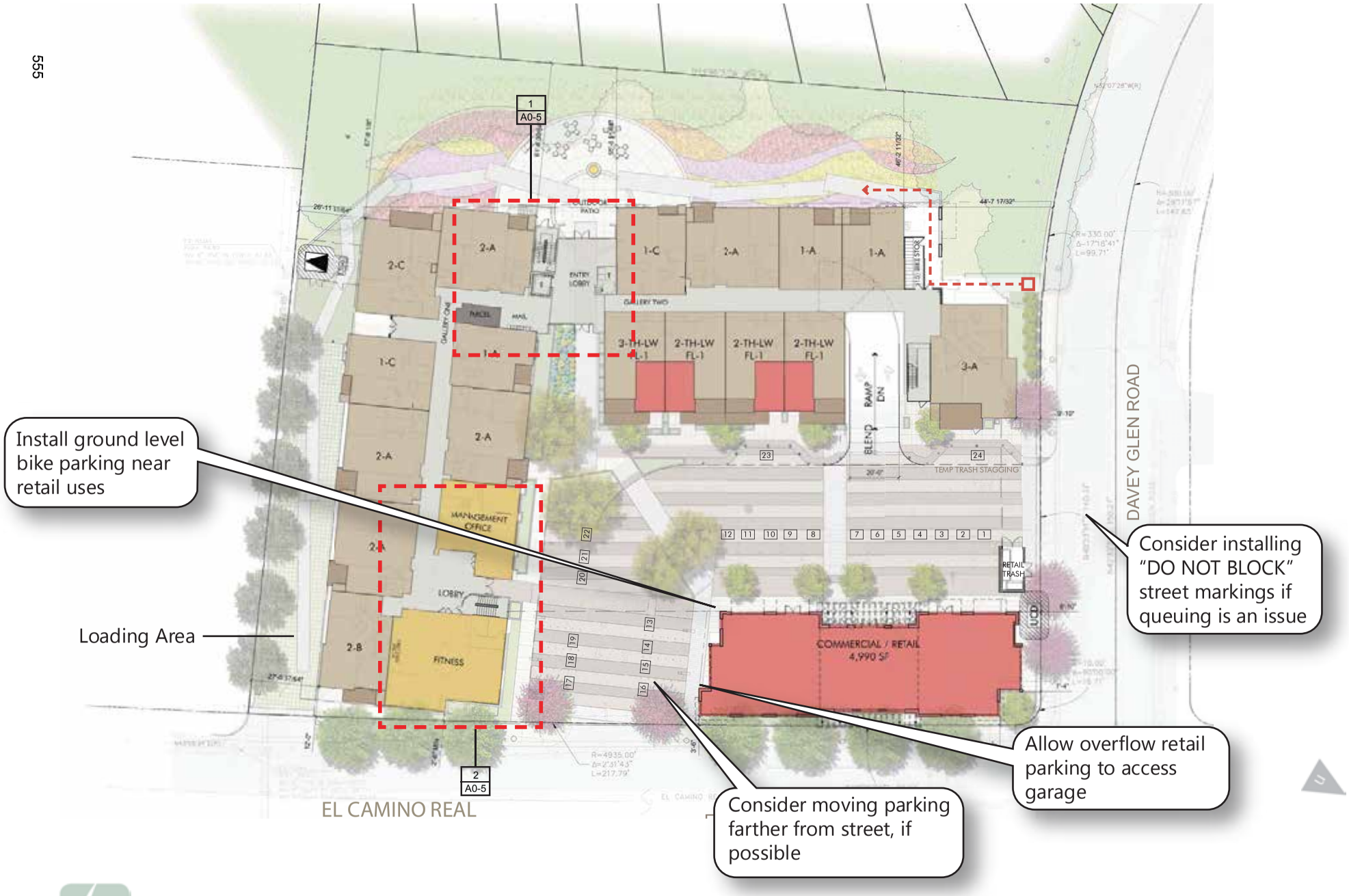


Figure 3a

Site Plan Recommendations

SOURCE: Dahlin Group, 2014.

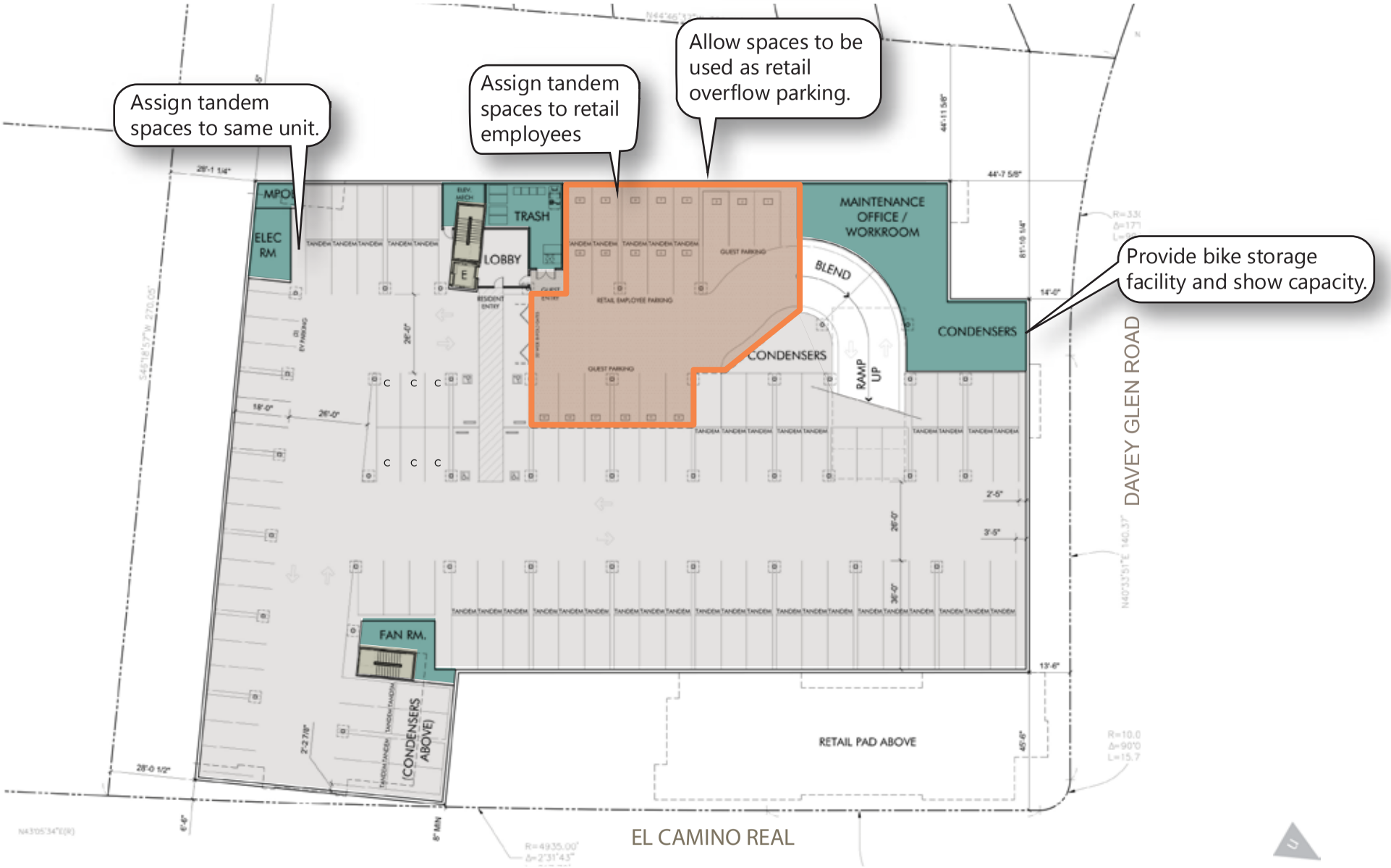


Figure 3b

Site Plan Recommendations

SOURCE: Dahlin Group, 2014.

Attachment A

Traffic Counts, LOS Calculations, & Pending Projects

490 El Camino Real Preliminary Transportation Assessment

February 2015

SF14-0732

FEHR PEERS

MARKS TRAFFIC DATA

mietekm@comcast.net
916.806.0250

CITY OF BELMONT

File Name : el camino-davey glen-a
Site Code : 1
Start Date : 3/12/2014
Page No : 1

Groups Printed- Vehicles Only

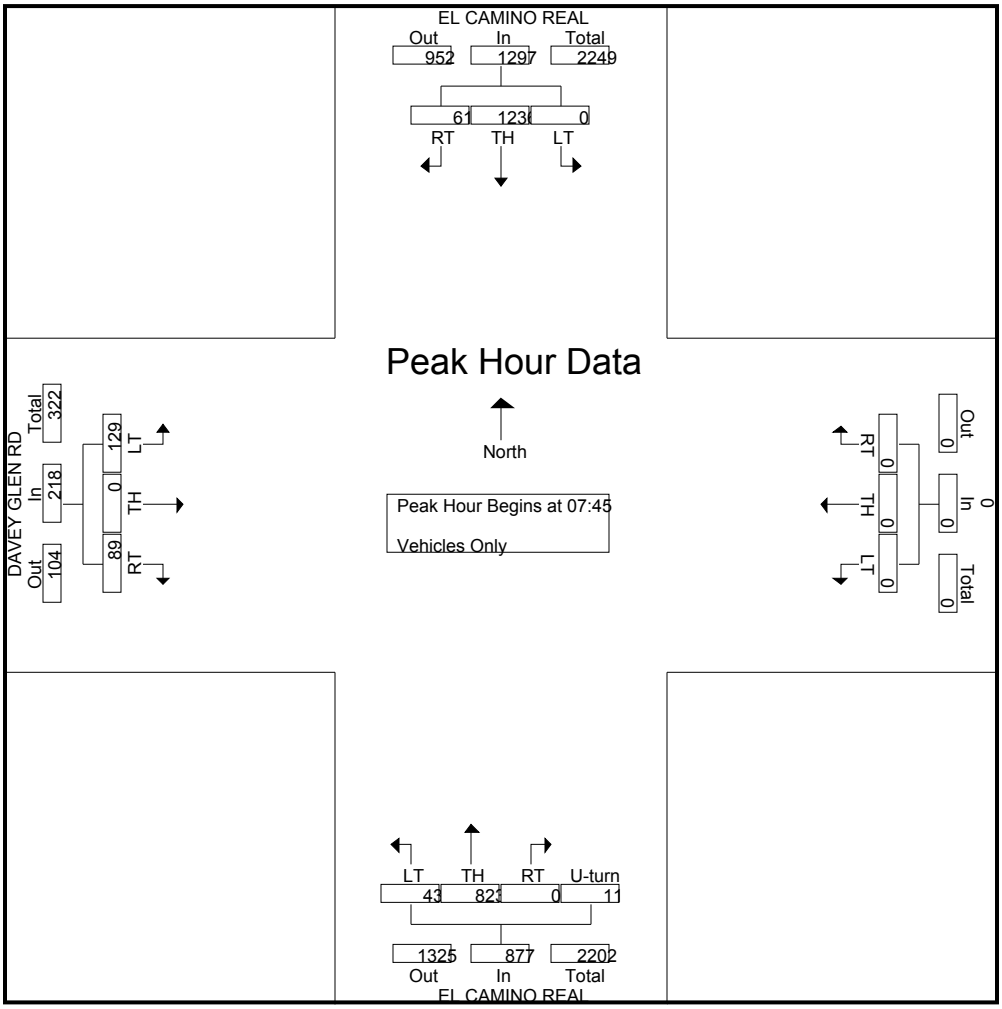
	EL CAMINO REAL Southbound				0 Westbound				EL CAMINO REAL Northbound					DAVEY GLEN RD Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	U-turn	App. Total	RT	TH	LT	App. Total	Int. Total
07:00	5	150	0	155	0	0	0	0	0	80	3	5	88	9	0	18	27	270
07:15	11	248	0	259	0	0	0	0	0	106	11	4	121	15	0	27	42	422
07:30	19	301	0	320	0	0	0	0	0	187	7	1	195	22	0	27	49	564
07:45	26	322	0	348	0	0	0	0	0	199	11	5	215	19	0	28	47	610
Total	61	1021	0	1082	0	0	0	0	0	572	32	15	619	65	0	100	165	1866
08:00	16	338	0	354	0	0	0	0	0	191	8	0	199	27	0	27	54	607
08:15	13	272	0	285	0	0	0	0	0	232	13	2	247	22	0	35	57	589
08:30	6	304	0	310	0	0	0	0	0	201	11	4	216	21	0	39	60	586
08:45	9	262	0	271	0	0	0	0	0	230	9	4	243	10	0	33	43	557
Total	44	1176	0	1220	0	0	0	0	0	854	41	10	905	80	0	134	214	2339
Grand Total	105	2197	0	2302	0	0	0	0	0	1426	73	25	1524	145	0	234	379	4205
Apprch %	4.6	95.4	0		0	0	0		0	93.6	4.8	1.6		38.3	0	61.7		
Total %	2.5	52.2	0	54.7	0	0	0	0	0	33.9	1.7	0.6	36.2	3.4	0	5.6	9	

	EL CAMINO REAL Southbound				0 Westbound				EL CAMINO REAL Northbound					DAVEY GLEN RD Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	U-turn	App. Total	RT	TH	LT	App. Total	Int. Total
Peak Hour Analysis From 07:00 to 08:45 - Peak 1 of 1																		
Peak Hour for Entire Intersection Begins at 07:45																		
07:45	**26**	322	0	348	0	0	0	0	0	199	11	**5**	215	19	0	28	47	**610**
08:00	16	**338**	0	**354**	0	0	0	0	0	191	8	0	199	**27**	0	27	54	607
08:15	13	272	0	285	0	0	0	0	0	**232**	**13**	2	**247**	22	0	35	57	589
08:30	6	304	0	310	0	0	0	0	0	201	11	4	216	21	0	**39**	**60**	586
Total Volume	61	1236	0	1297	0	0	0	0	0	823	43	11	877	89	0	129	218	2392
% App. Total	4.7	95.3	0		0	0	0		0	93.8	4.9	1.3		40.8	0	59.2		
PHF	.587	.914	.000	.916	.000	.000	.000	.000	.000	.887	.827	.550	.888	.824	.000	.827	.908	.980

MARKS TRAFFIC DATA
mietekm@comcast.net
916.806.0250

CITY OF BELMONT

File Name : el camino-davey glen-a
Site Code : 1
Start Date : 3/12/2014
Page No : 2



MARKS TRAFFIC DATA

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CITY OF BELMONT

File Name : el camino-davey glen-p
Site Code : 1
Start Date : 3/12/2014
Page No : 1

