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SAN MATEO COUNTY COUNTYWIDE SITING ELEMENT FINAL DRAFT

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CHAPTER I

PURPOSE AND SCOPE

The California Integrated Waste Management Act of 1989, as amended, directs cities, counties, and regional agencies to prepare a Countywide or Regionwide Integrated Waste Management Plan. This plan must consist of the Source Reduction and Recycling Elements (SRREs), the Household Hazardous Waste Elements (HHWEs), and the Non-Disposal Facility Elements (NDFEs) of each jurisdiction within a county or region, and a Countywide or Regional Integrated Waste Management Plan Summary and Countywide or Regional Siting Element.

The statutory requirement for a Countywide or Regional Siting Element is set forth in the California Public Resources Code (PRC) Section 41700, as follows:

Each county shall prepare a countywide siting element which provides a description of the areas to be used for development of adequate transformation¹ or disposal capacity concurrent and consistent with the development and implementation of the county and city source reduction and recycling elements adopted pursuant to this part.

The principal purpose of this requirement is to demonstrate that within a county or region, there is a minimum of 15 years of combined permitted disposal capacity through existing or planned disposal facilities or through additional waste management strategies.

This document is the San Mateo County Countywide Siting Element. In accordance with statutory (PRC, Sections 41700-41721.5) and regulatory (California Code of Regulations [CCR] Sections 18755-18756.7) requirements, it consists of the following:

- goals and policies for the Countywide Siting Element;
- the amount of city and unincorporated County wastes requiring disposal, the disposal capacity of county landfills, and any additional capacity required to provide a minimum of 15 years of solid waste disposal capacity;
- identification of existing solid waste disposal facilities receiving waste from San Mateo County and its cities;
- siting criteria for new or expanded solid waste disposal facilities;

¹ It should be noted that in both the statute requiring preparation of a Siting Element and the CIWMB Siting Element Guidelines, the term *waste disposal* includes transformation (the elimination of wastes by incineration processes) as well as landfill disposal. In San Mateo County, however, there are currently no transformation facilities and the cities and unincorporated area of San Mateo County have no plans to develop transformation facilities as a means to reach the required waste diversion rate of 50% by the year 2000. Therefore, this Siting Element discusses only the landfill disposal options the San Mateo County jurisdictions will utilize.

- location and description of new or expanded disposal facility sites;
- verification of consistency with City and County General Plans;
- strategies for disposal of excess solid wastes; and
- procedures for implementing the Countywide Siting Element.

CHAPTER II

GOALS AND POLICIES

A. INTRODUCTION

The first requirement for the preparation of a Countywide Siting Element is a statement of the Goals and Policies that ensure that sufficient solid waste disposal capacity is available to accommodate the wastes generated within a county and its incorporated cities for a 15 year planning period. The following goals and policies provide direction to San Mateo County and its cities for the development of Siting Element programs.

B. GOALS

1. Implement an Integrated Waste Management Plan which seeks to maximize waste diversion through source reduction, reuse, recycling, yard waste recycling and composting, and which provides for the disposal of the residue of wastes which cannot be diverted through environmentally safe land disposal practices.
2. Undertake formal landfill closure activities and subsequent postclosure maintenance at the Hillside Landfill once it reaches capacity, and once approval of the final closure and postclosure maintenance plans for this waste disposal site have been obtained from appropriate regulatory agencies.
3. Encourage continuation of solid and hazardous waste diversion activities at all disposal and transfer facilities.
4. Continue to support existing landfill and transfer station load check and other programs to prevent disposal of wastes which cannot be accepted at existing permitted landfills. Such wastes include hazardous wastes, liquid wastes, and designated wastes which have not been approved for disposal at landfills in San Mateo County.

C. POLICIES

1. The San Mateo County Health Services Agency, Division of Environmental Health Services, serving as the Local Enforcement Agency (LEA) for the CIWMB, will work with the owner of the Hillside Landfill and with the Town of Colma to ensure that closure and post-closure maintenance plans address long-term environmental issues associated with closure of this facility.
2. The County will work with BFI, the owner and operator of the Ox Mountain Landfill, to ensure that the Landfill offers environmentally safe disposal for the majority of San Mateo County's solid waste for the next 15 years.

3. The LEA will work together with the owners and operators of landfills in San Mateo County to ensure that landfill disposal, closure, and post-closure maintenance activities are carried out in an environmentally safe manner.

D. SCHEDULE FOR IMPLEMENTATION OF POLICIES

A full implementation schedule is presented in Chapter VII.

CHAPTER III

DISPOSAL CAPACITY REQUIREMENTS

A. INTRODUCTION

This chapter analyzes the amount of waste disposal capacity available to San Mateo County. It demonstrates that there is sufficient capacity in county landfills receiving wastes from the cities and unincorporated areas of San Mateo County to handle the wastes of these jurisdictions for the 15-year planning period, 1998-2012.

B. DISPOSAL CAPACITY ANALYSIS

The California Integrated Waste Management Board's (CIWMB) Planning Guidelines for Preparing a Siting Element (Siting Element Guidelines) (California Code of Regulations [CCR] Sections 18755[a] and 18755.3) require a Siting Element to demonstrate whether a county's jurisdictions can provide a minimum of 15 years of waste disposal capacity. This is perhaps the most important issue which the Siting Element must address; if the County can show that its jurisdictions have a minimum of 15 years of waste disposal capacity, it has met the principal planning requirement of the Siting Element.

The Siting Element Guidelines specify that the starting date for the 15-year planning period is the year in which the Siting Element is prepared (CCR Section 18755.3[b]), and that the planning period starting dates for future updated versions of the Siting Element are to be the years the Siting Element is revised. The starting date for San Mateo County's 15-year disposal capacity planning period is January 1, 1998. This 15-year period will end on December 31, 2012.

The Siting Element Guidelines indicate that the Siting Element must show countywide waste disposal capacity on January 1, 1990 (CCR Section 18755.3[a]). According to the Disposal Facility Capacity Component of the Joint SRRE, the remaining capacity of the Ox Mountain Landfill as of January 1, 1991, was 4,320,000 cubic yards. The SRRE reports that the landfill received 800,800 tons of waste during 1990. Given a ratio of landfilled cubic yards to landfilled tons (the fill ratio) of approximately 1.85:1, we may deduce that 1,481,480 cubic yards of airspace were required to landfill the 1990 tonnage. The capacity of Ox Mountain landfill as of January 1, 1990 was therefore approximately 5,801,480 cubic yards. The remaining capacity at the Hillside Landfill as of January 1, 1991 was reported as 1,002,930 cubic yards in the Joint SRRE, and the landfill received approximately 61,700 tons of material in 1990. The fill ratio for Hillside Landfill is approximately 1.63:1, so the volume of landfill space taken up by the 1990 disposal tonnage was approximately 100,571 cubic yards. Therefore, the remaining capacity at the Hillside Landfill as of January 1, 1990 was 1,103,501 cubic yards. The combined remaining

capacity of the two landfills as of January 1, 1990 was 6,904,981 cubic yards. Since that time, Ox Mountain Landfill received permits for an expansion that allows for an additional 25.5 million cubic yards of capacity.

Tables III-1 and III-2 show the disposal requirements for all of San Mateo County for the 15-year planning period, from 1998 through 2012. These tables indicate that there is sufficient waste disposal capacity available to San Mateo County jurisdictions to satisfy the 15-year disposal capacity requirement on the assumption that disposal decreases at a constant rate annually from 1997 until 50% diversion is met in the year 2000. These tables show that as of January 1, 1998, Ox Mountain Landfill and Hillside Landfill had a combined remaining capacity of 22,846,560 cubic yards, or, using the fill ratios stated above, 12,354,898 tons of waste disposal capacity. During the ensuing 15 years, the projected amount of waste requiring disposal (assuming implementation of SRRE programs) will be 9,221,670 tons. If all of this material and only this material were deposited in county landfills, the remaining capacity at the beginning of the year 2013 would be approximately 3,133,228 tons. Tables III-1 and III-2, however, assume that San Mateo County jurisdictions will continue to export a small amount of waste to landfills outside the county, and that other counties will continue to import a small amount of material to San Mateo County landfills. In Tables III-1 and III-2, exports and imports are projected to increase at the same rate as the county's generated waste. Under this scenario, the remaining capacity at the beginning of 2013 will be 2,414,958 tons, or 4,472,145 cubic yards, approximately 18 years of capacity. No additional capacity is therefore required at this time to meet the 15-year planning requirement. If the expected progress in the diversion rate is not achieved, landfill capacity will be expended more quickly.

Currently, the only active proposal or plan for establishment of new disposal facilities or expansion of existing disposal facilities in San Mateo County is the planned expansion of the Ox Mountain Landfill within Corrinda Los Trancos Canyon. This expansion, which is separate and distinct from the currently tabled proposal to expand the landfill into neighboring Aponolio Canyon, is expected to win approval, and would provide an additional 10.4 million cubic yards of landfill capacity (see Chapter VI, Location and Description of Proposed New and Expanded Facilities).

