

APPENDIX L
Sewer Study

Kaiser Permanente San Diego Central Hospital Medical Center *Sewer Study*



Prepared by:
RBF Consulting
9755 Clairemont Mesa Blvd.
San Diego, CA 92124
858.614.5000
Contact: Trudi Lim RCE 61213

SANITARY SEWER STUDY REPORT

FOR THE

KAISER PERMANENTE SAN DIEGO CENTRAL HOSPITAL MEDICAL CENTER

OCTOBER 2012

Prepared by:



CONSULTING

A Baker Company

9755 Clairemont Mesa Blvd

San Diego, CA 92124

858.614.5000 Telephone

858.614.5001 Fax

Project Contact:

Trudi Lim, PE, RCE 61213

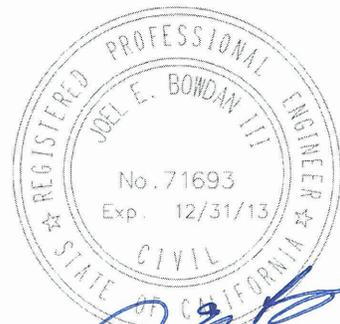
Joel E. Bowdan III, PE, RCE 71693

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Signature

12/03/2012

Date



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Section 1 - Introduction

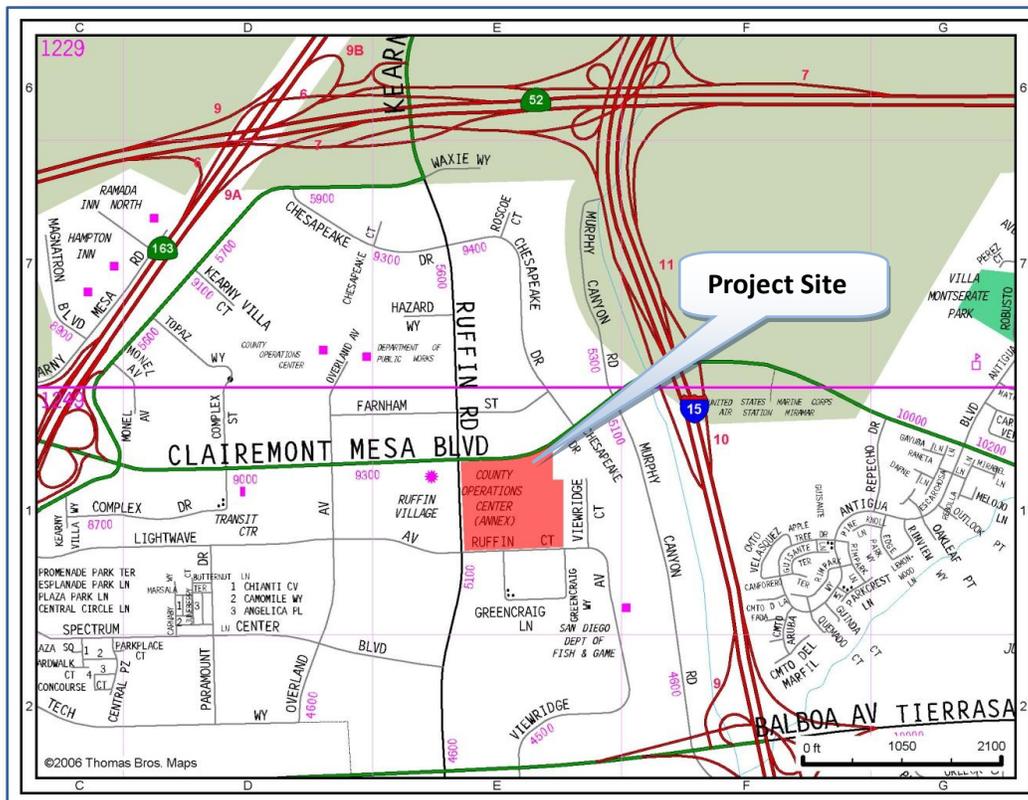
This report provides background data, analysis, and a summary of results as part of a preliminary sanitary sewer system study for the proposed Kaiser Permanente San Diego Central Hospital project. The purpose of this study is to ascertain the potential impact of the proposed project on the existing sanitary sewer system and to verify that sufficient capacity exists within the existing sewer facilities.

Section 2 - Project Description

2.1 Project Location:

The proposed Kaiser Permanente San Diego Central Hospital site is comprised of a 20.01-gross acre parcel (APN 369-121-14-00) that is currently developed with a single story 337,564 square-foot structure formerly utilized as the County of San Diego Annex. Excluding dedicated Right-of-Way, the parcel area is 19.38 acres. Located at 5201 Ruffin Road in San Diego, California, the Project site abuts the Polanski Child Services Center to the east with street frontage along Clairemont Mesa Boulevard to the north, Ruffin Road to the west, and Ruffin Court to the south. The entire project site was previously graded and is currently developed. The Project site is shown in Figure 2-1.

Figure 2-1
Project Site (Reference Thomas Bros. Map 1249 E1)



2.2 Proposed Project:

The proposed project at 5201 Ruffin Road will be a new Central Hospital to provide centralized tertiary services for the entire county of San Diego. The new Kaiser San Diego Central Hospital (Hospital) will serve as a partial replacement to the existing Kaiser San Diego Medical Center (SDMC). The new Hospital will be constructed in two (2) phases; however, this WSA addresses the ultimate development of both phases which will include 450 beds and 720,000 gross square feet (GSF). The project will also include an Energy Center of approximately 38,000 GSF, a Hospital Support Building of approximately 180,000 GSF, and a Parking Structure with a total of 2,200 parking stalls. Table 2-1 summarizes the phasing of the proposed Project. Figure 2-2 depicts the schematic site layout for the Project including the location of the hospital building, hospital support building, energy center, and parking structure within the Project area.

Table 2-1
Proposed Project Summary

	Phase 1	Phase 2	Total
Hospital Building	321 Beds 550,000 SF	129 Beds 170,000 SF	450 Beds 720,000 SF
Hospital Support Building	180,000 SF	--	180,000 SF
Energy Center	36,000 SF	--	36,000 SF
Parking Structure	1,263 Stalls	937 Stalls	2,200 Stalls

Figure 2-2
Proposed Site Layout



2.3 Prior Site Planning

The Kearny Mesa Community Plan currently designates the site as county facilities and is identified as a county facility having an existing 337,564 square foot structure that would be demolished to accommodate the proposed Project. As previously noted, the site is zoned IL-2-1 (previously M1-B) which requires a maximum 0.5 Floor Area Ratio (FAR). Development proposals which exceed 0.50 FAR would be considered through a discretionary permit process that would address potential traffic and environmental impacts.

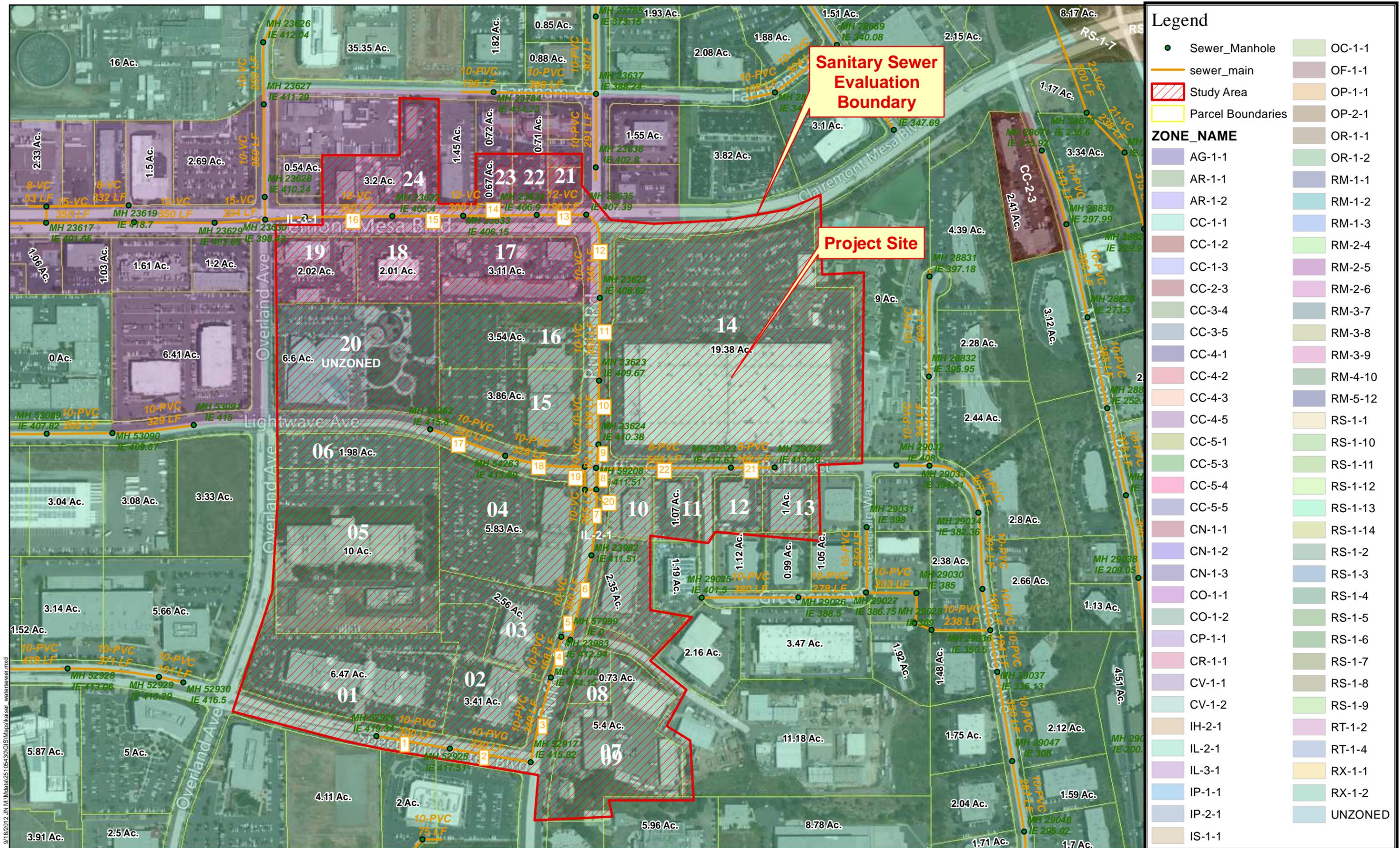
2.4 Study Area

The subject study area, shown in Figure 2-3 on the following page generally encompasses the parcels fronting Ruffin Road between Spectrum Center Boulevard and Clairemont Mesa Boulevard, and also fronting Clairemont Mesa Boulevard between Ruffin Road and Overland Avenue. The primary zoning in the area consists of light industrial (IL-2-1) along Ruffin Road with a mixture of commercial (CC-1-3) and light industrial (IL-3-1) along Clairemont Mesa Boulevard. In accordance with the requirements specified in the preliminary permit review submittal comments, the proposed project is required to prepare a sewer system study with manhole to manhole calculations performed from the upstream sewer system reach on Ruffin Road downstream to the connection to existing 15-inch sewer in Clairemont Mesa Boulevard east of Overland Avenue.

The proposed project will connect to the existing 8-inch PVC gravity sewer located south of the site in the Ruffin Court and to the last reach of existing 10-inch vitrified clay pipe (VCP) gravity sewer located west of the site in Ruffin Road (see Figure 2-4).

The 8-inch Ruffin Court sewer flows westerly and connects to the 10 inch Ruffin Road sewer via the manhole located at the intersection of Ruffin Court and Ruffin Road. Additional sanitary flow from the west (Lightwave Avenue) and south (portion of Spectrum Center Boulevard and Ruffin Road) converge just south of the Ruffin Court and Ruffin Road intersection. The 10-inch sanitary sewer continues northerly along the Ruffin Road alignment approximately 1,020 lineal feet to the intersection of Clairemont Mesa Boulevard and Ruffin Road. At this intersection, a 12-inch VCP sewer flows westerly within the Clairemont Mesa Boulevard alignment approximately 1,150 lineal feet to the point of connection to the 15-inch VCP sewer about 148-feet east of the intersection of Clairemont Mesa Boulevard at Overland Avenue. Refer to Figure 2-3, Figure 2-4, and City of San Diego SEWER FIELD BOOK Pages H11S, H12S and I12S.

The existing Ruffin Road and Clairemont Mesa Boulevard sewers were constructed during the 1960s are generally of VCP. The branch connecting sewers along Spectrum Center Boulevard, Lightwave Avenue, and Ruffin Court were constructed primarily in the late 1990s and early 2000s and are of PVC construction.

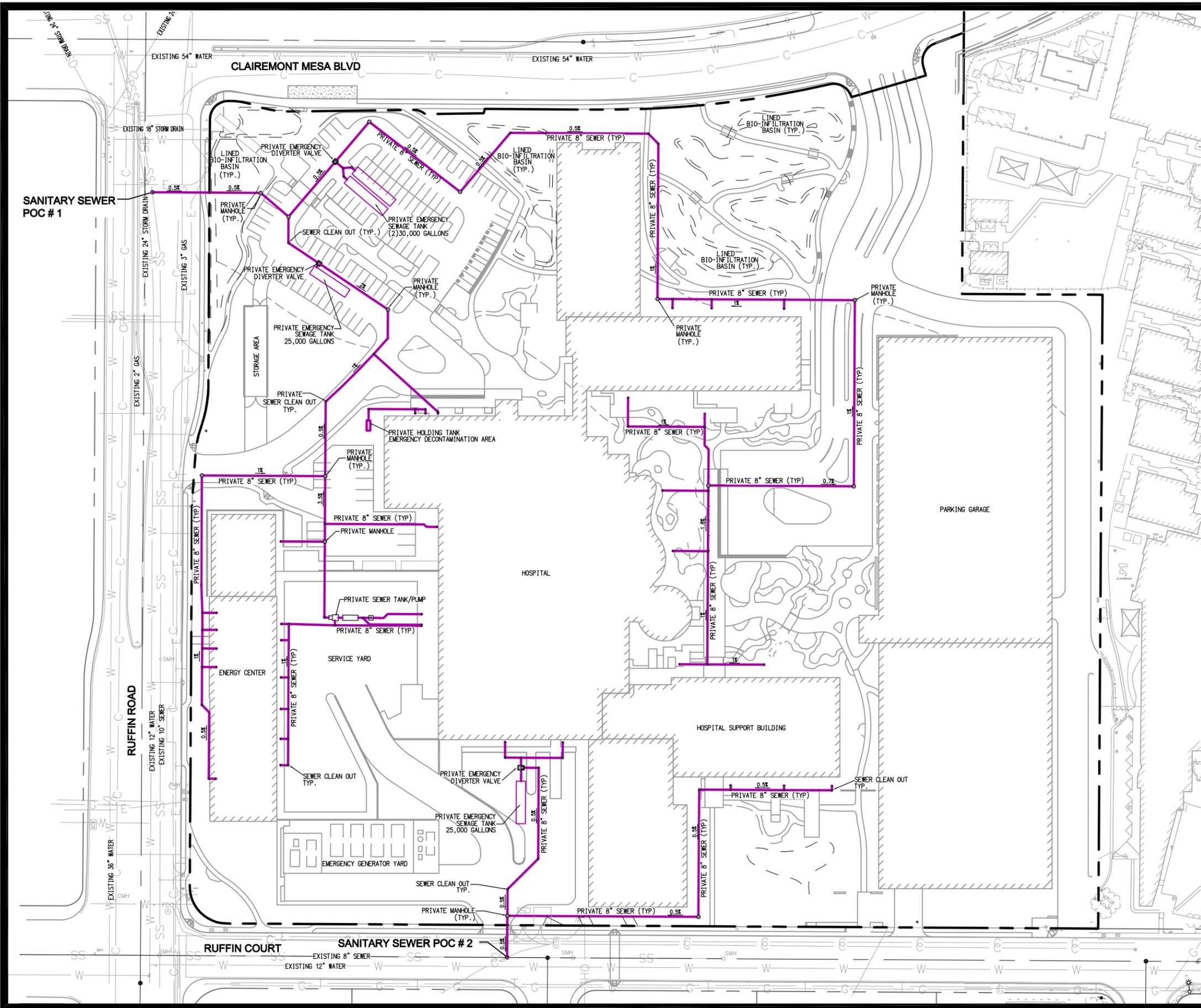


Legend

- Sewer_Manhole
- sewer_main
- Study Area
- Parcel Boundaries

ZONE_NAME

AG-1-1	OC-1-1
AR-1-1	OF-1-1
AR-1-2	OP-1-1
CC-1-1	OP-2-1
CC-1-2	OR-1-1
CC-1-3	OR-1-2
CC-2-3	RM-1-1
CC-3-4	RM-1-2
CC-3-5	RM-1-3
CC-4-1	RM-2-4
CC-4-2	RM-2-5
CC-4-3	RM-2-6
CC-4-5	RM-3-7
CC-5-1	RM-3-8
CC-5-3	RM-3-9
CC-5-4	RM-4-10
CC-5-5	RM-5-12
CN-1-1	RS-1-1
CN-1-2	RS-1-10
CN-1-3	RS-1-11
CO-1-1	RS-1-12
CO-1-2	RS-1-13
CP-1-1	RS-1-14
CR-1-1	RS-1-2
CV-1-1	RS-1-3
CV-1-2	RS-1-4
IH-2-1	RS-1-5
IL-2-1	RS-1-6
IL-3-1	RS-1-7
IP-1-1	RS-1-8
IP-2-1	RS-1-9
IS-1-1	RS-1-14
	RT-1-2
	RT-1-4
	RX-1-1
	RX-1-2
	UNZONED



SANITARY SEWER EXHIBIT

December 2012

KAISER PERMANENTE
San Diego Central Hospital
Medical Center

RBF CONSULTING PLANNING ■ DESIGN ■ CONSTRUCTION

9755 CLAIREMONT MESA BOULEVARD, SUITE 100
 SAN DIEGO, CALIFORNIA 92124-1324
 858.614.5000 • FAX 858.614.5001 • www.RBF.com

Figure 2-4

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2.5 Sewage Generation Rates:

Preliminary sewer generation rates for the proposed development are based on the planning requirements provided in City of San Diego Sewer Design Guide. The Sewer Design Guide methodology calculates sanitary flows based on the anticipated maximum equivalent population that may result based on current or planned parcel zoning. The Average Dry Weather Flow (ADWF) was calculated for the proposed site as shown in Table 2-2 below. As a comparison, an alternate method for calculating the ADWF is provided in Table 2-3 on the following page. This alternate method utilizes a combination of duty factor demands obtained from City of Los Angeles Public and Commercial Facilities Average Daily Flow Projections (Table F229) and sewage generation rates listed in “Wastewater Engineering” (Metcalf and Eddy, Fourth Edition). Proposed building areas and number of beds for the hospital, support buildings and the energy center were previously provided in Table 2-1. The fixtures planned for use within the hospital and hospital support buildings are of the low water use, high-water conserving type to help meet targeted LEED requirements. Therefore, the low end of the typical generation rate range of 250 to 400 gallons per bed (Metcalf and Eddy, pg 158, Table 3-3) will be utilized in the alternate calculation method.

Table 2-2
Sewer Generation Rates: City of San Diego Sewer Design Guide 2004

Daily Per Capita Sewer Flow (gpcd)	=	80	PG 1-6
Net Acreage	=	0.8 * (Gross Area in Acres)	PG 1-16
Hospital Max Density (DU/Net Ac)	=	42.9	PG 1-16, Table 1-1
Population/(DU)	=	3.5	PG 1-16, Table 1-2
<u>Net Acreage</u>	=	0.8 * (Gross Area in Acres)	
	=	0.8 * (20.01 Acres)	
	=	16.0 Ac	
<u>Population</u>	=	16.0 (Net Ac) * 42.9 (DU/Net Ac) * 3.5 (Population/DU)	
	=	2,401 persons	
<u>AVERAGE DRY WEATHER FLOW</u>	=	Daily Per Capita Sewer Flow (gpd) * Population	
	=	80 (gpcd) * 2,401	
	=	192,100 gpd (or 0.30 cfs)	

Table 2-3
Sewer Generation Rates: Wastewater Engineering - Treatment & Reuse 4th Ed. (Metcalf & Eddy)

Hospital Beds (Phase 1 and 2)	=	450 beds	
Hospital Support Building Area	=	180,000 sq. ft	
Energy Center building Area	=	36,000 sq. ft	
Low Hospital Bed Sanitary Rate	=	250 (gal/bed/day)	M&E, pg 158, Table 3-3
Hospital Support Building (Office Bldg) Duty Factor Demand	=	0.20 gpd/sq. ft.	City of LA, Table F229
Energy Center Building (Cooling Towers and Boilers) Duty Factor Demand	=	0.30 gpd/sq. ft.	City of LA, Table F229
<u>Hospital Sanitary Flow</u>	=	250 (gal/bed/day) * 450 Units 112,500 gpd (or 0.17 cfs)	
<u>Hospital Support Bldg Sanitary Flow</u>	=	180,000 sq. ft. * 0.20 gpd/sq. ft. 36,000 gpd (or 0.06 cfs)	
<u>Energy Center Sanitary Flow</u>	=	36,000 sq. ft. * 0.30 gpd/sq. ft. 10,800 gpd (or 0.02 cfs)	
<u>AVERAGE DRY WEATHER FLOW</u>	=	159,300 gpd (or 0.25 cfs)	

Based on the above methods of calculating the ADWF, the more conservative ADWF of 192,100 gpd (0.30 cfs) will be utilized as the basis of determining equivalent population and sanitary flows from the proposed site during sewer modeling in Section 3 of this report.