Groups Printed- Vehicles Only

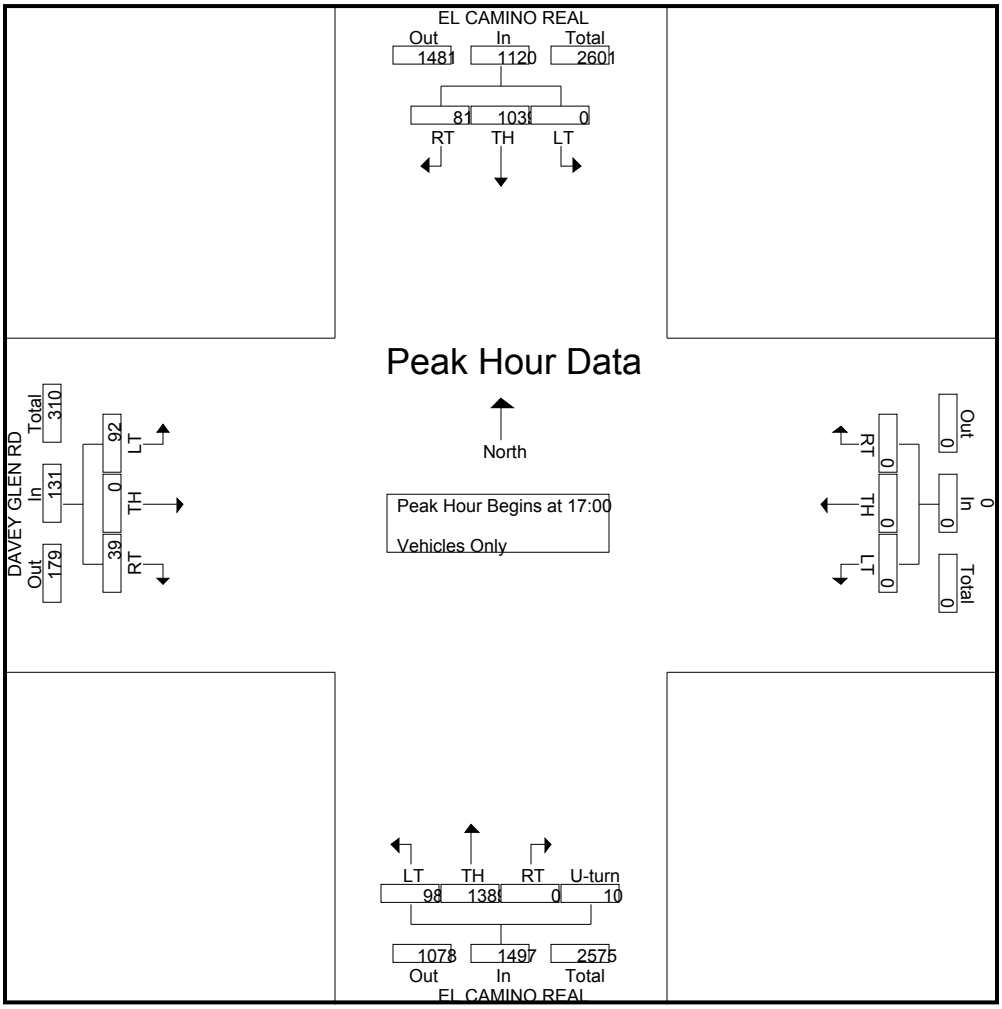
	EL CAMINO REAL Southbound				0 Westbound				EL CAMINO REAL Northbound					DAVEY GLEN RD Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	U-turn	App. Total	RT	TH	LT	App. Total	Int. Total
16:00	14	214	0	228	0	0	0	0	0	269	19	4	292	13	0	18	31	551
16:15	7	248	0	255	0	0	0	0	0	306	17	4	327	13	0	20	33	615
16:30	20	229	0	249	0	0	0	0	0	331	22	5	358	8	0	12	20	627
16:45	25	232	0	257	0	0	0	0	0	336	25	4	365	11	0	25	36	658
Total	66	923	0	989	0	0	0	0	0	1242	83	17	1342	45	0	75	120	2451
17:00	16	238	0	254	0	0	0	0	0	337	20	2	359	13	0	31	44	657
17:15	21	279	0	300	0	0	0	0	0	384	20	3	407	5	0	23	28	735
17:30	15	243	0	258	0	0	0	0	0	329	28	2	359	14	0	21	35	652
17:45	29	279	0	308	0	0	0	0	0	339	30	3	372	7	0	17	24	704
Total	81	1039	0	1120	0	0	0	0	0	1389	98	10	1497	39	0	92	131	2748
Grand Total	147	1962	0	2109	0	0	0	0	0	2631	181	27	2839	84	0	167	251	5199
Apprch %	7	93	0		0	0	0		0	92.7	6.4	1		33.5	0	66.5		
Total %	2.8	37.7	0	40.6	0	0	0	0	0	50.6	3.5	0.5	54.6	1.6	0	3.2	4.8	

	EL CAMINO REAL Southbound				0 Westbound				EL CAMINO REAL Northbound					DAVEY GLEN RD Eastbound				
Start Time	RT	TH	LT	App. Total	RT	TH	LT	App. Total	RT	TH	LT	U-turn	App. Total	RT	TH	LT	App. Total	Int. Total
Peak Hour Analysis From 16:00 to 17:45 - Peak 1 of 1																		
Peak Hour for Entire Intersection Begins at 17:00																		
17:00	16	238	0	254	0	0	0	0	0	337	20	2	359	13	0	**31**	**44**	657
17:15	21	**279**	0	300	0	0	0	0	0	**384**	20	**3**	**407**	5	0	23	28	**735**
17:30	15	243	0	258	0	0	0	0	0	329	28	2	359	**14**	0	21	35	652
17:45	**29**	279	0	**308**	0	0	0	0	0	339	**30**	3	372	7	0	17	24	704
Total Volume	81	1039	0	1120	0	0	0	0	0	1389	98	10	1497	39	0	92	131	2748
% App. Total	7.2	92.8	0		0	0	0		0	92.8	6.5	0.7		29.8	0	70.2		
PHF	.698	.931	.000	.909	.000	.000	.000	.000	.000	.904	.817	.833	.920	.696	.000	.742	.744	.935

MARKS TRAFFIC DATA
mietekm@comcast.net
916.806.0250

CITY OF BELMONT

File Name : el camino-davey glen-p
Site Code : 1
Start Date : 3/12/2014
Page No : 2



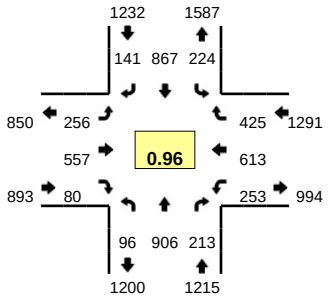
Type of peak hour being reported: Intersection Peak

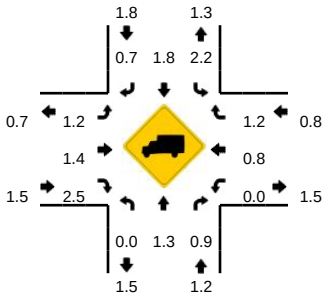
Method for determining peak hour: Total Entering Volume

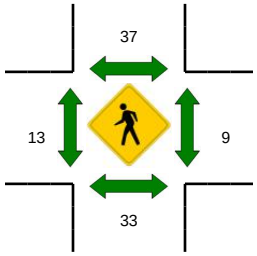
LOCATION: El Camino Real -- Ralston Ave
CITY/STATE: Belmont, CA

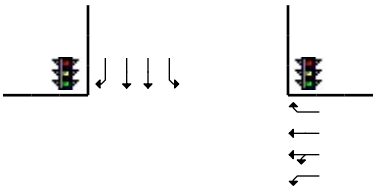
QC JOB #: 11484410
DATE: Tue, Dec 10 2013

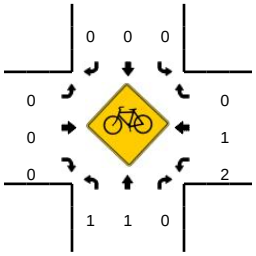
Peak-Hour: 4:55 PM -- 5:55 PM
Peak 15-Min: 5:20 PM -- 5:35 PM

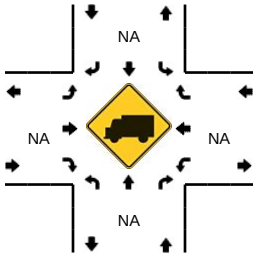


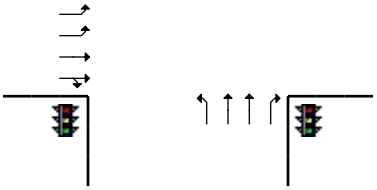


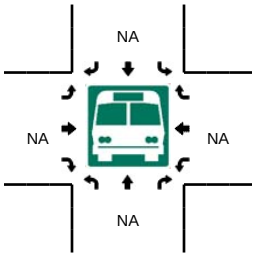












5-Min Count Period Beginning At	El Camino Real (Northbound)				El Camino Real (Southbound)				Ralston Ave (Eastbound)				Ralston Ave (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	11	99	23	0	14	83	13	0	8	36	6	0	23	49	26	0	391	
4:05 PM	14	59	15	0	12	58	7	0	24	55	8	0	14	56	29	0	351	
4:10 PM	11	89	7	1	18	80	12	0	20	42	2	0	21	48	21	0	372	
4:15 PM	4	60	18	0	17	68	7	0	22	56	7	0	25	36	31	0	351	
4:20 PM	8	98	15	0	23	75	14	0	6	38	5	0	16	28	21	0	347	
4:25 PM	7	63	16	0	16	57	12	0	18	60	6	0	22	55	18	0	350	
4:30 PM	12	90	15	0	21	83	17	0	18	46	3	0	12	48	25	0	390	
4:35 PM	3	59	11	0	19	74	13	0	18	61	3	0	17	50	24	0	352	
4:40 PM	11	89	15	0	22	88	13	0	14	39	5	0	22	43	28	0	389	
4:45 PM	12	64	13	0	16	61	15	0	24	56	7	0	21	52	33	0	374	
4:50 PM	12	89	16	0	20	89	4	0	11	36	5	0	6	39	31	0	358	
4:55 PM	14	63	27	0	17	50	13	0	24	58	5	0	25	60	37	0	393	4418
5:00 PM	6	88	20	0	21	84	6	0	18	34	9	0	14	55	27	0	382	4409
5:05 PM	8	61	15	0	19	53	9	0	27	61	4	0	18	52	39	0	366	4424
5:10 PM	12	89	13	0	18	79	7	0	24	38	5	0	19	49	39	0	392	4444
5:15 PM	6	63	21	0	17	65	9	0	29	57	10	0	23	58	38	0	396	4489
5:20 PM	12	95	24	0	22	84	13	0	23	30	7	0	19	51	31	0	411	4553
5:25 PM	10	60	10	0	20	65	18	0	17	62	8	0	20	58	37	0	385	4588
5:30 PM	2	89	13	0	14	101	15	0	16	47	4	0	17	47	42	0	407	4605
5:35 PM	7	55	17	0	20	57	12	0	21	47	9	0	35	49	35	0	364	4617
5:40 PM	8	95	15	0	19	89	14	0	15	42	6	0	27	38	29	0	397	4625
5:45 PM	5	55	10	0	19	74	13	0	27	52	7	0	18	45	37	0	362	4613
5:50 PM	6	93	28	0	18	66	12	0	15	29	6	0	18	51	34	0	376	4631
5:55 PM	10	58	14	0	17	58	14	0	27	49	2	0	22	47	32	0	350	4588

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	96	976	188	0	224	1000	184	0	224	556	76	0	224	624	440	0	4812
Heavy Trucks	0	20	0		8	16	0		4	0	0		0	12	4		64
Pedestrians		40				40				8				4			92
Bicycles	1	0	0		0	0	0		0	0	0		0	0	0		1
Railroad																	
Stopped Buses																	

Comments:

Report generated on 12/19/2013 2:44 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

Type of peak hour being reported: Intersection Peak

Method for determining peak hour: Total Entering Volume

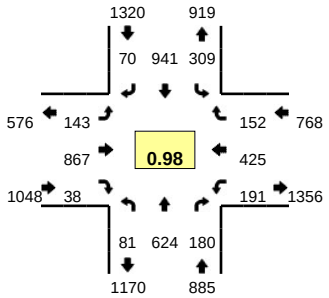
LOCATION: El Camino Real -- Ralston Ave

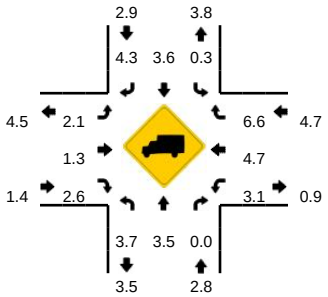
CITY/STATE: Belmont, CA

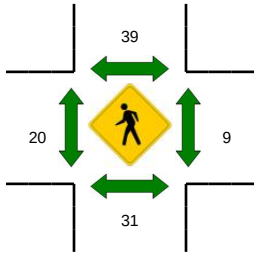
QC JOB #: 11484409

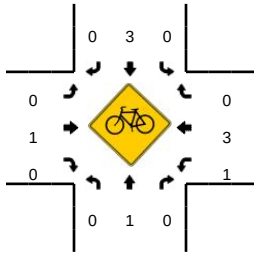
DATE: Tue, Dec 10 2013

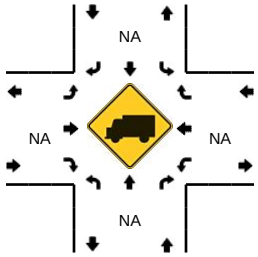
Peak-Hour: 7:55 AM -- 8:55 AM
Peak 15-Min: 8:20 AM -- 8:35 AM

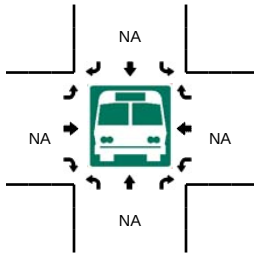












5-Min Count Period Beginning At	El Camino Real (Northbound)				El Camino Real (Southbound)				Ralston Ave (Eastbound)				Ralston Ave (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	3	25	8	0	16	34	4	0	4	41	4	0	16	20	8	0	183	
7:05 AM	0	10	12	0	17	35	1	0	7	59	1	0	14	17	8	0	181	
7:10 AM	0	22	11	0	18	48	11	0	3	39	3	0	10	34	9	0	208	
7:15 AM	0	22	13	0	18	40	7	0	10	45	1	0	9	34	13	0	212	
7:20 AM	1	39	10	0	24	70	3	0	6	61	0	0	6	41	7	0	268	
7:25 AM	7	16	8	0	17	74	16	0	5	65	0	0	11	56	16	0	291	
7:30 AM	6	50	20	0	19	95	8	0	13	45	6	0	12	52	0	0	326	
7:35 AM	6	26	19	0	19	53	14	0	16	72	4	0	10	72	11	0	322	
7:40 AM	4	62	6	0	24	108	7	0	10	39	2	0	12	51	12	0	337	
7:45 AM	5	54	7	0	17	59	4	0	19	67	2	0	16	47	12	0	309	
7:50 AM	5	68	9	0	33	82	5	0	16	42	3	0	19	18	9	0	309	
7:55 AM	7	47	9	0	22	64	7	0	21	86	3	0	16	33	9	0	324	3270
8:00 AM	7	57	22	0	30	95	2	0	9	56	4	0	13	38	15	0	348	3435
8:05 AM	7	40	10	0	23	60	4	0	12	98	4	0	15	37	19	0	329	3583
8:10 AM	4	60	15	0	28	109	7	0	10	54	4	0	14	33	12	0	350	3725
8:15 AM	4	41	12	0	19	63	4	0	18	87	7	0	17	32	12	0	316	3829
8:20 AM	6	57	17	0	35	90	7	0	17	60	3	0	15	39	10	0	356	3917
8:25 AM	4	45	12	0	23	68	6	0	7	88	4	0	18	37	15	0	327	3953
8:30 AM	13	74	16	0	29	94	4	0	8	56	1	0	11	31	8	0	345	3972
8:35 AM	3	46	14	0	21	63	9	0	9	77	1	0	22	43	15	0	323	3973
8:40 AM	11	52	19	0	32	82	5	0	7	58	2	0	24	34	13	0	339	3975
8:45 AM	9	44	14	0	21	65	9	0	16	90	3	0	11	43	14	0	339	4005
8:50 AM	6	61	20	0	26	88	6	0	9	57	2	0	15	25	10	0	325	4021
8:55 AM	8	41	10	0	20	55	7	0	12	82	8	0	22	30	11	0	306	4003