III. DISPOSAL CAPACITY REQUIREMENTS

TABLE III-1
DISPOSAL REQUIREMENTS FOR SAN MATEO COUNTY (TONS) FOR THE 15-YEAR PLANNING PERIOD 1998-2012

Year	Generation/a/	Diversion/b/	Disposal/c/	Exports/d/	Imports/e/	Annual Disposal Needs/f/	Remaining Capacity/g/	Additional Capacity Needed/h/
1998	1,070,897	331,397	739,501	7,407	50,544	782,638	12,354,898	0
1999	1,094,260	445,231	649,029	7,569	51,647	693,107	11,572,260	0
2000	1,118,132	559,066	559,066	7,734	52,774	604,106	10,879,154	0
2001	1,133,538	566,769	566,769	7,841	53,501	612,429	10,275,048	0
2002	1,149,157	574,578	574,578	7,949	54,238	620,868	9,662,618	0
2003	1,164,990	582,495	582,495	8,058	54,985	629,422	9,041,751	0
2004	1,181,042	590,521	590,521	8,169	55,743	638,095	8,412,329	0
2005	1,197,315	598,657	598,657	8,282	56,511	646,887	7,774,234	0
2006	1,209,211	604,605	604,605	8,364	57,073	653,314	7,127,347	0
2007	1,221,225	610,612	610,612	8,447	57,640	659,805	6,474,034	0
2008	1,233,358	616,679	616,679	8,531	58,212	666,360	5,814,229	0
2009	1,245,612	622,806	622,806	8,616	58,791	672,981	5,147,869	0
2010	1,257,988	628,994	628,994	8,702	59,375	679,667	4,474,888	0
2011	1,270,856	635,428	635,428	8,791	59,982	686,620	3,795,220	0
2012	1,283,856	641,928	641,928	8,880	60,596	693,643	3,108,601	0
2013	1,296,988	648,494	648,494	8,971	61,215	700,738	2,414,958	0
2014	1,310,255	655,127	655,127	9,063	61,842	707,906	1,714,220	0
2015	1,323,657	661,829	661,829	9,156	62,474	715,147	1,006,314	0
2013							2,414,958	
TOTALS	17,831,438	8,609,769	9,221,670	123,341	841,611	9,939,940		

TABLE III-1 (Continued)
 DISPOSAL REQUIREMENTS FOR SAN MATEO COUNTY (TONS) FOR THE 15-YEAR PLANNING PERIOD 1998-2012

NOTES:

- /a/ Base year (1998) waste generation values were calculated by adjusting 1990 CIWMB-approved base year figures for each jurisdiction. Adjustments were made by aggregating the individual jurisdictions approved base-year numbers, then using the CIWMB's adjustment method developed for preparation of annual reports. Adjustment factors (changes in population, employment, taxable sales, and consumer price index) for all of San Mateo County were taken from the Association of Bay Area Government's (ABAG) *Projections '98*. Because taxable sales are not projected into the future, mean household income was used as a surrogate for this adjustment factor for consistency. Because ABAG uses constant dollars in their projections, a constant CPI figure was used. The relative portion of the waste stream represented by commercial and residential materials was derived from figures presented in the 1996 Annual Reports of the individual jurisdictions. Projections through the year 2012 use the same methodology and sources for adjustment factors.
- /b/ Diversion is calculated by subtracting Disposal from Generation.
- /c/ Disposal data is based on actual data from the 1997 quarterly landfill reports from the Ox Mountain Landfill and the Hillside Landfill, and from reports from out-of-county facilities. Disposal is assumed to decrease at a constant rate annually from 1997 until it reaches 50% of generation in the year 2000, and thereafter to remain as a constant percentage of generation.
- /d/ The use of the term "exports" differs in the SRREs and in this document. In the SRREs, "exports" refers to materials transported out of a particular jurisdiction for disposal. In this Siting Element, "exports" refer to materials transported out of the County. Exports figures are based on actual data from 1997 quarterly landfill reports from Alameda, Santa Clara, Marin, Contra Costa and Solano counties. Where quarterly data was missing, it was extrapolated from the average of values of the quarters for which information was available. Exports are projected to increase at the same rate as generated waste.
- /e/ This column shows wastes imported from outside the County. Import figures are based on actual data from the 1997 quarterly landfill reports for the Ox Mountain Landfill and the Hillside Landfill. Imports are projected to increase at the same rate as generated waste.
- /f/ Annual Disposal Needs figures are derived from adding disposal and imports, then subtracting exports.
- /g/ Indicates remaining capacity as of the first day of the year. According to Greg Schirle, Hillside Landfill currently has capacity for roughly 150,000 tons of additional material. Hillside landfill achieves in-place density of approximately 1,400 pounds per cubic yard, and has a refuse:soil ratio of 7:1. The "fill ratio" (the ratio of airspace consumed to received tonnage) is therefore approximately 1.63:1 (CIWMB: *Determining Remaining Permitted Capacity of California's Sanitary Landfills*. Prepared for the CIWMB by Environmental Science Associates, 1995), and the remaining capacity as of January 1, 1998 is 244,898 cubic yards. As of January 1, 1996, the last date for which accurate figures are available, Ox Mountain Landfill had remaining capacity of 25.6 million cubic yards. The in-place density of waste at Ox Mountain is 1,350 pounds per cubic yard, and the refuse:soil ratio is 4:1, for a fill ratio of approximately 1.85:1. The January 1, 1998 remaining capacity figure for Ox Mountain was derived by converting the reported total tonnage landfilled at Ox Mountain in 1996 and 1997, and converting this figure to cubic yards consumed using the fill ratio. The result was then subtracted from the January 1, 1996 remaining capacity figure.
- /h/ If remaining capacity is greater than disposal, this number is zero.

SOURCE: Environmental Science Associates

**TABLE III-2
DISPOSAL REQUIREMENTS FOR SAN MATEO COUNTY (CUBIC YARDS) FOR THE 15-YEAR PLANNING PERIOD 1998-2012/a/**

Year	Total Generation	Diversion	Disposal	Exports	Imports	Annual Disposal Needs	Remaining Capacity	Additional Capacity Needed
1998	1,960,648	606,736	1,353,912	13,562	92,539	1,432,889	22,846,560	0
1999	2,000,452	813,942	1,186,510	13,837	94,418	1,267,091	21,413,671	0
2000	2,070,615	1,035,308	1,035,308	14,323	97,729	1,118,714	20,146,581	0
2001	2,099,145	1,049,573	1,049,573	14,520	99,076	1,134,128	19,027,866	0
2002	2,128,068	1,064,034	1,064,034	14,720	100,441	1,149,755	17,893,738	0
2003	2,157,389	1,078,695	1,078,695	14,923	101,825	1,165,597	16,743,983	0
2004	2,187,115	1,093,557	1,093,557	15,128	103,228	1,181,657	15,578,386	0
2005	2,217,250	1,108,625	1,108,625	15,337	104,650	1,197,938	14,396,730	0
2006	2,239,279	1,119,640	1,119,640	15,489	105,690	1,209,840	13,198,791	0
2007	2,261,528	1,130,764	1,130,764	15,643	106,740	1,221,861	11,988,951	0
2008	2,283,997	1,141,999	1,141,999	15,799	107,800	1,234,000	10,767,091	0
2009	2,306,690	1,153,345	1,153,345	15,955	108,872	1,246,261	9,533,090	0
2010	2,329,608	1,164,804	1,164,804	16,114	109,953	1,258,643	8,286,829	0
2011	2,353,437	1,176,719	1,176,719	16,279	111,078	1,271,518	7,028,186	0
2012	2,377,510	1,188,755	1,188,755	16,445	112,214	1,284,524	5,756,668	0
2013							4,472,145	
TOTALS	32,972,732	15,926,494	17,046,238	228,074	1,556,252	18,374,416		

/a/ A conversion factor of 1.63 cubic yards per ton for waste going to Hillside Landfill, and 1.85 cubic yards per ton for waste going to Ox Mountain Landfill was used to calculate volumes for generation, disposal, diversion, "annual disposal needs", imports, and exports. The conversion factor is calculated from the in-place density factors described in Footnote 'g' of Table III-1. For 1998 and 1999 we used a combined conversion factor, based on an assumption that Hillside Landfill would receive 75,000 tons during each of these two years, and that Ox Mountain Landfill would receive the balance of the tonnage indicated in the "Annual Disposal Needs" column of Table III-1. For the year 2000 and thereafter, we used the conversion factor for Ox Mountain Landfill applied to the entire quantity of the "Annual Disposal Needs" column.

CHAPTER IV

EXISTING SOLID WASTE DISPOSAL FACILITIES

A. INTRODUCTION

This chapter describes the permitted solid waste disposal facilities in San Mateo County that currently receive municipal solid waste. It includes a general description identifying the waste disposal facilities handling San Mateo County waste, fact sheets providing descriptive information on each waste disposal site, and maps showing the location of each waste disposal facility.

B. EXISTING LANDFILLS

Currently, two landfills in San Mateo County -- Hillside Landfill and Ox Mountain Landfill -- and several landfills outside the county's borders -- in Alameda, Santa Clara, Marin, Contra Costa, San Joaquin and Stanislaus counties -- receive municipal solid waste generated in San Mateo County jurisdictions.

OX MOUNTAIN LANDFILL

Ox Mountain Landfill is a Class III landfill (non-hazardous waste). The landfill is located on a 173-acre site off of Highway 92 in Corrinde Los Trancos Canyon, near Half Moon Bay, and is owned and operated by Browning-Ferris Industries (BFI). Ox Mountain Landfill receives most of the waste generated in San Mateo County. The landfill is operated under the terms of Solid Waste Facilities Permit (SWFP) No. 41-AA-0002. The facility is permitted to accept 3,598 tons of waste per day, and actually received an average of 2,587 tons per day during 1997 (based on 312 operating days per year and a total of 807,024 total tons received). Permitted waste types include municipal solid waste and dewatered municipal sludge. Treated auto shredder waste and ground green waste are used as alternative daily cover materials. The facility does not accept untreated medical waste, liquid waste, hazardous waste, or dead animals (the facility does accept autoclaved medical waste).

The total permitted design capacity for Ox Mountain Landfill is 37.9 million cubic yards. As of January 1, 1996, the in-place refuse at the landfill consumed 12.3 million cubic yards of its total capacity. Therefore, the remaining capacity as of that date was 25.6 million cubic yards. Based on the reported total tonnage landfilled at Ox Mountain Landfill in 1996 and 1997, the remaining capacity as of January 1, 1998 is estimated at 22.6 million cubic yards. The in-place density of material is estimated at 1,350 pounds per cubic yard, and the refuse:soil ratio is estimated at 4:1. Using these figures, the fill ratio (i.e., the airspace consumed per ton landfilled; see CIWMB,

1995) is approximately 1.85:1, and the remaining capacity as of January 1, 1998 expressed in tons is approximately 12.2 million tons.

BFI is planning to apply for permits to allow them to expand the Ox Mountain Landfill laterally onto 11 acres adjacent to the northwestern boundary of the existing landfill and within Corrinda Los Trancos Canyon. This proposed landfill expansion is discussed in Chapter VI, Location and Description of Proposed New and Expanded Facilities.