Section 3 - Sanitary Sewer Analysis

This section of the study report discusses the review of previous sanitary sewer studies related to the project area, hydraulic analysis of the existing sanitary sewer system with new flows from the proposed Kaiser Permanente San Diego Central Hospital project, and the results of the hydraulic analysis.

3.1 Guidelines, Data, Exhibits and Previous Study Reports

The following guidelines, data, exhibits and/or previous accepted sanitary sewer study reports were reviewed as part of the preparation of this sanitary sewer analysis:

- ❖ City of Los Angeles Public and Commercial Facilities Average Daily Flow Projections
- ❖ City of San Diego Sewer Field Book (Panels H11S, H12S, I11S, I12S)
- ❖ City of San Diego Sewer Design Guide 2004
- ❖ City of San Diego Sewer Manhole and Sewer Main Shape Files (GIS)
- ❖ SanGIS Current Zoning Shape Files(GIS)
- ❖ San Diego County Parcel Data Mid-2011 (GIS)
- ❖ San Diego Spectrum Master Sewer Study (2001, WO 400796, TM 96-0165)
- ❖ Sewer Study for New Century Center (1998, JN 12709, TM 96-0165)
- ❖ As-Built Drawings

3.2 Sanitary Drainage Area Equivalent Population Analysis

The previous San Diego Spectrum and New Century Sewer Studies provided useful initial planning data to this sanitary sewer analysis effort; however, the sanitary drainage basin comprising the study area is now largely developed with revised parcels and connections to the existing sewer system. Therefore, this sanitary sewer analysis utilizes revised data based on actual parcel configuration, zoning designations, and building areas to calculate equivalent population for use in the sanitary sewer hydraulic model.

The Sanitary Sewer Map and Study Area were previously shown in Figure 2-3 in Section 2 of this report. A total of twenty-four (24) existing parcels are shown within the Study Area in Figure 2-3. The proposed site for the Kaiser Permanente San Diego Central Hospital project is on Parcel 14 within the Study Area.

Two methods were utilized to calculate the equivalent population of each parcel within the Study Area. Method 1 utilizes criteria from the City of San Diego Sewer Design Guideline 2004 to calculate population based on net parcel area, parcel zoning, and the City of San Diego Density Conversion Table 1-1 (see Appendix). The Method 1 equivalent population calculation summary is provided in Table 3-1. Method 2 utilizes actual building gross areas (per parcel) coupled with duty factor demands derived from the City of Los Angeles Bureau of Engineering Manual Part F, Table F229. The calculated parcel demands are then converted to equivalent population by dividing each demand by the City of San Diego sanitary rate of 80 gal/capita/day. The Method 2 equivalent population calculation summary is provided in Table 3-2.

Table 3-1
Equivalent Population Summary Method 1

Net/Gross Factor:	0.8
--------------------------	------------

Parcels	Zoning	Gross Ac ¹	Net Ac	Pop/Net Ac ²	Pop	Notes
1	IL-2-1	6.47	5.18	62.50	324	Northrup Grumman, 2 story office bldg
2	IL-2-1	3.41	2.73	62.50	171	Northrup Grumman, 3 story office bldg
3	IL-2-1	2.56	2.05	62.50	128	Northrup Grumman, 2 story office bldg
4	IL-2-1	5.83	4.66	62.50	292	National University, 1 story bldg.
5	IL-2-1	10.00	8.00	62.50	500	2 story office bldg
6	IL-2-1	1.98	1.58	0.00	0	Parking Lot
7	IL-2-1	5.40	4.32	62.50	270	Warehouse/Studios, single story bldgs
8	IL-2-1	0.73	0.58	62.50	37	
9	IL-2-1	2.35	1.88	62.50	118	County Health Srvc, 2 story office bldg
10	IL-2-1	1.03	0.82	62.50	52	Preschool & Medical Office, 1 story bldg
11	IL-2-1	1.01	0.81	62.50	51	Johnson Catering, 1 story office/whse
12	IL-2-1	1.00	0.80	62.50	50	Office/Warehouse, 1 & 2 story bldg
13	IL-2-1	1.00	0.80	62.50	50	Office/Warehouse, 1 story bldg
14	IL-2-1	20.01	16.01	150.00	2401	Proposed Hospital Site
15	IL-2-1	3.86	3.09	62.50	193	National University, 1 story bldg.
16	IL-2-1	3.54	2.83	62.50	177	
17	IL-3-1	3.11	2.49	43.70	109	Strip Commercial
18	IL-3-1	2.01	1.61	43.70	70	County Recorder, 2 story bldg.
19	IL-3-1	2.02	1.62	43.70	71	Strip Commercial
20	Unzoned	6.60	5.28	31.25	165	YMCA with Pool & Missile Park
21	IL-3-1	1.82	1.46	43.70	64	Commercial
22	IL-3-1					
23	IL-3-1					
24	IL-3-1					
Total Equivalent Population					5401	

Notes:

1. Gross acreage of each parcel from SANGIS County Parcel Data (SDE4SD.SDE.Parcels_Mid2011)
2. Population per net acre from City of San Diego MWWWD Sewer Design Guide 2004 (Table 1-1)

Table 3-2
Equivalent Population Summary Method 2

Sanitary Rate (gpcd):	80
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Parcels	Zoning	Facility Data ¹		Duty Factor Demand ²	ADWF (gpd)	Pop	Notes
		Qty	Units				
1	IL-2-1	270,000	sq. ft.	0.20 gpd/sq.ft	54,000	675	Northrup Grumman, 2 story office bldg
2	IL-2-1	90,000	sq. ft.	0.20 gpd/sq.ft	18,000	225	Northrup Grumman, 3 story office bldg
3	IL-2-1	70,000	sq. ft.	0.20 gpd/sq.ft	14,000	175	Northrup Grumman, 2 story office bldg
4	IL-2-1	57,000	sq. ft.	0.20 gpd/sq.ft	11,400	143	National University, 1 story bldg.
5	IL-2-1	226,000	sq. ft.	0.20 gpd/sq.ft	45,200	565	2 story office bldg
6	IL-2-1	-	sq. ft.		-	0	Parking Lot
7	IL-2-1	44,000	sq. ft.	0.10 gpd/sq.ft	4,400	55	Warehouse/Studios, single story bldgs
8	IL-2-1	3,500	sq. ft.	0.10 gpd/sq.ft	350	4	
9	IL-2-1	66,000	sq. ft.	0.20 gpd/sq.ft	13,200	165	County Health Srvc, 2 story office bldg
10	IL-2-1	21,000	sq. ft.	0.20 gpd/sq.ft	4,200	53	Preschool & Medical Office, 1 story bldg
11	IL-2-1	9,300	sq. ft.	0.20 gpd/sq.ft	1,860	23	Johnson Catering, 1 story office/whse
12	IL-2-1	33,000	sq. ft.	0.025 gpd/sq.ft	825	10	Office/Warehouse, 1 & 2 story bldg
13	IL-2-1	31,000	sq. ft.	0.025 gpd/sq.ft	775	10	Office/Warehouse, 1 story bldg
14	IL-2-1	321	Beds	250.00 gpd/bed	80,250	1003	Hospital Beds (Phase 1)
		129	Beds	250.00 gpd/bed	32,250	403	Hospital Beds (Phase 2)
		180,000	sq. ft.	0.20 gpd/sq.ft	36,000	450	Hospital Support Building (Offices/Outpatient)
		36,000	sq. ft.	0.30 gpd/sq.ft	10,800	135	Energy Center (Cooling Towers & Boilers)
15	IL-2-1	90,000	sq. ft.	0.30 gpd/sq.ft	27,000	338	National University, 1 story bldg.
16	IL-2-1						
17	IL-3-1	64,000	sq. ft.	0.30 gpd/sq.ft	19,200	240	Strip Commercial
18	IL-3-1	42,000	sq. ft.	0.20 gpd/sq.ft	8,400	105	County Recorder, 2 story bldg.
19	IL-3-1	29,000	sq. ft.	0.30 gpd/sq.ft	8,700	109	Strip Commercial
20	Un-zoned	60,000	sq. ft.	0.30 gpd/sq.ft	18,000	225	YMCA Gymnasium
		20,000	sq. ft.	0.10 gpd/sq.ft	2,000	25	YMCA Offices
21	IL-3-1	14,000	sq. ft.	0.10 gpd/sq.ft	1,400	18	Commercial - Bank Branch
22	IL-3-1	10,000	sq. ft.	0.30 gpd/sq.ft	3,000	38	Commercial - Doughnut Shop/Restaurant
23	IL-3-1				-	0	Shared Lot
24	IL-3-1		27,000	sq. ft.	0.10 gpd/sq.ft	2,700	34
Total Equivalent Population						5224	

Notes:

1. Building facility square footage estimated based on aerial imagery and number of stories. Kaiser information taken from data available to date.
2. Duty Factor Demands obtained from City of Los Angeles Public and Commercial Facilities Average Daily Flow Projections (Table F229).

Based on the summaries provided in Table 3-1 and Table 3-2, the total equivalent populations approximate each other at 5,401 and 5,224 persons, respectively. The equivalent populations calculated by Method 1 are slightly more conservative and will be utilized as the basis for cumulative population summation in the sanitary sewer hydraulic model.

3.3 Model Methodology

A Microsoft Excel spreadsheet was utilized to perform the hydraulic analysis of the existing sanitary sewer within the Study Area. The spreadsheet was developed similar to the Sewer Study Summary (Figure 1-2) contained in the City of San Diego Sewer Design Guide 2004. Each reach or “Line” of the existing sanitary sewer system includes the upstream and downstream manhole designations, invert elevations, length, and diameter of the sewer. Sewer lengths and invert elevations were obtained from the City of San Diego GIS sewer manhole and sewer main shape files used in Splash, and from as-built sewer data also obtained from the City of San Diego.

Equivalent “in-line” population was assigned to each reach based on the locations of connecting sanitary leads from adjacent parcels. Equivalent population from the proposed Kaiser project site was distributed 75-percent to the north-westerly point of connection on Ruffin Road and 25-percent to the southern point of connection at Ruffin Court. The distribution is an approximation based on the proposed location of the Phase 1 and 2 hospital towers at the north end of the project site. Cumulative equivalent population was calculated for each reach by summing all upstream reach equivalent populations.

The Average Dry Weather Flow (ADWF) was calculated for each reach by the product of the cumulative population sanitary flow rate of 80 gpcd. Peak Dry Weather Flow (PDWF) was calculated for each reach by multiplying the ADWF by the calculated Peaking Factor for Dry Weather Flow (PFDW)¹. The PFDW, which decreases as the cumulative population increases, ranged 3.72 to 1.99. In accordance with the direction received from the City of San Diego Public Utilities Department, the Peaking Factor for Wet Weather Flow (PFWF) was maintained at 1.00². Therefore, the calculated Peak Wet Weather Flow (PWWF) for each reach was equivalent to the PDWF. The design full pipe capacity (Q_{full}) was calculated utilizing Manning’s Equation and a Manning’s “n” value of 0.013.

The ratio of actual depth to pipe diameter (d/D) was calculated by using an Excel algorithm to select the appropriate d/D (to the nearest 0.01 increment) based on the corresponding ratio of calculated PWWF to full pipe flow (Q/Q_{full}).

¹ Peaking Factor for Dry Weather Flow (PFDW) calculated using the Holmes & Narver Equation (1960), $PFDW = 6.2945 \times (\text{Population})^{-0.1342}$.

² Peaking Factor for Wet Weather Flow (PFWF) set to 1.00 by City of San Diego Public Utilities Department due to low water table at the higher elevations in the Kearny Mesa area.

3.4 Hydraulic Analysis Results – Phase 1 & Phase 2

The results of the hydraulic analysis model are shown in the Sanitary Sewer Study Summary provided in Figure 3-1 at the end of this section. The results are summarized as follows:

1. The d/D ratios for existing peak flows along the 10-inch diameter Ruffin Road sanitary sewer, from Spectrum Center Boulevard to just upstream of Ruffin Court (Lines 1 through 8), range from 0.17 to 0.49. Normal depths along this stretch of sewer range from 1.7 to 4.9 inches with pipe velocities ranging from 1.89 to 2.31 ft/s.
2. The d/D ratios for proposed peak flows along the 8-inch diameter Ruffin Court sanitary sewer branch, from the proposed Kaiser southerly point of connection to just upstream of Ruffin Court (Lines 21 and 22), range from 0.11 to 0.38. Normal depths along this stretch of sewer range from 0.9 to 3.0 inches with pipe velocities ranging from 1.10 to 1.98 ft/s.
3. Downstream of the confluence at the intersection of Ruffin Court along the 10-inch Ruffin Road sewer but upstream of the proposed Kaiser north-westerly point of connection, the d/D ratios in this stretch of sewer (Lines 9 through 11) based on the proposed peak flows range from 0.57 to 0.61. Normal depths along this stretch of sewer range from 5.7 to 6.1 inches with pipe velocities ranging from 2.34 to 2.41 ft/s.
4. Downstream of the proposed Kaiser north-westerly point of connection along the existing 10-inch Ruffin Road sewer (Line 12), the d/D ratio increases to a maximum of 0.78 for this short stretch of sewer based on the proposed peak flows. The approximate length of sewer in this stretch is 150 feet. The normal depth and velocity in this stretch of sewer are 7.8 inches and 2.76 ft/s, respectively.
5. The d/D ratios for existing peak flows along the 12-inch diameter Clairemont Mesa Boulevard sanitary sewer, from the intersection at Ruffin Road to the point of connection to the 15-inch sewer just upstream of Ruffin Court (Lines 13 through 16), range from 0.62 to 0.64. Normal depths along this stretch of sewer range from 7.4 to 7.7 inches with pipe velocities ranging from 2.48 to 2.50 ft/s.

FIGURE 3-1
SANITARY SEWER STUDY SUMMARY
EXISTING SANITARY SYSTEM WITH PROPOSED KAISER FACILITY (PARCEL 14)

Manning n: 0.013

SHEET 1 OF 1
 DATE: 10/09/2012
 REFER TO FIGURE 2-3

JOB NO: BY: RBF CONSULTING, 9755 CLAIREMONT MESA BLVD, SAN DIEGO, CA 92114

FOR: KAISER PERMANENTE SAN DIEGO CENTRAL HOSPITAL

Line	Length (ft)	From		To		Population Served ¹		Sewage Flow (gpcd)	ADWF (gpd)	Peaking Factor for DWF (PFDW) ²	PDWF (gpd)	Peaking Factor for WWF (PFWW) ³	Peak Wet Weather Flow (PWWF) (Design Flow)		Pipe Size Diameter (in)	Pipe Slope (%)	Full Pipe Flow (cfs)	Q/Qfull	Calculated d/D	Calculated Normal Depth (d _n)	Pipe Velocity (ft/s)	Remarks
		MH	I.E.	MH	I.E.	In-Line	Cum. Total						mgd	cfs								
Main Line																						
1	300	52926	419.34	52925	417.51	324	324	80	25,880	2.90	75,007	1.00	0.08	0.12	10.00	0.61	1.71	0.068	0.17	1.70	1.89	Parcel 1
2	330	52925	417.51	52917	415.82	171	494	80	39,520	2.74	108,213	1.00	0.11	0.17	10.00	0.51	1.57	0.107	0.22	2.20	1.88	Parcel 2
3	349	52917	415.82	53100	414.15	270	764	80	61,120	2.58	157,846	1.00	0.16	0.24	10.00	0.48	1.51	0.161	0.27	2.70	2.06	Parcel 7
4	168	53100	414.15	23983	413.19	165	929	80	74,280	2.52	186,877	1.00	0.19	0.29	10.00	0.57	1.66	0.175	0.28	2.80	2.31	Parcels 3 & 8
5	64	23983	413.19	57999	412.85	0	929	80	74,280	2.52	186,877	1.00	0.19	0.29	10.00	0.53	1.60	0.181	0.28	2.80	2.31	
6	350	57999	412.85	23982	411.51	118	1,046	80	83,680	2.48	207,187	1.00	0.21	0.32	10.00	0.38	1.36	0.237	0.33	3.30	2.04	Parcel 9
7	265	23982	411.51	59208	410.87	52	1,098	80	87,800	2.46	215,990	1.00	0.22	0.33	10.00	0.24	1.08	0.311	0.38	3.80	1.76	Parcel 10
8	87	59208	410.87	23981	410.63	0	2,054	80	164,320	2.26	371,621	1.00	0.37	0.58	10.00	0.28	1.15	0.500	0.49	4.90	2.16	Branch connection from Line 20
9	82	23981	410.63	23624	410.38	0	2,805	80	224,384	2.17	486,681	1.00	0.49	0.75	10.00	0.30	1.21	0.623	0.57	5.70	2.34	Branch connection from Line 22
10	239	23624	410.38	23623	409.67	370	3,175	80	253,984	2.13	541,798	1.00	0.54	0.84	10.00	0.30	1.19	0.702	0.61	6.10	2.41	Parcels 15 & 16
11	350	23623	409.67	23622	408.62	0	3,175	80	253,984	2.13	541,798	1.00	0.54	0.84	10.00	0.30	1.20	0.699	0.61	6.10	2.41	
12	345	23622	408.62	23635	407.39	1,910	5,084	80	406,754	2.00	814,546	1.00	0.81	1.26	10.00	0.36	1.31	0.964	0.78	7.80	2.76	Parcel 17 & Parcel 14 (75% of Flow)
13	196	23635	407.39	23634	406.90	32	5,116	80	409,299	2.00	818,957	1.00	0.82	1.27	12.00	0.25	1.78	0.712	0.62	7.44	2.48	Parcels 21-23 (50% of Flow)
14	300	23634	406.90	23633	406.15	32	5,148	80	411,844	2.00	823,364	1.00	0.82	1.27	12.00	0.25	1.78	0.716	0.62	7.44	2.49	Parcels 21-23 (50% of Flow)
15	300	23633	406.15	23632	405.40	126	5,274	80	421,941	1.99	840,811	1.00	0.84	1.30	12.00	0.25	1.78	0.731	0.63	7.56	2.50	Parcel 18 & Parcel 24 (50% of Flow)
16	350	23632	405.40	23631	404.53	127	5,401	80	432,065	1.99	858,251	1.00	0.86	1.33	12.00	0.25	1.78	0.748	0.64	7.68	2.50	Parcel 19 & Parcel 24 (50% of Flow)
Branch 17-20																						
17	320	54262	415.80	54263	413.89	665	665	80	53,200	2.63	139,975	1.00	0.14	0.22	10.00	0.60	1.69	0.128	0.24	2.40	2.15	Parcels 5 & 20
18	329	54263	413.89	57352	412.80	292	957	80	76,520	2.51	191,747	1.00	0.19	0.30	10.00	0.33	1.26	0.235	0.33	3.30	1.89	Parcel 4
19	91	57352	412.60	59207	412.30	0	957	80	76,520	2.51	191,747	1.00	0.19	0.30	10.00	0.33	1.26	0.236	0.33	3.30	1.89	
20	46	59207	412.10	59208	411.51	0	957	80	76,520	2.51	191,747	1.00	0.19	0.30	10.00	1.28	2.48	0.120	0.23	2.30	3.13	
Branch 21-22																						
21	162	29024	413.28	29023	412.63	50	50	80	4,000	3.72	14,894	1.00	0.01	0.02	8.00	0.40	0.77	0.030	0.11	0.88	1.10	Parcel 13
22	506	29023	412.63	23981	410.63	701	751	80	60,064	2.59	155,482	1.00	0.16	0.24	8.00	0.40	0.76	0.317	0.38	3.04	1.98	Parcel 12 & Parcel 14 (25% of Flow)
						5,401																

NOTES:

- Population calculated based on Net Parcel Area (i.e. 80% of Gross Parcel Area) and using city of San Diego Density Conversions from Table 1-1 of the Sewer Design Guide. Refer to the Equivalent Population Summary Table in this report.
- Peaking Factor for Dry Weather Flow (PFDW) calculated using the Holmes & Narver Equation (1960), $PFDW = 6.2945 \times (\text{Population})^{-0.1342}$.
- Peaking Factor for Wet Weather Flow (PFWW) was determined by the City of San Diego MWW to be 1.0 (i.e. PFWW = 1.0) for the existing sewer system.