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	92	704	180	0	348	1008	68	0	128	816	32	0	176	428	132	0	4112
Heavy Trucks	0	40	0		0	32	4		4	16	4		12	20	12		144
Pedestrians		12				44				32				8			96
Bicycles	0	0	0		0	1	0		0	0	0		0	1	0		2
Railroad																	
Stopped Buses																	

Comments:

Report generated on 12/19/2013 2:44 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

HCM Signalized Intersection Capacity Analysis
1: El Camino Real & Davey Glen

1/15/2015

Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
Lane Configurations							
Volume (vph)	129	89	11	43	823	1236	61
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	3.0		3.0	4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	0.95	0.95	
Frpb, ped/bikes	1.00	0.99		1.00	1.00	1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	
Frt	1.00	0.85		1.00	1.00	0.99	
Flt Protected	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (prot)	1770	1560		1770	3539	3510	
Flt Permitted	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (perm)	1770	1560		1770	3539	3510	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	132	91	11	44	840	1261	62
RTOR Reduction (vph)	0	79	0	0	0	3	0
Lane Group Flow (vph)	132	12	0	55	840	1320	0
Confl. Peds. (#/hr)		4					2
Confl. Bikes (#/hr)							5
Turn Type	NA	Perm	Prot	Prot	NA	NA	
Protected Phases	4		1	1	6	2	
Permitted Phases		4					
Actuated Green, G (s)	7.9	7.9		4.4	45.1	37.7	
Effective Green, g (s)	7.9	7.9		4.4	45.1	37.7	
Actuated g/C Ratio	0.13	0.13		0.07	0.75	0.63	
Clearance Time (s)	3.0	3.0		3.0	4.0	4.0	
Vehicle Extension (s)	2.0	2.0		2.0	4.0	4.0	
Lane Grp Cap (vph)	233	205		129	2660	2205	
v/s Ratio Prot	c0.07			c0.03	0.24	c0.38	
v/s Ratio Perm		0.01					
v/c Ratio	0.57	0.06		0.43	0.32	0.60	
Uniform Delay, d1	24.4	22.8		26.6	2.4	6.6	
Progression Factor	1.00	1.00		1.00	1.00	1.00	
Incremental Delay, d2	1.9	0.0		0.8	0.3	1.2	
Delay (s)	26.3	22.8		27.4	2.7	7.9	
Level of Service	C	C		C	A	A	
Approach Delay (s)	24.9				4.3	7.9	
Approach LOS	C				A	A	

Intersection Summary			
HCM 2000 Control Delay	8.1	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.58		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	10.0
Intersection Capacity Utilization	58.4%	ICU Level of Service	B
Analysis Period (min)	15		
c Critical Lane Group			

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	143	867	38	191	425	152	81	624	180	309	941	70
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Lane Util. Factor	0.97	0.95		0.91	0.91	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Frpb, ped/bikes	1.00	1.00		1.00	1.00	0.94	1.00	1.00	0.98	1.00	1.00	0.96
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.99		1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	3509		1610	3383	1481	1770	3539	1549	1770	3539	1520
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	3509		1610	3383	1481	1770	3539	1549	1770	3539	1520
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	146	885	39	195	434	155	83	637	184	315	960	71
RTOR Reduction (vph)	0	2	0	0	0	126	0	0	95	0	0	44
Lane Group Flow (vph)	146	922	0	175	454	29	83	637	89	315	960	27
Confl. Peds. (#/hr)			31			39			9			20
Turn Type	Split	NA		Split	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	8	8		7	7		1	6		5	2	
Permitted Phases						7			6			2
Actuated Green, G (s)	31.7	31.7		22.8	22.8	22.8	8.8	32.0	32.0	19.0	42.2	42.2
Effective Green, g (s)	31.7	31.7		22.8	22.8	22.8	8.8	32.0	32.0	19.0	42.2	42.2
Actuated g/C Ratio	0.26	0.26		0.19	0.19	0.19	0.07	0.27	0.27	0.16	0.35	0.35
Clearance Time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	906	926		305	642	281	129	943	413	280	1244	534
v/s Ratio Prot	0.04	c0.26		0.11	c0.13		0.05	0.18		c0.18	c0.27	
v/s Ratio Perm						0.02			0.06			0.02
v/c Ratio	0.16	1.00		0.57	0.71	0.10	0.64	0.68	0.21	1.12	0.77	0.05
Uniform Delay, d1	33.9	44.1		44.2	45.5	40.2	54.1	39.4	34.2	50.5	34.6	25.7
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	0.1	28.3		2.6	3.6	0.2	10.5	3.9	1.2	91.7	4.7	0.2
Delay (s)	34.0	72.3		46.8	49.0	40.3	64.6	43.2	35.4	142.2	39.3	25.9
Level of Service	C	E		D	D	D	E	D	D	F	D	C
Approach Delay (s)		67.1			46.8			43.6			62.7	
Approach LOS		E			D			D			E	

Intersection Summary			
HCM 2000 Control Delay	56.6	HCM 2000 Level of Service	E
HCM 2000 Volume to Capacity ratio	0.91		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	101.4%	ICU Level of Service	G
Analysis Period (min)	15		

c Critical Lane Group

Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
Lane Configurations							
Volume (vph)	92	39	10	98	1389	1039	81
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	3.0		3.0	4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	0.95	0.95	
Frpb, ped/bikes	1.00	0.99		1.00	1.00	1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	
Frt	1.00	0.85		1.00	1.00	0.99	
Flt Protected	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (prot)	1770	1560		1770	3539	3493	
Flt Permitted	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (perm)	1770	1560		1770	3539	3493	
Peak-hour factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	99	42	11	105	1494	1117	87
RTOR Reduction (vph)	0	37	0	0	0	5	0
Lane Group Flow (vph)	99	5	0	116	1494	1199	0
Confl. Peds. (#/hr)		4					5
Confl. Bikes (#/hr)							5
Turn Type	NA	Perm	Prot	Prot	NA	NA	
Protected Phases	4		1	1	6	2	
Permitted Phases		4					
Actuated Green, G (s)	6.9	6.9		7.3	46.1	35.8	
Effective Green, g (s)	6.9	6.9		7.3	46.1	35.8	
Actuated g/C Ratio	0.12	0.12		0.12	0.77	0.60	
Clearance Time (s)	3.0	3.0		3.0	4.0	4.0	
Vehicle Extension (s)	2.0	2.0		2.0	4.0	4.0	
Lane Grp Cap (vph)	203	179		215	2719	2084	
v/s Ratio Prot	c0.06			0.07	c0.42	0.34	
v/s Ratio Perm		0.00					
v/c Ratio	0.49	0.03		0.54	0.55	0.58	
Uniform Delay, d1	24.9	23.6		24.8	2.8	7.4	
Progression Factor	1.00	1.00		1.00	1.00	1.00	
Incremental Delay, d2	0.7	0.0		1.3	0.8	1.2	
Delay (s)	25.6	23.6		26.1	3.6	8.6	
Level of Service	C	C		C	A	A	
Approach Delay (s)	25.0				5.2	8.6	
Approach LOS	C				A	A	

Intersection Summary			
HCM 2000 Control Delay	7.5	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.57		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	10.0
Intersection Capacity Utilization	54.5%	ICU Level of Service	A
Analysis Period (min)	15		
c Critical Lane Group			

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	256	557	80	253	613	425	96	906	213	224	867	141
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Lane Util. Factor	0.97	0.95		0.91	0.91	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Frpb, ped/bikes	1.00	0.99		1.00	1.00	0.94	1.00	1.00	0.98	1.00	1.00	0.97
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.98		1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	3448		1610	3384	1485	1770	3539	1549	1770	3539	1535
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	3448		1610	3384	1485	1770	3539	1549	1770	3539	1535
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	267	580	83	264	639	443	100	944	222	233	903	147
RTOR Reduction (vph)	0	9	0	0	0	195	0	0	78	0	0	59
Lane Group Flow (vph)	267	654	0	238	665	248	100	944	144	233	903	88
Confl. Peds. (#/hr)			33			37			9			13
Turn Type	Split	NA		Split	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	8	8		7	7		1	6		5	2	
Permitted Phases						7			6			2
Actuated Green, G (s)	18.5	18.5		28.0	28.0	28.0	11.7	44.0	44.0	15.0	47.3	47.3
Effective Green, g (s)	18.5	18.5		28.0	28.0	28.0	11.7	44.0	44.0	15.0	47.3	47.3
Actuated g/C Ratio	0.15	0.15		0.23	0.23	0.23	0.10	0.37	0.37	0.12	0.39	0.39
Clearance Time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	529	531		375	789	346	172	1297	567	221	1394	605
v/s Ratio Prot	0.08	c0.19		0.15	c0.20		0.06	c0.27		c0.13	0.26	
v/s Ratio Perm						0.17			0.09			0.06
v/c Ratio	0.50	1.23		0.63	0.84	0.72	0.58	0.73	0.25	1.05	0.65	0.15
Uniform Delay, d1	46.5	50.8		41.4	43.9	42.4	51.8	32.8	26.5	52.5	29.6	23.4
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	0.8	119.7		3.5	8.2	6.9	4.9	3.6	1.1	75.6	2.3	0.5
Delay (s)	47.3	170.4		44.9	52.1	49.3	56.7	36.4	27.6	128.1	31.9	23.9
Level of Service	D	F		D	D	D	E	D	C	F	C	C
Approach Delay (s)		135.1			49.9			36.5			48.5	
Approach LOS		F			D			D			D	

Intersection Summary			
HCM 2000 Control Delay	62.4	HCM 2000 Level of Service	E
HCM 2000 Volume to Capacity ratio	0.89		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	93.3%	ICU Level of Service	F
Analysis Period (min)	15		

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
1: El Camino Real & Davey Glen

1/16/2015

Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
Lane Configurations							
Volume (vph)	147	103	11	58	823	1238	69
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	3.0		3.0	4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	0.95	0.95	
Frpb, ped/bikes	1.00	0.99		1.00	1.00	1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	
Frt	1.00	0.85		1.00	1.00	0.99	
Flt Protected	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (prot)	1770	1560		1770	3539	3506	
Flt Permitted	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (perm)	1770	1560		1770	3539	3506	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	150	105	11	59	840	1263	70
RTOR Reduction (vph)	0	90	0	0	0	3	0
Lane Group Flow (vph)	150	15	0	70	840	1330	0
Confl. Peds. (#/hr)		4					2
Confl. Bikes (#/hr)							5
Turn Type	NA	Perm	Prot	Prot	NA	NA	
Protected Phases	4		1	1	6	2	
Permitted Phases		4					
Actuated Green, G (s)	8.5	8.5		4.8	44.5	36.7	
Effective Green, g (s)	8.5	8.5		4.8	44.5	36.7	
Actuated g/C Ratio	0.14	0.14		0.08	0.74	0.61	
Clearance Time (s)	3.0	3.0		3.0	4.0	4.0	
Vehicle Extension (s)	2.0	2.0		2.0	4.0	4.0	
Lane Grp Cap (vph)	250	221		141	2624	2144	
v/s Ratio Prot	c0.08			c0.04	0.24	c0.38	
v/s Ratio Perm		0.01					
v/c Ratio	0.60	0.07		0.50	0.32	0.62	
Uniform Delay, d1	24.2	22.3		26.4	2.6	7.3	
Progression Factor	1.00	1.00		1.00	1.00	1.00	
Incremental Delay, d2	2.6	0.0		1.0	0.3	1.4	
Delay (s)	26.7	22.4		27.4	2.9	8.7	
Level of Service	C	C		C	A	A	
Approach Delay (s)	24.9				4.8	8.7	
Approach LOS	C				A	A	

Intersection Summary			
HCM 2000 Control Delay	8.9	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.60		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	10.0
Intersection Capacity Utilization	60.1%	ICU Level of Service	B
Analysis Period (min)	15		
c Critical Lane Group			

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	143	867	38	191	425	162	81	630	180	327	951	70
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Lane Util. Factor	0.97	0.95		0.91	0.91	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Frpb, ped/bikes	1.00	1.00		1.00	1.00	0.94	1.00	1.00	0.98	1.00	1.00	0.96
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.99		1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	3509		1610	3383	1481	1770	3539	1549	1770	3539	1520
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	3509		1610	3383	1481	1770	3539	1549	1770	3539	1520
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	146	885	39	195	434	165	83	643	184	334	970	71
RTOR Reduction (vph)	0	2	0	0	0	134	0	0	95	0	0	44
Lane Group Flow (vph)	146	922	0	175	454	31	83	643	89	334	970	27
Confl. Peds. (#/hr)			31			39			9			20
Turn Type	Split	NA		Split	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	8	8		7	7		1	6		5	2	
Permitted Phases						7			6			2
Actuated Green, G (s)	31.7	31.7		22.8	22.8	22.8	8.8	32.0	32.0	19.0	42.2	42.2
Effective Green, g (s)	31.7	31.7		22.8	22.8	22.8	8.8	32.0	32.0	19.0	42.2	42.2
Actuated g/C Ratio	0.26	0.26		0.19	0.19	0.19	0.07	0.27	0.27	0.16	0.35	0.35
Clearance Time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	906	926		305	642	281	129	943	413	280	1244	534
v/s Ratio Prot	0.04	c0.26		0.11	c0.13		0.05	0.18		c0.19	c0.27	
v/s Ratio Perm						0.02			0.06			0.02
v/c Ratio	0.16	1.00		0.57	0.71	0.11	0.64	0.68	0.22	1.19	0.78	0.05
Uniform Delay, d1	33.9	44.1		44.2	45.5	40.2	54.1	39.4	34.2	50.5	34.7	25.7
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	0.1	28.3		2.6	3.6	0.2	10.5	4.0	1.2	116.4	4.9	0.2
Delay (s)	34.0	72.3		46.8	49.0	40.4	64.6	43.4	35.4	166.9	39.6	25.9
Level of Service	C	E		D	D	D	E	D	D	F	D	C
Approach Delay (s)		67.1			46.7			43.7			69.8	
Approach LOS		E			D			D			E	

Intersection Summary			
HCM 2000 Control Delay	59.0	HCM 2000 Level of Service	E
HCM 2000 Volume to Capacity ratio	0.92		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	102.4%	ICU Level of Service	G
Analysis Period (min)	15		

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
1: El Camino Real & Davey Glen