HILLSIDE LANDFILL

Hillside Landfill is located on a 45-acre site on Sandhill Road, off of Hillside Boulevard in Colma. The landfill is owned by Amloc Companies, Inc. and Cypress Abbey Company, and operated by Cypress Amloc Land Company, Inc. Hillside Landfill is a Class III solid waste disposal site. The landfill is operated under the terms of Solid Waste Facilities Permit (SWFP) No. 41-AA-0008. The facility is permitted to accept 400 tons of waste per day, and actually received an average of 182 tons per day during 1997 (based on 361 operating days per year, and 65,664 total tons received in 1997). The landfill is prohibited from accepting municipal garbage. Most of the material brought to Hillside Landfill consists of construction and demolition waste, residential dry rubbish (not wet garbage), dry commercial waste (no food waste is allowed), tires, bulky items, and green waste.

In 1997, the facility landfilled an estimated 65,664 tons of material. The landfill has no truck scale, and must estimate load sizes by volume. Approximately 15% of incoming material is salvaged. Salvaged material includes wood, steel and other metals, bedsprings and mattresses, newspaper, corrugated cardboard, glass, and tires. The majority of the salvaged wood waste is used as fuel.

The total permitted design capacity for Hillside Landfill is 2.3 million cubic yards. The in-place density of material is estimated at 1,400 pounds per cubic yard, and the refuse:soil ratio is estimated at 7:1. Using these figures, the fill ratio is 1.63:1. As of January 1, 1998, Hillside Landfill's remaining capacity is estimated at 150,000 tons, or 244,898 cubic yards. The closure date for parcel 3, which is located in an unincorporated area of San Mateo County, is currently being negotiated by the Landfill's owners, San Mateo County, and the U.S. Fish and Wildlife Service. Parcel 2, which is within the Town of Colma, is expected to close when it reaches its permitted capacity, sometime within the next two to four years. No future expansions are planned. The owners of the Hillside Landfill submitted draft closure and post-closure maintenance plans to the Local Enforcement Agency in January 1998. These plans are currently under review.

In the future, the landfill owner may plan to construct a "multi-functional solid waste facility" on land adjacent to the site. Such a facility would probably include a materials recovery facility and transfer station. The Town of Colma City Council has indicated, however, that it may not want to encourage the construction of a Transfer Station/MRF on adjacent land after closure of the Hillside Landfill.

C. CHARACTERISTICS OF EXISTING DISPOSAL SITES

The Siting Element Guidelines require specific descriptive information for each solid waste disposal facility located countywide (CCR Sections 18755.5[a] and [b]). Tables IV-1 and IV-2 provide this information; Figures IV-1 and IV-2 indicate the location of these facilities.

**TABLE IV-1
LANDFILL FACT SHEET FOR OX MOUNTAIN LANDFILL**

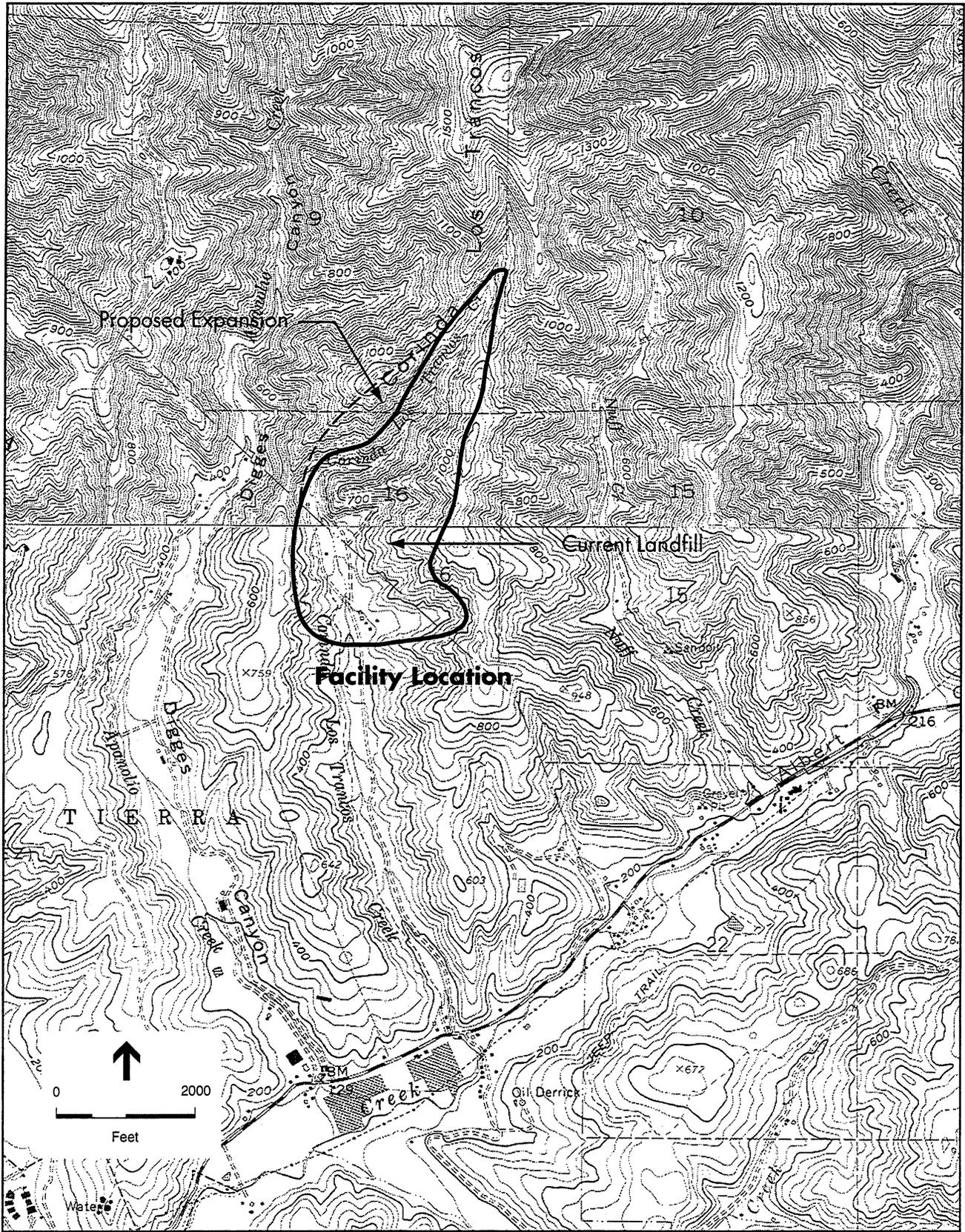
1. FACILITY INFORMATION	
a. Facility Name	Ox Mountain Landfill
b. Facility Owner and Operator	Browning-Ferris Industries (BFI)
2. PERMIT INFORMATION	
a. Solid Waste Facilities Permit Number	41-AA-0002
b. Permit Expiration Date	Permit has no expiration date. However, the permit must be reviewed no later than June 28, 2002.
c. Date of Last Permit Review	June 28, 1997
d. Estimate of Remaining Site Life	Remaining capacity as of January 1, 1998 is 22,601,662 cubic yards, or 12,204,898 tons. Site life is projected at greater than 15 years.
3. MAXIMUM PERMITTED RATE OF DISPOSAL	
a. Daily	3,598 tons per day
b. Yearly	Not applicable
4. AVERAGE RATE OF DAILY WASTE RECEIPT (Based on 312 operating days per year; figures are for 1997)	
a. Tons	2,587 tons per day
b. Cubic Yards	At a density of 1,350 lbs/cubic yard (1.48 cubic yards per ton), the landfill received approximately 3,832 cubic yards per day in 1997.
5. PERMITTED WASTE TYPES	
a. Permitted Types of Waste	Municipal solid waste, dewatered municipal sludge, ground green waste and auto shredder waste (used as ADC).
6. FUTURE LAND USE	
a. Expected land use for areas to be closed or phased out within the 15-year planning period (1998-2012)	Non-irrigated open space.

SOURCE: Greg Schirle, San Mateo County Health Services Agency, Division of Environmental Health Services

**TABLE IV-2
LANDFILL FACT SHEET FOR HILLSIDE LANDFILL**

1. FACILITY INFORMATION	
a. Facility Name	Hillside Landfill
b. Facility Owner and Operator	Owner: Amloc Co., Cypress Abbey Co. Operator: Cypress Amloc Land Co., Inc. (CALCO)
2. PERMIT INFORMATION	
a. Solid Waste Facilities Permit Number	41-AA-0008
b. Permit Expiration Date	Expiration date for U.S. Fish and Wildlife Service permit currently being negotiated.
c. Date of Last Permit Review	November 28, 1995
d. Estimate of Remaining Site Life	Remaining capacity as of January 1, 1998 is an estimated 244,898 cubic yards, or 150,000 tons. The remaining site life is estimated at two to four years.
3. MAXIMUM PERMITTED RATE OF DISPOSAL	
a. Daily	400 tons per day
b. Yearly	Not applicable
4. AVERAGE RATE OF DAILY WASTE RECEIPT (Based on 361 operating days per year; figures are for 1997)	
a. Tons	During 1997, the facility received an average of 182 tons per day.
b. Cubic Yards	At a density of 1,400 lbs/cubic yard (1.43 cubic yards per ton), the landfill received approximately 260 cubic yards per day in 1997.
5. PERMITTED WASTE TYPES	
a. Permitted Types of Waste	Dry residential and commercial wastes, tires, green waste, wood waste, construction and demolition materials, and white goods.
6. FUTURE LAND USE	
a. Expected land use for areas to be closed or phased out within the 15-year planning period (1998-2012)	Non-irrigated open space; a portion of the site may be used for a planned multi-functional solid waste facility (MFSWF).