Section 4 - Recommendations

Based on the discussion provided in Section 2 and analysis results provided in Section 3 regarding the proposed Kaiser Permanente San Diego Central Hospital project, the following recommendations are provided:

1. As a result of the higher d/D ratio expected in the final reach of existing 10-inch sewer downstream of the proposed northwesterly Kaiser point of connection, it is recommended that the actual point of connection be located as far north on Ruffin Road as is practical to minimize the total length of affected 10-inch sewer.
2. Due to the age of the 10-inch VCP sewer in Ruffin Road, it is recommended that the new Kaiser point of connection utilize a new manhole constructed over the existing sewer in lieu of a wye connection. The manhole connection would allow the existing sewer to remain in service during construction of the tie-in and minimize damage to the older sewer.
3. The southerly point of connection to the 8-inch PVC sewer in Ruffin Court should utilize a cut-in wye with upstream and downstream closure fittings in-lieu of a saddle wye connection. In conversation with the City of San Diego Public Utilities Department, the City has not had good experience with large (> 6" diameter) sanitary connections to existing sewer pipe using saddle wyes; therefore, the saddle wye connection should be avoided.
4. The revised calculated existing Peak Wet Weather Flows, based on actual parcel configuration and usage, are higher than the projected values provided in the earlier Spectrum Center and New Century studies. If the proposed d/D ratio calculated by this latest sanitary sewer study for the last reach of 10-inch sewer becomes a concern, then flow monitoring at a point upstream of the proposed Kaiser northwesterly connection should be considered to verify actual existing sanitary flows. The flow monitoring, if justified, should cover a monitoring period of one full week to ascertain weekday and weekend flows.

Section 5 - Appendices

1. City of San Diego Sewer Design Guidelines 2004 - Density Conversion (Table 1-1, pages 1-15 and 1-16)
2. City of San Diego Sewer Design Guidelines 2004 - MWWD Peaking Factor for Sewer Flows (Dry Weather) (Figure 1-1)
3. City of Los Angeles Bureau of Engineering Manual – Part F Sewer 6/92 F200 – Public and Commercial Facilities Average Daily Flow Projections (Table F229)

TABLE 1-1
CITY OF SAN DIEGO
DENSITY CONVERSIONS

Zone	Maximum Density (DU/Net Ac)	Population/(DU)	Equivalent Population (Pop/Net Ac)
AR-1-1, RE-1-1	0.1	3.5	0.4
RE-1-2	0.2	3.5	0.7
AR-1-2, RE-1-3	1	3.5	3.5
RS-1-1, RS-1-8	1	3.5	3.5
RS-1-2, RS-1-9	2	3.5	7.0
RS-1-3, RS-1-10	3	3.5	10.5
RS-1-4, RS-1-11	4	3.5	14.0
RS-1-5, RS-1-12	5	3.5	17.5
RS-1-6, RS-1-13	7	3.5	24.5
RS-1-7, RS-1-14	9	3.5	31.5
RX-1-1	11	3.4	37.4
RT-1-1	12	3.3	39.6
RX-1-2, RT-1-2, RU-1-1	14	3.2	44.8
RT-1-3, RM-1-2	17	3.1	52.7
RT-1-4	20	3.0	60.0
RM-1-3	22	3.0	66.0
RM-2-4	25	3.0	75.0
RM-2-5	29	3.0	87.0
RM-2-6	35	2.8	98.0
RM-3-7, RM-5-12	43	2.6	111.8
RM-3-8	54	2.4	129.6

TABLE 1-1

**CITY OF SAN DIEGO
DENSITY CONVERSIONS
(Continued)**

Zone	Maximum Density (DU/Net Ac)	Population/(DU)	Equivalent Population (Pop/Net Ac)
RM-3-9	73	2.2	160.6
RM-4-10	109	1.8	196.2
RM-4-11	218	1.5	327.0
Schools/Public	8.9	3.5	31.2
Offices	10.9	3.5	38.2*
Commercial/Hotels	12.5	3.5	43.7*
Industrial	17.9	3.5	62.5*
Hospital	42.9	3.5	150.0*

Definitions:

DU = Dwelling Units

Ac = Acreage

Pop = Population

Net Acreage is the developable lot areas excluding areas that are dedicated as public streets in acres. Gross Area is the entire area in acres of the drainage basin, including lots, streets, etc.

For undeveloped areas, assume Net Acreage = 0.8 x Gross Area in Acres

For developed areas, calculate actual net acreage.

Tabulated figures are for general case. The tabulated figures shall not be used if more accurate figures are available.

Population is based on actual equivalent dwelling units (EDU) or the maximum estimate obtained from zoning.

Figures with asterisk (*) represent equivalent population per floor of the building.

**CITY OF SAN DIEGO
METROPOLITAN WASTEWATER DEPARTMENT**

**PEAKING FACTOR FOR SEWER FLOWS
(Dry Weather)**

**Ratio of Peak to Average Flow*
Versus Tributary Population**

<u>Population</u>	<u>Ratio of Peak to Average Flow</u>	<u>Population</u>	<u>Ratio of Peak to Average Flow</u>
200	4.00	4,800	2.01
500	3.00	5,000	2.00
800	2.75	5,200	1.99
900	2.60	5,500	1.97
1,000	2.50	6,000	1.95
1,100	2.47	6,200	1.94
1,200	2.45	6,400	1.93
1,300	2.43	6,900	1.91
1,400	2.40	7,300	1.90
1,500	2.38	7,500	1.89
1,600	2.36	8,100	1.87
1,700	2.34	8,400	1.86
1,750	2.33	9,100	1.84
1,800	2.32	9,600	1.83
1,850	2.31	10,000	1.82
1,900	2.30	11,500	1.80
2,000	2.29	13,000	1.78
2,150	2.27	14,500	1.76
2,225	2.25	15,000	1.75
2,300	2.24	16,000	1.74
2,375	2.23	16,700	1.73
2,425	2.22	17,400	1.72
2,500	2.21	18,000	1.71
2,600	2.20	18,900	1.70
2,625	2.19	19,800	1.69
2,675	2.18	21,500	1.68
2,775	2.17	22,600	1.67
2,850	2.16	25,000	1.65
3,000	2.14	26,500	1.64
3,100	2.13	28,000	1.63
3,200	2.12	32,000	1.61
3,500	2.10	36,000	1.59
3,600	2.09	38,000	1.58
3,700	2.08	42,000	1.57
3,800	2.07	49,000	1.55
3,900	2.06	54,000	1.54
4,000	2.05	60,000	1.53
4,200	2.04	70,000	1.52
4,400	2.03	90,000	1.51
4,600	2.02	100,000+	1.50

*Based on formula: $Peak\ Factor = 6.2945 \times (pop)^{-0.1342}$
(Holmes & Narver, 1960)

FIGURE 1-1

**PUBLIC AND COMMERCIAL FACILITIES AVERAGE DAILY FLOW PROJECTIONS
TABLE F229**

Units	Ave. daily flow (gpd/unit)	Type description
SEAT	5/SEAT	AUDITORIUM
1000 GR.SQ.FT.	25/1000 GR.SQ.FT.	AUTO PARKING
1000 GR.SQ.FT.	100/1000 GR.SQ.FT.	AUTO REPAIR GARAGE
1000 GR.SQ.FT.	300/1000 GR.SQ.FT.	BAKERY
7 GR.SQ.FT.	5/7 GR.SQ.FT.	BALLROOM
1000 GR.SQ.FT.	200/1000 GR.SQ.FT.	BANK: HEADQUARTERS
1000 GR.SQ.FT.	100/1000 GR.SQ.FT.	BANK: BRANCH
15 GR.SQ.FT.	20/15 GR.SQ.FT.	BANQUET RMS/CONFERENCE
SEAT	20/SEAT	BAR: FIXED SEAT
1000 GR.SQ.FT.	100/1000 GR.SQ.FT.	BAR: JUICE (NO FOOD)
15 GR.SQ.FT.	20/15 GR.SQ.FT.	BAR:PUB. AREAS(TABLES)
1000 GR.SQ.FT.	100/1000 GR.SQ.FT.	BARBER SHOP
1000 GR.SQ.FT.	300/1000 GR.SQ.FT.	BEAUTY COLLEGE
1000 GR.SQ.FT.	25/1000 GR.SQ.FT.	BEAUTY CLG. STRG>15%
1000 GR.SQ.FT.	200/1000 GR.SQ.FT.	BEAUTY COLLEGE:OFFICE>
1000 GR.SQ.FT.	300/1000 GR.SQ.FT.	BEAUTY PARLOR
OFFICE	200/OFFICE	BLDG. CONSTR. OFFICE
1000 GR.SQ.FT.	300/1000 GR.SQ.FT.	BOWLING ALLEY
SEAT	50/SEAT	CAFETERIA: FIXED SEAT
GPM PEAK	412/GPM	CARWASH: BASED ON PEAK
STALL	206/STALL	CAR WASH: COIN-OPERATED
5 GPM PEAK	412/GPM	CARWASH: IN BAY
SEAT	5/SEAT	CHURCH:FIXED SEAT
1000 GR.SQ.FT.	300/1000 GR.SQ.FT.	CHIROPRACTIC OFFICE
OCCUPANT	10/OCCUPANT	ChurchSch:DayCare/Elem.
20 GR.SQ.FT.	5/20 GR.SQ.FT.	CHURCH SCH: 1 DAY USE/W
N/A	NO CHARGE	CITY: BLDG. CONTS. OFC.
1000 GR.SQ.FT.	300/1000 GR.SQ.FT.	CLINIC
SEAT	20/SEAT	COCKTAIL LOUNGE:FXD ST
1000 GR.SQ.FT.	25/1000 GR.SQ.FT.	COLD STORAGE:NO SALES
1000 GR.SQ.FT.	100/1000 GR.SQ.FT.	ColdStorage:RetailSales
FIXTURE	120/FIXTURE	COMFORT STATION:PUBLIC
1000 GR.SQ.FT.	100/1000 GR.SQ.FT.	COMMERCIAL USE
OCCUPANT	5/OCCUPANT	COMMUNITY CENTER
1000 GR.SQ.FT.	200/1000 GR.SQ.FT.	CREDIT UNION
GPM PEAK	412/GPM	DAIRY
GPM PEAK	412/GPM	DAIRY: BARN
1000 GR.SQ.FT.	100/1000 GR.SQ.FT.	DAIRY: RETAIL AREA
7 GR.SQ.FT.	5/7 GR.SQ.FT.	DANCE HALL
15 GR.SQ.FT.	20/15 GR.SQ.FT.	DISCOTEQUE
1000 GR.SQ.FT.	300/1000 GR.SQ.FT.	DOUGHNUT SHOP
1000 GR.SQ.FT.	300/1000 GR.SQ.FT.	DRUG ABUSE
1000 GR.SQ.FT.	100/1000 GR.SQ.FT.	
FILM PROCESSINGGPM PEAK	412/GPM	FOOD PROCESSING PLANT
URINAL OR W.C.	120/W.C.	GAS STATION:SELF SERVE
STATION	430/STATION	GAS STATION:4 BAYS MAX

1000 GR.SQ.FT.	300/1000 GR.SQ.FT.	GYMNASIUM
1000 GR.SQ.FT.	100/1000 GR.SQ.FT.	HANGAR (AIRCRAFT)
BED	85/BED	HOSPITAL: CONVALESCENT
1000 GR.SQ.FT.	300/1000 GR.SQ.FT.	HOSPITAL: DOG AND CAT
BED	85/BED	HOSPITAL: NONPROFIT
BED	500/BED	HOSPITAL: SURGICAL
UNIT	150/UNIT	HOUSEKEEPING:LIGHT
GPM PEAK	412/GPM	INDUSTRIAL
INMATE	85/INMATE	JAIL
1000 GR.SQ.FT.	100/1000 GR.SQ.FT.	DOG KENNEL/OPEN
1000 GR.SQ.FT.	300/1000 GR.SQ.FT.	LAB: COMMERCIAL
GPM PEAK	412/GPM	LAUNDROMAT:INDUSTRIAL
WASHER	220/WASHER	LAUNDROMAT
WASHER	220/WASHER	LAUNDROMAT:AUTOMATIC
50 GR.SQ.FT.	50/50 GR.SQ.FT.	LIBRARY:PUBLIC AREA
1000 GR.SQ.FT.	25/1000 GR.SQ.FT.	LIBRARY:STACKS/STORAGE
SEAT	5/SEAT	LODGE HALL
1000 GR.SQ.FT.	100/1000 GR.SQ.FT.	MACHINE SHOP
1000 GR.SQ.FT.	100/1000 GR.SQ.FT.	MNFG/INDUSTRY
1000 GR.SQ.FT.	300/1000 GR.SQ.FT.	MASSAGE PARLOR
1000 GR.SQ.FT.	300/1000 GR.SQ.FT.	MEDICAL BLDG
1000 GR.SQ.FT.	200/1000 GR.SQ.FT.	MINI-MALL (SHELL)
7 GR.SQ.FT.	5/7 GR.SQ.FT.	MORTUARY:CHAPEL
1000 GR.SQ.FT.	100/1000 GR.SQ.FT.	MORTUARY: LIVING AREA
ROOM	150/ROOM	MOTEL
1000 GR.SQ.FT.	25/1000 GR.SQ.FT.	MUSEUM: ALL AREAS
1000 GR.SQ.FT.	200/1000 GR.SQ.FT.	OFFICE OVER 15%
1000 GR.SQ.FT.	100/1000 GR.SQ.FT.	MUSEUM: SALE AREA
1000 GR.SQ.FT.	200/1000 GR.SQ.FT.	OFFICE BUILDING
GPM PEAK	412/GPM	PLATING PLANT
1000 GR.SQ.FT.	100/1000 GR.SQ.FT.	POOL HALL(NO BEER/WINE)
1000 GR.SQ.FT.	120/1000 GR.SQ.FT.	POST OFFICE: FLOOR PLAN
STUDENT	85/STUDENT	DORM: COLLEGE OR RES.
DWELLING UNIT	330/DU	RES: TOWNHS/SET GRD
DWELLING	150/DU	RES: APT. - 1 BDR
DWELLING	200/DU	RES: APT. - 2 BDR
DWELLING	250/DU	RES: APT. - 3 BDR
DWELLING	100/DU	RES: APT. - BACH/SNGL
BED	85/BED	RES: BOARDING HOUSE
DWELLING	150/DU	RES: CONDO-1 BDR
DWELLING	200/DU	RES: CONDO-2 BDR
DWELLING	250/DU	RES: CONDO-3 BDR
DWELLING UNIT	300/DU	RES: DUPLEX
HOME SPACE	200/SPACE	RES: MOBILE HOME
DWELLING UNIT	330/DU	RES: SNGL FAM DWL.
1000 GR.SQ.FT.	300/1000 GR.SQ.FT.	RES: ARTIST (2/3 AREA)
DWELLING	100/DU	
RES: ARTIST	330/DU	RES: GUEST HOUSE W/KIT.
RESDNCE.DWELLING UNIT		
BED	85/BED	REST HOME
SEAT DINING	50/SEAT	RESTAURANT: DRIVE-UP
PARKING STALL	100/STALL	RESTAURANT: DRIVE-UP
SEAT	50/SEAT	RESTAURANT: FIXED SEAT
1000 GR.SQ.FT.	300/1000 GR.SQ.FT.	RESTAURANT: TAKE-OUT

1000 GR.SQ.FT. CHILD STUDENT STUDENT 35 GR.SQ.FT. CHILD STUDENT STUDENT STUDENT 1000 GR.SQ.FT. 1000 GR.SQ.FT. 70 GR.SQ.FT. 1000 GR.SQ.FT. VEHICLE SEAT 1000 GR.SQ.FT. 1000 GR.SQ.FT. 1000 GR.SQ.FT. STATION 1000 GR.SQ.FT. 1000 GR.SQ.FT.	100/1000 GR.SQ.FT. 10/CHILD 10/STUDENT 15/STUDENT 10/35 GR.SQ.FT. 10/CHILD 10/STUDENT 15/STUDENT 20/STUDENT 25/1000 GR.SQ.FT. 10/1000 GR.SQ.FT. 5/7 GR.SQ.FT. 100/1000 GR.SQ.FT. 12/VEHICLE 5/SEAT 5/SEAT 300/1000 GR.SQ.FT. 25/1000 GR.SQ.FT. 430/STATION 215/1000 GR.SQ.FT. 100/1000 GR.SQ.FT.	RETAIL AREA SCHL: DAY CARE CENTER SCHL: ELEMENTARY/JR-HI SCHL: HIGH SCHOOL SCHL: KINDERGARTEN SCHL: NURSERY-DAY CARE SCHL: SPECIAL CLASS-LAC SCHL: TRADE OR VOCTNL SCHL: UNIV. OR COLLEGE StorageBldg-RentingSpace ICE CREAM STORE(RETAIL) STUDIO: MOTION PICTURE STUDIO: RECORDING THEATRE: DRIVE-IN THEATRE: FIXED SEAT THEATRE: MOVIE HOUSE VETERINARIAN WAREHOUSE WASTE DUMP: RECREATIONAL WINE TASTING RM: KTCHN WineTastingRm: AllArea
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

EXPLANATION FOOTNOTES

1. The column headings are:
Average Daily Flow = flow in gallons per day (gpd) per unit as indicated. For example, "5/7 gr. sq. ft." means 5 gpd per every 7 gross square feet of development. Type description - type of development or process.
2. Gr. sq. ft. = gross square feet: area included within the exterior of the surrounding walls of a building excluding courts.
3. Gpm Peak = peak flow in gallons per minute. There is an assumption that the peak to average flow ratio is 3.5. Therefore, 1 gpm x 1440 min/day) 3.5 = 412 gpd which is the unit flow factor in the table.
4. Example Calculation - Assume a 10,000 sq. ft. office building is proposed. The estimated average daily flow is calculated as 10,000 sq. ft. x 200 gpd/1000 sq. ft. = 2000 gpd.
5. Another Example - Assume a car wash (in bay type) is proposed. The estimated peak flow is 5 gpm as determined by industrial waste permit or other data. The average daily flow is estimated as 5 gpm x 412 gpd/gpm = 2060 gpd.

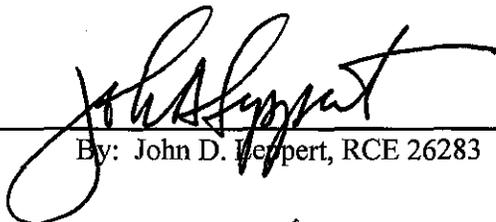
APPENDIX M
Conceptual Waste Management Plan

CONCEPTUAL WASTE MANAGEMENT PLAN
for
**Kaiser Permanente San Diego
Central Medical Center**
(CUP/PDP PTS# 274240)

Date: December 3, 2012
LEC Job No.: KM 11.01-16.12

Prepared For:
KAISER PERMANENTE
825 COLORADO BLVD., SUITE 222
LOS ANGELES, CA 90041

Prepared By:
LEPPERT ENGINEERING CORPORATION
5190 GOVERNOR DRIVE, SUITE 205
SAN DIEGO, CA 92122
PHONE: (858) 597-2001


By: John D. Leppert, RCE 26283

12/3/2012

Date



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Exhibit “C” - Site Plan
Exhibit “D” - Waste Management Form
Appendix I - San Diego Municipal Code: Construction and Demolition Debris Diversion Deposit Program
Appendix II - Information Bulletin 119: Construction and Demolition Debris
Appendix III - San Diego Municipal Code: Recycling Ordinance
Appendix IV - San Diego Municipal Code: Refuse and Recyclable Materials Storage Regulations
Appendix V - Review Comments and Applicant Responses

INTRODUCTION

In order to address impacts of the Kaiser Permanente San Diego Central Medical Center project on landfill capacity and solid waste services, and reduce these impacts to less than significant levels, the Developer/Property Owner has prepared this Conceptual Waste Management Plan (WMP). The project shall have a 75 percent target diversion rate for construction and demolition debris, consistent with the requirements of Chapter 6, Article 6, Division 6 of the Municipal Code and City policies regarding waste reduction, recycling, and product procurement. The project will also divert waste generated during the occupancy phase in accordance with AB 939, AB 341, and City policies regarding waste reduction, recycling, and product procurement.

Cumulative Impacts

Projects that include construction, demolition, and/or renovation of 40,000 square feet or more of building space may generate approximately 60 tons of waste or more, and are considered to have cumulative impacts on solid waste facilities. While all projects are required to comply with the City's waste management ordinance, cumulative impacts are mitigated by the implementation of a project-specific Waste Management Plan which reduces solid waste impacts to below a level of significance.¹

Direct Impacts

Projects that include the construction, demolition, or renovation of 1,000,000 square feet or more of building space may generate approximately 1,500 tons of waste or more and are considered to have direct impacts on solid waste management.²

This WMP has been prepared because the proposed Kaiser project exceeds these thresholds for solid waste generation. This WMP addresses the following elements for the demolition, construction and occupancy phases of the project as applicable:³

- a. A timeline for each of the three main phases of the project (demolition, construction, and occupancy).
- b. Tons of waste anticipated to be generated (demolition, construction, and occupancy).
- c. Type of waste to be generated (demolition, construction, and occupancy).
- d. Describe how the project will reduce the generation of construction and demolition (C & D) debris
- e. Describe how the C & D materials will be reused on-site
- f. Include the name and location of recycling, reuse, and landfill facilities where recyclables and waste will be taken if not reused on-site
- g. Describe how the C & D waste will be source separated if a mixed C & D facility is not used for recycling

¹ City of San Diego Development Services Department, *CEQA Significance Determination Thresholds* dated January 2011.

² City of San Diego Development Services Department, *CEQA Significance Determination Thresholds* dated January 2011.

³ City of San Diego Development Services Department, *CEQA Significance Determination Thresholds* dated January 2011.