1/16/2015

Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
Lane Configurations							
Volume (vph)	95	41	10	121	1389	1042	93
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	3.0		3.0	4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	0.95	0.95	
Frpb, ped/bikes	1.00	0.99		1.00	1.00	1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	
Frt	1.00	0.85		1.00	1.00	0.99	
Flt Protected	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (prot)	1770	1560		1770	3539	3487	
Flt Permitted	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (perm)	1770	1560		1770	3539	3487	
Peak-hour factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	102	44	11	130	1494	1120	100
RTOR Reduction (vph)	0	39	0	0	0	6	0
Lane Group Flow (vph)	102	5	0	141	1494	1214	0
Confl. Peds. (#/hr)		4					5
Confl. Bikes (#/hr)							5
Turn Type	NA	Perm	Prot	Prot	NA	NA	
Protected Phases	4		1	1	6	2	
Permitted Phases		4					
Actuated Green, G (s)	7.0	7.0		8.0	46.0	35.0	
Effective Green, g (s)	7.0	7.0		8.0	46.0	35.0	
Actuated g/C Ratio	0.12	0.12		0.13	0.77	0.58	
Clearance Time (s)	3.0	3.0		3.0	4.0	4.0	
Vehicle Extension (s)	2.0	2.0		2.0	4.0	4.0	
Lane Grp Cap (vph)	206	182		236	2713	2034	
v/s Ratio Prot	c0.06			c0.08	0.42	c0.35	
v/s Ratio Perm		0.00					
v/c Ratio	0.50	0.03		0.60	0.55	0.60	
Uniform Delay, d1	24.8	23.5		24.5	2.8	8.0	
Progression Factor	1.00	1.00		1.00	1.00	1.00	
Incremental Delay, d2	0.7	0.0		2.7	0.8	1.3	
Delay (s)	25.5	23.5		27.2	3.6	9.3	
Level of Service	C	C		C	A	A	
Approach Delay (s)	24.9				5.7	9.3	
Approach LOS	C				A	A	

Intersection Summary			
HCM 2000 Control Delay	8.1	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.58		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	10.0
Intersection Capacity Utilization	56.4%	ICU Level of Service	B
Analysis Period (min)	15		
c Critical Lane Group			

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	256	557	80	253	613	440	96	914	213	227	869	141
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Lane Util. Factor	0.97	0.95		0.91	0.91	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Frpb, ped/bikes	1.00	0.99		1.00	1.00	0.94	1.00	1.00	0.98	1.00	1.00	0.97
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.98		1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	3448		1610	3384	1485	1770	3539	1549	1770	3539	1535
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	3448		1610	3384	1485	1770	3539	1549	1770	3539	1535
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	267	580	83	264	639	458	100	952	222	236	905	147
RTOR Reduction (vph)	0	9	0	0	0	195	0	0	77	0	0	59
Lane Group Flow (vph)	267	654	0	238	665	263	100	952	145	236	905	88
Confl. Peds. (#/hr)			33			37			9			13
Turn Type	Split	NA		Split	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	8	8		7	7		1	6		5	2	
Permitted Phases						7			6			2
Actuated Green, G (s)	18.5	18.5		28.0	28.0	28.0	11.7	44.0	44.0	15.0	47.3	47.3
Effective Green, g (s)	18.5	18.5		28.0	28.0	28.0	11.7	44.0	44.0	15.0	47.3	47.3
Actuated g/C Ratio	0.15	0.15		0.23	0.23	0.23	0.10	0.37	0.37	0.12	0.39	0.39
Clearance Time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	529	531		375	789	346	172	1297	567	221	1394	605
v/s Ratio Prot	0.08	c0.19		0.15	c0.20		0.06	c0.27		c0.13	0.26	
v/s Ratio Perm						0.18			0.09			0.06
v/c Ratio	0.50	1.23		0.63	0.84	0.76	0.58	0.73	0.26	1.07	0.65	0.15
Uniform Delay, d1	46.5	50.8		41.4	43.9	42.9	51.8	32.9	26.6	52.5	29.6	23.4
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	0.8	119.7		3.5	8.2	9.5	4.9	3.7	1.1	79.7	2.4	0.5
Delay (s)	47.3	170.4		44.9	52.1	52.4	56.7	36.6	27.6	132.2	32.0	23.9
Level of Service	D	F		D	D	D	E	D	C	F	C	C
Approach Delay (s)		135.1			50.9			36.7			49.4	
Approach LOS		F			D			D			D	

Intersection Summary			
HCM 2000 Control Delay	62.9	HCM 2000 Level of Service	E
HCM 2000 Volume to Capacity ratio	0.90		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	93.4%	ICU Level of Service	F
Analysis Period (min)	15		

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
1: El Camino Real & Davey Glen

1/16/2015

Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
Lane Configurations							
Volume (vph)	129	89	11	43	845	1269	61
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	3.0		3.0	4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	0.95	0.95	
Frpb, ped/bikes	1.00	0.99		1.00	1.00	1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	
Frt	1.00	0.85		1.00	1.00	0.99	
Flt Protected	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (prot)	1770	1560		1770	3539	3511	
Flt Permitted	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (perm)	1770	1560		1770	3539	3511	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	132	91	11	44	862	1295	62
RTOR Reduction (vph)	0	79	0	0	0	3	0
Lane Group Flow (vph)	132	12	0	55	862	1354	0
Confl. Peds. (#/hr)		4					2
Confl. Bikes (#/hr)							5
Turn Type	NA	Perm	Prot	Prot	NA	NA	
Protected Phases	4		1	1	6	2	
Permitted Phases		4					
Actuated Green, G (s)	7.9	7.9		4.4	45.1	37.7	
Effective Green, g (s)	7.9	7.9		4.4	45.1	37.7	
Actuated g/C Ratio	0.13	0.13		0.07	0.75	0.63	
Clearance Time (s)	3.0	3.0		3.0	4.0	4.0	
Vehicle Extension (s)	2.0	2.0		2.0	4.0	4.0	
Lane Grp Cap (vph)	233	205		129	2660	2206	
v/s Ratio Prot	c0.07			c0.03	0.24	c0.39	
v/s Ratio Perm		0.01					
v/c Ratio	0.57	0.06		0.43	0.32	0.61	
Uniform Delay, d1	24.4	22.8		26.6	2.4	6.7	
Progression Factor	1.00	1.00		1.00	1.00	1.00	
Incremental Delay, d2	1.9	0.0		0.8	0.3	1.3	
Delay (s)	26.3	22.8		27.4	2.8	8.0	
Level of Service	C	C		C	A	A	
Approach Delay (s)	24.9				4.2	8.0	
Approach LOS	C				A	A	

Intersection Summary			
HCM 2000 Control Delay	8.2	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.59		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	10.0
Intersection Capacity Utilization	59.3%	ICU Level of Service	B
Analysis Period (min)	15		
c Critical Lane Group			

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	188	987	53	211	510	204	104	721	194	393	1013	102
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Lane Util. Factor	0.97	0.95		0.91	0.91	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Frpb, ped/bikes	1.00	1.00		1.00	1.00	0.94	1.00	1.00	0.98	1.00	1.00	0.96
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.99		1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	3503		1610	3383	1481	1770	3539	1549	1770	3539	1520
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	3503		1610	3383	1481	1770	3539	1549	1770	3539	1520
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	192	1007	54	215	520	208	106	736	198	401	1034	104
RTOR Reduction (vph)	0	3	0	0	0	165	0	0	89	0	0	45
Lane Group Flow (vph)	192	1058	0	193	542	43	106	736	109	401	1034	59
Confl. Peds. (#/hr)			31			39			9			20
Turn Type	Split	NA		Split	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	8	8		7	7		1	6		5	2	
Permitted Phases						7			6			2
Actuated Green, G (s)	29.8	29.8		24.7	24.7	24.7	10.8	32.0	32.0	19.0	40.2	40.2
Effective Green, g (s)	29.8	29.8		24.7	24.7	24.7	10.8	32.0	32.0	19.0	40.2	40.2
Actuated g/C Ratio	0.25	0.25		0.21	0.21	0.21	0.09	0.27	0.27	0.16	0.34	0.34
Clearance Time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	852	869		331	696	304	159	943	413	280	1185	509
v/s Ratio Prot	0.06	c0.30		0.12	c0.16		0.06	0.21		c0.23	c0.29	
v/s Ratio Perm						0.03			0.07			0.04
v/c Ratio	0.23	1.22		0.58	0.78	0.14	0.67	0.78	0.26	1.43	0.87	0.12
Uniform Delay, d1	35.9	45.1		43.0	45.1	39.0	52.9	40.7	34.7	50.5	37.5	27.6
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	0.1	108.3		2.6	5.5	0.2	10.1	6.4	1.6	213.8	9.0	0.5
Delay (s)	36.0	153.4		45.6	50.6	39.2	63.0	47.1	36.3	264.3	46.5	28.1
Level of Service	D	F		D	D	D	E	D	D	F	D	C
Approach Delay (s)		135.5			47.0			46.7			102.0	
Approach LOS		F			D			D			F	

Intersection Summary			
HCM 2000 Control Delay	87.9	HCM 2000 Level of Service	F
HCM 2000 Volume to Capacity ratio	1.07		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	110.5%	ICU Level of Service	H
Analysis Period (min)	15		

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
1: El Camino Real & Davey Glen

1/16/2015

Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
Lane Configurations							
Volume (vph)	92	39	10	98	1408	1051	81
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	3.0		3.0	4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	0.95	0.95	
Frpb, ped/bikes	1.00	0.99		1.00	1.00	1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	
Frt	1.00	0.85		1.00	1.00	0.99	
Flt Protected	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (prot)	1770	1560		1770	3539	3493	
Flt Permitted	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (perm)	1770	1560		1770	3539	3493	
Peak-hour factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	99	42	11	105	1514	1130	87
RTOR Reduction (vph)	0	37	0	0	0	5	0
Lane Group Flow (vph)	99	5	0	116	1514	1212	0
Confl. Peds. (#/hr)		4					5
Confl. Bikes (#/hr)							5
Turn Type	NA	Perm	Prot	Prot	NA	NA	
Protected Phases	4		1	1	6	2	
Permitted Phases		4					
Actuated Green, G (s)	6.9	6.9		7.3	46.1	35.8	
Effective Green, g (s)	6.9	6.9		7.3	46.1	35.8	
Actuated g/C Ratio	0.12	0.12		0.12	0.77	0.60	
Clearance Time (s)	3.0	3.0		3.0	4.0	4.0	
Vehicle Extension (s)	2.0	2.0		2.0	4.0	4.0	
Lane Grp Cap (vph)	203	179		215	2719	2084	
v/s Ratio Prot	c0.06			0.07	c0.43	0.35	
v/s Ratio Perm		0.00					
v/c Ratio	0.49	0.03		0.54	0.56	0.58	
Uniform Delay, d1	24.9	23.6		24.8	2.8	7.5	
Progression Factor	1.00	1.00		1.00	1.00	1.00	
Incremental Delay, d2	0.7	0.0		1.3	0.8	1.2	
Delay (s)	25.6	23.6		26.1	3.6	8.7	
Level of Service	C	C		C	A	A	
Approach Delay (s)	25.0				5.2	8.7	
Approach LOS	C				A	A	

Intersection Summary			
HCM 2000 Control Delay	7.6	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.58		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	10.0
Intersection Capacity Utilization	54.8%	ICU Level of Service	A
Analysis Period (min)	15		
c Critical Lane Group			

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	296	605	94	273	686	506	104	993	221	259	903	166
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Lane Util. Factor	0.97	0.95		0.91	0.91	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Frpb, ped/bikes	1.00	0.99		1.00	1.00	0.94	1.00	1.00	0.98	1.00	1.00	0.97
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.98		1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	3441		1610	3384	1485	1770	3539	1549	1770	3539	1535
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	3441		1610	3384	1485	1770	3539	1549	1770	3539	1535
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	308	630	98	284	715	527	108	1034	230	270	941	173
RTOR Reduction (vph)	0	10	0	0	0	185	0	0	73	0	0	66
Lane Group Flow (vph)	308	718	0	256	743	342	108	1034	157	270	941	107
Confl. Peds. (#/hr)			33			37			9			13
Turn Type	Split	NA		Split	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	8	8		7	7		1	6		5	2	
Permitted Phases						7			6			2
Actuated Green, G (s)	18.0	18.0		28.5	28.5	28.5	12.1	44.0	44.0	15.0	46.9	46.9
Effective Green, g (s)	18.0	18.0		28.5	28.5	28.5	12.1	44.0	44.0	15.0	46.9	46.9
Actuated g/C Ratio	0.15	0.15		0.24	0.24	0.24	0.10	0.37	0.37	0.12	0.39	0.39
Clearance Time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	514	516		382	803	352	178	1297	567	221	1383	599
v/s Ratio Prot	0.09	c0.21		0.16	0.22		0.06	c0.29		c0.15	c0.27	
v/s Ratio Perm						c0.23			0.10			0.07
v/c Ratio	0.60	1.39		0.67	0.93	0.97	0.61	0.80	0.28	1.22	0.68	0.18
Uniform Delay, d1	47.6	51.0		41.5	44.7	45.4	51.7	34.0	26.8	52.5	30.3	23.9
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	1.9	187.6		4.6	16.3	40.5	5.7	5.2	1.2	133.4	2.7	0.6
Delay (s)	49.5	238.6		46.1	61.0	85.8	57.4	39.2	28.0	185.9	33.1	24.6
Level of Service	D	F		D	E	F	E	D	C	F	C	C
Approach Delay (s)		182.4			67.1			38.7			61.8	
Approach LOS		F			E			D			E	

Intersection Summary			
HCM 2000 Control Delay	80.9	HCM 2000 Level of Service	F
HCM 2000 Volume to Capacity ratio	0.98		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	97.2%	ICU Level of Service	F
Analysis Period (min)	15		

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
1: El Camino Real & Davey Glen

1/16/2015

Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
Lane Configurations							
Volume (vph)	147	103	11	58	845	1271	69
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	3.0		3.0	4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	0.95	0.95	
Frpb, ped/bikes	1.00	0.99		1.00	1.00	1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	
Frt	1.00	0.85		1.00	1.00	0.99	
Flt Protected	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (prot)	1770	1560		1770	3539	3507	
Flt Permitted	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (perm)	1770	1560		1770	3539	3507	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	150	105	11	59	862	1297	70
RTOR Reduction (vph)	0	90	0	0	0	3	0
Lane Group Flow (vph)	150	15	0	70	862	1364	0
Confl. Peds. (#/hr)		4					2
Confl. Bikes (#/hr)							5
Turn Type	NA	Perm	Prot	Prot	NA	NA	
Protected Phases	4		1	1	6	2	
Permitted Phases		4					
Actuated Green, G (s)	8.5	8.5		4.8	44.5	36.7	
Effective Green, g (s)	8.5	8.5		4.8	44.5	36.7	
Actuated g/C Ratio	0.14	0.14		0.08	0.74	0.61	
Clearance Time (s)	3.0	3.0		3.0	4.0	4.0	
Vehicle Extension (s)	2.0	2.0		2.0	4.0	4.0	
Lane Grp Cap (vph)	250	221		141	2624	2145	
v/s Ratio Prot	c0.08			c0.04	0.24	c0.39	
v/s Ratio Perm		0.01					
v/c Ratio	0.60	0.07		0.50	0.33	0.64	
Uniform Delay, d1	24.2	22.3		26.4	2.6	7.4	
Progression Factor	1.00	1.00		1.00	1.00	1.00	
Incremental Delay, d2	2.6	0.0		1.0	0.3	1.5	
Delay (s)	26.7	22.4		27.4	3.0	8.9	
Level of Service	C	C		C	A	A	
Approach Delay (s)	24.9				4.8	8.9	
Approach LOS	C				A	A	

Intersection Summary			
HCM 2000 Control Delay	9.0	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.62		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	10.0
Intersection Capacity Utilization	61.0%	ICU Level of Service	B
Analysis Period (min)	15		
c Critical Lane Group			