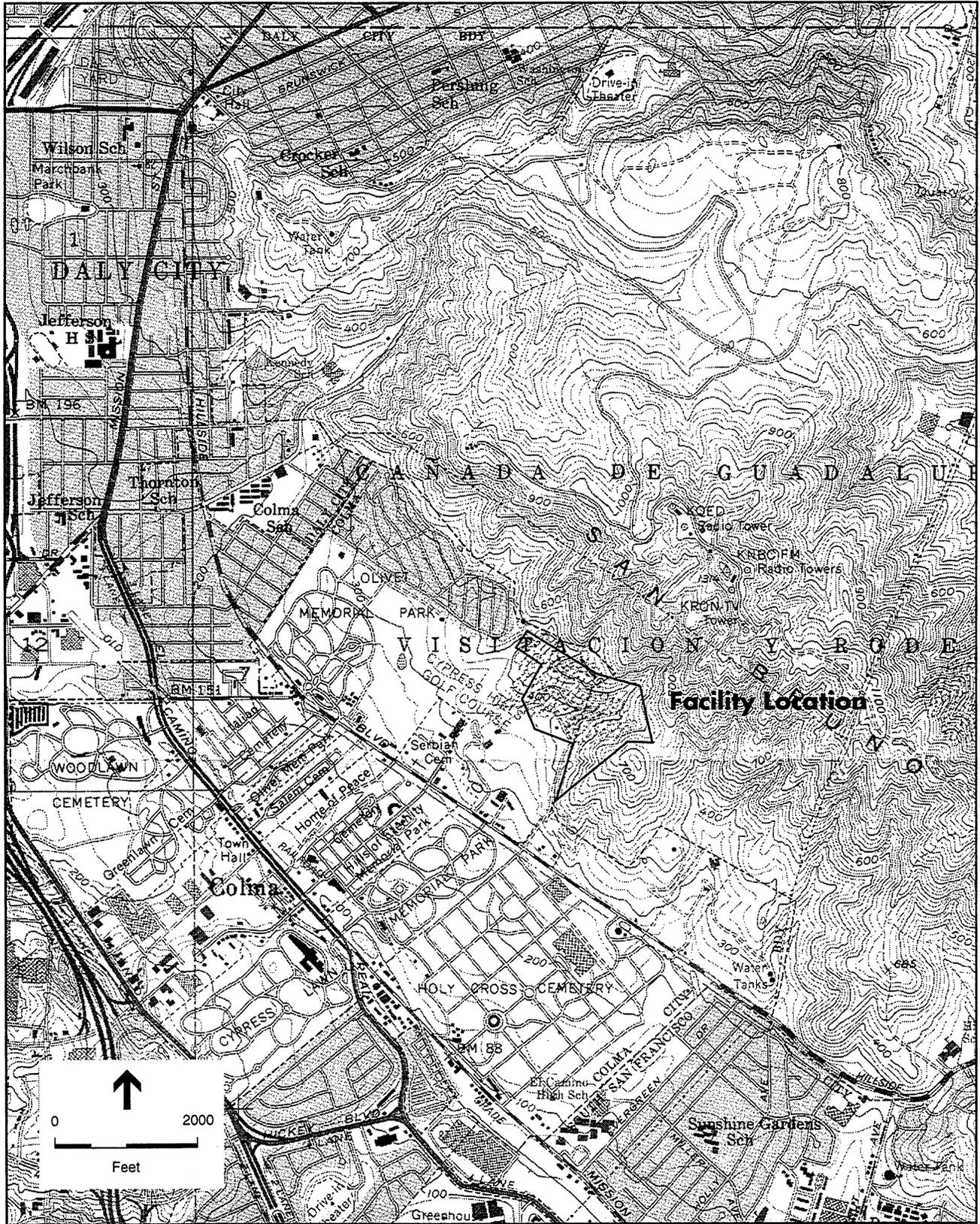
SOURCE: Greg Schirle, San Mateo County Health Services Agency, Division of Environmental Health Services



SOURCE: Emcon Associates, USGS Quadrangle - Half Moon Bay & Montara Mountain, Environmental Science Associates

San Mateo County Siting Element / 970136 ■

Figure IV-1
Ox Mountain Landfill



SOURCE: Emcon Associates, USGS Quadrangle - San Francisco South

San Mateo County Siting Element / 970136 ■

Figure IV-2
Hillside Landfill

CHAPTER V

SITING CRITERIA

A. INTRODUCTION

This chapter identifies criteria for siting new or expanded waste disposal facilities in San Mateo County. It also describes the process to be instituted to confirm that waste disposal facility siting criteria are included as part of the Countywide solid waste disposal facility siting process.

B. SITING CRITERIA

The Siting Element Guidelines require an identification of criteria to be used for siting new or expanded solid waste disposal facilities. The siting criteria must be grouped according to major categories specified in the Siting Element Guidelines (CCR Section 18756). The major categories include environmental considerations, environmental impacts, legal considerations, and any additional criteria the County and its cities may wish to impose. The following are the solid waste disposal facility siting criteria for San Mateo County. References for code or regulatory citations are provided for those siting criteria which are based on federal or state regulatory requirements.

1. ENVIRONMENTAL CONSIDERATIONS

- a) New or expanded solid waste disposal facility sites shall be sited in an appropriate geologic setting. Sites which are to be developed to receive hazardous or designated wastes (Class I and Class II landfills) shall be set back more than 200 feet from known Holocene faults. Non-hazardous waste landfills (Class III landfills) shall not be located on a known Holocene fault. (CCR Title 23, Chapter 15, Sections 2531[d], 2532[d] and 2533[d].)
- b) New or expanded Class II or Class III landfills may be located within a 100-year floodplain but must be designed and operated to prevent inundation or washout due to a 100-year flood. New Class I landfills shall be located outside a 100-year floodplain (CCR Title 23 Chapter 15, Sections 2531[c], 2532[c] and 2533[c].)
- c) All new or expanded landfills shall be constructed and operated so as to ensure that wastes will be a minimum of five feet above the highest anticipated elevation of underlying groundwater, or provide an acceptable engineered alternative. (CCR Title 23 Chapter 15, Section 2530[c].)
- d) Landfill sites shall not be situated on prime agricultural land or on land designated as "agricultural" in the San Mateo County Local Coastal Program Policies.

2. ENVIRONMENTAL IMPACTS

- a) New or expanded landfills shall be designed to allow for the installation of an appropriate landfill gas collection and emission control system once the landfill has an in-place tonnage of more than 1 million tons (Bay Area Air Quality Management District Regulation 8, Rule 34, Solid Waste Disposal Sites).
- b) The development of new or expanded landfills shall not disrupt or adversely affect known prehistoric or historic archaeological sites or properties deemed of historic, religious, or cultural significance.
- c) New or expanded landfills will be sited and designed to avoid substantially blocking views to or along the shoreline from coastal roads, roadside rests, and vista points, recreation areas, and beaches. New or expanded landfills shall be sited and designed to minimize visual degradation of natural landforms within the Coastal Zone (San Mateo County Local Coastal Program Policies).
- d) New or expanded landfills should be located sufficiently far from residential developments to minimize potential visual impacts.

3. SOCIO-ECONOMIC CONSIDERATIONS

- a) Solid waste disposal facilities shall be located only in areas designated or authorized for solid waste facilities in an applicable city or County General Plan. (Public Resources Code [PRC], Section 41702[b].)
- b) The land uses authorized in the applicable city or County General Plan for lands adjacent to or near the area reserved for development of a new or expanded solid waste disposal facility shall be compatible with the establishment of the solid waste facility. (PRC Section 41702[c].)
- c) Landfills shall only be located in areas of sufficient size and potential future disposal capacity to provide a minimum 15 years of combined permitted disposal capacity.
- d) Preference shall be given to sites where the design and operation of the proposed new or expanded solid waste disposal facility can promote useful post-closure activities.
- e) Preference shall be given to proposed disposal sites with adequate supply of low permeability soils available for use as liner and cover material.
- f) New or expanded solid waste disposal sites shall be located further than 10,000 feet from airport runways used by turbojet aircraft and further than 5,000 feet from airport runways used solely by piston-type aircraft. (40 CFR, Part 258, Subpart B, Section 258.10.)

4. LEGAL CONSIDERATIONS

- a) New or expanded disposal facilities shall be required at all times to be in compliance with applicable federal, state, and local statutes, permits, minimum operating standards, and monitoring requirements. This includes, but is not limited to, the requirements of the California Integrated Waste Management Board, Regional Water Quality Control Board, Bay Area Air Quality Management District, applicable local jurisdictions, and all utilities,

service districts, or agencies which have jurisdiction over the installation of disposal site improvements.

- b) Any new or expanded landfill located within the Coastal Zone shall be in compliance with the specific land use provisions of the San Mateo County Local Coastal Program Policies.

C. PROCEDURES TO CONFIRM USAGE OF SITING CRITERIA

The solid waste disposal facility siting process in San Mateo County may be originated by the public sector or the private sector. Regardless of the public sector's role in designating potential solid waste disposal facility sites, however, site development is a private sector activity. For instance, it was a County planning study which designated the Ox Mountain Ranch as a potential future landfill site in San Mateo County, and a request by the San Mateo County Scavenger Company for land use permits for the site which led to its development as a landfill. The public sector always has an oversight role during the development phase of the siting process whether or not the process has its origins in the public or private sector. The public sector determines whether a proposed solid waste disposal site ought to be permitted and the terms and conditions of local agency approval of the proposed solid waste disposal facility. The private sector initiates the development phase of the siting process by selecting a site which it wishes to develop as a solid waste disposal facility and then by requesting a local land use permit for the site. An agency of the public sector, usually a local planning commission, then prepares a CEQA environmental document to identify whether the proposed siting of a solid waste disposal facility would generate significant environmental impacts and whether there are measures which could be taken to mitigate any significant impacts. On the basis of this environmental review, the local planning commission decides whether to approve the proposed facility and the terms and conditions of site approval.

Where the solid waste disposal facility siting criteria discussed in this chapter enter into the process in San Mateo County for selecting sites for development as waste disposal facilities is at the environmental review stage of site approval. The siting criteria are considered to be significance criteria for determining whether a proposed solid waste disposal facility will significantly impact upon the project environment. For example, one solid waste facility siting criterion is that new or expanded landfills shall be sited sufficiently far from residences to minimize visual impacts. If the environmental review for a proposed solid waste facility showed that with project development such an impact would occur, the environmental document would note this as a significant adverse impact and require either the implementation of mitigation measures to reduce the impact to a less-than-significant level or a finding that this would be an unavoidable adverse impact.

To confirm that the siting criteria for solid waste disposal facility sites are implemented through the environmental review process, the Local Enforcement Agency will require that a proposed solid waste disposal facility site be found in conformance with the Countywide Siting Element siting criteria and that a failure of a proposed solid waste disposal facility site to comply with the Countywide Siting Element siting criteria will constitute a significant adverse impact.

D. SITING ELEMENT APPROVAL

California law requires the Countywide Siting Element to be approved by the County and a majority of the cities within the county which contain a majority of the population of the incorporated area of the county (PRC Section 41721). The Siting Element Guidelines further require the Siting Element to include a resolution from each jurisdiction approving or disapproving the Siting Element, and a record of any jurisdiction failing to act on the Siting Element (CCR Section 18756[c]). These documents will be provided in the final version of this Countywide Siting Element.