- h. Describe how the waste reduction and recycling goals will be communicated to subcontractors
- i. Describe how a “buy recycled” program for green construction products, including mulch and compost will be incorporated into the project
- j. Describe how the Refuse and Recyclable Materials Storage Regulations (LDC Chapter 14, Article 2 Division 8) will be incorporated into design of building’s waste storage area
- k. Describe how compliance with the Recycling Ordinance (Municipal Code Chapter 6, Article 6, Division 7) will be incorporated in the operational phase
- l. Describe any International Standards of Operation (ISO), or other certification, if any.

This report documents how the project will reduce waste and comply with all solid waste and recycling laws and regulations, including the guidelines set forth in AB 939 and AB 341, City Ordinances O-19420, O-19694 and O-19678, and the City of San Diego’s Municipal Code Refuse and Recyclable Materials Storage Regulations.

EXISTING CONDITIONS

The Kaiser Permanente San Diego Central Medical Center site is a roughly rectangular parcel of land consisting of one lot: Lot 1 of the Astronautics Point Subdivision according to Map No. 4674, with a gross area of approximately 20.01 acres. The site is located at 5201 Ruffin Road, which is south of Clairemont Mesa Boulevard, east of Ruffin Road and north of Ruffing Court, in the Kearny Mesa Community of the City of San Diego (*See Exhibit “A” - Location Map*). The project site is also known as Assessor Parcel Number (APN) 369-121-14-00.

The existing site has been the location for the County of San Diego Department of Planning and Land Use, an approximately 330,000 sf facility and 507,00 sf parking lot. The existing structure and surrounding parking lot will be demolished to accommodate the proposed development.

PROJECT DESCRIPTION

The Kaiser Permanente project is currently being reviewed by the City of San Diego Development Services Department for a Conditional Use Permit and Planned Development Permit for the development of a full-service general acute care hospital that would accommodate 450 beds. The proposed project includes the demolition of the existing County of San Diego government office building. The proposed project is planned to be constructed in two phases and at completion includes a seven-story hospital, two hospital support buildings, an energy center and seven-story parking structure and is further described in the building summary⁴ shown in Table 1 below (*see also Exhibit “C” – Site Map*).

⁴ Building summary quantities taken from the DRAFT Kaiser Permanente San Diego Central Medical Center EIR dated June 2012 and updated by Kaiser on 9-26-12.

Table 1: Building Summary

Building Type/Use	Building Area (sf)	Building Details
Phase 1		
Hospital	562,000	7-stories, 321 beds
Outpatient HSB	75,000	6-stories
Energy Center	36,000	-
Parking Structure & Surface Parking	-	1,462 structured parking spaces 100 surface parking spaces
Phase 2 (build out)		
Hospital Expansion	158,000	7-stories, 129 beds
Medical Offices	105,000	6-stories
Additional Parking	-	937 structured parking spaces
GRAND TOTAL	936,000	450 beds, 2,499 parking spaces⁵

Construction practices will comply with local, state, and federal regulations regarding the handling of building materials to ensure that waste minimization requirements are met.

⁵ Parking count is subject to change upon final design. The minimum requirement is 2,250 spaces.

WASTE MANAGEMENT IMPLEMENTATION

Preconstruction

A Solid Waste Management Coordinator (SWMC) will be appointed and their name and contact information will be provided to ESD at least seven days prior to the start of work and when a new person is appointed. The SWMC will oversee implementation of the WMP during the demolition, grading, and construction phases. Among other measures already described in this report, the SWMC will educate all workers and subcontractors about the goals and responsibilities of complying with the WMP and issue stop work orders if noncompliance occurs. The SWMC will provide daily inspections of bins to ensure no overtopping or spillage, and a less than 10% level of contamination. The SWMC will also maintain all records, documentation and photos (where applicable) ensuring compliance with the WMP.

Prior to the final clearance of any demolition permit, issuance of any grading or building permit, release of the grading bond and/or issuance of any Certificate of Occupancy, the permittee shall provide documentation to the ESD and Assistant Deputy Directory (ADD) of the Entitlements Division that the Waste Management Plan has been effectively implemented.

Construction and Demolition Debris Diversion Deposit Program (0-19420 & 0-19694)

Starting on July 1, 2008, all new construction projects are required to pay a refundable solid waste deposit on construction waste. This ordinance requires the applicant to do the following:⁶

All applicants for a Building Permit or a Demolition/Removal Permit shall submit a properly completed *Waste Management Form Part I* with the Building Permit or Demolition/Removal Permit application, in accordance with the requirements set forth in the Land Development Manual (*see Exhibit "D" – Waste Management Form*)

- All applicants shall pay a refundable deposit at the time the Building Permit or Demolition/Removal Permit is issued

No Building Permit or Demolition/Removal Permit shall be issued unless the applicant has submitted a properly completed *Waste Management Form Part I* and paid the required deposit

Calculating the Deposit:

New Construction projects are now required to pay a recycling deposit at the time each qualifying building, combination and demolition permit is issued.⁷ The refundable recycling deposit is calculated based on square footage thresholds of the permitted work. Table 2 below shows the deposit requirements for construction and demolition projects.

⁶ City of San Diego Municipal Code §66.0604

⁷ City of San Diego Information Bulletin 119: Construction and Demolition Debris, dated August 2008.

Table 2: C&D Debris Recycling Deposit Table

	Deposit /Sq. Ft.	Minimum Sq. Ft. Subject to Deposit	Maximum Sq. Ft. Subject to Deposit	Range of Deposits
Residential New Construction - Detached	\$0.40	500	125,000	\$200-\$50,000
Residential New Construction - Attached	\$0.40	500	100,000	\$200-\$40,000
Non-Residential New Constr. - Commercial	\$0.20	1,000	25,000	\$200-\$5,000
Non-Residential New Constr. - Industrial	\$0.20	1,000	75,000	\$200-\$15,000
Non-Residential Alterations	\$0.70	286	No Max.	\$200 and up
Residential Demolition	\$0.70	286	No Max.	\$200 and up
Non-Residential Demolition	\$0.20	1,000	No Max.	\$200 and up

SOURCE: City of San Diego Information Bulletin No. 119 dated August 2008 (*see Appendix II*)

Completing the Waste Management Form:

A *Waste Management Form Part I* must be filled out for every qualifying permit.⁸ (*see Exhibit “D” – Waste Management Form*) Construction and Demolition debris estimates are to be provided in tons. Certified Recycling Facilities must be used in order to be eligible for a deposit refund. It is important to retain a copy of this form as it will be required as part of the documentation for the refund request.⁹

Recycling Requirement:

The diversion rate required by this ordinance is currently 50% by weight of the total Construction and Demolition (C&D) debris generated by the project.¹⁰ Once a certified recycling facility is operating within 25 miles of the City Administration Building, which is located at 202 “C” Street, San Diego, the diversion rate shall increase to 75%.¹¹ This recycling requirement can be met by one or more of the following methods:¹²

- On-site or off-site reuse of the C&D debris
- Recycling of C&D debris at Certified Recycling Facilities; or
- Other donation or reuse of the C&D debris acceptable to the Environmental Services Director

Requesting a Refund:

In order to be eligible for a refund of the deposits paid, the applicant must submit the following to the Director of the ESD within 180 days from the passing final inspection date of the permit for which the deposit was paid:

- A properly completed *Waste Management Form Part II* (*see Exhibit “D” – Waste Management Form*)
- A copy of the completed *Waste Management Form Part I* submitted at the time the permit was issued

⁸ City of San Diego Information Bulletin 119: Construction and Demolition Debris, dated August 2008.

⁹ City of San Diego Information Bulletin 119: Construction and Demolition Debris, dated August 2008.

¹⁰ City of San Diego Information Bulletin 119: Construction and Demolition Debris, dated August 2008.

¹¹ City of San Diego Information Bulletin 119: Construction and Demolition Debris, dated August 2008.

¹² City of San Diego Municipal Code §66.0606

- Evidence satisfactory to the Director that the C&D debris generated by the development was diverted at the applicable diversion rate

To provide evidence to the Director, the applicant will save all recycling, reuse and disposal receipts from project related debris for requesting a refund. Photos proving donation and reuse of materials may be accepted, subject to the Director's approval, in certain cases as proof of evidence of reuse of the project debris. Photos must be accompanied by written estimates.¹³

¹³ City of San Diego Information Bulletin 119: Construction and Demolition Debris, dated August 2008.

Demolition Phase

The Developer shall notify the City of San Diego's Environmental Services Department (ESD) at least seven days prior to when:

- A Demolition Permit is issued
- Demolition begins onsite
- Inspections are needed

Prior to the final clearance of any demolition permit, issuance of any grading or building permit, release of the grading bond and/or issuance of any Certificate of Occupancy, the permittee shall provide documentation to the ESD and Assistant Deputy Directory (ADD) of the Entitlements Division that the Waste Management Plan has been effectively implemented.

During the demolition phase of the Kaiser Permanente San Diego Central Medical Center, demolition waste will be reduced by using the following strategies which are described in more detail in Table 4 of this report:

- Source Separation through utilizing separate bins to separate demolition debris for recycling and possible reuse,
- Source Reduction through the reuse of the concrete and asphalt debris from demolition in the construction phase.

Demolition Waste

The existing County of San Diego structure and parking lot will be demolished to accommodate the proposed development (*see Exhibit "B" – Project Location on Aerial Photograph*). The existing building is approximately 330,000 sf and is a warehouse with CMU exterior walls. The surrounding parking lot is approximately 507,000 sf. Based on these square footages and averages based on building type, it is anticipated the project will generate 26,195 tons of building demolition debris and 11,266 tons of parking lot demolition debris.¹⁴

Source Separation

During the demolition of the project site, separate bins will be designated for the collection of the following construction materials:

- Wood
- Drywall
- Inerts (concrete/brick/etc.)
- Metals

These bins will be clearly labeled, located in areas to avoid contamination, and regularly inspected by the contractor to remove contaminants. These materials will be either reused in the building construction process, or taken to designated recycling facilities which have been certified by the City of San Diego and have a diversion rate of 100%. In Table 3 below, preliminary estimates of the quantities of these separated materials have been provided to help

¹⁴ Quantities provided on 9-14-12 by Hansel Phelps Construction Co. based on estimations from Waste Management of San Diego.

facilitate the adequate sizing of these bins as well as anticipate the amount of demolition waste that will be diverted from the landfill. These estimates do not factor in the discovery of hazardous materials which could potentially be uncovered during demolition, including asbestos and lead. Should these or other hazardous materials be found, the diversion rates will be reduced, however every effort will be made to recover as much of the recyclables as possible in order to maximize the amount of demolition debris diverted from the landfill.

Table 3: Demolition Source Separation Material Estimates

Waste to be Separated	Est. Quantity Generated¹⁵	Handling¹⁶
Wood	8,487 tons	Miramar Greenery (clean wood only)
Drywall	1,179 tons	EDCO Recovery & Transfer
Inerts (concrete/brick/etc.)	8,461 tons	Hanson Aggregates West – Miramar
Metal	1,572 tons	Allan Company
Estimated Total:	19,699 tons diverted	

Mixed Residual waste will be collected and taken to a mixed C&D debris facility with an anticipated 72% diversion rate.

Table 4: Demolition Phase - Waste Management Elements

Timeline for the demolition phase ¹⁷	<i>3/1/2013 to 7/28/2013</i>
Tons of waste anticipated to be generated ¹⁸	<i>26,195 tons of building waste 11,266 tons of parking lot waste</i>
Type of waste to be generated ¹⁹	<ul style="list-style-type: none"> • <i>Asphalt</i> • <i>Brick</i> • <i>Carpet</i> • <i>Drywall</i> • <i>Insulation</i> • <i>Wood</i> • <i>Concrete</i> • <i>Acoustical ceiling tiles</i> • <i>Metals</i> • <i>Glass</i> • <i>Cardboard</i> • <i>Ceramic Tiles</i>

¹⁵ Quantities provided on 9-14-12 by Hansel Phelps Construction Co. based on estimations from Waste Management of San Diego.

¹⁶ Recycling facilities identified are subject to change at time of demolition, however all facilities will be selected from the City of San Diego’s Certified C&D Recycling Facility Directory List.

¹⁷ Demolition timeline taken from the Kaiser Permanente San Diego “Construction Waste Management Outline,” provided by Hensel Phelps Construction Co. on 9/4/2012.

¹⁸ Quantities provided on 9-14-12 by Hansel Phelps Construction Co. based on estimations from Waste Management of San Diego. These quantities are subject to change upon field verification during the demolition phase.

¹⁹ Anticipated type of waste to be generated has been taken from the Kaiser Permanente San Diego “Construction Waste Management Outline,” provided by Hensel Phelps Construction Co. on 9/4/2012.

<p>Describe how the project will reduce the generation of construction and demolition (C & D) debris</p>	<p><i>By separating demolition debris into designated bins for recycling, the project should be able to reduce the generation of waste that has to be taken to the landfill.</i></p>
<p>Describe how the C & D materials will be reused on-site</p>	<p><i>The existing structure's concrete materials and usable asphalt resulting from the site demolition will be grinded for reuse during the Construction Phase of the project. Potential uses for this material include:</i></p> <ul style="list-style-type: none"> <i>• "shading" of pipe trenches</i> <i>• base or sub-base for paving or hardscape</i> <i>• backfill and flat work</i> <i>• temporary access roads</i> <p><i>This reuse of site materials will eliminate the fuel consumption that would have been required to import these materials to the site for construction purposes, as well as divert demolition waste from the landfill.</i></p>
<p>Name and location of recycling, reuse, and landfill facilities where recyclables and waste will be taken if not reused on-site</p>	<p><u><i>Clean Wood/Green Waste Recycling:</i></u>²⁰ <i>Miramar Greenery</i></p> <p><u><i>Drywall:</i></u>²⁰ <i>EDCO Recovery & Transfer</i></p> <p><u><i>Inerts Recycling:</i></u>²⁰ <i>Hanson Aggregates West – Miramar</i></p> <p><u><i>Metals:</i></u>²⁰ <i>Allan Company</i></p> <p><u><i>Comingled Recycling:</i></u>²⁰ <i>EDCO Recovery & Transfer</i></p> <p><u><i>Landfill:</i></u> <i>Miramar Landfill</i></p>
<p>Describe how the C & D waste will be source separated if a mixed C & D facility is not used for recycling</p>	<p><i>During demolition, separate bins will be designated for the collection of:</i></p> <ul style="list-style-type: none"> <i>• Wood</i> <i>• Drywall</i> <i>• Inerts (concrete/bricks/etc.)</i> <i>• Metals</i>

²⁰ Or equally appropriate facility certified by the City of San Diego to be determined at the time of project construction.

	<p><i>This separation technique will help to facilitate the reuse and recycling of these materials. These bins will be located in areas that are readily accessible to the subcontractors and in areas that will minimize misuse and contamination. Construction personnel will conduct regular visual inspections of dumpsters and recycling bins to remove any contaminants. These construction recycle bins will reduce the impact of the construction on the local landfill.</i></p> <p><i>Additionally, a Mixed C&D Facility will be used for recycling of the residual demolition debris.</i></p>
<p>Describe how the waste reduction and recycling goals will be communicated to subcontractors</p>	<p><i>All subcontractors will be required to participate in the separation of their respective construction waste as identified in the Subcontract agreement. Each sub will also participate in Premobilization and Preparatory meetings prior to starting any work, where the waste guidelines will be communicated. All craft employees/workers will be reminded of the jobsite policies during the initial Jobsite Orientation and Monthly All-hands Meetings.</i></p>
<p>Describe how a “buy recycled” program for green construction products, including mulch and compost will be incorporated into the project</p>	<p><i>Not applicable for Demolition Phase</i></p>
<p>Describe how the Refuse and Recyclable Materials Storage Regulations (LDC Chapter 14, Article 2 Division 8) will be incorporated into design of building’s waste storage area</p>	<p><i>Not applicable for Demolition Phase</i></p>
<p>Describe how compliance with the Recycling Ordinance (Municipal Code Chapter 6, Article 6, Division 7) will be incorporated in the operational phase</p>	<p><i>Not applicable for Demolition Phase</i></p>
<p>Describe any International Standards of Operation (ISO), or other certification, if any</p>	<p><i>This project is pursuing a USGBC LEED Gold certification.</i></p>

Construction Phase

During the construction of the Kaiser Permanente San Diego Central Medical Center, construction waste will be reduced by using the following strategies which are described in more detail in Table 7 of this report:

- Target of 100% diversion of exported dirt from the landfill thru reuse and/or recycling,
- Source Reduction through the purchase of sustainably sourced materials and products,
- Source Separation through utilizing separate bins to separate construction materials for recycling and possible reuse,
- Compliance with the Recycling Ordinance Storage Area requirements in building design.

On-Site Grading

The preliminary grading design prepared for the discretionary approval process anticipates roughly 89,390± cubic yards (cy) of CUT and 62,750± cy of FILL material during the grading operation of this site.²¹ This results in the export of 26,640 CY of material from the site during the grading operation.

*Dirt Calculation:*²²

$$26,640cy \times \frac{1.30tons}{cy} = 34,632tons \text{ of Excavated Earth}$$

It will be the responsibility of the Grading Contractor to find other sites where the exported dirt could be reused. The Grading Contractor must pursue all options to reuse dirt at another site. Options for reusing dirt include:

- Other construction sites that need fill dirt.
- Regional landfills that need fill dirt.
- Advertising the availability of dirt on the internet, especially websites that specialize in dirt exchange.

The goal is to reuse 100% of the exported dirt on another site within San Diego County. Any remaining clean fill dirt that cannot be reused in the options outlined above will be recycled at Vulcan Carroll Canyon Recycle Site in San Diego.²³

Vegetation removed as part of the grading process will be nominal and processed and recycled at a suitable green waste recycling facility, creating no waste stream to the landfill.

Building Construction

From the City of San Diego ESD provided waste factors, we estimate the following building construction waste:

²¹ Earthwork quantities taken from the draft Sheet DP-05: Preliminary Drainage, Grading and Utility Plan of the discretionary application drawings, dated 6-25-2012.

²² Conversion rate of 1.30 Tons per CY per the City of San Diego Construction & Demolition Debris Conversion Rate Table, <http://www.sandiego.gov/environmental-services/recycling/xls/cdmaterialconversiontable.xls> accessed on 8-15-2012.

²³ Or equally appropriate facility certified by the City of San Diego to be determined at the time of project construction.

Phase 1 Construction Calculation:²⁴

$$\frac{3lbs}{sf} \times 673,000sf \times \frac{1ton}{2,000lbs} = 1,009.5tons$$

Phase 2 Construction Calculation:²⁵

$$\frac{3lbs}{sf} \times 263,000sf \times \frac{1ton}{2,000lbs} = 394.5tons$$

LEED Certification – Source Reduction

The Kaiser Permanente San Diego Central Medical Center project is pursuing a US Green Building Council (USGBC) LEED Gold certification. Two of the credits going toward the Gold certification will be achieved through *Construction Waste Management*²⁶ and *Sustainably Sourced Materials and Products*.²⁷ In order to qualify for these two credits, a minimum of 10% of the total value of all building materials and products used in the project (based on cost) shall consist of:

- recycled content, or
- regionally sourced/manufactured materials and products that have been extracted, harvested or recovered, as well as manufactured within 500 miles of the project site, or
- wood certified in accordance with the Forest Stewardship Council's (FSC) Principles and Criteria

Source Separation

During the construction of the Medical Center project, separate bins will be designated for the collection of the following construction materials:

- Drywall
- Inerts (concrete/brick/etc.)
- Clean Wood
- Metal
- Cardboard (OCC)
- Trash

These bins will be clearly labeled, located in areas to avoid contamination, and regularly inspected by the contractor to remove contaminants. These materials will be either reused in the building construction process, or taken to designated recycling facilities which have been certified by the City of San Diego and have a diversion rate of 100%. In Table 5 below, preliminary estimates of the quantities of these separated materials have been provided to help facilitate the adequate sizing of these bins as well as anticipate the amount of construction waste that will be diverted from the landfill.

²⁴ Construction waste factor of 3 lbs. per square foot provided by Lisa Wood, City of San Diego Environmental Services Department on 7-30-2012.

²⁵ Construction waste factor of 3 lbs. per square foot provided by Lisa Wood, City of San Diego Environmental Services Department on 7-30-2012.

²⁶ MR Credit 2, LEED Reference Guide for Healthcare New Construction & Major Renovations, 2009 Edition.

²⁷ MR Credit 3, LEED Reference Guide for Healthcare New Construction & Major Renovations, 2009 Edition.

Table 5: Construction Source Separation Material Estimates

Waste to be Separated	Est. Quantity Generated ²⁸	Handling ²⁹
Drywall	243 tons	EDCO Recovery & Transfer
Inerts (concrete/bricks/etc.)	267 tons	Hanson Aggregates West – Miramar
Wood	455 tons	Miramar Greenery (clean wood only)
Metal	25 tons	Allan Company
Cardboard (OCC)	76 tons	Allan Company
Estimated Total:	1,066 tons diverted	

Recycling Ordinance (O-19678) – Storage Areas

Table 6 below shows the minimum exterior storage area requirements for nonresidential development projects.