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	188	987	53	211	510	214	104	727	194	411	1023	102
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Lane Util. Factor	0.97	0.95		0.91	0.91	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Frpb, ped/bikes	1.00	1.00		1.00	1.00	0.94	1.00	1.00	0.98	1.00	1.00	0.96
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.99		1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	3503		1610	3383	1481	1770	3539	1549	1770	3539	1520
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	3503		1610	3383	1481	1770	3539	1549	1770	3539	1520
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	192	1007	54	215	520	218	106	742	198	419	1044	104
RTOR Reduction (vph)	0	3	0	0	0	173	0	0	88	0	0	45
Lane Group Flow (vph)	192	1058	0	193	542	45	106	742	110	419	1044	59
Confl. Peds. (#/hr)			31			39			9			20
Turn Type	Split	NA		Split	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	8	8		7	7		1	6		5	2	
Permitted Phases						7			6			2
Actuated Green, G (s)	29.8	29.8		24.7	24.7	24.7	10.8	32.0	32.0	19.0	40.2	40.2
Effective Green, g (s)	29.8	29.8		24.7	24.7	24.7	10.8	32.0	32.0	19.0	40.2	40.2
Actuated g/C Ratio	0.25	0.25		0.21	0.21	0.21	0.09	0.27	0.27	0.16	0.34	0.34
Clearance Time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	852	869		331	696	304	159	943	413	280	1185	509
v/s Ratio Prot	0.06	c0.30		0.12	c0.16		0.06	0.21		c0.24	c0.29	
v/s Ratio Perm						0.03			0.07			0.04
v/c Ratio	0.23	1.22		0.58	0.78	0.15	0.67	0.79	0.27	1.50	0.88	0.12
Uniform Delay, d1	35.9	45.1		43.0	45.1	39.0	52.9	40.8	34.7	50.5	37.6	27.6
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	0.1	108.3		2.6	5.5	0.2	10.1	6.6	1.6	241.3	9.5	0.5
Delay (s)	36.0	153.4		45.6	50.6	39.3	63.0	47.4	36.3	291.8	47.2	28.1
Level of Service	D	F		D	D	D	E	D	D	F	D	C
Approach Delay (s)		135.5			47.0			46.9			111.3	
Approach LOS		F			D			D			F	

Intersection Summary			
HCM 2000 Control Delay	90.9	HCM 2000 Level of Service	F
HCM 2000 Volume to Capacity ratio	1.08		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	111.5%	ICU Level of Service	H
Analysis Period (min)	15		

c Critical Lane Group

HCM Signalized Intersection Capacity Analysis
1: El Camino Real & Davey Glen

1/16/2015

Movement	EBL	EBR	NBU	NBL	NBT	SBT	SBR
Lane Configurations							
Volume (vph)	95	41	10	121	1408	1054	93
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	3.0	3.0		3.0	4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	0.95	0.95	
Frpb, ped/bikes	1.00	0.99		1.00	1.00	1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	
Frt	1.00	0.85		1.00	1.00	0.99	
Flt Protected	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (prot)	1770	1560		1770	3539	3487	
Flt Permitted	0.95	1.00		0.95	1.00	1.00	
Satd. Flow (perm)	1770	1560		1770	3539	3487	
Peak-hour factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	102	44	11	130	1514	1133	100
RTOR Reduction (vph)	0	39	0	0	0	6	0
Lane Group Flow (vph)	102	5	0	141	1514	1227	0
Confl. Peds. (#/hr)		4					5
Confl. Bikes (#/hr)							5
Turn Type	NA	Perm	Prot	Prot	NA	NA	
Protected Phases	4		1	1	6	2	
Permitted Phases		4					
Actuated Green, G (s)	7.0	7.0		8.0	46.0	35.0	
Effective Green, g (s)	7.0	7.0		8.0	46.0	35.0	
Actuated g/C Ratio	0.12	0.12		0.13	0.77	0.58	
Clearance Time (s)	3.0	3.0		3.0	4.0	4.0	
Vehicle Extension (s)	2.0	2.0		2.0	4.0	4.0	
Lane Grp Cap (vph)	206	182		236	2713	2034	
v/s Ratio Prot	c0.06			c0.08	0.43	c0.35	
v/s Ratio Perm		0.00					
v/c Ratio	0.50	0.03		0.60	0.56	0.60	
Uniform Delay, d1	24.8	23.5		24.5	2.9	8.0	
Progression Factor	1.00	1.00		1.00	1.00	1.00	
Incremental Delay, d2	0.7	0.0		2.7	0.8	1.3	
Delay (s)	25.5	23.5		27.2	3.7	9.4	
Level of Service	C	C		C	A	A	
Approach Delay (s)	24.9				5.7	9.4	
Approach LOS	C				A	A	

Intersection Summary			
HCM 2000 Control Delay	8.1	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.59		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	10.0
Intersection Capacity Utilization	56.7%	ICU Level of Service	B
Analysis Period (min)	15		
c Critical Lane Group			

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	296	605	94	273	686	521	104	1001	221	262	905	166
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Lane Util. Factor	0.97	0.95		0.91	0.91	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Frpb, ped/bikes	1.00	0.99		1.00	1.00	0.94	1.00	1.00	0.98	1.00	1.00	0.97
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.98		1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	3441		1610	3384	1485	1770	3539	1549	1770	3539	1535
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	3441		1610	3384	1485	1770	3539	1549	1770	3539	1535
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	308	630	98	284	715	543	108	1043	230	273	943	173
RTOR Reduction (vph)	0	10	0	0	0	184	0	0	73	0	0	66
Lane Group Flow (vph)	308	718	0	256	743	359	108	1043	157	273	943	107
Confl. Peds. (#/hr)			33			37			9			13
Turn Type	Split	NA		Split	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	8	8		7	7		1	6		5	2	
Permitted Phases						7			6			2
Actuated Green, G (s)	18.0	18.0		28.5	28.5	28.5	12.1	44.0	44.0	15.0	46.9	46.9
Effective Green, g (s)	18.0	18.0		28.5	28.5	28.5	12.1	44.0	44.0	15.0	46.9	46.9
Actuated g/C Ratio	0.15	0.15		0.24	0.24	0.24	0.10	0.37	0.37	0.12	0.39	0.39
Clearance Time (s)	4.0	4.0		3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	4.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lane Grp Cap (vph)	514	516		382	803	352	178	1297	567	221	1383	599
v/s Ratio Prot	0.09	c0.21		0.16	0.22		0.06	c0.29		c0.15	c0.27	
v/s Ratio Perm						c0.24			0.10			0.07
v/c Ratio	0.60	1.39		0.67	0.93	1.02	0.61	0.80	0.28	1.24	0.68	0.18
Uniform Delay, d1	47.6	51.0		41.5	44.7	45.8	51.7	34.1	26.8	52.5	30.4	23.9
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	1.9	187.6		4.6	16.3	53.3	5.7	5.4	1.2	138.6	2.7	0.6
Delay (s)	49.5	238.6		46.1	61.0	99.1	57.4	39.5	28.0	191.1	33.1	24.6
Level of Service	D	F		D	E	F	E	D	C	F	C	C
Approach Delay (s)		182.4			71.9			39.0			63.1	
Approach LOS		F			E			D			E	

Intersection Summary			
HCM 2000 Control Delay	82.5	HCM 2000 Level of Service	F
HCM 2000 Volume to Capacity ratio	1.00		
Actuated Cycle Length (s)	120.0	Sum of lost time (s)	14.5
Intersection Capacity Utilization	97.5%	ICU Level of Service	F
Analysis Period (min)	15		

c Critical Lane Group

Pending Project Trip Generation Calculations

Pending Projects[1]	Land Use(s)[1]	Size[1]	Units	ITE Code[2]	Trip Generation Rates[2]						
					Daily	AM			PM		
						Rate	In	Out	Rate	In	Out
576-600 El Camino Real	Residential Condos	32	DU	230	5.81	0.44	17%	83%	0.52	67%	33%
	Retail	11	KSF	820	42.7	0.96	62%	38%	3.71	48%	52%
	Existing Retail (to be removed)	6	KSF	820	42.7	0.96	62%	38%	3.71	48%	52%
	Net Trips										
6,8,10 Davis Drive	Middle School	60	KSF	522	13.78	4.35	55%	45%	1.19	52%	48%

Pending Projects[1]	Land Use(s)[1]	Size[1]	Units	ITE Code[2]	Total Trips						
					Daily	AM Peak			PM Peak		
						Total	In	Out	Total	In	Out
576-600 El Camino Real	Residential Condos	32	DU	230	186	14	2	12	17	11	6
	Retail	11	KSF	820	470	11	7	4	41	20	21
	Existing Retail (to be removed)	6	KSF	820	-256	-6	-4	-2	-22	-11	-11
	Net Trips				*400*	*19*	*5*	*14*	*36*	*20*	*16*
6,8,10 Davis Drive	Middle School	60	KSF	522	827	261	144	117	71	37	34

Sources: 1: City of Belmont, 2014; 2: *ITE Trip Generation, 9th Edition*

Pending Project Trip Distribution Assumptions

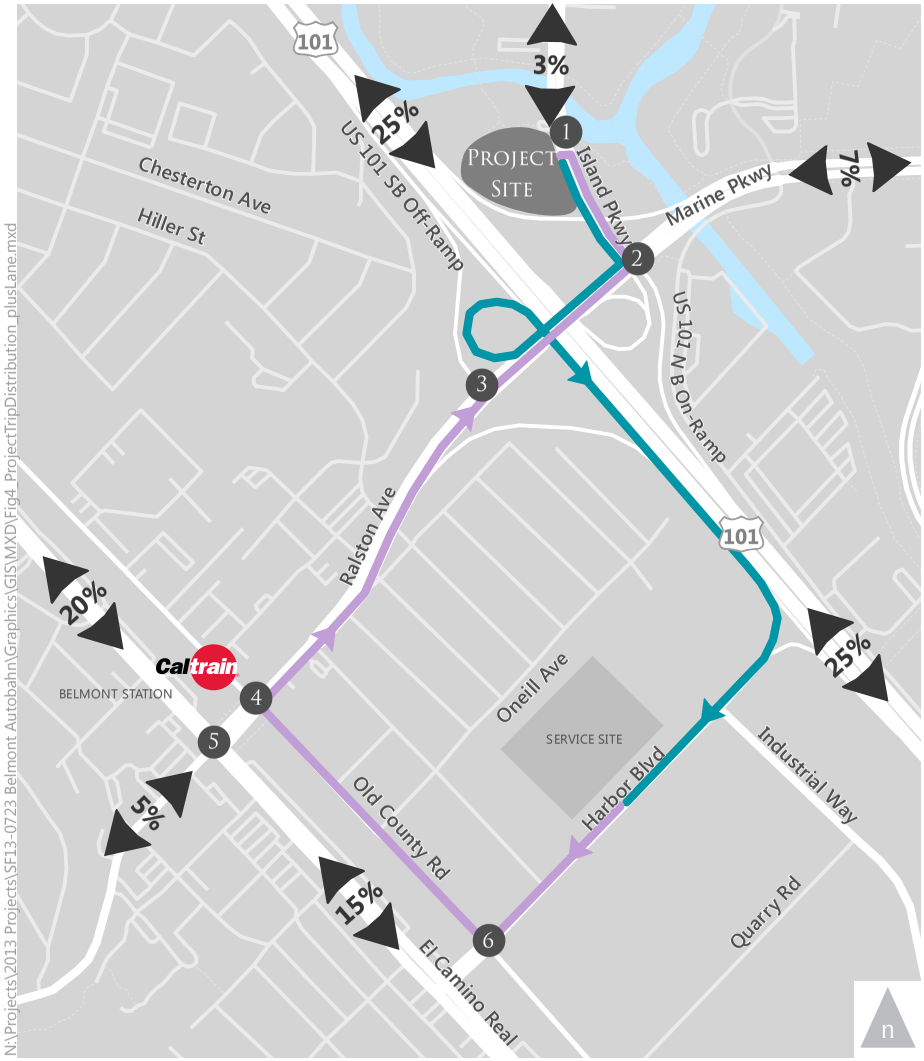
These percentages reflect the proportion of trips that travel external to the Project study area based on the location of the site, surrounding land uses (schools, employment and retail destinations, etc.), known regional travel routes, current traffic turning movements, and previous traffic studies in the area for the AM and PM peak periods.

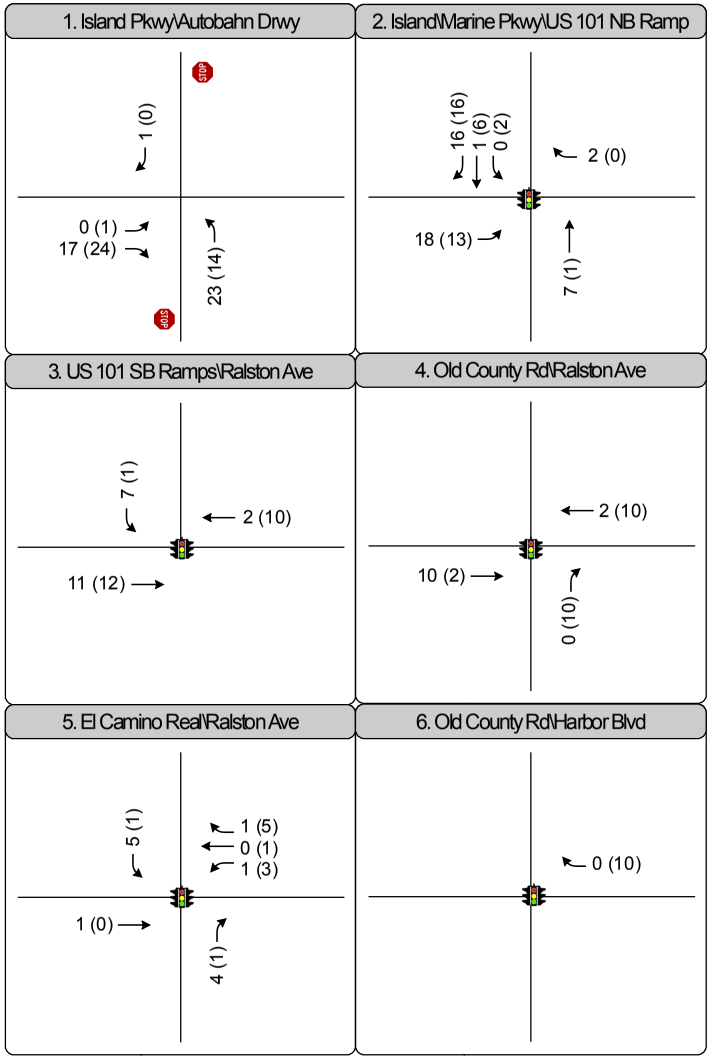
576-600 El Camino Real Mixed-Use Development

- Northbound Island Parkway – 1%
- Eastbound Marine Parkway – 5%
- Northbound US-101 – 25%
- Southbound US-101 – 25%
- Northbound El Camino Real – 22%
- Southbound El Camino Real – 17%
- Westbound Ralston Avenue – 5%

6, 8, 10 Davis Drive Middle School

- Northbound Island Parkway – 0%
- Marine Parkway – 0%
- Northbound US-101 – 7%
- Southbound US-101 – 7%
- Northbound El Camino Real – 15%
- Southbound El Camino Real – 10%
- Ralston Avenue – 61%





Project Site

Study Intersection

Shuttle route from service site to show site

Shuttle route from show site to service site

X% Project trip distribution

Caltrain Station

Traffic Signal

Stop Sign

AM (PM) Peak Hour Traffic Volume

N:\Projects\2013 Projects\SF13-0723 Belmont Autobahn\Graphics\GIS\MXD\Fig4_ProjectTripDistribution_plusLane.mxd

Figure 4

Project Trip Distribution & Assignment

I. UTILITIES/SERVICE SYSTEMS

1. BKF. 2014. *Davey Glen Sewer Capacity Analysis.* April 7, 2014.

2. BKF. 2014. *Water Demand Projection Worksheet—Davey Glen Project.* August 29, 2014.

255 Shoreline Drive, Suite 200
Redwood City, CA 94065
(650) 482-6300, Fax (650) 482-6399

TECHNICAL MEMORANDUM

Date: April 7, 2014 **BKF No.:** 20140022

To: Gilbert Yau, City of Belmont **Copies To:** Jason Mansfield, BKF
Jeff Smith, SRGNC

From: Jason Yee

Subject: **Davey Glen**
Sewer Capacity Analysis

Davey Glen
Existing Sewer Capacity Analysis Project Impact

INTRODUCTION

Davey Glen is a 1.8 acre site located at 490 El Camino Real on the southern corner of El Camino Real and Davey Glen Road between Belmont Avenue and Middle Road in northern Belmont, CA (see Figure 1 Site Map). At present, the site consists of a parking lot with a convenience store and office building. The plan for this site is to develop either a 69 unit high density rental project with two 4-story buildings (Scenario A), or a 63 unit high density rental project with a 4-story south building and 3-story west building (Scenario B) (see Figure 2 Conceptual Plans). There will also be a 5,000 SF retail component at the corner of El Camino Real and Davey Glen Road. For the purpose of this Technical Memo, Scenario A will be analyzed as the sewage generation is greater than that of Scenario B.