CHAPTER VI

LOCATION AND DESCRIPTION OF PROPOSED NEW AND EXPANDED FACILITIES

A. INTRODUCTION

The Siting Element Guidelines require a Siting Element to include a description of each proposed new solid waste disposal facility and of each proposed expansion of an existing solid waste disposal facility. The information required for these discussions includes the type of facility, location, size, volumetric capacity of the facility, life expectancy, expansion options, and post-closure uses. Also required is one or more maps indicating the location of each proposed new or expanded solid waste disposal facility and adjacent and contiguous parcels. This chapter also discusses how any proposed new or expanded solid waste disposal facilities will affect San Mateo County's ability to achieve and maintain 15 years of permitted facilities and whether the development of new or expanded landfill sites is consistent with achievement of the mandated 25 and 50% waste diversion goals.

B. PROPOSED FACILITIES

In San Mateo County, the only new or expanded landfill development currently proposed is an expansion of the Ox Mountain Landfill onto an 11-acre site adjacent to the northwestern boundary of the existing landfill and within Corrida Los Trancos Canyon. Figure IV-1, in Chapter IV, shows the proposed expansion relative to the existing Ox Mountain Landfill. BFI has already initiated a formal application to implement the proposed landfill expansion. Available information on this project is summarized below in Table VI-1.

C. RELATIONSHIP TO AB 939 REQUIREMENTS

DISPOSAL CAPACITY FOR 15-YEAR PLANNING PERIOD

As indicated in Chapter III, there is sufficient remaining capacity in existing disposal sites receiving San Mateo County waste to satisfy the County and its cities' waste disposal needs for the 15-year planning period, 1998-2012. If the existing Ox Mountain Landfill were expanded onto the adjacent 11-acre parcel as proposed, the permitted waste disposal capacity of Ox Mountain Landfill would be increased and would enable San Mateo County and its cities to provide the mandated minimum 15 years of waste disposal capacity for a longer period of time.

**TABLE VI-1
OX MOUNTAIN LANDFILL EXPANSION FACT SHEET**

1. TYPE	The proposed expansion would be a lateral expansion of the existing Ox Mountain Landfill onto an 11-acre parcel adjacent to the northwestern boundary of the existing site. The landfill would have the same Class III Waste Management Unit classification as the existing Ox Mountain Landfill.
2. LOCATION	The planned expansion would occur within Corrinda Los Trancos Canyon. The proposed expansion site is located immediately northwest of and adjacent to the existing permitted area of the Ox Mountain Landfill (see Figure IV-1 in Chapter IV).
3. SIZE	The proposed expansion site is 11 acres. Combined with the existing Ox Mountain Landfill, the total landfill acreage would be 184 acres.
4. CAPACITY	The design capacity of the proposed expansion area is 10.4 million cubic yards, or 5.6 million tons (assuming the fill ratio would be the same as the existing Ox Mountain Landfill).
5. LIFE EXPECTANCY	Life expectancy of the proposed expansion depends on the rate of fill and operational parameters such as compaction density and refuse:soil ratio. Assuming that these factors would be the same as for the existing Ox Mountain Landfill, that after the year 2020 county wastes would continue to be generated at the same rate as projected between 2015 and 2020, and that the county diversion rate would stay constant at 50%, then the proposed expansion area could expand the site life of the landfill by an estimated eight years.
6. EXPANSION OPTIONS	No further expansion of the Ox Mountain Landfill is currently proposed. An earlier proposal to expand the Ox Mountain Landfill onto a 285-acre site in Apanolio Canyon, just west of Corrinda Los Trancos Canyon, failed to gain approval.
7. FUTURE LAND USE	Future land use for the existing landfill is non-irrigated open space; this is likely the future land use for the proposed expansion area as well.

SOURCE: Greg Schirle, San Mateo County Health Services Agency, Division of Environmental Health Services

MANDATED WASTE DIVERSION

Expansion of the Ox Mountain Landfill would be consistent with achievement of the state-mandated 25% and 50% waste diversion goals. No significant waste diversion activities are contemplated for the expansion area. However, the existing diversion programs, including salvaging operations at transfer stations, combined with planned source reduction, recycling, composting, and public education and information programs selected in the SRREs prepared for San Mateo County jurisdictions, will contribute to the achievement of waste diversion goals. The proposed expansion area would accommodate the disposal of residual wastes after planned diversion programs have been implemented.

CHAPTER VII

ODDS AND ENDS

A. GENERAL PLAN CONSISTENCY FOR NEW OR EXPANDED DISPOSAL FACILITIES

As indicated in the previous chapter, BFI has proposed an expansion of the existing Ox Mountain Landfill. As indicated in Chapter III, the expansion is not required to ensure 15 years of disposal capacity at this time. The existing landfill, including the proposed expansion, is designated as a solid waste disposal facility on the Existing Rural Land Use Map of the San Mateo County General Plan (Map 9.1M).

B. SOLID WASTE DISPOSAL STRATEGIES WHEN SITES FOR ADDITIONAL CAPACITY ARE NOT AVAILABLE

The requirement to devise strategies for assuring 15 years of capacity applies only to those counties and regional agencies which are unable to demonstrate 15 years of existing capacity, and who are unable to identify sites for new disposal facilities or expansions of existing disposal facilities to ensure 15 years of disposal capacity. San Mateo County has 15 years of capacity within its borders. Therefore, this requirement does not apply.

C. SITING ELEMENT IMPLEMENTATION

This section describes those tasks necessary for implementation of Siting Element goals, who is responsible for implementation, the schedule for implementation of these tasks, and funding sources for implementation. Tasks, responsible agencies, and revenue sources are discussed below. These, and an implementation schedule, are presented in Table VII-1.

RESPONSIBLE PARTIES

Several parties are responsible for implementing the Countywide disposal facility program. The general areas of responsibility are as follows:

- **The Cities and the County** (for the unincorporated area) are each responsible for implementation of their SRRE and HHWE, for maximizing diversion from landfill, and for achieving the mandated waste diversion objectives of 25% and 50%.
- **The South Bayside Transfer Station Authority (SBTSA)** counts ten cities plus the County and the West Bay Sanitary District as its members. The SBTSA oversees

operations of the South Bayside Transfer Station, conducts rate reviews, implements SRRE programs in member jurisdictions, and prepares model language for franchise agreements.

- **The San Mateo County Health Services Agency, Division of Environmental Health Services**, as LEA, is responsible for ensuring that operations of all disposal facilities are in compliance with environmental regulations and the terms of the facilities' permits, and is responsible for reviewing and approving new disposal facility permits and closure plans.
- **The San Mateo County Department of Public Works** is responsible for preparing, maintaining, and revising the Countywide Siting Element.
- **The San Mateo City-County Association of Governments (C/CAG)**, as the Local Task Force, is responsible for reviewing integrated waste management plan elements and for addressing issues of Countywide concern.
- **Private Sector Waste Management Firms** are responsible for collecting, transporting, and disposing of waste in compliance with all applicable regulations, and are also largely responsible for implementation of diversion programs necessary to meet the 25% and 50% goals.

REVENUES

Funding for the overall administration and maintenance of the Countywide siting program will come from several revenue sources:

- **Agencies responsible for implementing SRRE and HHWE** programs derive funding variously from refuse collection fees, grants, and general funds (see the SRREs and HHWEs for details).
- **The SBTSA** derives funds from refuse collection fees in its member agencies.
- **The LEA** derives funds from a surcharge on tip fees at the Ox Mountain Landfill.
- **The San Mateo County Department of Public Works** derives funds from a surcharge on tip fees at the Ox Mountain Landfill.
- **The C/CAG** derives funds from its member cities and the County.
- **Private Sector Waste Management Firms** derive funds from refuse and recycling collection fees.

**TABLE VII-1
SITING ELEMENT GOALS AND POLICIES IMPLEMENTATION**

Goal or Policy/Task	Responsible Party	Implementation Schedule	Revenue Source
Goal 1: Implement IWM plan which seeks to maximize diversion and provides for environmentally safe land disposal of residue.			
Maximize diversion	See Summary Plan and SRREs	See Summary Plan and SRREs	See Summary Plan and SRREs
Ensure compliance of landfill design and operations with applicable local, state, and federal requirements	Local Enforcement Agency (LEA) and the CIWMB	Ongoing	Landfill tip fee surcharges
Goal 2: Undertake formal closure and postclosure maintenance at Hillside Landfill.			
Prepare and submit closure and postclosure maintenance plans for Hillside Landfill	Cypress Abbey Company and Amloc Companies, Inc., and LEA	1998	Cypress Abbey Company and Amloc Companies, Inc.
Grant approval of closure and postclosure maintenance plans	CIWMB	1999	CIWMB funds
Implement postclosure maintenance plans for Hillside Landfill	Cypress Abbey Company and Amloc Companies, Inc. and LEA	1999-2000	Closure/Postclosure Maintenance Trust Account and Enterprise Fund
Monitoring of closure and postclosure maintenance for Hillside Landfill	LEA and CIWMB	Ongoing	Closure/Postclosure Maintenance Trust Account and Enterprise Fund

**TABLE VII-1 (Continued)
SITING ELEMENT GOALS AND POLICIES IMPLEMENTATION**

Goal or Policy/Task	Responsible Party	Implementation Schedule	Revenue Source
Goal 3: Encourage continuation of solid and hazardous waste diversion activities at all disposal and transfer facilities.			
Encourage South San Francisco Scavenger Company to maximize diversion capability in design of proposed new Blue Line Transfer Station.	County Public Works Department and Cities of South San Francisco, Brisbane, and Millbrae	1998-1999	Existing tipping fees and materials revenues
Encourage additional source separation and salvage at South Bayside Transfer Station, San Bruno Transfer Station, Mussel Rock Transfer Station, existing Blue Line Transfer Station, and Pescadero Transfer Station, Hillside Landfill, and Ox Mountain Landfill	County Public Works Department, SBTSA, Cities of San Bruno, Daly City, and South San Francisco, and Town of Colma	Ongoing	Existing tipping fees and materials revenues
Increase source reduction, recycling, and proper disposal of household hazardous wastes and SQG hazardous wastes	See Chapter 4 of Summary Plan	See Summary Plan	See HHWE
Goal 4: Continue to support load check and other programs.			
Continue load checking program at Hillside Landfill	Cypress Amloc Land Company, Inc.	Ongoing	Tip fees
Continue load checking program at Ox Mountain Landfill	BFI	Ongoing	Tip fees
Continue load checking program at transfer stations	Transfer station operators	Ongoing	Tip fees
Program oversight	LEA	Ongoing	Landfill surcharge