Table 6: Minimum Exterior Refuse and Recyclable Material Storage Areas for Nonresidential Development

Gross Floor Area Per Development (Square Feet)	Minimum Refuse Storage Area Per Development (Square Feet)	Minimum Recyclable Material Storage Area Per Development (Square Feet)	Total Minimum Area Per Development (Square Feet)
0-5,000	12	12	24
5,000-10,000	24	24	48
10,001-25,000	48	48	96
25,001-50,000	96	96	192
50,001-75,000	144	144	288
75,001-100,000	192	192	384
100,001+	192 plus 48 square feet for every 25,000 square feet of building area above 100,001	192 plus 48 square feet for every 25,000 square feet of building area above 100,001	384 plus 96 square feet for every 25,000 square feet of building area above 100,001

SOURCE: City of San Diego Municipal Code Table 142-08C³⁰

Phase 1 of the Kaiser Permanente Medical Center project will construct 661,000 sf of building area; therefore the project will be required to provide a minimum of approximately 1,296 sf of refuse storage area and 1,296 sf of recyclable material storage area, as shown in the calculation below:

²⁸ Estimates were arrived at by taking the anticipated total waste (1,404 tons) and applying ratios of waste by material type which were provided by Waste Management based upon this project’s size and construction type.

²⁹ Recycling facilities identified are subject to change at time of construction, however all facilities will be selected from the City of San Diego’s Certified C&D Recycling Facility Directory List.

³⁰ City of San Diego Municipal Code §142.0810-§142.0830

$$192sf + \left[\left(\frac{(673,000 - 100,000)}{25,000sf} \right) \text{rounded} \right] \times 48sf = 1,296sf$$

Phase 2 of the project will construct an additional 275,000 sf of building area; therefore the project will be required to provide a minimum of approximately 528 sf of refuse storage area and 528 sf of recyclable material storage area, as shown in the calculation below:

$$192sf + \left[\left(\frac{(263,000 - 100,000)}{25,000sf} \right) \text{rounded} \right] \times 48sf = 528sf$$

Thus, the ultimate buildout of the project will incorporate a design which will accommodate a minimum of 1,824 square feet of exterior refuse storage area and a minimum of 1,824 square feet of exterior recyclable material storage. This makes the total exterior refuse/recyclable material storage an area of approximately 3,648 square feet.

Table 7: Construction Phase - Waste Management Elements

Timeline for the construction phase ³¹	<i>Construction is anticipated to commence in Spring 2014, with Phase 1 to be completed by between fall 2017 and Spring 2018. Buildout is expected to be completed between January 1, 2030 and January 2, 2035.</i>
Tons of waste anticipated to be generated ³²	34,632 tons of Excavated Earth 1,404 tons of Construction Waste <ul style="list-style-type: none"> • 991.5 tons from Phase 1 • 412.5 tons from Phase 2
Type of construction waste to be generated ³³	<ul style="list-style-type: none"> • Drywall • Wood • Acoustical ceiling tile • Metals • Cardboard • Plastics • Concrete • Steel • Flooring materials • Ceramic tile • Asphalt debris
Describe how the project will reduce the generation of construction and demolition (C & D) debris	<i>The exported dirt during the grading operation will either be reused on another construction site that needs dirt or recycled at an</i>

³¹ Anticipated construction timing is taken from the DRAFT Kaiser Permanente San Diego Central Medical Center EIR dated June 2012 and is subject to change due to factors not within the control of Kaiser.

³² Quantities subject to field verification during construction phase.

³³ Anticipated type of waste to be generated has been taken from the Kaiser Permanente San Diego "Construction Waste Management Outline," provided by Hensel Phelps Construction Co. on 9/4/2012.

	<p><i>appropriate recycling facility to be determined at the time of construction. This will significantly reduce the generation of construction debris taken to the landfill.</i></p> <p><i>By separating construction debris into designated bins for recycling, the project should be able to reduce the generation of waste that has to be taken to the landfill.</i></p>
<p>Describe how the C & D materials will be reused on-site</p>	<p><i>The existing structure’s concrete materials and usable asphalt resulting from the site demolition will be grinded and reused during the Construction Phase of the project. Potential uses for this material include:</i></p> <ul style="list-style-type: none"> <i>• “shading” of pipe trenches</i> <i>• base or sub-base for paving or hardscape</i> <i>• backfill and flat work</i> <i>• temporary access roads</i> <p><i>This reuse of site materials will eliminate the fuel consumption that would have been required to import these materials to the site for construction purposes, as well as divert demolition waste from the landfill.</i></p>
<p>Name and location of recycling, reuse, and landfill facilities where recyclables and waste will be taken if not reused on-site</p>	<p><u><i>Drywall:</i></u>³⁴ <i>EDCO Recovery & Transfer</i></p> <p><u><i>Inerts Recycling:</i></u>³⁴ <i>Hanson Aggregates West – Miramar</i></p> <p><u><i>Clean Wood/Green Waste Recycling:</i></u>³⁴ <i>Miramar Greenery</i></p> <p><u><i>Metals:</i></u>³⁴ <i>Allan Company</i></p> <p><u><i>Cardboard:</i></u>³⁴ <i>Allan Company</i></p> <p><u><i>Landfill:</i></u> <i>Miramar Landfill</i></p>

³⁴ Or equally appropriate facility certified by the City of San Diego to be determined at the time of project construction.

<p>Describe how the C & D waste will be source separated if a mixed C & D facility is not used for recycling</p>	<p><i>During construction, separate bins will be designated for the collection of:</i></p> <ul style="list-style-type: none"> • <i>Drywall</i> • <i>Concrete</i> • <i>Clean Wood</i> • <i>Scrap Metal</i> • <i>Cardboard</i> • <i>Trash</i> <p><i>This separation technique will help to facilitate the reuse and recycling of these materials. These bins will be located in areas that are readily accessible to the subcontractors and in areas that will minimize misuse and contamination. Construction personnel will conduct regular visual inspections of dumpsters and recycling bins to remove any contaminants. These construction recycle bins will reduce the impact of the construction on the local landfill.</i></p>
<p>Describe how the waste reduction and recycling goals will be communicated to subcontractors</p>	<p><i>All subcontractors will be required to participate in the separation of their respective construction waste as identified in the Subcontract agreement. Each sub will also participate in Premobilization and Preparatory meetings prior to starting any work, where the waste guidelines will be communicated. All craft employees/workers will be reminded of the jobsite policies during the initial Jobsite Orientation and Monthly All-hands Meetings.</i></p>
<p>Describe how a “buy recycled” program for green construction products, including mulch and compost will be incorporated into the project</p>	<p><i>A minimum of 10% of the total value of all building materials and products used in the project (based on cost) shall be:</i></p> <ul style="list-style-type: none"> • <i>recycled content, or</i> • <i>regionally sourced/manufactured materials and products that have been extracted, harvested or recovered, as well as manufactured within 500 miles of the project site, or</i> • <i>wood certified in accordance with the Forest Stewardship Council’s (FSC) Principles and Criteria</i>

<p>Describe how the Refuse and Recyclable Materials Storage Regulations (LDC Chapter 14, Article 2 Division 8) will be incorporated into design of building's waste storage area</p>	<p><i>The design of the built-out project incorporates a minimum of:</i></p> <ul style="list-style-type: none"> • <i>1,824 sf of Refuse Storage Area and</i> • <i>1,824 sf of Recyclable Material Storage Area</i>
<p>Describe how compliance with the Recycling Ordinance (Municipal Code Chapter 6, Article 6, Division 7) will be incorporated in the operational phase</p>	<p><i>See description in Table 8: Occupancy Phase - Waste Management Elements for how this project will comply with this ordinance.</i></p> <p><i>The educational materials described in Table 8 should be prepared and approved prior to the temporary certificate of occupancy to avoid any delays.</i></p>
<p>Describe any International Standards of Operation (ISO), or other certification, if any</p>	<p><i>This project is pursuing a USGBC LEED Gold certification.</i></p>

Construction Report

Prior to the sign off of the Construction Permit, the applicant shall submit evidence to the ADD that the final Construction Report has been approved by MMC and ESD. This Construction Report shall summarize the results of implementing the Waste Management Plan elements, including: the actual waste generated and diverted from the project, the waste reduction percentage achieved, and how that goal was achieved, etc.

Occupancy Phase

Unlike the Construction Phase, occupancy is an on-going process. Therefore, it requires an ongoing plan to manage and reduce waste in order to meet the waste reduction goals established by local and state policy. Kaiser Permanente San Diego promotes individual and community health, environmental stewardship, cost savings and legal compliance by reducing the total amount of waste that is generated in Kaiser Permanente San Diego buildings. “Although medical and infectious wastes are often highlighted in evaluations of a hospital’s waste stream, these hazardous wastes constitute only 15% of a hospital’s total waste generation. The remaining 85% of a hospital’s waste, which is considered to be nonhazardous solid waste, is similar to a combination of wastes from hotels, restaurants, and other institutions providing lodging, food services, data processing and administration, and facility operations.”³⁵

In order to achieve a minimum diversion rate of 40% from the landfill, the proposed hospital will incorporate the following strategies:

Paper Waste

The new hospital will partner with Goodwill Industries to achieve a goal of 100% paper waste recycling rate. All offices, office common areas, and public access areas throughout the medical center will have “blue” recycle bins available and next to a solid waste container. These containers will be the appropriate labels/signs indicating what waste can be recycled in the “blue” receptacles. All staff will be trained on the Kaiser recycling program annually.

Cardboard Waste

The new hospital will partner with EDCO to achieve a goal of 100% cardboard waste recycling rate. EVS and department staff will be instructed on how to separate/segregate cardboard waste to ensure this recycling rate is achieved. All cardboard will be bailed and recycled.

Plastic Blue Wrap

The new hospital will recycle all plastic blue wrap. A “blue wrap bailer” onsite will be used to pail and prepare blue wrap for recycling.

Bio/Hazardous Waste

Sharp containers throughout the new hospital facility will be re-useable and not disposable, which diverts considerable waste from landfills. The existing Kaiser Permanente hospital successfully implemented this waste reduction strategy which diverts 4,800 pounds of plastics from the landfill.³⁶

Food Waste

Food services will order pre-cut items to decrease prep-waste generated on-site. This measure will significantly reduce the amount of food waste generated.

³⁵ Taken from Environmental Protection Agency Environmental Best Practices for Health Care Facilities Fact Sheet: *Reusable Totes, Blue Wrap Recycling and Composting* dated November 2002 (<http://www.epa.gov/region09/waste/p2/projects/hospital/totes.pdf>)

³⁶ *Environmental Services Department Fact Sheet-18th Annual Waste Reduction and Recycling Awards*, dated April 21, 2010.

Green Waste

Landscapers will be required by means of recycling clauses in their contract to take all green waste to an appropriate green waste facility for recycling.

Medical Waste Ordinance (0-17330)

On July 31, 1989 the Council of the City of San Diego approved an ordinance which adopted by reference the following sections of the County of San Diego Code relating to the regulation of the storage and disposal of medical wastes: Sections 68.501, 68.504, 68.1201, 68.1202, 68.1203, 68.1204, 68.1205, 68.1206, 68.1207, 68.1209, 68.1210 and 68.1211.³⁷ The County Code states that it is unlawful for any generator of medical waste to store, transfer or dispose of such wastes without an annual Unified Program Facility Permit from the Director of the Department of Environmental Health.³⁸ It shall be the responsibility of the operator of the Kaiser Permanente Medical Center to obtain the required permits and pay the applicable fees to comply with the above referenced sections of the County of San Diego Code.

These regulations include the following:

Dangerous Materials in Solid Waste Receptacles – No person shall place or deposit the following in any receptacle used for collection of solid waste: any waste classified as hazardous, biohazardous, radioactive, or any narcotics or controlled substances, operable hypodermic needles, poisons, liquid or dry caustics or acids, flammable or explosive materials, pesticides or similar substances dangerous to waste collection and disposal personnel. The Director of the Department of Environmental Health shall have enforcement authority for this section.³⁹

Medical Waste Container Labeling - Medical waste must be accumulated, stored and transferred in containers that meet the requirements specified in the California Medical Waste Management Act. Primary containers accumulating medical wastes (e.g. including but not limited to sharps containers, red bags, chemotherapeutic, pharmaceutical and pathology waste containers), with the exception of bench top red bags used to collect non-breakable pipette tips, must be labeled in a manner that will identify the generator by location.⁴⁰

Medical Solid Waste Security - Any person who is a generator, or an employee of a generator of medical solid wastes, shall assure that their medical solid waste, prior to disposal, is stored in an area secured as to deny access to unauthorized persons. If such wastes are placed in a trash receptacle or compactor which is accessible, at any time, to unauthorized persons, such receptacle or compactor shall be locked to prevent access to the contents to anyone other than authorized persons or refuse collection personnel.⁴¹

³⁷ City of San Diego Municipal Code §42.1201

³⁸ County of San Diego Code §68.1202(a)

³⁹ County of San Diego Code §68.504

⁴⁰ County of San Diego Code §68.1205

⁴¹ County of San Diego Code §68.1211

Recycling Ordinance (O-19678) – Recycling Services & Education

Effective of February 18, 2008, commercial facilities⁴² of 20,000 square feet or more which receive solid waste collection services from a Franchisee, the responsible person shall provide on-site recycling services to occupants. Occupants of commercial facilities which receive solid waste collection service from a Franchisee shall participate in a recycling program by separating recyclable materials from other solid waste and depositing the recyclable materials in the recycling container provided by the Franchisee or Recyclable Materials Collector.⁴³

- Recycling services required shall include, at a minimum, all of the following:
 - collection of recyclable materials as frequently as necessary to meet demand;
 - collection of plastic bottles and jars, paper, newspaper, metal containers, cardboard, and glass containers;
 - collection of other recyclable materials for which markets exist, such as scrap metal, wood pallets, and food waste, as determined by the Director, with collection of such recyclable materials required beginning on the 181st day after the City gives public notice thereof by placing a display advertisement of at least one-eighth page in a newspaper of general daily circulation within the City and posting a notice including such recyclables materials on a list maintained on the Department’s website;
 - utilization of recycling receptacles or containers which comply with the standards in the Container and Signage Guidelines established by the Department;
 - designated recycling collection and storage areas; and
 - signage on all recycling receptacles, containers, chutes, and/or enclosures which complies with the standards described in the Container and Signage Guidelines established by the Department.
 - In addition, privately serviced commercial and institutional properties must also recycle rigid plastics including clean food waste containers, jugs, tubs, trays, pots, buckets, and toys.⁴⁴
- The responsible person shall ensure that occupants are educated about the recycling services as follows:
 - Information, including the types of materials accepted, the location of recycling containers, and the occupants responsibility to recycle pursuant to this Division, shall be distributed to all occupants annually;
 - All new occupants shall be given information and instructions upon occupancy; and
 - All occupants shall be given information in instructions upon any change in recycling service to the commercial facility.

⁴² City of San Diego Municipal Code §66.0703 defines a commercial facility as “any facilities that are not residential facilities or mixed use facilities.”

⁴³ City of San Diego Municipal Code §66.0707

⁴⁴ See City of San Diego’s “Updated Recycling Requirements” (<http://www.sandiego.gov/environmental-services/pdf/recycling/crobchure.pdf>) effective July 1, 2012.

Quantity of Annual Waste

During occupancy and after build out of the entire project, the expected annual waste to be generated from the development will be approximately:

Phase 1 - Annual Waste Calculation:⁴⁵

$$673,000 \text{ sf} \times 0.0055 = 3,701.5 \text{ tons / year}$$

Buildout - Annual Waste Calculation:⁴⁶

$$936,000 \text{ sf} \times 0.0055 = 5,148 \text{ tons / year}$$

Table 8: Occupancy Phase - Waste Management Elements

Tons of waste anticipated to be generated	<i>Phase 1 – 3,701.5 tons per year</i> <i>Phase 2 – 1,446.5 tons per year</i> <i>Build-out – 5,148 tons per year</i>
Type of waste to be generated	<i>Hospital Solid Waste Composition:</i> ⁴⁷ <ul style="list-style-type: none"> • Paper (45%) • Plastics (15%) • Metals (10%) • Food (10%) • Glass (7%) • Wood (3%) • Other (10%)
Describe how the project will reduce the generation of construction and demolition (C & D) debris	<i>Not applicable during Occupancy Phase</i>
Describe how the C & D materials will be reused on-site	<i>Not applicable during Occupancy Phase</i>
Name and location of recycling, reuse, and landfill facilities where recyclables and waste will be taken if not reused on-site	<u>Cardboard Recycling:</u> ⁴⁸ <i>EDCO</i> <u>Paper Recycling:</u> ⁴⁷ <i>Goodwill Industries</i> <u>Green Waste Recycling:</u> ⁴⁷ <i>Miramar Greenery</i> <u>Landfill:</u>

⁴⁵ Generation Factor of 0.0055 is taken from the City of San Diego Environmental Services Department *Waste Generation Factor - Occupancy Phase* handout.

⁴⁶ Generation Factor of 0.0055 is taken from the City of San Diego Environmental Services Department *Waste Generation Factor - Occupancy Phase* handout.

⁴⁷ Taken from Environmental Protection Agency Environmental Best Practices for Health Care Facilities Fact Sheet: *Reusable Totes, Blue Wrap Recycling and Composting* dated November 2002 (<http://www.epa.gov/region09/waste/p2/projects/hospital/totes.pdf>)

⁴⁸ Or equally appropriate facility certified by the City of San Diego to be determined at the time of project construction.

	<i>Miramar Landfill</i>
Describe how the C & D waste will be source separated if a mixed C & D facility is not used for recycling	<i>Not applicable during Occupancy Phase</i>
Describe how the waste reduction and recycling goals will be communicated to subcontractors	<i>Not applicable during Occupancy Phase</i>
Describe how a “buy recycled” program for green construction products, including mulch and compost will be incorporated into the project	<i>Not applicable during Occupancy Phase</i>
Describe how the Refuse and Recyclable Materials Storage Regulations (LDC Chapter 14, Article 2 Division 8) will be incorporated into design of building’s waste storage area	<i>See description in Table 7: Construction Phase - Waste Management Elements for how this project will comply with these regulations.</i>
Describe how compliance with the Recycling Ordinance (Municipal Code Chapter 6, Article 6, Division 7) will be incorporated in the operational phase	<p><i>The developer shall implement the following services to comply with the City of San Diego Municipal Code Chapter 6, Article 6, Div. 7: <u>Recycling services:</u></i></p> <ul style="list-style-type: none"> • <i>collection of recyclable materials as frequently as necessary to meet demand;</i> • <i>collection of plastic bottles and jars, paper, newspaper, metal containers, cardboard, and glass containers;</i> • <i>collection of other recyclable materials for which markets exist, such as scrap metal, wood pallets, and food waste, as determined by the Director, with collection of such recyclable materials required beginning on the 181st day after the City gives public notice thereof by placing a display advertisement of at least one-eighth page in a newspaper of general daily circulation within the City and posting a notice including such recyclables materials on a list maintained on the Department’s website;</i> • <i>utilization of recycling receptacles or containers which comply with the standards in the Container and Signage Guidelines established by the Department;</i> • <i>designated recycling collection and</i>

	<p><i>storage areas; and</i></p> <ul style="list-style-type: none"> • <i>signage on all recycling receptacles, containers, chutes, and/or enclosures which complies with the standards described in the Container and Signage Guidelines established by the Department</i> <p><u><i>Education:</i></u></p> <ul style="list-style-type: none"> • <i>Information, including the types of materials accepted, the location of recycling containers, and the occupants responsibility to recycle pursuant to this Division, shall be distributed to all occupants annually;</i> • <i>All new occupants shall be given information and instructions upon occupancy; and</i> • <i>All occupants shall be given information in instructions upon any change in recycling service to the commercial facility.</i>
<p>Describe any International Standards of Operation (ISO), or other certification, if any</p>	<p><i>Not applicable</i></p>

CONCLUSIONS

This Waste Management Plan was prepared in compliance with a mandate from the City of San Diego's review of the discretionary application for the Kaiser Permanente Medical Center project (PTS# 274240) because the proposed development exceeds the significance thresholds outlined in the City of San Diego Development Services Department, *Significance Determination Thresholds*, dated January 2011. To assure the impacts are mitigated to below a level of significance, ESD staff will be invited to a preconstruction meeting prior to the start of the construction phase. Additionally, education materials prepared to comply with the Recycling Ordinance as described in the Occupancy Phase section of this Plan will be approved prior to requesting a Temporary Certificate of Occupancy.

Prior to the issuance of a building permit, the applicant shall ensure that a representative of the City's Environmental Services Department (ESD) attends a preconstruction meeting to ensure that the following measures as described in this report have been successfully implemented:

- exported dirt from the grading phase has been beneficially reused, and shall provide verification to the ESD representative,
- an appropriate number of bins are provided with appropriate signage for the source separation of the designated construction materials,
- source separation bins are appropriately used to minimize contamination levels,
- the C&D Ordinance deposit has been paid,
- an appropriate diversion rate (from the Waste Management Plan) has been included on the deposit form,
- separated materials are being taken to the appropriate certified facility, and
- copies of the specifications that were used for materials in order to demonstrate 10% of the total value of building materials and products purchased are sustainably sourced materials and products.

Prior to the issuance of any certificate of occupancy/tentative certificate of occupancy the applicant shall invite a representative of the City's ESD to inspect the following measures as described in this report have been successfully implemented:

- adequate storage area has been provided as consistent with the City's Storage Ordinance,
- hauler(s) has been retained to provide recyclable materials collection, and
- education materials for building tenants/owners have been prepared as required per the City's Recycling Ordinance.