EXISTING CONDITION

The Sanitary Sewer System Capacity Analysis (SSSCA) prepared by RBF in 2010 analyzes the City of Belmont sewer system including the area of the proposed Davey Glen project. The SSSCA is the basis of the attached technical analysis for sewer flows. The project lies within sub-basin #6 and gravity flows north along El Camino to the North Road pump station. From the pump station, sewer flows are pumped south along El Camino towards sub-basin #2, crossing underneath the train tracks at Masonic Way, continuing along Ralston Ave, and eventually leading to the South Bayside System Authority (SBSA) wastewater treatment plant in Redwood City (see Figure 3 Sewer Map). The Peak Wet Weather Flow (PWWF) model from the SSSCA is used as a baseline to provide the most conservative estimate for sewer flows (as opposed to average dry weather flows).

The existing sewer pipes adjacent to the project are 8” diameter vitrified clay pipes (VCP) that then divides into 8” VCP and 12” high density polyethylene (HDPE) at Anita Avenue.

The parallel 8" and 12" pipes recombine at North Road just before the pump station into a 12" HDPE pipe. Existing adjusted flow rates (adjusted for backwater conditions, and reverse calculated from Sewer Master Plan) vary from 0.1348 cubic feet per second (cfs) at the 8" VCP pipe segment A to 1.2292 cfs at the 12" HDPE pipe segment J, immediately before entering the North Road pump station. The depth to diameter ratio (d/D) varies between 0.1910 and 0.3165. Per the City of Belmont Land Development Standards Manual Chapter 9, sewers must flow no more than half the full pipe diameter at projected average daily flow or d/D < 0.5. In the existing condition, at peak wet weather flow, all sewer pipes leading to the North Road pump station satisfy this criterion.

PROPOSED IMPROVEMENTS

The Davey Glen project proposes at-most 69 new units with 5,000 SF of retail space. Sewage generation was calculated as 95% of water demand and follows City of Redwood City Attachment Q water demand (see Attachment A) and sewage generation guidelines (see Attachment B). The additional sewage flow generated by the proposed project is approximately 8,409 gallons per day (GPD) or 0.0130 cfs. By adding this additional flow to the existing model data provided within the SSSCA during PWWF, updated d/D were calculated (see Table 1). The calculations take into account upstream flows or backwater conditions caused by adjacent flows from within sub-basin #6. An example calculation is provided for reference (see Attachment C).

CONCLUSION

While the proposed Davey Glen project would increase sewer generation over the existing site condition, the impact to the sewer system leading to the North Road pump station is minimal. The pipe depth to diameter ratio increases at the most by 0.0113 at pipe segment A. The largest d/D due to the Davey Glen improvements would occur at pipe segment H1B with a value of 0.3269, well below the maximum d/D of 0.5. Pipe segment H1B would also be running the fullest flow of all the pipes analyzed at 22.5% during peak wet weather flow. It is our conclusion that the impacts to the existing sewer system from the proposed Scenario A Davey Glen project will be negligible.

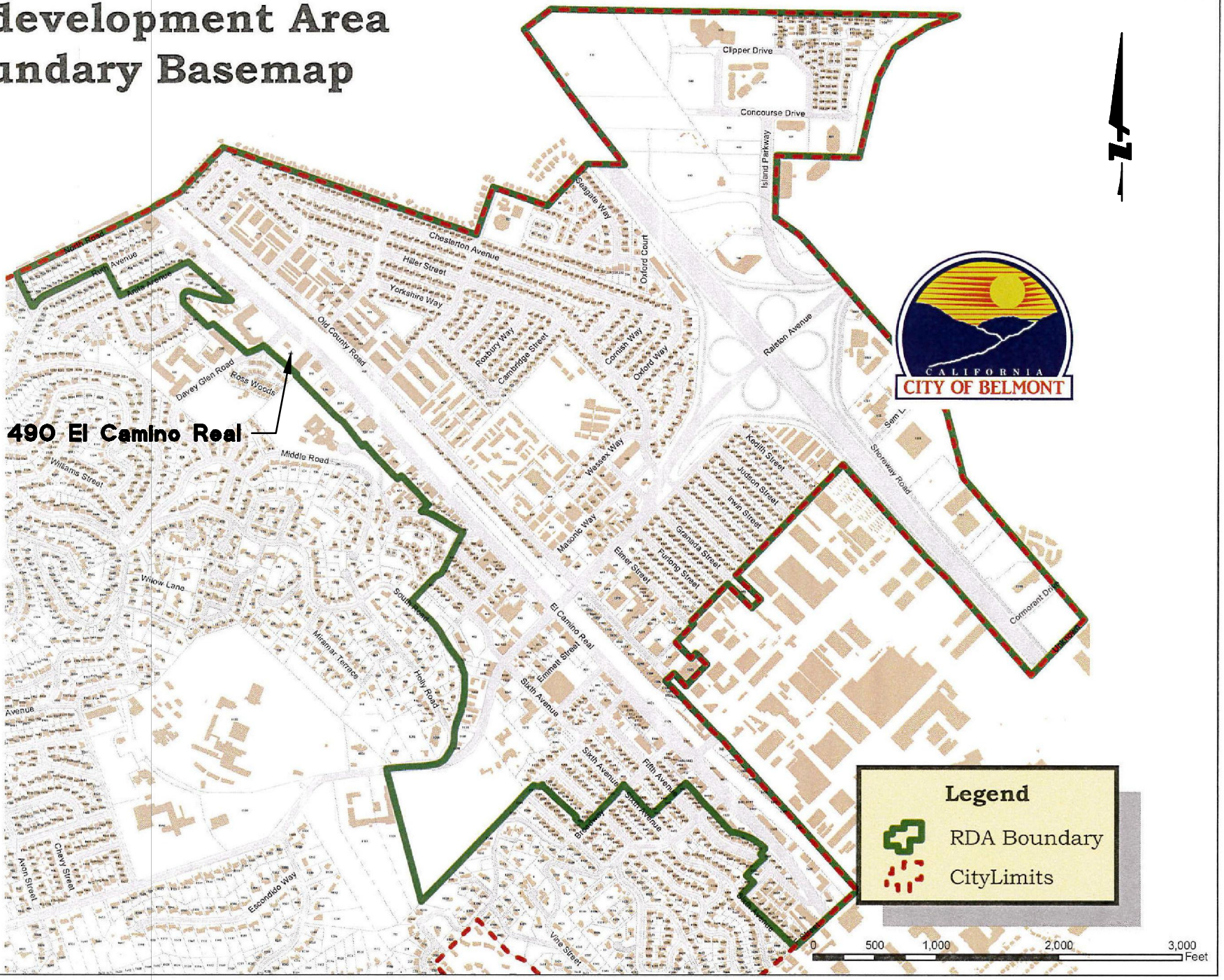
Attachments:

Figure 1 – Site Map
Figure 2 – Conceptual Plan (Scenario A)
Figure 3 – GIS Sewer Map: Sub-Basin 6

Table 1 – Calculations Table
Table 2 – SSSCA Existing Peak Wet Weather Flow Data (for Example)

Attachment A – Water Demand Projection Worksheet
Attachment B – Sewer Generation Projection Worksheet
Attachment C – Sample Hydraulic Calculation

Redevelopment Area Boundary Basemap



SITE SUMMARY

PARCEL 15: (63949.67 SF)	1.47 AC
PARCEL 16: (15819.78 SF)	0.36 AC
TOTAL AC	1.83 AC
69 UNITS/1.83 AC	= 37.7 DU/A

RESIDENTIAL UNIT MATRIX

1 BED UNITS	= 19 (28%)
2 BED UNITS	= 31 (45%)
2 BED TH/LIVEWORK UNITS	= 8 (11%)
3 BED UNITS	= 11 (16%)

UNIT BREAK-DOWN, PER LEVEL:

LEVEL 1	= 17
1 BED UNITS	= 4
2 BED UNITS	= 7
2 BED TH/LIVEWORK UNITS	= 4
3 BED UNITS	= 2
LEVEL 2	= 16
1 BED UNITS	= 5
2 BED UNITS	= 8
3 BED UNITS	= 3
LEVEL 3	= 20
1 BED UNITS	= 5
2 BED UNITS	= 8
2 BED TH UNITS	= 4
3 BED UNITS	= 3
LEVEL 4	= 16
1 BED UNITS	= 5
2 BED UNITS	= 8
3 BED UNITS	= 3
TOTAL UNIT COUNT	**= 69**

COMMUNITY ROOM	900 SF
FITNESS CENTER	1200 SF
LEASING CENTER/OFFICES	2020 SF
COMMERCIAL RETAIL	5000 SF

PODIUM PARKING SUMMARY

UNIFORM PARKING STALL SIZE	= 8.5' x 18'
REQUIRED COMMERCIAL PARKING: 1 SPACE PER 250 SF (4/1000)	= 20 SP
TOTAL COMMERCIAL PROVIDED: 1 SPACE PER 250 SF (4/1000)	= 20 SP
TOTAL LEASING CENTER PARKING	= 4 SP

490 EL CAMINO REAL - BELMONT, CA

SARES REGIS GROUP OF NORTHERN CALIFORNIA, LLC

PODIUM LEVEL (+0'-0")

4-STORY CONCEPT

0 16 32 64

DAHLIN group

JOB NO. 446.013
DATE 01-24-14

5865 Owens Drive
Pleasanton, CA 94588
925-251-7200

N

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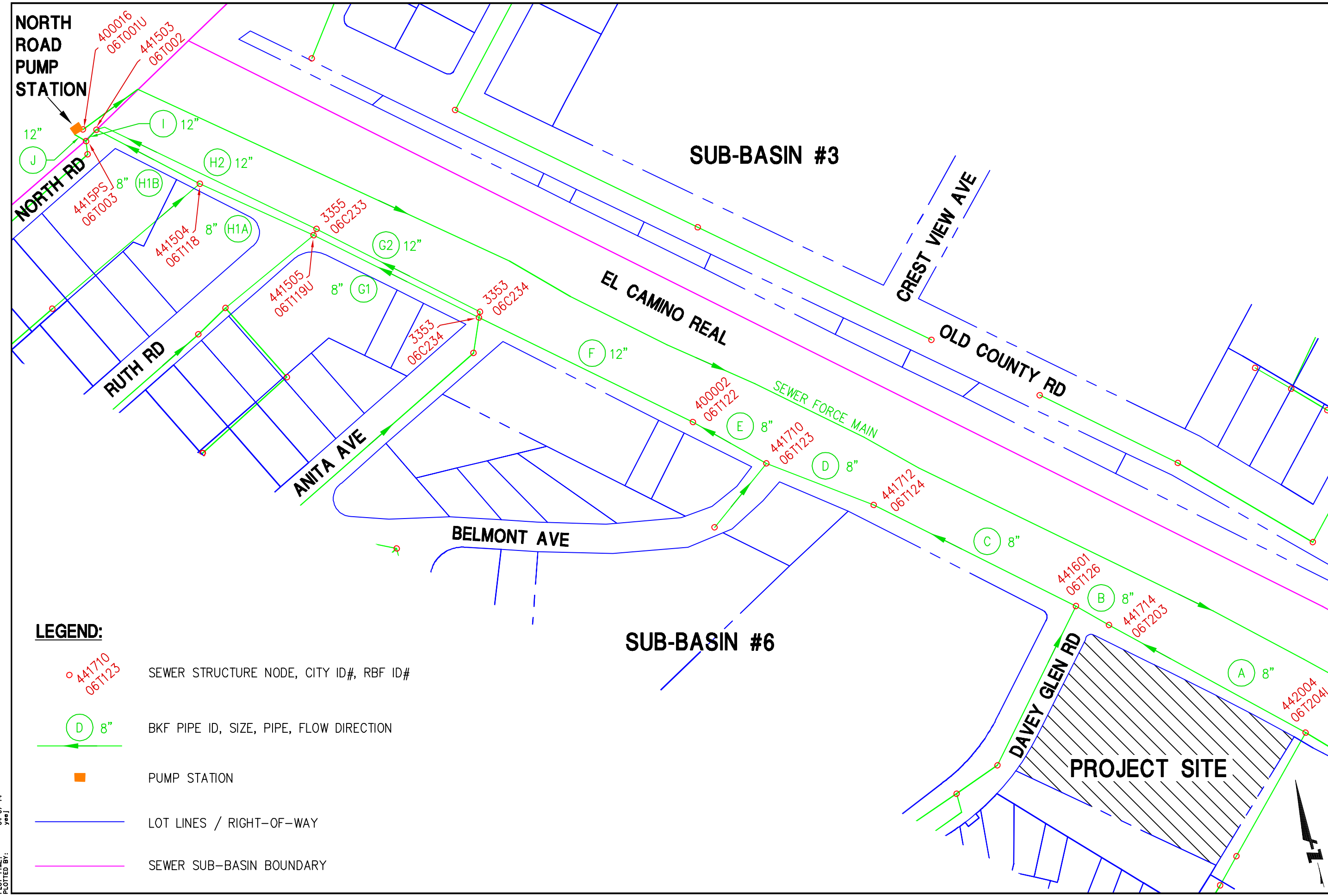

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DAVEY GLEN
GIS SEWER MAP SUB-BASIN 6
EXISTING, FUTURE, PROPOSED SEWER CAPACITY

CITY OF BELMONT — SAN MATEO COUNTY — CALIFORNIA

No.	Revisions

Date: 04/04/14
Scale: 1"=120'
Design: JY
Drawn: JY
Approved: JM
Job No: 20140022

Drawing Number:
FIGURE 1

1 OF 1

DRAWING NAME: K:\Eng14\140022\DWG\EXHIBITS\Sewer_Tech_Memo\Sewer_Map.dwg
PLOTTED: 04-07-14
PLOTTED BY: yesj