TABLE VII-1 (Continued)
SITING ELEMENT GOALS AND POLICIES IMPLEMENTATION

Goal or Policy/Task	Responsible Party	Implementation Schedule	Revenue Source
Policy 1: Ensure timely, adequate closure and post-closure plans for Hillside Landfill.			
Conduct thorough review of draft plans	LEA	1998-1999	Landfill surcharge
Policy 2: Work with BFI to ensure environmentally safe disposal at Ox Mountain Landfill for the next 15 years.			
Conduct periodic inspections of landfill	LEA	Ongoing	Landfill surcharge
Prepare periodic Report of Disposal Site Information	BFI	Each 5 years	BFI
Monitor operations, identify and correct problems	BFI	Ongoing	BFI
Policy 3: Ensure landfill disposal, closure, and postclosure maintenance are carried out in an environmentally safe manner.			
Conduct periodic inspections of facilities	LEA	Ongoing	Landfill surcharge
Conduct periodic reviews of facility operations	LEA	Ongoing	Landfill surcharge
Review applications for permit revisions	LEA	As needed	Landfill surcharge



CHAPTER VIII

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APPENDIX A

COMMENTS ON THE PRELIMINARY DRAFT SITING ELEMENT AND RESPONSES

This appendix reproduces the comment letters received regarding the San Mateo County Countywide Integrated Waste Management Plan Siting Element. A response to each comment follows. Where necessary, the text contained in these documents has been revised. For comments not resulting in text changes, more detailed responses have been prepared to address any unanswered issues.

Comment letters from interested parties precede their responses. Each commenter has been assigned a letter, and each comment received from that commenter has been assigned a number. Therefore, a unique descriptor, consisting of a letter and number, applies to each comment and response. For example, "response A1" refers to the response to the first comment from agency A (which happens to be the San Mateo County Local Task Force). These descriptors appear on each comment letter to indicate what text is considered part of each comment.

Comment Letters Received:

- A. Local Task Force Comments: City/County Association of Governments of San Mateo County, Rosalie O'Mahony
- B. California Integrated Waste Management Board, Bill Huston
- C. Town of Colma Planning Department, Malcolm C. Carpenter
- D. City of Half Moon Bay, Therese Ambrosi Smith
- E. City of Menlo Park, Dianne Dryer
- F. Montara Sanitary District, George F. Irving
- G. James A. Wyse, Inc., James A. Wyse, P.E.
- H. County of San Mateo Health Services Agency, Greg Schirle

A

CCAG

CITY/COUNTY ASSOCIATION OF GOVERNMENTS OF SAN MATEO COUNTY

Atherton • Belmont • Brisbane • Burlingame • Colma • Daly City • East Palo Alto • Foster City • Half Moon Bay • Hillsborough • Menlo Park • Millbrae
Pacifica • Portola Valley • Redwood City • San Bruno • San Carlos • San Mateo • San Mateo County • South San Francisco • Woodside

October 27, 1998

Mr. Neil Cullen
Director of Public Works
County of San Mateo
10 Twin Dolphin Drive, Suite C-200
Redwood City, CA 94065

Subject: Local Task Force Review of Preliminary Draft Countywide Siting Element

Dear Mr. Cullen:

The City/County Association of Governments, as the Local Task Force for San Mateo County, has reviewed the Preliminary Draft Countywide Siting Element and has the following comments.

- 1) Recommend modification of the Goals and Policies as reflected in Attachment A.] 1
- 2) Recommend revising Chapter III, Section B - Disposal Capacity Analysis (page III-2) to include details about the assumptions made in calculating remaining disposal capacity. See Attachment B.] 2
- 3) Recommend revising Chapter V, Section C - Procedures to Confirm Usage of Siting Criteria (page V-3) to initiate a public planning process to determine the need for and location of solid waste management facilities in the county as a deviation from the current process where the private sector has been the driving force. See Attachment C.] 3

Thank you for the opportunity to review this document.

Sincerely,

Rosalie O'Mahony

Rosalie O'Mahony
C/CAG Chair

Attachments: A, B, and C

cc: Brian Lee
Don Williams
Cheri Puls

cherip/plandocs/ciwmp/swac/review/self.ttr

Siting Element

Goals

- Implement an Integrated Waste Management Plan which *seeks to* maximizes waste diversion through source reduction, *reuse*, recycling, *yard waste recycling* and composting and which provides for the disposal of the residue of wastes which cannot be diverted through environmentally safe land disposal practices.
- ~~Move toward approval of the proposed eleven acre expansion of the Ox Mountain Landfill within Corinda Los Trancos Canyon, in order to provide approximately 10.4 million cubic yards of additional airspace.~~
- Undertake formal landfill closure activities and subsequent post-closure maintenance at the Hillside Landfill once it reaches capacity, and once approval of the final closure and post-closure maintenance plans for this waste disposal site have been obtained from the California Integrated Waste Management Board (CIWMB) *appropriate regulatory agencies*.
- Encourage continuation of solid and hazardous waste diversion activities at all disposal and transfer facilities.
- Continue to support existing landfill and transfer station load check and other programs to prevent disposal of wastes which cannot be accepted at existing permitted landfills. Such wastes include hazardous wastes, liquid wastes, and designated wastes which have not been approved for disposal at landfills in San Mateo County.

Policies

- The San Mateo County Health Services Agency, Division of Environmental Health Services, serving as the Local Enforcement Agency (LEA) for the California Integrated Waste Management Board (CIWMB), will work with the owner of the Hillside Landfill and with the Town of Colma to ensure that closure and post-closure maintenance plans ~~are produced in a timely fashion, and~~ address long-term environmental issues associated with closure of this facility.
- The County will work with BFI, the owner and operator of the Ox Mountain Landfill, to ensure that the landfill offers environmentally safe disposal for the majority of San Mateo County's solid waste for the next 15 years.
- The LEA will work together with the owners and operators of landfills in San Mateo County to ensure that landfill disposal, closure, and post-closure maintenance activities are carried out in an environmentally safe manner.

Siting Element

B. DISPOSAL CAPACITY ANALYSIS

Tables III-1 and III-2 show the disposal requirements for all of San Mateo County for the 15-year planning period, from 1998 through 2012. These tables indicate there is sufficient waste disposal capacity available to San Mateo County jurisdictions to satisfy the 15-year disposal capacity requirement on the assumption that disposal decreases at a constant rate annually from 1997 until 50% diversion is met in the year 2000.

...Under this scenario, the remaining capacity at the beginning of 2013 will be approximately 2,424,958 tons, or 4,472,145 cubic yards, approximately 18 years of capacity. No additional capacity is therefore required at this time to meet the 15-year planning requirement. If the expected progress in the diversion rate is not achieved, landfill capacity will be expended more quickly.

Currently, the only active proposal or plan for establishment of new disposal facilities or expansion of existing facilities in San Mateo County is the planned expansion of the Ox Mountain Landfill within Corrinda Los Trancos Canyon. This expansion, which is separate and distinct from the currently tabled proposal to expand the landfill into neighboring Apanolio Canyon, is expected to win approval, and would provide an additional 10.4 million cubic yards of landfill capacity.

Siting Element

C. PROCEDURES TO CONFIRM USAGE OF SITING CRITERIA (page V-3)

Historically, the solid waste facility siting process in San Mateo County is has been one in which the private sector is the driving force and the public sector has primarily an oversight role. The public sector determines whether a proposed solid waste disposal site ought to be permitted and the terms and conditions of local agency approval of the proposed solid waste disposal facility. The private sector has initiated the siting process by selecting a site which it wishes to develop as a solid waste disposal facility and then by requesting a local land use permit for the waste disposal facility site. The public sector then determines whether the proposed solid waste disposal site ought to be permitted and the terms and conditions of local agency approval of the proposed solid waste disposal facility. An agency of the public sector, usually a local planning commission, then prepares a CEQA environmental document to identify whether the proposed siting of a solid waste disposal facility would generate significant environmental impacts and whether there are measures which could be taken to mitigate any significant impacts. On the basis of this environmental review, the local planning commission decides whether to approve the proposed facility and the terms and conditions of site approval.

Where the solid waste disposal facility siting criteria discussed in this chapter *have entered* into the process in San Mateo County for selecting sites for development as waste disposal facilities *has been* is at the environmental review stage of site approval. The siting criteria *have been* are considered to be significance criteria for determining whether a proposed solid waste disposal facility will significantly impact upon the project environment. For example, one solid waste facility siting criterion is that new or expanded landfills shall be sited sufficiently far from residences to minimize visual impacts. If the environmental review for a proposed solid waste facility showed that with project development such an impact would occur, the environmental document would note this as a significant adverse impact and require either the implementation of mitigation measures to reduce the impact to a less-than-significant level or a finding that this would be an unavoidable adverse impact.

The Integrated Waste Management Act declares that "decisions involving the establishment or expansion of solid waste facilities should be guided by an effective planning process" (Public Resources Code Section 40900). A more proactive, public sector-driven plan is needed. Together with the Cities, the County will establish a proactive planning process for solid waste facility siting, which will culminate in identification of needed solid waste facilities and locations for those facilities. The planning process should be conducted during the five-year current planning cycle (and each subsequent planning cycle), and the results should be documented in updated Siting Elements and Non-Disposal Facility Elements.

To confirm that the siting criteria for solid waste disposal facility sites are implemented through the environmental review process, the County will require that a proposed solid waste disposal facility site be found in conformance with the Countywide Siting Element siting criteria and that a failure of a proposed solid waste disposal facility site to comply with the Countywide Siting Element siting criteria will constitute a significant adverse impact.