The following **Table 9** summarizes the waste impacts and the waste reduction goals for each project phase.

Total Waste Reduction Goals

Table 9: Calculated Diversion Rate

Phase/Type	Amount	Conversion Rate	Est. Tons Generated	Handling ⁴⁹	Diversion Target	Est. Tons Diverted	Est. Tons Disposed
Demolition:							
Building	n/a	n/a	26,195		75%	19,699	6,496
Wood			(8,487)	Separated & Recycled – Miramar Greenery	(100%)	(8,487)	(0)
Drywall			(1,179)	Separated & Recycled – EDCO	(100%)	(1,179)	(0)
Inerts			(8,461)	Separated & Recycled – Hanson	(100%)	(8,461)	(0)
Metal			(1,572)	Separated & Recycled – Allan Co.	(100%)	(1,572)	(0)
Parking Lot	n/a	n/a	11,266	Reused on-site or Recycled – Hanson	100%	11,266	0
Construction-Grading:							
Excavated Earth	26,640 cy	1.3 tons/cy	34,632	Alt job site or Recycled – Vulcan	100%	34,632	0
Construction-Building:							
Buildout	936,000 sf	3 lbs/sf	1,404		76%	1,066 ⁵⁰	338
Drywall			(243)	Separated & Recycled – EDCO	(100%)	(243)	(0)
Inerts			(267)	Separated & Recycled – Hanson	(100%)	(267)	(0)
Clean Wood			(455)	Separated & Recycled – Miramar Greenery	(100%)	(455)	(0)
Metal			(25)	Separated & Recycled – Allan Co.	(100%)	(25)	(0)
Cardboard (OCC)			(76)	Separated & Recycled – Allan Co.	(100%)	(76)	(0)
Total:			73,497		90.7%	66,663	6,834
Occupancy:							
Phase 1	673,000 sf	0.0055	3,702	Compliance w/ Recycling Ordinance	40%	1,481	2,221
Total at Buildout:	936,000 sf	0.0055	5,148		40%	2,059	3,089

⁴⁹ Recycling facilities identified are subject to change at time of construction, however all facilities will be selected from the City of San Diego’s Certified C&D Recycling Facility Directory List.

⁵⁰ See Table 5 on page 15 of this report.

Exhibit “A” - Location Map

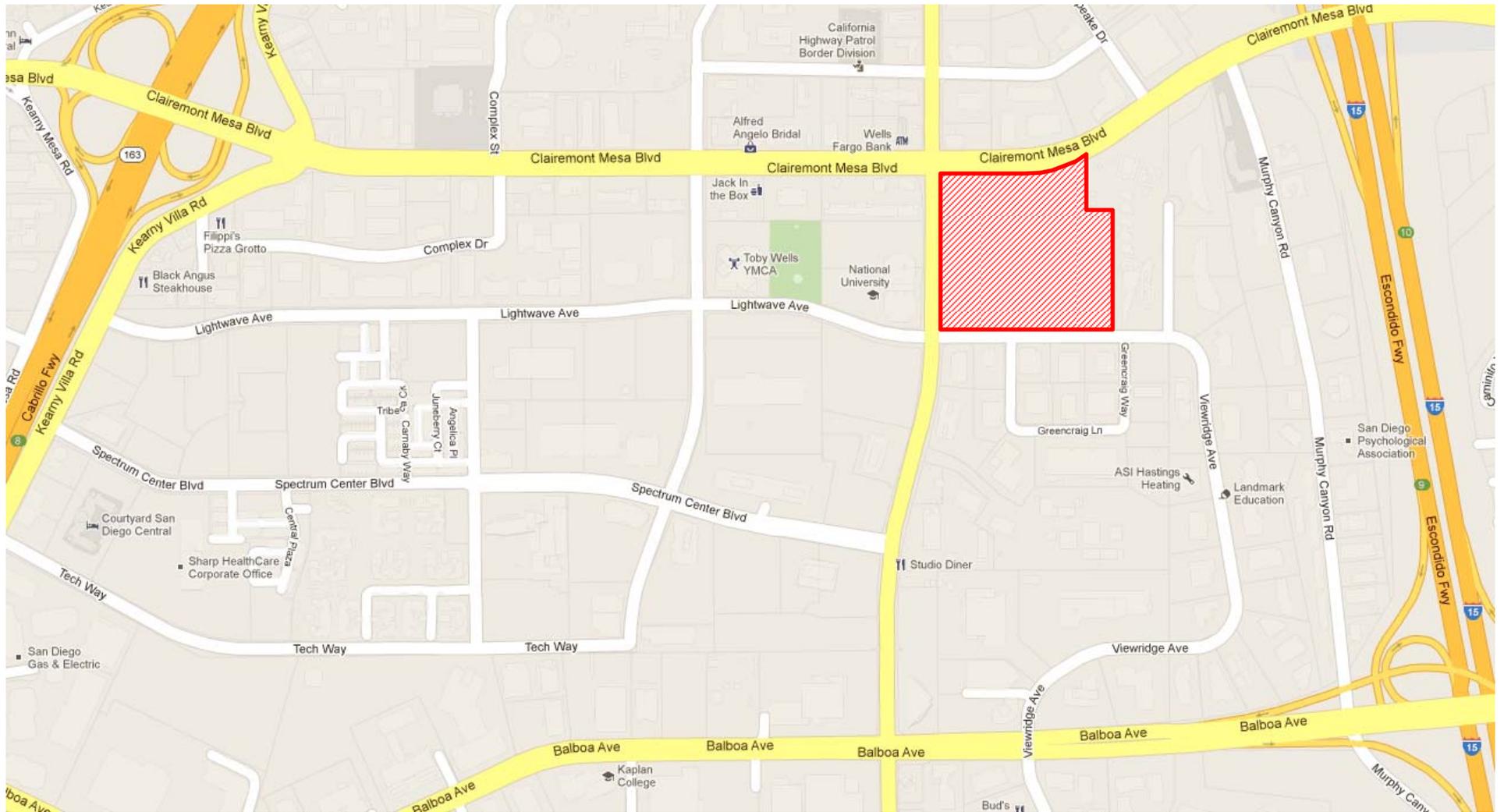


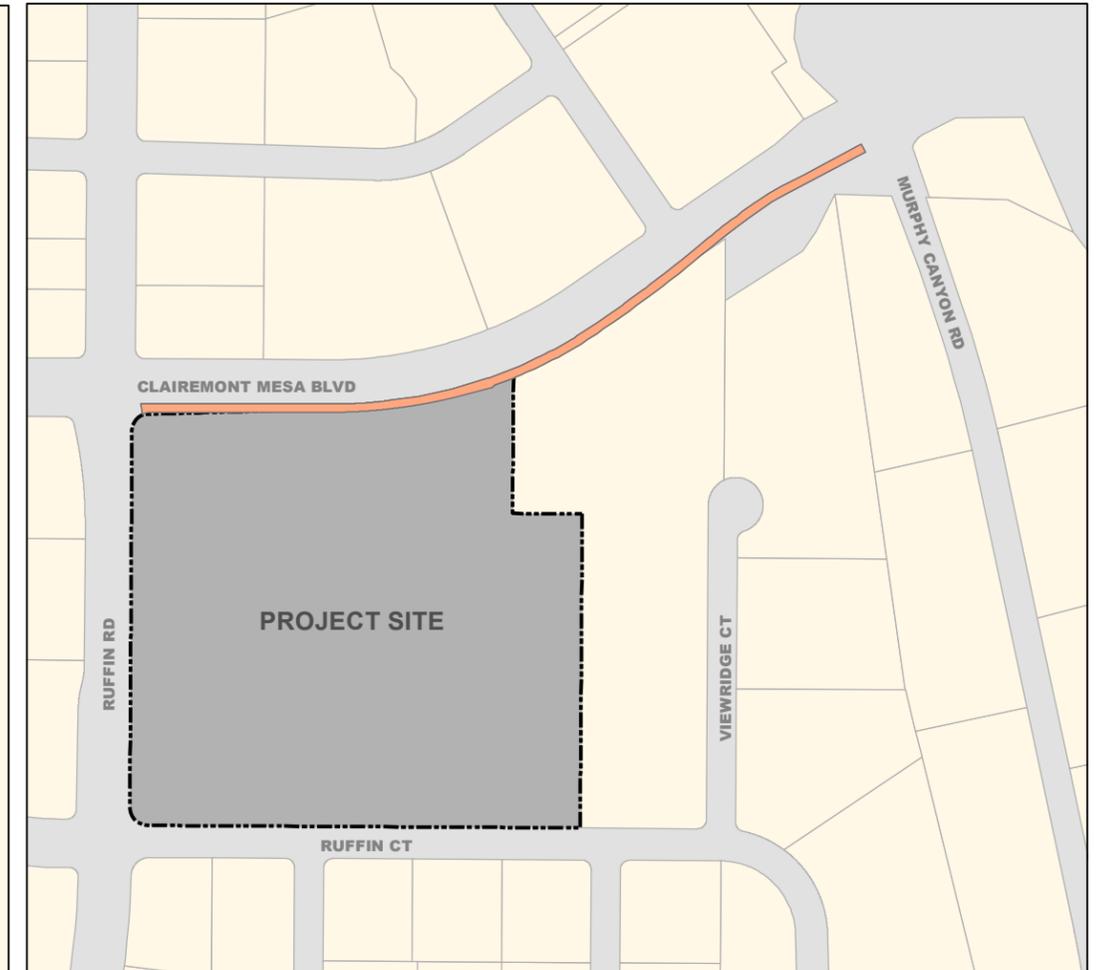
EXHIBIT "A"
LOCATION MAP

Exhibit “B” - Project Location on Aerial Photograph



EXHIBIT "B"
PROJECT LOCATION ON AERIAL PHOTOGRAPH

Exhibit “C” - Site Plan



Limits of Off-Site Street Improvements

Legend

-  Project Site
-  Proposed Phase I Buildings/Structures
-  Proposed Phase II Buildings/Structures
-  Proposed Eastbound 3rd Lane Street Improvements

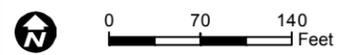


Exhibit “D” - Waste Management Form



THE CITY OF SAN DIEGO

Waste Management Form - Part I

Construction & Demolition (C&D) Debris Deposit Program



Required for projects described in Municipal Code §66.0601-66.0610.

Deposit will be fully refunded if at least 50%* of ALL debris generated from the project is recycled.
If the minimum required recycling rate is not met, the deposit refund will be prorated. **Deposit refund requests must be accompanied by weigh tickets for ALL debris generated, including all trash, salvage, reuse and recycling, and be submitted within 180 days from final inspection.** Refer to **Information Bulletin 119** for details on acceptable documentation.

Complete Part I before obtaining a building, combination or demolition permit.
Submit this form and your deposit to the Development Services Department staff at permit issuance.

Refundable Party Contact Information:

Name _____ Title _____ Company _____
Address _____ City _____ State ____ Zip _____
Phone _____ Email _____

Project Information:

Approval/Permit No. _____ Project Title _____
Project Address _____ Zip _____
Project Type: New Construction Addition/Alteration Demolition
Building Type: Commercial Residential
Estimated Square Feet _____
Estimated Start Date ____/____/____
Estimated Completion Date ____/____/____

TO BE FILLED OUT BY DSD STAFF
“C&D Deposit” Paid \$ _____
Invoice # _____ Date Paid _____

Fill out the table with *estimated* quantities in tons for each material that will be generated by your project. Note: A + B = C
Please use the *City Construction and Demolition Debris Conversion Table* if converting from volume to tonnage.

Material Type	A Estimated Salvage, Reuse or Recycle	B Estimated Disposal (Trash)	C Estimated Total Debris Quantity	Hauler	Certified Recycling Facility or Disposal Destination
Asphalt & Concrete					
Brick / Masonry / Tile					
Cabinets, Doors, Fixtures, Windows (circle all that apply)					
Cardboard					
Carpet, Padding / Foam					
Ceiling Tile (acoustic)					
Dirt					
Drywall					
Landscape Debris					
Mixed C&D Debris					
Mixed Inerts					
Roofing Materials					
Scrap Metal					
Stucco					
Unpainted Wood & Pallets					
Garbage / Trash					
Other:					
TOTAL					

To estimate Recycling Rate: (Total A/Total C) x 100 = Recycling %
MINIMUM RECYCLING RATE FOR ALL DEBRIS FROM YOUR PROJECT IS CURRENTLY 50%*
** Recycling rate is subject to change; check Information Bulletin 119 for current rate.*

C&D debris may contain paint, asbestos, mercury switches, light bulbs, ballasts or other hazardous wastes that require removal prior to disposal.
The Miramar Landfill cannot accept hazardous waste. For information on waste acceptance at the Miramar Landfill, call (858) 694-7000.



THE CITY OF SAN DIEGO

Waste Management Form - Part II

Construction & Demolition (C&D) Debris Deposit Program

Required for projects described in Municipal Code §66.0601-66.0610.



Complete Part II after final inspection.

Submit with ALL trash, salvage, reuse and recycling weigh tickets.

Please refer to **Information Bulletin 119** for details on acceptable documentation.

Send this completed form and all documentation:

By Mail

City of San Diego
Environmental Services Department
Attn: C&D Diversion Coordinator
9601 Ridgehaven Court, Suite 320
San Diego, CA 92123-1636

By Fax

Attn: C&D Diversion Coordinator
(858) 492-5089

By Email

ESD_CD@sandiego.gov

Applicants must submit refund requests within 180 days from project final inspection. Requests submitted after 180 days will not be eligible for a refund. Refunds will not be issued if all requested information and documentation is not provided. Refunds will be mailed within 45 business days following receipt of all proper forms and documentations. If the minimum required recycling rate specified in Information Bulletin 119 is not met, the deposit refund will be prorated.

Project Information

Approval/Permit No. _____ Project No. _____ Project Title _____

Final Inspection Date ____/____/____ Project Address _____

Affirmation

Applicant is advised of San Diego Municipal Code section 11.0401(b) which states: "No person willfully shall make a false statement or fail to report any material fact in any application for City license, permit, certificate, employment or other City action under the provisions of the San Diego Municipal Code."

I certify under penalty of perjury under the laws of the State of California that the information provided in and with this form pertains to construction and demolition debris generated only from the project listed in Part I, that I have reviewed the accuracy of the information, and that the information is true and correct to the best of my knowledge and belief.

Name _____ Title _____ Company _____

Signature _____ Date _____

Payment Information

Check will be made payable to the Refundable Party identified on the Development Services Department's paid invoice on which the "C&D Deposit" was assessed. Please provide complete mailing address below.

If payment is to be made to a different party, the Refundable Party must sign in the box below, designate to whom the check will be payable, and provide complete mailing address.

By signing my name, I _____, _____, _____,
Refundable Party on invoice (print name) Company Signature

authorize the refund check to be made payable to: _____.

Refund Mailing

Address _____ City _____ State ____ Zip+4 _____

**For more information, please contact the City of San Diego Environmental Services Department:
(858) 694-7000 or visit www.recyclingworks.com**

**Appendix I - San Diego Municipal Code: Construction
and Demolition Debris Diversion Deposit Program**

Article 6: Collection, Transportation and Disposal of Refuse and Solid Waste**Division 6:****Construction and Demolition Debris Diversion Deposit Program**

(“Construction and Demolition Debris Diversion Deposit Program” added 10-10-2005 by O-19420 N.S.; effective until a certified recycling facility which accepts mixed construction and demolition debris is operating in the City at a 50% diversion rate.)

(Amended 12-18-2007 by O-19694 N.S; effective 1-17-2008.)

§66.0601 Findings

The Council of the City of San Diego finds and declares that:

- (a) The City operates the Miramar Landfill, which is currently the only municipal landfill in the City. The Miramar Landfill currently is expected to close between 2011 and 2013. Preserving landfill capacity at the Miramar Landfill in order to extend the useful life of the Miramar Landfill for the citizens of the City is a paramount concern.
- (b) The City has made and continues to make progress in meeting the waste *diversion* requirements imposed by AB 939, but additional efforts, particularly in the *diversion* of *construction and demolition debris*, will assist the City in continuing to meet the goal of *diverting* 50% of its waste from landfill *disposal*.
- (c) Studies show that approximately 35% of the waste generated in the City of San Diego delivered for *disposal* is *construction and demolition debris*, which could be *diverted* from landfill *disposal*.
- (d) Efforts by the City and the private sector to encourage voluntary *construction and demolition debris diversion* have not been as successful as the City had hoped and additional efforts are necessary to ensure continued compliance with AB 939 requirements.

(12-2007)

- (e) *Construction and demolition debris diversion* deposit programs in other jurisdictions in the State, similar to the one implemented by this Division, have proven successful in increasing *diversion of construction and demolition debris* and have been favorably received by the California Integrated Waste Management Board.

(Added 10-10-2005 by O-19420 N.S; effective 1-17-2008.)

(Amended 12-18-2007 by O-19694 N.S; effective 1-17-2008.)

§66.0602 Purpose of Construction and Demolition Debris Diversion Deposit Program

The purpose of this Division is to establish the Construction and Demolition Debris Diversion Deposit Program. This program is intended to increase the *diversion of construction and demolition debris* from landfill *disposal*, conserve the capacity and extend the useful life of the Miramar Landfill, and avoid the potential financial and other consequences to the City of failing to remain in compliance with AB 939 requirements.

(Added 10-10-2005 by O-19420 N.S; effective 1-17-2008.)

(Amended 12-18-2007 by O-19694 N.S; effective 1-17-2008.)

§66.0603 Definitions

All defined terms in this Division appear in *italics* and are found in sections 11.0210, 66.0102, and 113.0103 of this Code, except for the terms Building Permit and Demolition/Removal Permit which refer to those terms respectively as used in the Land Development Code and which, consistent with the Land Development Code, are not italicized in this Division. In addition, whenever the following words or phrases are used in this Division, they mean:

AB 939 means the California Integrated Waste Management Act, codified at California Public Resources Code sections 40000 et seq.

Certified recycling facility means a recycling, composting, materials recovery or reuse facility which accepts *construction and demolition debris* and which has been certified by the *Director* pursuant to rules promulgated by the *Director*.

(12-2007)

Construction and demolition debris means the waste building materials, packaging, and rubble resulting from construction, remodeling, repair, alteration, and/or demolition operations on pavements, houses, commercial buildings, and other *structures* and may include, but is not limited to, concrete, asphalt, wood, metals, bricks, dirt, rocks, and other inert waste.

Director means the Director of the Environmental Services Department (and its successor) or the designee of the Director of the Environmental Services Department (and its successor).

Disposal means the final deposition of *solid waste* at a permitted landfill.

Diversion or *Divert* means the reduction or elimination of *solid waste* from landfill *disposal*.

Hazardous waste has the same meaning as set forth in section 66.0102 of this Code.

Solid Waste means all putrescible and nonputrescible solid, semisolid, and liquid wastes, including, but not limited to, garbage, trash, refuse, paper, rubbish, ashes, industrial wastes, *construction and demolition debris*, abandoned vehicles and parts thereof, discarded home and industrial appliances, dewatered, treated, or chemically fixed sewage sludge which is not hazardous waste, manure, vegetable or animal solid and semisolid wastes, and other discarded solid and semisolid wastes. *Solid Waste* does not include hazardous waste, hazardous substances or medical wastes, as those terms are defined in this Chapter 6 or in State or Federal law.

Waste Management Form Part I means the form prepared by the City Manager on which an *applicant* for a Building Permit or Demolition/Removal Permit shall provide information including, but not limited to, the types and amounts of *construction and demolition debris* the *applicant* anticipates the *development* will generate and the expected *construction and demolition debris diversion* the *applicant* expects to achieve for that *development*.

Waste Management Form Part II means the form prepared by the City Manager on which the *applicant* for a Building Permit or Demolition/Removal Permit shall provide information including, but not limited to, the name and address of the *person* to whom a deposit refund, if any, shall be issued, as well as documentary evidence in a form satisfactory to the *Director* demonstrating the *construction and demolition debris diversion* the *applicant* achieved for the *development*.

(Added 10-10-2005 by O-19420 N.S; effective 1-17-2008.)

(12-2007)

§66.0604 Submittal of Waste Management Form and Diversion Deposit

Beginning on the 45th day after the City has notified the public, in the manner described in section 66.0606(e), that a *certified recycling facility* which accepts mixed *construction and demolition debris* is operating at a 50% *diversion* rate, within 25 miles of the City Administration Building located at 202 “C” Street, San Diego, or beginning on July 1, 2008, whichever is later:

- (a) All *applicants* for a Building Permit or a Demolition/Removal Permit, including the City of San Diego, shall submit a properly completed *Waste Management Form Part I* with the Building Permit or Demolition/Removal Permit application, in accordance with the requirements set forth in the Land Development Manual; and
- (b) All *applicants*, including the City of San Diego, shall pay a refundable deposit at the time the Building Permit or Demolition/Removal Permit is issued; and
- (c) No Building Permit or Demolition/Removal Permit shall be issued unless the *applicant* has submitted a properly completed *Waste Management Form Part I* and paid the required deposit.