588

TABLE 1
DAVEY GLEN SEWER CAPACITY ANALYSIS

BKF	City ID#[1]		RBF ID#[1]		PIPE[1]	PIPE[1]	PIPE[1]	FULL[1]	ADJUSTED[1]	ADJUSTED[2]	ADJUSTED[3]	PROPOSED[4]	PROPOSED[4]	FLOW CAPACITY[4]	PROPOSED[5]
PIPE #	From	To	From	To	SIZE (in)	LENGTH (ft)	SLOPE	FLOW (cfs)	EX DEPTH (ft)	EX d/D	EX FLOW (cfs)	FLOW (cfs)	d/D	PROPOSED/FULL %	d/D < 0.5
A	442004	441714	06T204L	06T203	8	303	0.008	1.0594	0.1590	0.2385	0.1348	0.1478	0.2498	14.0%	PASS
B	441714	441601	06T203	06T126	8	51	0.029	2.0467	0.1550	0.2325	0.2240	0.2370	0.2386	11.6%	PASS
C	441601	441712	06T126	06T124	8	305	0.020	1.7225	0.1960	0.2940	0.3212	0.3342	0.3001	19.4%	PASS
D	441712	441710	06T124	06T123	8	155	0.034	2.2495	0.1840	0.2760	0.3709	0.3839	0.2809	17.1%	PASS
E	441710	400002	06T123	06T122	8	114	0.027	2.0043	0.1970	0.2955	0.3776	0.3906	0.3007	19.5%	PASS
F	400002	441506	06T122	06T121	12	321	0.018	4.8026	0.1910	0.1910	0.3813	0.3943	0.1942	8.2%	PASS
G1	441506	441505	06T121	06T119U	8	250	0.008	1.1061	0.1860	0.2790	0.1838	0.1903	0.2890	17.2%	PASS
G2	3353	3355	06C234	06C233	12	248	0.009	3.3666	0.2150	0.2150	0.3425	0.3490	0.2190	10.4%	PASS
H1A	441505	441504	06T119U	06T118	8	169	0.013	1.3793	0.1630	0.2445	0.1806	0.1871	0.2532	13.6%	PASS
H1B	441504	441503	06T118	06T002	8	158	0.006	0.9308	0.2110	0.3165	0.2032	0.2097	0.3269	22.5%	PASS
H2	3355	441503	06C233	06T002	12	329	0.009	3.3632	0.2380	0.2380	0.4199	0.4264	0.2417	12.7%	PASS
I	441503	4415PS	06T002	06T003	12	21	0.090	10.7010	0.2110	0.2110	1.0429	1.0559	0.2123	9.9%	PASS
J	4415PS	400016	06T003	06T001U	12	18	0.056	8.4901	0.2580	0.2580	1.2292	1.2422	0.2594	14.6%	PASS

Proposed Additional Flow

11,411 GPD Proposed Scenario A - 3,002 GPD Existing Condition = 8,409 GPD = 0.0130 cfs

See Water/Sewer Generation Projection Worksheet Figure 4

Notes:

1 Information per City of Belmont Sanitary Sewer System Capacity Analysis Final Project Report (SSSCA) dated April 2010 by RBF Consulting Exhibit 5 Existing Peak Wet Weather Flow d/D Ratios

2 Information extrapolated from SSSCA information

3 Information calculated by Hydraulic Calculator (manning's equation)

4 Information calculated based on 8,409 GPD (0.0130 cfs) additional sewage generation due to proposed project
Proposed project sewer generation estimated at 11,411 GPD (95% of 12,012 GPD indoor water demand)
Existing project sewer generation estimated at 3,002 GPD (95% of 3,160 GPD indoor water demand)
Pipes G1, G2, H1A, H1B, H2 are parellel. Additional proposed flow is divided evenly between both lengths

5 Maximum d/D depth ratio of 0.5 per City of Belmont Land Development Standards Manual Chapter 9

TABLE 2 pg 422 of 1418

LIBRATED EXISTING PWWF PIPELINE OUTPUT

	ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Unpeakable Flow (gpm)	Peakable Flow (gpm)	Coverage Flow (gpm)	Infiltration Flow (gpm)	Storm Flow (gpm)	Flow Type	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Critical Depth (ft)	Froude Number	Full Flow (gpm)	Coverage Count	Backwater Adjustment	Adjusted Depth (ft)	Adjusted Velocity (ft/s)
1886	40183	03C105U	03C103U	8.000	142.040	0.001	82.958	82.958	0.000	0.000	0.000	0.000	Free Surface	1.079	0.493	0.488	0.328	0.197	0.375	170.114	0.000	No	0.328	1.079
1887	40185	03C110M	03C107M	6.000	124.438	0.001	60.203	60.203	0.000	0.000	0.000	0.000	Free Surface	0.987	0.653	0.761	0.327	0.182	0.326	79.062	0.000	No	0.327	0.987
1888	40186	11C054U	11C053U	6.000	236.645	0.004	24.270	24.270	0.000	0.000	0.000	0.000	Free Surface	1.334	0.260	0.148	0.130	0.114	0.773	164.141	0.000	Yes	0.130	1.333
1889	40187	03C115M	03C113M	6.000	142.180	0.003	10.034	10.034	0.000	0.000	0.000	0.000	Free Surface	0.948	0.178	0.069	0.089	0.073	0.672	145.792	0.000	Yes	0.130	0.553
1890	40188	11C053U	11C052U	6.000	225.844	0.004	24.270	24.270	0.000	0.000	0.000	0.000	Free Surface	1.332	0.260	0.148	0.130	0.114	0.772	163.765	0.000	Yes	0.138	1.229
1891	40189	06C220M	06C218M	8.000	92.938	0.032	17.788	17.788	0.000	0.000	0.000	0.000	Free Surface	2.397	0.094	0.018	0.063	0.090	2.048	975.063	0.000	No	0.063	2.397
1892	40190	11C126U	11C052U	6.000	255.142	0.039	6.068	6.068	0.000	0.000	0.000	0.000	Free Surface	1.928	0.077	0.012	0.039	0.056	2.098	498.638	0.000	Yes	0.092	0.544
1893	40191	02T025M	02T024M	18.000	225.302	0.005	6,942.381	6,942.381	0.000	0.000	0.000	0.000	Pressurized	8.753	1.000	2.118	1.500	1.047	1.259	3,277.448	0.000	Yes	1.500	8.753
1894	40192	11C052U	11C051U	6.000	270.952	0.004	30.338	30.338	0.000	0.000	0.000	0.000	Free Surface	1.424	0.291	0.184	0.145	0.128	0.776	164.501	0.000	Yes	0.146	1.418
1895	40193	02T020U	02T021L	18.000	61.443	0.005	7,887.128	7,887.128	0.000	0.000	0.000	0.000	Pressurized	9.944	1.000	2.388	1.500	1.051	1.431	3,303.152	0.000	Yes	1.500	9.944
1896	40194	11C051U	11C049U	6.000	176.248	0.004	30.338	30.338	0.000	0.000	0.000	0.000	Free Surface	1.412	0.293	0.187	0.146	0.128	0.767	162.504	0.000	No	0.146	1.412
1897	40195	02C082M	02T020U	8.000	18.323	0.360	8.042	8.042	0.000	0.000	0.000	0.000	Free Surface	4.365	0.037	0.002	0.024	0.060	6.008	3,263.718	0.000	Yes	0.667	0.051
1898	40196	11C049U	11C048U	6.000	176.079	0.004	30.338	30.338	0.000	0.000	0.000	0.000	Free Surface	1.426	0.291	0.184	0.145	0.128	0.778	164.794	0.000	Yes	0.151	1.349
1899	40197	02C273M	02T013L	21.000	23.034	0.068	26.129	26.129	0.000	0.000	0.000	0.000	Pressurized	3.032	0.028	0.001	0.049	0.085	2.936	18,527.279	0.000	Yes	1.750	0.024
1900	40198	11C124U	11C048U	6.000	217.651	0.058	4.551	4.551	0.000	0.000	0.000	0.000	Free Surface	2.026	0.062	0.007	0.031	0.049	2.475	607.051	0.000	Yes	0.094	0.396
1901	40199	02C038M	04C015U	6.000	62.006	0.198	13.725	13.725	0.000	0.000	0.000	0.000	Free Surface	4.351	0.078	0.012	0.039	0.085	4.730	1,124.149	0.000	Yes	0.039	4.343
1902	402	10C332M	10C312U	6.000	141.072	0.007	4.429	4.429	0.000	0.000	0.000	0.000	Free Surface	0.978	0.099	0.020	0.050	0.048	0.938	216.070	0.000	Yes	0.065	0.662
1903	40200	11C048U	11C047U	6.000	154.013	0.004	34.889	34.889	0.000	0.000	0.000	0.000	Free Surface	1.470	0.314	0.214	0.157	0.137	0.768	162.771	0.000	Yes	0.174	1.280
1904	40201	04C015U	04C010U	6.000	63.712	0.196	13.725	13.725	0.000	0.000	0.000	0.000	Free Surface	4.335	0.078	0.012	0.039	0.085	4.706	1,117.984	0.000	No	0.039	4.335
1905	40202	11C047U	11C046U	6.000	90.552	0.004	51.167	51.167	0.000	0.000	0.000	0.000	Free Surface	1.657	0.381	0.309	0.191	0.167	0.776	165.710	0.000	Yes	0.191	1.651
1906	40203	04C010U	04T009M	6.000	107.082	0.199	13.725	13.725	0.000	0.000	0.000	0.000	Free Surface	4.359	0.077	0.012	0.039	0.085	4.741	1,126.943	0.000	Yes	0.100	1.097
1907	40204	11C046U	11C044U	6.000	89.896	0.004	51.167	51.167	0.000	0.000	0.000	0.000	Free Surface	1.645	0.383	0.312	0.192	0.167	0.768	164.167	0.000	No	0.192	1.645
1908	40205	02C095M	02C094M	6.000	182.920	0.028	37.662	37.662	0.000	0.000	0.000	0.000	Free Surface	2.961	0.202	0.089	0.101	0.143	1.964	421.825	0.000	Yes	0.108	2.674
1909	40206	11C044U	11C043U	6.000	63.542	0.004	51.167	51.167	0.000	0.000	0.000	0.000	Free Surface	1.649	0.383	0.311	0.191	0.167	0.770	164.595	0.000	No	0.191	1.649
1910	40207	04C035M	04T002M	6.000	24.891	0.001	36.176	36.176	0.000	0.000	0.000	0.000	Pressurized	0.992	0.432	0.388	0.216	0.140	0.431	93.322	0.000	Yes	0.500	0.410
1911	40208	11C043U	11C042M	6.000	169.647	0.004	51.167	51.167	0.000	0.000	0.000	0.000	Free Surface	1.664	0.380	0.307	0.190	0.167	0.781	166.766	0.000	No	0.190	1.664
1912	40209	04C040M	04C039M	6.000	185.139	0.023	28.043	28.043	0.000	0.000	0.000	0.000	Free Surface	2.521	0.184	0.074	0.092	0.123	1.756	379.859	0.000	No	0.092	2.521
1913	40210	10T009U	10T008M	12.000	128.000	0.035	3,179.223	3,179.223	0.000	0.000	0.000	0.000	Pressurized	9.019	1.000	1.067	1.000	0.969	1.589	2,979.392	0.000	No	1.000	9.019
1914	40211	04C180M	04C178M	6.000	70.240	0.142	13.167	13.167	0.000	0.000	0.000	0.000	Free Surface	3.829	0.082	0.014	0.041	0.083	4.040	952.736	0.000	Yes	0.045	3.311
1915	40212	10C212U	10T009U	8.000	189.000	0.075	19.933	19.933	0.000	0.000	0.000	0.000	Free Surface	3.326	0.081	0.013	0.054	0.095	3.061	1,484.416	0.000	No	0.054	3.326
1916	40213	05T130M	05T109M	18.000	70.390	0.016	6,492.689	6,492.689	0.000	0.000	0.000	0.000	Pressurized	8.186	1.000	1.075	1.500	1.366	1.178	6,042.234	0.000	Yes	1.500	8.186
1917	40214	10T003U	10T002U	16.000	120.924	0.043	3,889.975	3,889.975	0.000	0.000	0.000	0.000	Free Surface	11.628	0.527	0.545	0.702	1.155	2.739	7,132.870	0.000	No	0.702	11.628
1918	40215	02C195U	02C133L	6.000	221.433	0.137	15.062	15.062	0.000	0.000	0.000	0.000	Free Surface	3.931	0.088	0.016	0.044	0.089	3.995	933.268	0.000	Yes	0.071	1.949
1919	40216	11C063U	11C062M	6.000	66.443	0.030	8.668	8.668	0.000	0.000	0.000	0.000	Free Surface	1.956	0.098	0.020	0.049	0.067	1.890	436.106	0.000	No	0.049	1.956
1920	40217	02C175M	02C166M	6.000	135.490	0.073	4.430	4.430	0.000	0.000	0.000	0.000	Free Surface	2.181	0.058	0.006	0.029	0.048	2.757	682.645	0.000	Yes	0.035	1.621
1921	40218	08C371U	08C369U	6.000	75.139	0.093	142.454	142.454	0.000	0.000	0.000	0.000	Free Surface	6.682	0.291	0.185	0.146	0.285	3.641	771.463	0.000	Yes	0.150	6.411
1922	40219	02C130M	02C127M	6.000	231.138	0.015	91.115	91.115	0.000	0.000	0.000	0.000	Free Surface	3.056	0.372	0.294	0.186	0.226	1.453	309.827	0.000	Yes	0.186	3.053
1923	40220	06C152U	06C151U	6.000	63.611	0.151	115.359	115.359	0.000	0.000	0.000	0.000	Free Surface	7.461	0.232	0.118	0.116	0.255	4.601	980.922	0.000	Yes	0.130	6.319
1924	40221	02C125M	02C126M	6.000	34.736	0.015	91.115	91.115	0.000	0.000	0.000	0.000	Free Surface	3.048	0.372	0.295	0.186	0.226	1.447	308.645	0.000	Yes	0.199	2.786
1925	40222	06C151U	06C149M	6.000	206.164	0.063	115.359	115.359	0.000	0.000	0.000	0.000	Free Surface	5.453	0.289	0.183	0.145	0.255	2.981	631.518	0.000	Yes	0.149	5.237
1926	40223	08T005M	08T003M	15.000	253.152	0.018	2,689.908	2,689.908	0.000	0.000	0.000	0.000	Pressurized	7.602	0.613	0.694	0.766	0.990	1.665	3,877.143	0.000	Yes	1.250	4.884
1927	40224	06C157U	06C147M	6.000	147.115	0.081	3.139	3.139	0.000	0.000	0.000	0.000	Free Surface	2.034	0.048	0.004	0.024	0.040	2.823	717.810	0.000	Yes	0.114	0.207
1928	40225	08C125M	08T004M	6.000	225.761	0.018	10.323	10.323	0.000	0.000	0.000	0.000	Free Surface	1.718	0.120	0.031	0.060	0.074	1.493	336.101	0.000	Yes	0.500	0.117
1929	40226	06C158U	06C157U	6.000	145.459	0.027	3.139	3.139	0.000	0.000	0.000	0.000	Free Surface	1.383	0.062	0.008	0.031	0.040	1.683	412.392	0.000	No	0.031	1.383
1930	40227	460264	06C221M	6.000	101.368	0.039	9.417	9.417	0.000	0.000	0.000	0.000	Free Surface	2.208	0.095	0.019	0.048	0.070	2.163	500.643	0.000	Yes	0.049	2.117
1931	40228	06T121M	06C234U	12.000	7.846	0.010	122.171	122.171	0.000	0.000	0.000	0.000	Free Surface	2.704	0.186	0.075	0.186	0.215	1.325	1,618.983	0.000	Yes	0.189	2.638
1932	40229	06C225M	06C221M	6.000	189.143	0.010	8.371	8.371	0.000	0.000	0.000	0.000	Free Surface	1.343	0.123	0.032	0.062	0.066	1.152	258.672	0.000	No	0.062	1.343
1933	40230	06T119U	06C233U	12.000	9.288	0.022	65.387	65.387	0.000	0.000	0.000	0.000	Free Surface	2.918	0.115	0.028	0.115	0.156	1.837	2,352.748	0.000	Yes	0.176	1.561
1934	40231	06T003M	ORTH_ROAD_W	12.000	17.703	0.056	556.112	556.112	0.000	0.000	0.000	0.000	Free Surface	7.714	0.258	0.146	0.258	0.470	3.173	3,810.642	0.000	No	0.258	7.714
1935	40232	06C234U	06C233U	12.000	247.701	0.009	122.171	122.171	0.000	0.000	0.000	0.000	Free Surface	2.575	0.192	0.081	0.192	0.215	1.239	1,511.016	0.000	Yes	0.215	2.193
1936	40233	02C210M	02C134U	6.000	136.708	0.015	0.886	0.886	0.000	0.000	0.000	0.000	Free Surface	0.763	0.040	0.003	0.020	0.021	1.168	305.410	0.000	Yes	0.024	0.568
1937	40234	06C233U	06T002M	12.000	329.077	0.009	187.558	187.558	0.000	0.000	0.000	0.000	Free Surface	2.917	0.238	0.124	0.238	0.267	1.253	1,509.527	0.000	No	0.238	2.917
1938	40235	09C120M	09C117M	8.000	122.539	0.009	9.864	9.864	0.000	0.000	0.000	0.000	Free Surface	1.280	0.096	0.019	0.064	0.067	1.079	512.173	0.000	No	0.064	1.280
1939	40236	08C261U	08C258M	6.000	136.904	0.015	10.323	10.323	0.000	0.000	0.000	0.000	Free Surface	1.606	0.126	0.034	0.063	0.074	1.362	305.191	0.000	Yes	0.096	0.874
1940	40237	09C005M	09C010M	8.000	50.744	0.197	125.772	125.772	0.000	0.000	0.000	0.000	Free Surface	8.129	0.155	0.052	0.103	0.245	5.361	2,414.052	0.000	Yes	0.108	7.629
1941	40239	09C010M	09C008M	8.000	193.669	0.138	125.772	125.772	0.000	0.000	0.000	0.000	Free Surface	7.179	0.169	0.062	0.113	0.245	4.527	2,023.173	0.000	Yes	0.115	6.954
1942	40240	02C179U	02C178M	6.000	83.468	0.015	10.126	10.126	0.000	0.000	0.000	0.000	Free Surface	1.606	0.124	0.033	0.062	0.073	1.372	307.763	0.000	No	0.062	1.606
1943	40241	09C110M	09T042M	6.000	144.971	0.045	0.000	0.000	0.000	0.000	0.000	0.000	Free Surface	0.000	0.000	0.000	0.000	0.000	0.000	533.058	0.000	Yes	0.071	0.000
1944	40242	02C177U	02C128M	6.000	206.333	0.015	10.126	10.126	0.000	0.000	0.000	0.000	Free Surface	1.607	0.124	0.033	0.062	0.073	1.373	307.999	0.000	Yes	0.124	0.592
1945	40243	11T006M	11T005M	8.000	145.016	0.028	445.818	445.818	0.000	0.000	0.000	0.000	Free Surface	5.746	0.496	0.494	0.331	0.473	1.989	903.152	0.000	No	0.331	5.746
1946	40244	02C274U	03C158M	6.000	54.324	0.008	4.557	4.557	0.000	0.000	0.000	0.000	Free Surface	1.022	0.098	0.020	0.049	0.049	0.985	227.246	0.000	Yes	0.070	0.603
1947	40245	10C255M	10C229U	8.000	313.743	0.145	4.429	4.429	0.000	0.000	0.000	0.000	Free Surface	2.653	0.034	0.002	0.023	0.045	3.776	2,071.803	0.000	Yes	0.073	0.473
1948	40246	02T162U	02T161U	21.000	261.183	0.010	2,249.100	2,249.100	0.000	0.000	0.000	0.000	Free Surface	5.852	0.386	0.316	0.675	0.821	1.455	7,128.185	0.000	Yes	0.676	5.846
1949	40247	08C540U	08C535U	6.000	223.953	0.018	6.194	6.194	0.000	0.000	0.000	0.000	Free Surface	1.477	0.094	0.018	0.047	0.057	1.456	337.455	0.000	No	0.047	1.477
1950	40248	02T161U	02C123U	21.000	88.516	0.010	2,249.100	2,249.100	0.000	0.000	0.000	0.000	Free Surface	5.840	0.386	0.316	0.676	0.821	1.451	7,109.869	0.000	Yes	0.684	5.757