**A. CITY/COUNTY ASSOCIATION OF GOVERNMENTS OF
SAN MATEO COUNTY
ROSALIE O'MAHONY (10/27/98)**

Responses to Comments on the Siting Element

- A1** The text of the Siting Element has been revised according to the recommended changes in Attachment A of the letter.
- A2** The text of the Siting Element has been revised according to the recommended changes in Attachment B of the letter.
- A3** It would be awkward for the County to have the lead role provided by the recommended changes in Attachment C of the letter, since the process advocated would involve designating sites within cities for solid waste facilities such as transfer stations, materials recovery and processing facilities, composting facilities and landfills. The CCAG, as an established City-County agency for regional issues in San Mateo County, would be the appropriate forum for discussions related to the establishment of a regional planning process for siting solid waste facilities. Therefore, the Board of Supervisors is referring this comment back to the CCAG for action as appropriate.



California Integrated Waste Management Board



Daniel G. Pennington, Chairman
8800 Cal Center Drive • Sacramento California 95826 • (916) 255-2200
www.ciwmb.ca.gov

Peter M. Rooney
Secretary for
Environmental
Protection

Pete Wilson
Governor

B

June 18, 1998

Cheri Puls, Waste Program Manager
San Mateo County Public Works Department
10 Twin Dolphin Drive, Suite C200
Redwood City, CA 94065-1065

Dear Ms. Puls:

The California Integrated Waste Management Board (Board) staff have reviewed the preliminary draft San Mateo County Sting Element (SE) and Summary Plan (SP) for compliance with Chapter 9, Title 14 of the California Code of Regulations (CCR), Planning Guidelines and Procedures for Preparing and Revising Countywide Integrated Waste Management Plans (Guidelines).

As a reminder, the final SE and SP will require environmental review, as specified in the California Environmental Quality Act (CEQA). Board regulation [CCR 18784 (a)(6)] require preparation of a Negative Declaration (ND) or environmental Impact Report (EIR) and the subsequent filing of a Notice of Determination (NOD). The CEQA document must be routed through the /state Clearinghouse when submitting your final SE and SP to the Board.

If you have any questions about the enclosed comments on the plan approval process, please call Yasmin Satter, at (916) 255-2394.

Sincerely,

Bill Huston, Senior
Office of Local Assistance

ATTACHMENT 2
SAN MATEO COUNTY PRELIMINARY DRAFT SITING ELEMENT COMMENTS

In the following comments regarding the preliminary draft Siting Element (SE), all items that include a reference to the Public Resources Code (PRC) or Title 14, of the California Code of Regulations (CCR) concern statutory and regulatory requirements and should be addressed in the final SE. Requests for definitions, missing information, or clarification of information should also be addressed in the final SP.

CCR Section 18755, General Requirements:

All regulatory and statutory requirements have been met.

CCR Section 18755.1, Goals and Objectives:

All regulatory and statutory requirements have been met.

CCR Section 18755.3, Disposal: Capacity Requirements:

All regulatory and statutory requirements have been met.

CCR Section 18755.5, Description of Existing Solid Waste Disposal Facility:

All regulatory and statutory requirements have been met.

CCR Section 18756, Criteria for Establishing New or for Expanding Existing Solid Waste Disposal Facilities:

All regulatory and statutory requirements have been met.

CCR Section 18756.3, Consistency with City and Countywide General Plans for new Expanded Solid Waste Disposal Facilities:

All regulatory and statutory requirements have been met.

CCR Section 18756.5, Strategies for disposal of Solid Waste in Excess of Capacity when New or Expanded Sites are not available:

All regulatory and statutory requirements have been met.

CCR Section 18756.7, Siting Element Implementation:

All regulatory and statutory requirements have been met.

**B. CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD
BILL HUSTON (6-18-98)**

Responses to Comments on the Siting Element

- B1** The CIWMB found that the Siting Element meets all regulatory and statutory requirements. The comment is noted.



TOWN OF COLMA
PLANNING DEPARTMENT

1190 El Camino Real Colma, California 94014
Phone 650-985-2590 FAX 650-985-2578

C

June 17, 1998

Ms. Cheri Puls
San Mateo County Waste Management
c/o Public Works Department
10 Twin Dolphin Drive, Suite 200
Redwood City, CA 94065

RE: Comments on Preliminary Draft Summary Plan and Siting Element
San Mateo County Integrated Waste Management Plan

Dear Ms. Puls:

We have reviewed the Preliminary Draft Plan, Dated May 5, 1998, and offer the following comments. We concur with Table 4-7 and the accompanying text of the Summary Plan where a Transfer Station/MRF is characterized as "proposed with no definite plans" and we concur with the third listed goal in Table VII-1 of the Siting Plan which directs the operators to "undertake formal closure and postclosure maintenance" at Hillside Landfill. However, the Town of Colma City Council may not want to encourage the construction of a Transfer Station/MRF on adjoining land.

Recommendations.

1. We recommend that reference numbers be assigned to the goals and policies listed in Table VII-1 of the Siting Plan. This will make it easier to refer to specific topics in the Plan.] 1
2. We recommend that the text in Chapter IV, B (Hillside Landfill) existing last sentence be amended to read, "This *Such a* facility would *probably* include a materials recovery facility and a transfer station.", and that you add a new, final sentence to read, "*The Town of Colma City Council has indicated that it may not want to encourage the construction of a Transfer Station/MRF on adjacent land after closure of the Hillside Landfill.*"] 2

Sincerely,


Malcolm C. Carpenter, AICP
City Planner

cc. City Council

**C. TOWN OF COLMA PLANNING DEPARTMENT
MALCOLM C. CARPENTER (6-17-98)**

Responses to Comments on the Siting Element

- C1** Goals and polices in the document have been numbered, and the numbers added to Table VII-1.
- C2** The recommended changes have been made to the text.



CITY OF HALF MOON BAY

City Hall, 501 Main Street
Half Moon Bay, CA 94019

D

July 10, 1998

Cheri Puls
San Mateo County Public Works
10 Twin Dolphin Drive, Suite C200
Redwood City, CA 94065-1065

Subject: Preliminary Draft Countywide Siting Element and Countywide Summary Plan

Dear Ms. Puls:

Thank you for the opportunity to comment on the subject documents.

As you are aware, Highway 92 is a critical component of the Half Moon Bay circulation system. Truck traffic associated with the Ox Mountain Landfill and Pilarcitos Quarry, forced to downshift to climb the uphill grades, can back traffic to Highway 1 during commute and peak visitor drive times. For this reason, the City of Half Moon Bay has an interest in any activity that may result in additional truck traffic on Highway 92.

Should additional permitting associated with the operation of the Ox Mountain Landfill come before any of the County's reviewing authorities, the City of Half Moon Bay would appreciate an opportunity to comment.

Thank you again for forwarding the draft documents for my review and information.

Sincerely,

Therese Ambrosi Smith
Public Works Director

C: Dennis Coleman
Blair King

1

**D. CITY OF HALF MOON BAY
THERESE AMBROSI SMITH (7-10-98)**

Responses to Comments on the Siting Element

D1 Comment noted.

CHUCK KINNEY
MAYOR

PAUL COLLACCHI
MAYOR PRO TEM

ROBERT N. BURMEISTER
COUNCILMEMBER

BERNIE VALENCIA
COUNCILMEMBER

STEPHEN SCHMIDT
COUNCILMEMBER



E

701 LAUREL STREET / MENLO PARK, CA 94025-3483 / 650.858.3380 / FAX 650.328.7935

July 10, 1998

Cheri Puls
San Mateo County Public Works
10 Twin Dolphin Cr., Suite C200
Redwood City, CA 94065-1065

Subject: Comments on Draft Countywide Waste Management Siting Element and Summary Plan

Dear Cheri,

Thank you for the opportunity to comment on the San Mateo County Draft Waste Management Plans as required by the California Integrated Waste Management Act (AB 939). Overall I think the documents are a good summary and contain adequate historical data about the jurisdictions' activities.

I do have the following suggestions for your consideration:

"Summary Plan"

As stated on page 1- 1, the purpose of the Summary Plan is to provide a summary of the significant waste management problems facing the county and cities, the specific steps necessary to achieve required landfill reduction and a statement of the goals and objectives of the County regarding waste management. The Draft Summary Plan summarizes the programs and facilities selected by the jurisdictions in their SRRE's, presents brief descriptions of current waste management and recycling programs in the jurisdictions and outlines countywide programs.

However, the Draft Summary Plan does not adequately describe the factors or problems that are preventing the County from making progress toward the 50% reduction mandate, nor does it outline specific steps that should be take to achieve the 50% reduction. The statement of Goals on page 1-3 is adequate in a general sense, but the Objectives on the following page and on Table 1-2 should spell out much more specifically how the goals and the objectives will be achieved. The same should be done for the Policies section on page 1-4.

A similar comment can be made on the section including the summaries of programs selected in the SRRE's in Chapter 4. The text and charts present brief descriptions of programs selected and implemented, but there is no analysis of the effectiveness of the programs or details about how they could be expanded or improved, or what additional programs should be implemented to significantly increase diversion and reduction. For example, there is minimal discussion of commercial/industrial recycling programs and no mention of the low participation and the limited services being offered. There is no evaluation of the outreach efforts or the incentives. Moreover, there is no discussion of how to overcome these problems. Commercial/industrial recycling is also not discussed in the overview of current collection and processing systems in Chapter 3.

As stated on page 1-1, the Summary Plan should consider which programs and facilities should be implemented on a countywide basis and how such programs will be structured, designed, financed and administered. The listing of Countywide Programs presented in the Draft Summary Plan (page 4-33) should be analyzed and prioritized for reduction potential. Perhaps there are other programs that would move the jurisdictions more quickly and more economically toward landfill reduction than the programs listed. Two potentially high impact programs that are not listed are promotion of commercial/industrial waste reduction and recycling and construction/demolition waste reduction and recycling. Another area not adequately addressed in the Countywide section of the Draft Summary Plan is the additional staffing that will be necessary to carry out regional efforts. The level of staffing is inadequate for current programs, and therefore would need to be increased for any expansion of countywide efforts.

In general I have difficulty in seeing the value of this document if it doesn't present more evaluation of the effectiveness of current programs as well as detailed plans for programs that will achieve the 50% landfill reduction requirement. The Summary Plan can be more than a status report. This document should assist the County and the jurisdictions in finding opportunities for waste reduction and recycling, determining which ones will result in the most cost effective diversion, finding funding and designing programs that will achieve our goals. San Mateo County needs to use the information presented in this draft document as a foundation for a detailed plan to accelerate program implementation in order to avoid AB 939 penalties and to conserve resources.