(Added 10-10-2005 by O-19420 N.S; effective 1-17-2008.)

(Amended 12-18-2007 by O-19694 N.S; effective 1-17-2008.)

§66.0605 Establishment of Construction and Demolition Debris Diversion Deposits

The City Council shall establish by resolution a schedule of *construction and demolition debris diversion* deposits applicable to Building Permits and to Demolition/Removal Permits. The schedule shall be reviewed and adjusted periodically to ensure the purposes of this Division are met.

(Added 10-10-2005 by O-19420 N.S; effective 1-17-2008.)

(12-2007)

§66.0606 Entitlement to Refund of Diversion Deposit

- (a) An *applicant* is eligible for a refund of the deposit paid pursuant to Section 66.0604(b) provided the *applicant* submits the following directly to the *Director* within 180 days of the final inspection date for the *development* for which the deposit was paid:
- (1) A properly completed *Waste Management Form Part II*, in accordance with the requirements set forth in the Land Development Manual, which demonstrates the *construction and demolition debris diversion* the *applicant* achieved for the *development*.
 - (2) Evidence satisfactory to the *Director* that the *construction and demolition debris* generated by the *development* was *diverted*, at the applicable *diversion* rate set forth in Section 66.0606(d) below, by one or more of the following methods:
 - (a) on-site reuse of the *construction and demolition debris*;
 - (b) acceptance of the *construction and demolition debris* by a *certified recycling facility*; or
 - (c) other donation or reuse of the *construction and demolition debris* acceptable to the *Director*.

For a commercial *development*, such as a shopping center, with a master developer which manages solid waste generated by the *development* as a whole and which has multiple commercial or retail tenants who may construct their own tenant improvements, the evidence satisfactory to the *Director* described in section 66.0606(a)(2) may include receipts from a *certified recycling facility(ies)* showing the cumulative weight or volume of *construction and demolition debris diverted* from the *development* within the 30 calendar days prior to the final inspection date referred to in section 66.0606(a).

- (b) *Construction and demolition debris* shall be measured by weight or by volume, whichever is most accurate and practicable. To the extent practicable, all *construction and demolition debris* shall be weighed on a scale.
- (1) For *construction and demolition debris* which is weighed, the *applicant* shall use a scale which is in compliance with all federal, state, and local regulatory requirements for accuracy and maintenance of such scale.

- (2) For *construction and demolition debris* for which measurement by weight is not practicable, the *applicant* shall measure by volume and convert the volumetric measurements to weight using the standardized rates established in the City Construction and Demolition Debris Conversion Rate Tables.
 - (3) The *Director* reserves the right, when appropriate, to establish standard weights for various types of *construction and demolition debris* items based upon accepted average weights for such items. These standard weights shall be listed in the City Construction and Demolition Debris Conversion Rate Tables.
- (c) Refunds will be based on proof, satisfactory to the *Director*, of the *construction and demolition debris diversion* the *applicant* achieved for the *development* for which the deposit was paid.
- (d) If the *Director* determines the applicant is entitled to a refund, the amount of the refund shall be in the same proportion to the deposit paid by the *applicant* as the *diversion* rate achieved for the *development* is to the applicable *diversion* rate set forth below:
- (1) For Building Permits or Demolition/Removal Permits issued on or after the actual effective date of Section 66.0604 through and including 180 calendar days from the actual effective date of Section 66.0604, the *diversion* rate shall be 50% by weight of the total *construction and demolition debris* generated by the *development*; and
 - (2) For Building Permits or Demolition/Removal Permits issued after 180 calendar days from the actual effective date of Section 66.0604, the *diversion* rate shall be 75% by weight of the total *construction and demolition debris* generated by the *development*, provided that a *certified recycling facility* which accepts mixed *construction and demolition debris* is operating within 25 miles of the City Administration Building located at 202 "C" Street, San Diego, at a 75% *diversion* rate as of 181 calendar days from the actual effective date of Section 66.0604. If such a facility is not in operation as of 181 calendar days from the actual effective date of Section 66.0604, the *diversion* rate shall remain as set forth in Section 66.0606(d)(1) until 30 days after the City has notified the public that such a facility is available, at which time the *diversion* rate shall increase to 75% by weight of the total *construction and demolition debris* generated by the *development*

(12-2007)

- (e) Notice under this Division may be given by placing a display advertisement of at least one-eighth page in a newspaper of general daily circulation within the City.
- (f) The *Director* shall determine whether a *certified recycling facility* has reached a certain *diversion* rate.
- (g) The *Director* shall refund a deposit paid or collected in error.
- (h) If a Building Permit or Demolition/Removal Permit, for which a deposit has been paid, is subsequently cancelled, abandoned or expires before work on the *development* has commenced, the *Director* shall refund the deposit paid by the *applicant* upon the *applicant's* submittal to the *Director* of satisfactory proof of the cancellation, abandonment or expiration of the permit.
- (i) The *Director* shall issue the refund to the *applicant* within the time established by City Council resolution.
- (j) In no event shall the refund be in an amount greater than the deposit paid by the *applicant*.

(Added 10-10-2005 by O-19420 N.S; effective 1-17-2008.)

(Amended 12-18-2007 by O-19694 N.S; effective 1-17-2008.)

§66.0607 Certified Recycling Facilities

- (a) After at least one public hearing, the *Director* shall establish rules and regulations for certifying facilities inside or outside the City for purposes of this Division including, but not limited to, criteria for determining the *diversion* rate achieved by the facility and for verifying that the facility has obtained all applicable permits and licenses. The *Director* shall publish in the official City newspaper a notice of the adoption or amendment of these rules and regulations. The *Director* shall certify facilities in accordance with those rules and regulations.

(12-2007)

- (b) Within ten working days after publication of the notice adopting the proposed rules and regulations pursuant to Section 66.0607(a), any person in disagreement with the proposed rules and regulations may request in writing to the *Director* that proposed rules and regulations be considered by the City Manager or designee. The proposed rules and regulations shall be considered by the City Manager or designee, who shall issue a written decision respecting the proposed rules and regulations within thirty days of the *Director's* receipt of the written request. The decision of the City Manager or designee with respect to the rules and regulations shall be final.

(Added 10-10-2005 by O-19420 N.S; effective 1-17-2008.)

(Amended 12-18-2007 by O-19694 N.S; effective 1-17-2008.)

§ 66.0608 Diversion Deposit Program Exemptions

- (a) The following activities, alone or in combination with one another, are exempt from this Division, except if the activity or activities is/are undertaken in conjunction with *development* which otherwise is subject to this Division:
- (1) Roofing projects that do not include the tear-off of the existing roof.
 - (2) Installation, replacement, or repair of a *retaining wall*.
 - (3) Installation, replacement, or repair of a carport, patio cover, balcony, trellis, or fireplace.
 - (4) Installation, replacement, or repair of a deck.
 - (5) Installation, replacement, or repair of a *fence*.
 - (6) Installation, replacement, or repair of a swimming pool or a spa.
 - (7) Installation, replacement, or repair of a pre-fabricated *sign* which does not require modification to the *structure* to which the *sign* is attached.
 - (8) Installation, replacement, or repair of storage racks.
 - (9) *Development* which requires only an electrical permit, only a plumbing permit, or only a mechanical permit.

(12-2007)

- (b) The following activities are exempt from this Division:
- (1) *Development* which is expected to generate only *hazardous waste* and/or *hazardous substances*.
 - (2) *Development* for which the *construction and demolition debris* deposit is less than \$200 as calculated by the Development Services Department or its successor.

*(Added 10-10-2005 by O-19420 N.S; effective 1-17-2008.)**(Amended 12-18-2007 by O-19694 N.S; effective 1-17-2008.)***§66.0609 Unrefunded Diversion Deposits and Accrued Interest**

A deposit which is not refunded or claimed in accordance with this Division is the property of the City. For purposes of each and every deposit and all interest accrued thereon, the relationship between the *applicant* and the City is that of debtor-creditor, respectively. All interest accruing on each deposit is the property of the City, and the *applicant* shall have no claim upon the interest.

*(Added 10-10-2005 by O-19420 N.S; effective 1-17-2008.)***§66.0610 Use of Diversion Deposits and Accrued Interest**

All deposits and accrued interest thereon shall be deposited into the Recycling Fund created pursuant to section 66.0135 of this Code. All deposits and accrued interest thereon shall be used solely and exclusively for the following purposes:

- (a) payment of deposit refunds, as determined by the *Director*;
- (b) payment of administrative costs of the Construction and Demolition Debris Diversion Program established by this Division;
- (c) payment of costs of programs designed to encourage *diversion* of *solid waste* from landfill *disposal*;
- (d) payment of costs of programs designed to develop or improve the infrastructure to *divert solid waste* from landfill *disposal*; or
- (e) payment of costs to develop or improve infrastructure to *divert solid waste* from landfill *disposal*.

(Added 10-10-2005 by O-19420 N.S; effective 1-17-2008.)

**Appendix II - Information Bulletin 119: Construction
and Demolition Debris**



THE CITY OF SAN DIEGO

REQUIREMENTS FOR RECYCLING AND DISPOSAL OF

Construction and Demolition Debris

CITY OF SAN DIEGO DEVELOPMENT SERVICES
1222 FIRST AVENUE, MS 301 SAN DIEGO, CA 92101-4101
CALL (619) 446-5300 FOR APPOINTMENTS AND (619) 446-5000 FOR INFORMATION

INFORMATION
BULLETIN

119

August 2008

This Information Bulletin describes the Construction and Demolition (C&D) debris recycling requirements and refundable recycling deposit amounts for qualifying new construction, addition/alteration and demolition projects requiring permits in the City of San Diego.

Documents referenced in this Information Bulletin

- [Waste Management Form](#)

I. QUALIFYING PROJECTS

Effective July 1, 2008, new construction, addition/alteration and demolition projects requiring building, combination and demolition permits are required to complete a Waste Management Form and pay a refundable recycling deposit at the time the permit is issued. Projects that do not meet the minimum square footage are not required to pay the recycling deposit. See C&D Debris Recycling Deposit Table for square footage thresholds. For other exempt project types, refer to Section IV.

II. COMPLETING WASTE MANAGEMENT FORM, PART I (WMF I)

A WMF I must be filled out for every qualifying permit. It includes the front side and the top portion of the back side. All the fields must be completely filled out at the planning stages of the project, before any work is done.

Forms are located in lobby of Development Services Department or on the web at www.sandiego.gov/environmental-services/recycling/cdrecycling.shtml

Contact's name, signature and information refer to the Refundable Party, the applicant who will pay for the invoice and whose name will be listed on the paid invoice.

C&D debris estimates shall be provided in tons. For C&D debris for which measurement by weight is not practicable, the applicant shall measure to weight using the standardized rates established in the *City's Construction and Demolition Debris Conversion Rate Table*. If any of the materials generated do not have a conversion factor listed, determine the quantity of the particular material and provide an estimate of the weight of the material.

Specify the Certified Recycling Facilities where the C&D debris will be taken for recycling. Certified Recycling Facilities must be used in order to be eligible for a deposit refund. Donating reusable goods is also acceptable with appropriate documentation, such as receipts and photos.

The completed WMF I is required at permit issuance. Be sure to keep a copy of the completed

WMF I before it is turned in. It will be required as part of the documentation for your refund request.

III. RECYCLING REQUIREMENT

The recycling rate is currently 50% by weight of the total C&D debris generated by the project. After 180 calendar days, the diversion rate shall be 75%, provided that a certified recycling facility is operating within 25 miles of the City Administration Building, which is located at 202 "C" Street, San Diego, at a 75% diversion rate as of 181 calendar days from the actual effective date.

The recycling requirement could be met by one or more of the following methods:

1. On-site or off-site reuse of the C&D debris;
2. Recycling of C&D debris at Certified Recycling Facilities; or
3. Other donation or reuse of the C&D debris acceptable to the Environmental Services Director (Director).

Save all recycling, reuse and disposal receipts from project related debris for requesting a refund. Photos proving donation and reuse of materials may be accepted, subject to the Director's approval, in certain cases as proof of evidence of reuse of the project debris. Photos must be accompanied by written volume estimates.

IV. EXEMPTIONS

The following projects, alone or in combination with one another, are exempt from the requirements, except if the project(s) is/are undertaken in conjunction with a project which otherwise is subject to the requirements:

- A. Roofing projects that do not include the tear-off of the existing roof;
- B. Installation, replacement or repair of: retaining wall; carport, patio cover, balcony, trellis or fireplace; deck; fence; swimming pool or spa; pre-fabricated sign which does not require modification to the structure to which

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Upon request, this information is available in alternative formats for persons with disabilities.

- the sign is attached; storage racks;
- C. Projects which require only an electrical, only a plumbing or only a mechanical permit;
- D. Projects which are expected to generate only hazardous waste and/or hazardous substances; and
- E. Projects for which the C&D debris deposit is less than \$200.

V. REQUESTING C&D DEPOSIT REFUND

The applicant (Refundable Party) may be eligible for a refund of the deposit paid provided that the debris from the project was recycled at the applicable rate and that the applicant submits the following directly to the Director within 180 days from the passing final inspection date of the permit for which the deposit was paid:

- A. A properly completed Waste Management Form II (WMF II) filled out on the back side of the copy of the completed WMF I, which was submitted when the permit was issued.
- B. A copy of the completed WMF I, if not already submitted with WMF II.
- C. Evidence, including all recycling, reuse and disposal receipts, photographs and other documentation, which clearly demonstrates that the C&D debris generated by the project was recycled at the applicable recycling rate.

Mailing address for the completed WMF II and all documentation:

City of San Diego
[Environmental Services Department](#)
 Attn.: C&D Diversion Coordinator
 9601 Ridgehaven Court, Suite 320
 San Diego, CA 92123

Refunds will be based on proof, satisfactory to the Director, of the C&D debris recycling rate

the applicant achieved for the permit for which the deposit was paid.

Refunds for projects recycling less than the required amount will be pro-rated according to the recycling rate achieved by the specific project.

Requests submitted after 180 days from the passing final inspection date will not be eligible for a refund. Incomplete requests, for which additional documentation or proof has not been submitted by the 180 days, will not be eligible for a refund.

If a permit, for which a deposit has been paid, is subsequently cancelled, abandoned or expires *before* any work on the project has commenced, the deposit paid by the applicant will be returned upon the applicant's submittal to the Director satisfactory proof of the cancellation, abandonment or expiration of the permit.

If a permit, for which a deposit has been paid, is subsequently cancelled, abandoned or expires *after* work on the project has commenced, the recycling requirement will apply to any and all work performed on the project.

VI. RECYCLING RESOURCES

Different projects generate different wastestreams. For example, debris from a demolition phase of a project is very different from debris from the construction phase. There is also a variety of hazardous waste found at any construction and demolition site. Knowing the type of debris your project will generate will help you better manage the proper recycling of each material, saving you time and money.

For additional information, a listing of certified recycling facilities, and/or technical assistance, contact the City of San Diego Environmental Services Department at (858) 694-7000 or visit the web site at: <http://www.sandiego.gov/environmental-services/recycling/cdrecycling.shtml>

C&D DEBRIS RECYCLING DEPOSIT TABLE

	DEPOSIT/ Sq. Ft.	MINIMUM Sq. Ft. SUBJECT TO DEPOSIT	MAXIMUM Sq. Ft. SUBJECT TO DEPOSIT	RANGE OF DEPOSITS
RESIDENTIAL NEW CONSTRUCTION -DETACHED	\$0.40	500	125,000	\$200 - \$50,000
RESIDENTIAL NEW CONSTRUCTION - ATTACHED	\$0.40	500	100,000	\$200 - \$40,000
NON-RESIDENTIAL NEW CONSTRUCTION - COMMERCIAL	\$0.20	1,000	25,000	\$200 - \$5,000
NON-RESIDENTIAL NEW CONSTRUCTION - INDUSTRIAL	\$0.20	1,000	75,000	\$200 - \$15,000
NON-RESIDENTIAL ALTERATIONS	\$0.70	286	NO MAXIMUM	\$200 AND UP
RESIDENTIAL DEMOLITION	\$0.70	286	NO MAXIMUM	\$200 AND UP
NON-RESIDENTIAL DEMOLITION	\$0.20	1,000	NO MAXIMUM	\$200 AND UP
FLAT RATE				
ROOF PROJECT WITH TEAR-OFF	--	ALL PROJECTS	--	\$200
RESIDENTIAL ALTERATIONS	--	500 & ABOVE	--	\$1,000

**Appendix III - San Diego Municipal Code: Recycling
Ordinance**

(11-2007)

Article 6: Collection, Transportation and Disposal of Refuse and Solid Waste**Division 7: Recycling Ordinance**(*“Recycling Ordinance”*)*Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)***§66.0701 Findings**

The Council of the City of San Diego finds and declares that:

- (a) The City operates the Miramar Landfill, which is currently the only municipal landfill in the City. The Miramar Landfill currently is expected to close between 2011 and 2013. Preserving landfill capacity at the Miramar Landfill in order to extend the useful life of the Miramar Landfill for the citizens of the City is a paramount concern.
- (b) The City has met (for 2004 and 2005) and continues to make progress in maintaining the waste *diversion* requirements imposed by AB 939, but additional efforts, particularly in the *recycling* of paper, cardboard, and other *recyclable materials*, will assist the City in maintaining and exceeding the goal of *diverting* 50% of its waste from landfill *disposal*.
- (c) Studies show that approximately 21% of the waste generated in the City of San Diego and delivered for landfill *disposal* is paper and 16% is compostable organics, all of which could be *diverted* from landfill *disposal*.
- (d) Efforts by the City and the private sector to encourage voluntary *diversion* of residential, commercial, and special event waste have not been as successful as the City had hoped and additional efforts are necessary to ensure continued compliance with AB 939 requirements.
- (e) *Recycling* programs in other jurisdictions in the State, similar to the one implemented by this Division, have proven successful in increasing *diversion* of *recyclable materials* and have been favorably received by the California Integrated Waste Management Board.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

(11-2007)

§66.0702 Purpose

The purpose of this Division is to establish requirements for *recycling* of *recyclable materials* generated from residential facilities (both single family and multi-family), commercial facilities (including City buildings), and special events. These requirements are intended to increase the *diversion* of *recyclable materials* from landfill *disposal*, conserve the capacity and extend the useful life of the Miramar Landfill, reduce greenhouse gas emissions, and avoid the potential financial and other consequences to the City of failing to meet *AB 939* requirements.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

§66.0703 Definitions

All defined terms in this Division appear in *italics*. For purposes of this Division, the following definitions apply:

AB 939 has the same meaning as set forth in Section 66.0102 of this Article.

Certified Recyclable Materials Collector means a *Recyclable Materials Collector* which has been issued a certificate by the City pursuant to this Division.

Collect or *Collection* shall mean to take physical possession of and remove *solid waste* or *recyclable materials* at the place of generation.

Commercial facilities means any facilities that are not *residential facilities* or *mixed use facilities*. *Commercial facilities* includes City buildings for which the *responsible person* is a City of San Diego employee.

Department means the City of San Diego Environmental Services Department or its successor.

Director has the same meaning as set forth in Section 66.0102 of this Article.

Disposal means the final deposition of waste at a permitted landfill or other permitted waste facility.

Diversion or *Divert* means the reduction or elimination of *solid waste* from landfill *disposal*.

Franchisee has the same meaning as set forth in Section 66.0102 of this Article.

Mixed use facilities means facilities which include both residential and commercial uses.

(11-2007)

Person has the same meaning as set forth in Section 66.0102 of this Article.

Recyclable has the same meaning as set forth in Section 66.0102 of this Article.

Recyclable Materials has the same meaning as set forth in Section 66.0102 of this Article.

Recyclable Materials Collector has the same meaning as set forth in Section 66.0102 of this Article.

Recycling or *Recycle* has the same meaning as set forth in Section 66.0102 of this Article.

Recycling facility means a *recycling*, composting, or materials recovery or reuse facility.

Refuse has the same meaning as set forth in Section 66.0102 of this Article.

Residential facility has the same meaning as set forth in Section 66.0127(a)(4) of this Article.

Responsible person has the same meaning as set forth in Section 11.0210 of the San Diego Municipal Code including, but not limited to, the individual or entity responsible for the management of *solid waste* at the *residential, commercial or mixed use facility* or special event for *disposal* or *recycling*.

Self-haul means the process of personally, or through one's own full-time employees, *collecting*, transporting, and delivering one's own *solid waste* or *recyclable materials*.