WATER DEMAND PROJECTION WORKSHEET

Existing 490 El Camino Real Retail and Office Buildings

Office/Commercial: 16,000 sf x 0.13 gpd/sf =
2,080 GPD

Retail: 60 ft frontage x 450 GPD/25 ft frontage =
1,080 GPD

Landscape: Approx 5% of site: 1.8 ac x 43,560 sf/ac x 0.05 = 3,920 sf of landscaping
3,920 sf* x 3.5 ft^3 of water/sf of landscape per year = 13,720 ft^3/yr
13,720 ft^3/yr x 7.48 gal/ft^3 x 1 yr/365 days =
281 GPD

Total Domestic Water Demand Projection:
Residential + Retail + Landscaping projection =
3,441 GPD projected

Scenario A Project (69 units)

Residential: 19 units x 1.6 persons/unit = 30.4 persons
39 units x 2.5 persons/unit = 97.5 persons
11 units x 3.15 persons/unit = 34.7 persons
163 persons x 60 GPD =
9,780 GPD

Retail: 124 ft frontage x 450 GPD/25 ft frontage =
2,232 GPD

Landscape: Assuming 10% of site: 1.8 ac x 43,560 sf/ac x 0.1 = 7,840 sf of landscaping
7,840 sf* x 3.5 ft^3 of water/sf of landscape per year = 27,440 ft^3/yr
27,440 ft^3/yr x 7.48 gal/ft^3 x 1 yr/365 days =
562 GPD

Total Domestic Water Demand Projection:
Residential + Retail + Landscaping projection =
12,574 GPD projected

SEWAGE GENERATION PROJECTION WORKSHEET

Sewer generation is based on 95% of indoor (residential, retail, commercial) water demand projection.

GPD_W = GPD Water Demand Projected from Water Demand
GPD_S = GPD Sewer Demand Projected

Existing 490 El Camino Real Retail and Office Buildings

Office/Commercial: 2,080 GPD_W X 0.95 = 1,976 GPD_S

Retail: 1,080 GPD_W X 0.95 = 1,026 GPD_S

Average Daily Flow = 3,002 GPD

Scenario A Project (69 units)

Residential: 9,780 GPD_W X 0.95 = 9,291 GPD_S

Retail: 2,232 GPD_W X 0.95 = 2,120 GPD_S

Average Daily Flow = 11,411 GPD

Davey Glen Sample Hydraulic Calculation

General Information:

BKF Pipe ID #J

City Node ID 4415PS to 400016

RBF Node ID 06T003 to 06T001U (North Road Pump Station)

Existing Data collected from RBF SSSCA Appendix C Model Results

Calibrated Existing PWWF Pipeline Output (page 422 of 1418) see Table 2.

Calculation:

Step 1: Backwards calculate existing adjusted flowrate ($Q_{ex, adj}$) adjusted for backwater condition

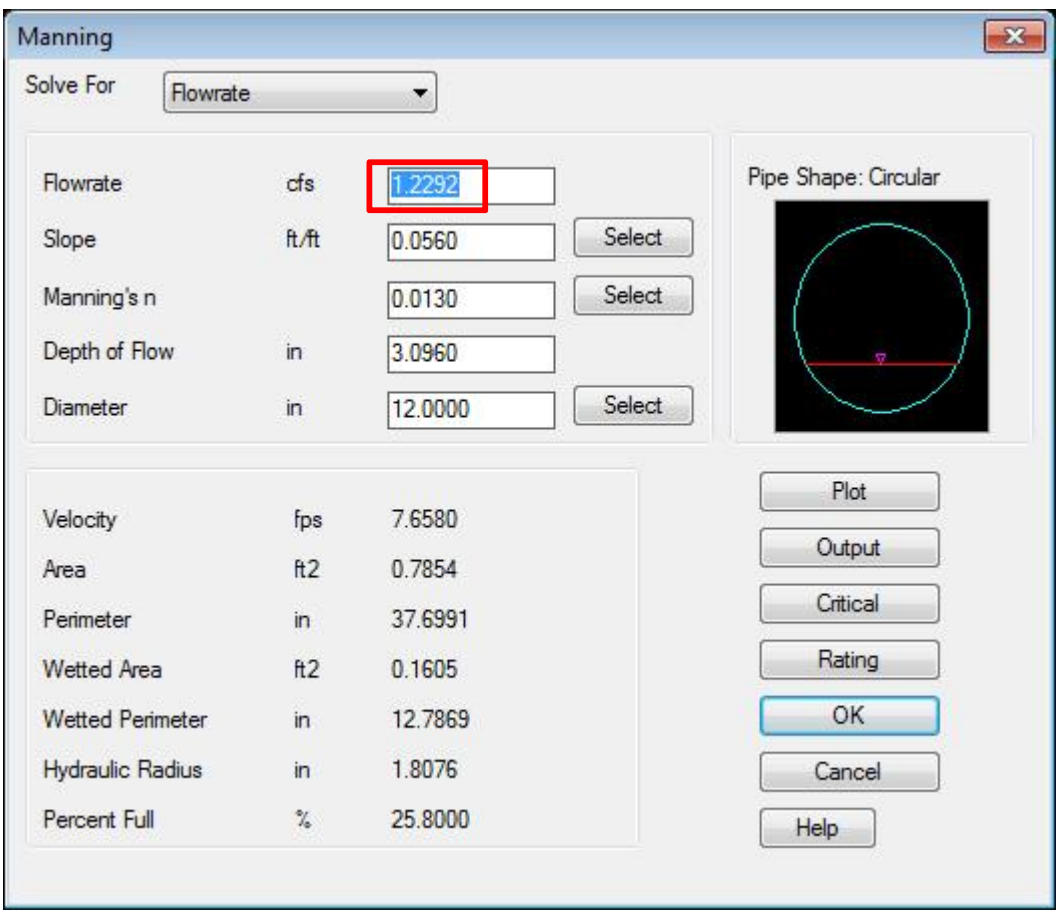
Slope = 0.056

Diameter = 12in

Mannings n = 0.013

Adjusted Depth = 0.258 ft (taking into account backwater condition) = 3.0960 in

Solve for $Q_{ex, adj}$ = 1.2292 cfs



In this instance (Pipe J) there is no backwater analysis; pipe does not encounter additional flow.

Step 2: Add additional project flow (Q_{add}) of 8,409 GPD = 0.0130 cfs

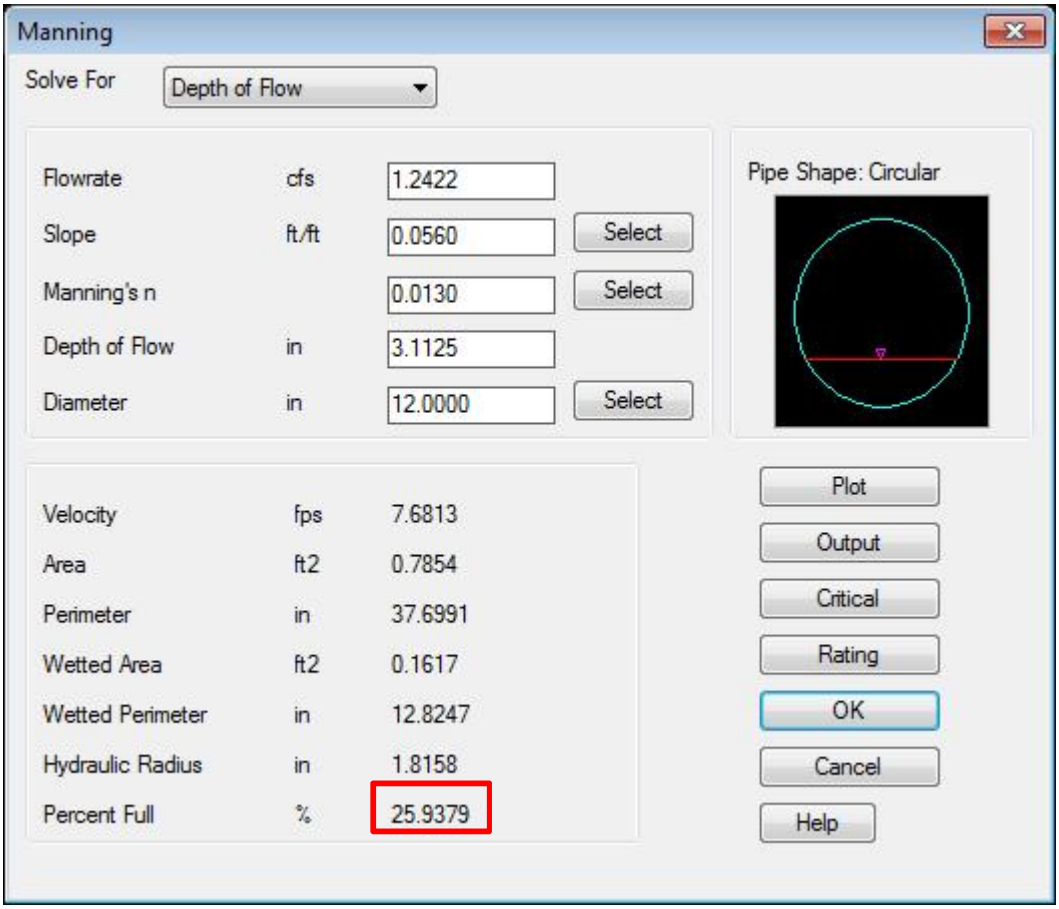
$Q_{ex,\ adj} + Q_{add} = Q_{total}$

1.2292 + 0.0130 = 1.2422 cfs

Step 3: Calculate new d/D with total flowrate

Enter new flowrate Q_{total} into calculator.

Solve for d/D (Percent Full) = 0.2594



Step 4: Analysis

Total Flow Capacity of Pipe per Table 2: 3,810.642 GPM = 8.4901 cfs

Total Flow with Project: 1.2422 cfs PASS

Maximum d/D ratio: 0.50

Total d/D ratio: 0.2594 PASS

BkF
ENGINEERS / SURVEYORS / PLANNERS

Job # 20140022
August 29, 2014

WATER DEMAND PROJECTION WORKSHEET

Proposed Davey Glen Project (73 units)

Indoor Water Demand Projection

Residential: 23 units x 1.6 persons/unit = 36.8 persons
35 units x 2.5 persons/unit = 87.5 persons
15 units x 3.15 persons/unit = 47.3 persons
172 persons x 60 GPD = 10,320 GPD

Retail: 126 ft frontage x 450 GPD/25 ft frontage = 2,268 GPD

Landscaping Water Demand Projection

Assuming 10% of site: 1.8 ac x 43,560 sf/ac x 0.1 = 7,840 sf of landscaping

7,840 sf* x 3.5 ft^3 of water/sf of landscape per year = 27,440 ft^3/yr
27,440 ft^3/yr x 7.48 gal/ft^3 x 1 yr/365 days = 562 GPD

Total Domestic Water Demand Projection:

Indoor + Landscaping projection = 13,150 GPD projected

Note:
Water demand calculations are approximate and do not take into account fixture units.