"Siting Element"

Similar comments to those above concerning more detailed analysis and planning can be applied to the Draft Siting Element. In particular, more analysis should be conducted to determine effective ways of conserving future landfill space by diverting more waste from landfills at all transfer facilities and disposal sites. Consideration should be given to banning certain materials from landfills, such as organic landscape materials, concrete and other large loads from construction/demolition sites (e.g. wood and metal). Salvage operations at transfer facilities might be required. Fees for self hauled material that is separated for recycling or reuse could be significantly lower than mixed waste.] 1

In general more plans should be developed to conserve landfill space, rather than detailing long term expansion of landfill capacity. The State requires 15 year capacity, which the County has exceeded in its plans outlined in the Draft Siting Element. With more studies of waste generation and more recycling, waste reduction and reuse program implementation, the permitting of landfill expansion beyond that period is premature at this time.] 2

I hope to have the opportunity to discuss these comments with you and other members of the County with an interest in waste management planning in the near future. I would like to see these documents developed as useful and productive tools as we begin the final 18 month period before the deadline for 50% diversion on January 1, 2000.

Please advise me of any meetings related to these documents or further planning sessions.

Sincerely,

Dianne Dryer

Dianne Dryer
Environmental Coordinator

**E. CITY OF MENLO PARK
DIANNE DRYER (7-10-98)**

Responses to Comments on the Siting Element

- E1** The ideas for additional diversion programs to conserve landfill were referred to the LTF for their consideration.
- E2** This comment was referred to the LTF for their consideration.



MONTARA SANITARY DISTRICT

Serving Montara and Moss Beach

Post Office Box 370131
8888 Cabrillo Highway
Montara, CA 94037

Tel: (650)728-3545
Fax: (650)728-8556
george@montara.com

July 8, 1998

F

SE

Cheri Puls
San Mateo County Public Works
10 Twin Dolphin Drive, Suite C200
Redwood City, CA 94065-1065

RE: COUNTYWIDE SITING ELEMENT AND SUMMARY PLAN

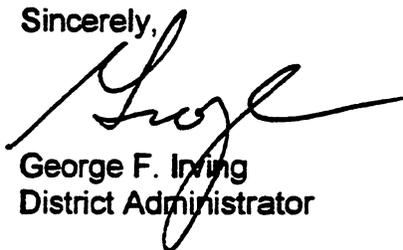
Dear Cheri,

In response to your May 21, 1998 letter requesting comments to the Preliminary Draft of the Countywide Siting Element and the Countywide Summary Plan. The District has reviewed these documents and offers the following comments:

- It is not clear from the documents precisely how the County plans to meet the required 50% diversion rate for the unincorporated area by the year 2000. There should be detailed objectives and timetables against which progress can be measured.
- The Siting Element should include a review and specific action plan to reduce the environmental impact from increased trash-truck traffic on Highway 92. The owner of Ox Mountain Landfill, BFI, should be required to meet whatever mitigation measures are adopted as a condition of receiving approval of the permit to expand the Landfill.] 1

We appreciate the chance to comment on these two documents, and please feel free to contact me if you have any questions.

Sincerely,



George F. Irving
District Administrator

**F. MONTARA SANITARY DISTRICT
GEORGE F. IRVING (7-08-98)**

Responses to Comments on the Siting Element

- F1** Adoption of the Siting Element does not imply or constitute approval of any permit to expand the Ox Mountain Landfill. The current application for expansion of the landfill is subject to the requirements of the California Environmental Quality Act, including an analysis of traffic impacts, and identification and adoption of any necessary mitigation measures.

JAMES A. WYSE, INC.

SOLID WASTE FACILITY MANAGEMENT

G

July 9, 1998
Project 100-1.1

Ms. Cheri Puls
San Mateo County Department of Public Works
10 Twin Dolphin Drive, Suite C200
Redwood City, CA. 94065-1065

RECEIVED
DEPARTMENT OF PUBLIC WORKS
COUNTY OF SAN MATEO

JUL 15 1998

by fax
7-7-98

Re: Preliminary Draft Countywide Siting
Element and Countywide Summary Plan

Dear Ms. Puls:

On behalf of Cypress Amloc Land Company, we have reviewed the two documents transmitted in mid-June: *Preliminary Draft SAN MATEO COUNTY INTEGRATED WASTE MANAGEMENT PLAN, Siting Element*; and *Preliminary Draft SAN MATEO COUNTY INTEGRATED WASTE MANAGEMENT PLAN, Summary Plan*.

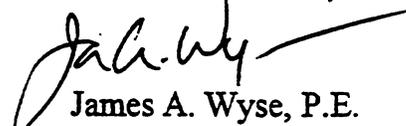
Our comment on the Siting Element is limited to the following:

1. Page II-1, C. POLICIES identifies that the numerous agencies will work with the owner of the Hillside Landfill to ensure that the closure and post-closure maintenance plans are produced in a timely fashion. Such a document was already submitted in January 1998 to the San Mateo County Health Services Agency, Division of Environmental Health Services (LEA). We are in communication with the LEA on this submittal. This comment should be updated to clearly note that the document has been submitted and is currently under review by regulatory agencies.

We have no comments on the Summary Plan.

If you have any questions, please advise.

Very truly yours,
JAMES A. WYSE, INC.


James A. Wyse, P.E.
President

CC: Brent Edmunds

12925 ALCOSTA BLVD. - SUITE 13 - SAN RAMON, CALIFORNIA 94583

(510) 743-2980 - FAX (510) 743-9876
925 725

**G. JAMES A. WYSE, INC.
JAMES A. WYSE, P.E. (7-09-98)**

Responses to Comments on the Siting Element

- G1** The text of the policy has been revised according to Comment A1. The description of Hillside Landfill in Chapter IV of the Siting Element has been revised to reflect the information presented in this comment.



HEALTH SERVICES AGENCY

June 19, 1998

H

Cheri Puls
San Mateo County Public Works
10 Twin Dolphin Drive, Suite # 200
Redwood City, CA 94065

RE: Comments for the preliminary draft Integrated Waste Management Plan

Dear Ms. Puls:

Thank you for the opportunity to review the preliminary draft of the San Mateo County Integrated Waste Management Plan Sitting Element and Summary Plan. As the Local Enforcement Agency (LEA) for San Mateo County, our office has developed a few comments regarding information in the plan. The comments are regarding the following, Hillside Landfill, Tilo Company, Ox Mountain expansion, composting programs and special waste handling programs.

Hillside Landfill

The statement "...the landfill is expected to close once it reaches its permitted capacity," is regarding the closure of Hillside Landfill. This statement from the sitting element and summary plan (Page IV-2 and 3-13 respectively) is inaccurate. The Hillside closure plan is based on a closure date of September 2001. The parcel which contains the current landfill operation was purchased from San Mateo County and its use is conditioned by the 1986 San Mateo County Use Permit 87-8 and the U.S. Fish and Wildlife Service Permit PRT 2-9818. Essentially, these permits state that the facility shall cease operations (in the parcel) on June 1999 or until the facility reaches its permitted capacity whichever comes first. Therefore, the information in the closure plan is inaccurate. Unless the use and U.S. Fish and Wildlife permits can be amended, the closure date for Hillside Landfill should be changed to reflect the landfills current status.

1

Tilo Company

Recently, the California Integrated Waste Management Board has developed regulations regarding the permitting and enforcement of composting and organic storage operations and facilities. The Tilo Company (Page 3-23 summary plan) is required to obtain a standardized permit and must comply with the current composting regulations. Tilo Company and the South San Francisco Water Quality Control Plant are working with our office to obtain this permit. In regards to the composting operations, coffee grounds are no longer used as a bulking agent and the sludge is composted using a modified windrow process and not in static piles.

2

PUBLIC HEALTH AND ENVIRONMENTAL PROTECTION DIVISION

Board of Supervisors: Ruben Barrales • Richard S. Gordon • Mary Griffin • Tom Huening • Michael D. Nevin • Health Services Director: Margaret Taylor
590 Hamilton Street • Redwood City, California 94063 • PHONE 650.363.4305 • TDD 650.573.3206 • FAX 650.363.7882

Cheri Puls
Page 2
June 19, 1998

Ox Mountain expansion

The proposed Ox Mountain expansion is northwest of the current landfill operation. (Figure IV-1 and Page VI-2 sitting element).

3

Composting Program

Table 4-3 on Page 4-16 of the summary plan lists several composting operations in the County. Two in Millbrae, one in Pacifica, and one in San Bruno. As the LEA, our office is unaware of these operations. Please be advised that, these facilities may require composting permits and must comply with state composting regulations. Please provide information regarding these facilities to our office if necessary include location, contact person, size, etc.

4

Special Waste Programs

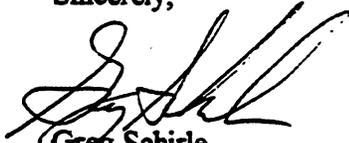
A dead animal disposal program has been listed for the City of Pacifica in Table LI-4 of the summary plan. Dead animal disposal at Ox Mountain is prohibited. The Peninsula Humane Society is the main facility for the disposal of dead animals within the County. Therefore, please provide information regarding the disposal of the animals at this facility in Pacifica.

5

Thank you again for the opportunity to review the preliminary draft of the Integrated Waste Management Plan. Our comments pertain only to Solid Waste handling and disposal facilities.

Should you have any questions or comments regarding this letter, please call me at (650) 363-4797.

Sincerely,



Greg Schirle
Solid Waste Specialist

GS/jb

cc: Dean Peterson, Program Manager

**H. COUNTY OF SAN MATEO HEALTH SERVICES AGENCY
GREG SCHIRLE (6-19-98)**

Responses to Comments on the Summary Plan

- H1** The County is currently holding discussions with the owners of the Hillside Landfill and the U.S. Fish and Wildlife Service to determine the proper closure date for the Hillside Landfill. The text of both the Siting Element and the Summary Plan has been revised to reflect the current state of affairs.
- H2** Comment refers to the Summary Plan.
- H3** The text has been revised as per the comment.
- H4** Comment refers to the Summary Plan.
- H5** Comment refers to the Summary Plan.