Solid waste has the same meaning as set forth in Section 66.0102 of this Article.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

§66.0704 Unlawful Acts

It is unlawful for any *person* to fail to comply with any provision or requirement set forth in this Division which is applicable to such *person*.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

§66.0705 Recycling Requirement for Persons Serviced by City of San Diego

Effective January 1, 2008, *persons* who are provided with curbside *recycling collection* services by the City of San Diego shall participate in the City curbside *recycling* program by separating *recyclable materials* from other *solid waste* and depositing the *recyclable materials* in the approved *recycling* container.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

§66.0706 Recycling Requirement for Residential Facilities Serviced by Franchisee

- (a) Occupants of Single Family *Residential Facilities*. Effective on the 90th day after the date of final passage of the ordinance adopting this Division, occupants of single-family *residential facilities* which receive *solid waste collection* service from a *Franchisee* shall participate in a curbside *recycling* program, offered by the *Franchisee* or a *Recyclable Materials Collector*, by separating *recyclable materials* from other *solid waste* and depositing the *recyclable materials* in the *recycling* container provided by the *Franchisee* or *Recyclable Materials Collector*.
- (b) Single Family *Residential Facilities* Managed by Association. For single family *residential facilities*, whose *solid waste collection* services are managed by an association or other organization responsible for providing for *solid waste collection* services to multiple single family *residential facilities* within a housing development, the *responsible person* for the association or other organization shall provide curbside *recycling* services to each single family *residential facility* in compliance with the requirements in sections 66.0706(e) and 66.0706(f), beginning on the 90th day after the date of final passage of the ordinance adopting this Division.
- (c) Multi-Family *Residential Facilities*. For multi-family *residential facilities* which receive *solid waste collection* service from a *Franchisee*, the responsible *person* shall provide on-site *recycling* services to occupants as required by this Division, by the following dates:
- (1) The 90th day after the date of final passage of the ordinance adopting this Division, for multi-family *residential facilities* with 100 *residential* units or more;
 - (2) January 1, 2009, for multi-family *residential facilities* with at least 50 but not more than 99 *residential* units; and
 - (3) January 1, 2010, for multi-family *residential facilities* with up to 49 *residential* units.
- (d) Occupants of Multi-Family *Residential Facilities*. Occupants of multi-family *residential facilities* which receive *solid waste collection* service from a *Franchisee* shall participate in a *recycling* program by separating *recyclable materials* from other *solid waste* and depositing the *recyclable materials* in the *recycling* container provided by the *Franchisee* or *Recyclable Materials Collector*, beginning on the applicable dates specified in Section 66.0706(c).

(11-2007)

- (e) *Recycling Services.* The *recycling* services required by this Section 66.0706 shall include, at a minimum, all of the following:
- (1) *collection of recyclable materials* at least two times per month;
 - (2) *collection* of plastic bottles and jars, paper, newspaper, metal containers, cardboard, and glass containers;
 - (3) utilization of *recycling* receptacles which comply with the standards in the Container and Signage Guidelines established by the *Department*;
 - (4) designated *recycling collection* and storage areas; and
 - (5) signage on all *recycling* receptacles, containers, chutes, and/or enclosures which complies with the standards described in the Container and Signage Guidelines established by the *Department*.
- (f) *Occupant Education.* For multi-family *residential facilities*, the *responsible person* shall ensure that occupants are educated about the *recycling* services as follows:
- (1) Information, including the types of *recyclable materials* accepted, the location of *recycling* containers, and the occupants responsibility to *recycle* pursuant to this Division, shall be distributed to all occupants annually;
 - (2) All new occupants shall be given information and instructions upon occupancy; and
 - (3) All occupants shall be given information and instructions upon any change in *recycling* service to the facility.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

§66.0707 Recycling Requirements for Commercial Facilities Serviced by Franchisee

- (a) *Commercial facilities.* For *commercial facilities* which receive *solid waste collection* services from a *Franchisee*, the *responsible person* shall provide on-site *recycling* services to occupants as required by this Division, by the following dates:
- (1) The 90th day after the date of final passage of the ordinance adopting this Division, for *commercial facilities* of 20,000 square feet or more;

- (2) January 1, 2009, for *commercial facilities* of 10,000 square feet or more, but less than 20,000 square feet; and
 - (3) January 1, 2010, for *commercial facilities* under 10,000 square feet.
- (b) Occupants of *Commercial Facilities*. Occupants of *commercial facilities* which receive *solid waste collection* service from a *Franchisee*, shall participate in a *recycling* program by separating *recyclable materials* from other *solid waste* and depositing the *recyclable materials* in the *recycling* container provided by the *Franchisee* or *Recyclable Materials Collector*, beginning on the applicable dates specified in Section 66.0707(a).
- (c) *Recycling Services*. The *recycling* services required by this Section 66.0707 shall include, at a minimum, all of the following:
- (1) *collection of recyclable materials* as frequently as necessary to meet demand;
 - (2) *collection* of plastic bottles and jars, paper, newspaper, metal containers, cardboard, and glass containers;
 - (3) *collection* of other *recyclable materials* for which markets exist, such as scrap metal, wood pallets, and food waste, as determined by the *Director*, with *collection* of such *recyclable materials* required beginning on the 181st day after the City gives public notice thereof by placing a display advertisement of at least one-eighth page in a newspaper of general daily circulation within the City and posting a notice including such *recyclable materials* on a list maintained on the *Department's* website;
 - (4) utilization of *recycling* receptacles or containers which comply with the standards in the Container and Signage Guidelines established by the *Department*;
 - (5) designated *recycling collection* and storage areas; and
 - (6) signage on all *recycling* receptacles, containers, chutes, and/or enclosures which complies with the standards described in the Container and Signage Guidelines established by the *Department*

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- (d) Occupant Education. For *commercial facilities*, the *responsible person* shall ensure that occupants are educated about the *recycling* services as follows:
- (1) Information, including the types of *recyclable materials* accepted, the location of *recycling* containers, and the occupants responsibility to *recycle* pursuant to this Division, shall be distributed to all occupants annually;
 - (2) All new occupants shall be given information and instructions upon occupancy; and
 - (3) All occupants shall be given information and instructions upon any change in *recycling* service to the *commercial facility*.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

§66.0708 Recycling Requirements for Mixed Use Facilities

- (a) Majority Residential. For a *mixed use facility* which has the majority of its square footage devoted to residential uses, the *responsible person* shall comply with the *recycling* requirements set forth in Section 66.0706 of this Division.
- (b) Majority Commercial. For a *mixed use facility* which has the majority of its square footage devoted to commercial uses, the *responsible person* shall comply with the *recycling* requirements set forth in Section 66.0707 of this Division.
- (c) Occupants of Majority Residential *Mixed Use Facility*. Occupants of a *mixed use facility* which has the majority of its square footage devoted to residential uses, shall comply with the *recycling* requirements applicable to occupants set forth in Section 66.0706 of this Division.
- (d) Occupants of Majority Commercial *Mixed Use Facility*. Occupants of a *mixed use facility* which has the majority of its square footage devoted to commercial uses, shall comply with the *recycling* requirements applicable to occupants set forth in Section 66.0707 of this Division.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

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§66.0709 Delivery of Recyclable Materials to Recycling Facility

Franchisees and Recyclable Materials Collectors who collect recyclable materials generated within the City shall deliver those recyclable materials to a recycling facility. Persons who self-haul recyclable materials must deliver those recyclable materials to a recycling facility. The recycling facility may be located at a landfill, but recyclable materials generated within the City shall not be delivered to a landfill or other site for disposal.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

§66.0710 Recycling Containers

- (a) Container Signage. Automatic lift containers, bins, roll-offs, and other containers provided by *Franchisees and Recyclable Materials Collectors to collect and store recyclable materials pending collection* shall be clearly identified as a *recyclable materials* container, shall display the name and phone number of the *Franchisee or Recyclable Materials Collector* to whom the container belongs, and shall display a list of the *recyclable materials* which may be deposited into the container.
- (b) Container Features. Automatic lift containers, bins, roll-offs, and other containers used to *collect and store recyclable materials pending collection* shall be equipped with close-fitting lids and be leak-proof and rodent-proof.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

§66.0711 Annual Reports from Franchisees and Recyclable Materials Collectors

- (a) *Franchisees and Certified Recyclable Materials Collectors* shall submit an annual report by August 15 of each year, beginning August 15, 2008, to the *Department*, on a form or using a format prescribed by the *Director*. Annual reports shall include the following information for each facility serviced within the City for the period June 30 through July 1 of the immediately preceding twelve month period:
 - (1) The name of the *person(s)* responsible for *solid waste* and/or *recyclable materials* management at the facility serviced;
 - (2) The name and address of the facility serviced;
 - (3) The volume in cubic yards or gallons, measured by the size of the applicable containers in use at the facility, of *solid waste* and *recyclable materials collected* per week from the facility;

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- (4) The frequency of *solid waste* and *recyclable materials collection* service provided to the facility; and
 - (5) Additional information as required by the *Director*.
- (b) *Franchisees and Recyclable Materials Collectors* also shall include in the annual reports for the time period specified in section 66.0711(a) the following information:
- (1) The total amount of *recyclable materials*, measured in tons, *collected* by the *Franchisee* or *Recyclable Materials Collector* within the City; and
 - (2) The names and addresses of the *recycling facilities* to which the *recyclable materials collected* within the City were delivered for *recycling*.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

§66.0712 Special Events Recycling

- (a) For a community special event requiring an event permit from the City of San Diego, the *responsible person* shall provide *recycling* receptacles throughout the event venue, effective beginning on the 90th day after the date of final passage of the ordinance adopting this Division.
- (b) The number of *recycling* receptacles shall equal the number of *solid waste* receptacles.
- (c) The *solid waste* and *recycling* receptacles shall be placed next to one another throughout the event venue.
- (d) The types of *recyclable materials* suitable for deposit into each *recycling* receptacle shall include, at a minimum, aluminum and metal cans, and glass and plastic bottles and jars.
- (e) Each *recycling* receptacle shall be clearly identified as a *recycling* receptacle and shall display a list of the types of *recyclable materials* which may be deposited into the *recycling* receptacle.
- (f) The *responsible person* shall ensure that the *recyclable materials* deposited into the *recycling* receptacles are delivered to a *recycling facility*. The *recycling facility* may be located at a landfill, but *recyclable materials* shall not be delivered to a landfill for *disposal*.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

§66.0713 Exemptions

- (a) Six cubic yard exemption. *Multi-family residential facilities, commercial facilities, and mixed use facilities* which generate 6 cubic yards or less per week of *solid waste*, including *recyclable materials* mixed with *solid waste*, are exempt from the requirements of this Division. The 6 cubic yard threshold may be decreased at the discretion of the City Manager effective 90 days after the City has notified the public thereof by placing a display advertisement of at least one-eighth page in a newspaper of general daily circulation within the City and posting a notice on the *Department's* website.
- (b) Other Exemptions. Other exemptions to some or all of the requirements of this Division may be granted at the discretion of the *Director's* designee. Applications for exemptions may be granted upon consideration of the following factors: available markets for *recyclable materials*, available space for *recycling* containers, alternative *recycling* efforts, and the amount and type of *solid waste* or *recyclable materials* generated. To be effective, an exemption must be in writing and signed by the *Director's* designee. An exemption may be revoked at any time at the discretion of the *Director's* designee if one or more of the factors justifying the exemption no longer exist, or other change in circumstances warrant revocation. Unless earlier revoked, an exemption shall be effective for a period of one year from the date it was granted. Subsequent applications for exemptions may be granted at the discretion of the *Director's* designee upon consideration of the factors listed in this section 66.0713(b).
- (c) Application for Exemption. Applications for an exemption shall be submitted to the *Department* in writing, on a form approved by the *Director*, together with a cost-recovery processing fee. The processing fee shall be reviewed annually by the City Manager and adjusted accordingly to ensure full cost-recovery for processing the application for exemption.
- (d) If the *Director's* designee denies an application for an exemption, the *Director's* designee shall notify the applicant in writing of the reasons for the denial. The denial of an application for an exemption or the revocation of an exemption may be appealed to the *Director*, whose decision shall be final.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

(11-2007)

§66.0714 Certified Recyclable Materials Collector

- (a) *Certified Recyclables Materials Collector.* A *Recyclable Materials Collector* may apply to the *Director* to become a *Certified Recyclable Materials Collector*. The certification will be valid for no more than two years after the date it is issued by the *Director*. The *Director* shall maintain a current list of *Certified Recyclable Materials Collectors* on the *Department's* website and in other educational materials published by the *Department*.
- (b) **Application Form and Fee.** Applicants for a *recyclable materials collector* certificate shall complete and submit to the *Director* a written application, on a form approved by the *Director*, together with a cost-recovery processing fee. The processing fee shall be reviewed annually by the City Manager and adjusted accordingly to ensure full cost-recovery for processing the application for certification. The application shall include, at a minimum, all of the following:
- (1) name, address, and telephone number of the applicant;
 - (2) name, address, and telephone number of an individual contact for the applicant;
 - (3) description of each vehicle the applicant will use to provide *recyclable materials collection* services within the City including, but not limited to make, model, serial or vehicle identification number, and license number;
 - (4) address where all vehicles and operating equipment used to provide *recyclable materials collection* services within the City will be stored and maintained;
 - (5) the applicant's agreement to defend, with counsel to be agreed upon by both parties, indemnify, and hold harmless, City and its agents, officers, servants, and employees from and against any and all claims asserted or liability established for damages or injuries to any person or property, including injury to City's employees, agents, or officers which arise from, or are connected with, or are caused or claimed to be caused by acts or omissions of the applicant, or its agents, officers or employees, in the performance of the *recyclable materials collection* services, and all costs and expenses of investigating and defending against same; provided, however, that the applicant's duty to indemnify and hold harmless shall not include any claims or liability arising from the established active negligence, sole negligence, or sole willful misconduct of the City, its agents, officers, or employees;

- (6) without limiting the indemnification obligation above, the applicant's agreement to obtain and maintain in full force and effect throughout the term of the *recyclable materials collector* certificate, and any extensions or modifications thereof, insurance coverage which meets or exceeds the requirements established by the *Director*; and
- (7) A written statement certifying that the applicant has reviewed and will comply with the requirements of this Division and in the certificate.
- (c) Insurance. The *Director*, in consultation with the City's Risk Management Department, shall establish minimum reasonable insurance requirements for *Certified Recyclable Materials Collectors*. Simultaneously with the submittal of its application, the applicant shall furnish proof satisfactory to the *Director* that the applicant has obtained the required insurance coverage. Annually on each anniversary of the issuance of the certificate, the applicant shall furnish proof satisfactory to the *Director* that the applicant maintains at least the minimum required insurance coverage.
- (d) Vehicles and Equipment. All vehicles, containers, and other equipment used to provide the *recyclable materials collection* services shall be kept in a clean and well-maintained condition.
- (e) Container Signage. Automatic lift containers, bins, roll-offs, and other containers used to *collect* and store *recyclable materials* pending *collection* shall be clearly identified as a *recyclable materials* container, shall display the name and phone number of the *Certified Recyclable Materials Collector* to whom the container belongs, and shall display a list of the *recyclable materials* which may be deposited into the container.
- (f) Container Features. Automatic lift containers, bins, roll-offs, and other containers used to *collect* and store *recyclable materials* pending *collection* shall be equipped with close-fitting lids and be leak-proof and rodent-proof.
- (g) Compliance with Law. *Certified Recyclable Materials Collectors* shall conduct all of their activities in compliance with all applicable federal, state, and local laws, regulations, ordinances, and requirements and shall be responsible for obtaining all applicable permits, licenses, certifications, and registrations.
- (h) Application Verification. The *Director* may independently verify any and all statements made or implied in the application or any accompanying documents. The *Director* may also request clarification from the applicant of any such statements or information.

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- (i) Application Review. In reviewing each application, the *Director* shall take into consideration all components of the application including, but not limited to:
- (1) the ability of the applicant to meet the requirements of this Division and the certificate;
 - (2) any history of criminal or civil violations that may compromise the public's interest; and
 - (3) the completeness, accuracy, and validity of the application.
- (j) Application Determination. After a reasonable review period, the *Director* shall grant or deny the application. If the *Director* fails to grant an application after thirty days from the receipt of a complete application, including accompanying documentation, the applicant may at the applicant's option deem the application denied. If the *Director* denies an application, the *Director* shall notify the applicant in writing of the reasons for the denial.
- (k) Certificate Revocation. The *Director* may revoke a certificate if the *Director* determines, after providing notice and an opportunity for a hearing, that a *Certified Recyclable Materials Collector* has violated the provisions in the certificate or any applicable law. If the *Director* revokes a certificate, the *Director* shall notify the applicant in writing of the reasons for the revocation.
- (l) Appeal Upon Denial of Application or Revocation of Certificate. Within thirty days after the issuance of a written notice of the denial of an application or the revocation of a certificate, the applicant or *Certified Recyclable Materials Collector* may request in writing to the *Director* that the City Manager review the *Director's* decision. Within thirty days of the Department's receipt of such a request, a meeting with the City Manager or designee shall be scheduled to review the items cited in the written notice. At that meeting, the applicant or *Certified Recyclable Materials Collector* may provide any additional information in support of their position. Within thirty days of such a meeting, the City Manager will issue a written decision on the application or revocation, which shall include the reasons for the decision. The City Manager's decision shall be final. A copy of the City Manager's written decision shall be provided to the applicant or *Certified Recyclable Materials Collector* and the *Director*.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

(11-2007)

§66.0715 Self-Haul and Use of Non-Certified Recyclable Materials Collector

- (a) Nothing in this Division shall preclude any *person* from *self-hauling recyclable materials* generated by that *person* to a *recycling* facility.
- (b) The *responsible person* for a multi-family *residential facility, commercial facility, mixed use facility*, or association or organization described in section 66.0706(b), which *self-hauls solid waste* to a *disposal* facility shall comply with the *recycling* requirements in this Division applicable to that multi-family *residential facility, commercial facility, mixed use facility*, or association or organization described in section 66.0706(b).
- (c) Except for occupants of single family *residential facilities*, a *person* who *self-hauls solid waste* to a *disposal* facility and/or *self-hauls recyclable materials* to a *recycling* facility shall comply with the reporting requirements set forth in section 66.0711(a).
- (d) Except for occupants of single family *residential facilities*, a *person* who uses the services of a *recyclable materials collector*, which is neither a *Franchisee* nor a *Certified Recyclable Materials Collector*, to collect, transport, and deliver *recyclable materials* generated by that *person* to a *recycling* facility, shall comply with the reporting requirements set forth in section 66.0711(a).

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

§66.0716 Selling or Donating Recyclable Materials

Nothing in this Division shall preclude any *person* from selling or exchanging at fair market value, for reuse or *recycling*, source-separated *recyclable materials* generated by that *person* or from donating to another entity, for reuse or *recycling*, source-separated *recyclable materials* generated by that *person*.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

§66.0717 Scavenging of Recyclable Materials Prohibited

- (a) No *person* other than the *person* under contract with the generator of the *recyclable materials* to collect the *recyclable materials*, shall remove or otherwise interfere with *recyclable materials* which have been placed at a designated *recycling* or *recyclable materials collection* location.

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- (b) No *person* shall be guilty of a violation of this section 66.0717 unless the *person* knew or reasonably should have known that the *recyclable materials* were set out for purposes of *collection* by another *person* authorized to *collect* the *recyclable materials*.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

§66.0718 Enforcement

- (a) Authority. The *Director* is authorized to administer and enforce the provisions of Chapter 6, Article 6, Division 7 of this Code. The *Director* or anyone designated by the *Director* to be an *enforcement official* may exercise any enforcement powers as provided in Chapter 1 of this Code.
- (b) Remedies. It is unlawful to violate any provision or requirement of Division 7. The failure to comply with any requirement of Division 7 constitutes a violation of Division 7. Each instance of a violation of Division 7 is a separate offense. Violations of the provisions or requirements of Division 7 may be prosecuted as misdemeanors subject to the penalties provided in section 12.0201 of this Code. The *Director* or designee may seek injunctive relief or civil penalties in the Superior Court pursuant to section 12.0202 of this Code or may pursue any administrative remedy provided in Chapter 1, Article 2, Divisions 3 through 10 inclusive, of this Code.
- (c) Remedies Cumulative. Remedies under section 66.0718 are in addition to and do not supersede or limit any and all other remedies, civil or criminal. The remedies provided for herein shall be cumulative and not exclusive.
- (d) Strict liability. Except as otherwise set forth in section 66.0717, violations of Division 7 shall be treated as strict liability offenses regardless of intent.

(Added 11-20-2007 by O-19678 N.S.; effective 12-20-2007.)

**Appendix IV - San Diego Municipal Code: Refuse and
Recyclable Materials Storage Regulations**

Article 2: General Development Regulations

Division 8: Refuse and Recyclable Materials Storage Regulations

(Added 12-9-1997 by O-18451 N.S.; effective 1-1-2000.)

§142.0801 Purpose of Refuse and Recyclable Materials Storage Regulations

The purpose of these regulations is to provide permanent, adequate, and convenient space for the storage and collection of refuse and *recyclable material*. The intent of these regulations is to encourage recycling of solid waste to reduce the amount of waste material entering landfills and to meet the recycling goals established by the City Council and mandated by the state of California.

(Added 12-9-1997 by O-18451 N.S.; effective 1-1-2000.)

§142.0805 When Refuse and Recyclable Materials Storage Regulations Apply

Refuse and recyclable materials storage shall be provided for the following types of *development* as indicated in Table 142-08A:

- (a) New residential *development* projects involving two or more *dwelling units*,
- (b) New nonresidential *development*, or
- (c) Additions to existing *multiple dwelling unit* residential, commercial or industrial *development* where the *gross floor area* would be increased by 30 percent or more.

**Table 142-08A
Refuse and Recyclable Material Storage Regulations
Applicability**

Type of <i>Development</i> Proposal	Applicable Regulations	Required Permit Type/Decision Process
<i>Development- of a single dwelling unit</i>	Exempt from this division	Exempt from this division
New residential <i>development</i> involving two or more <i>dwelling units</i>	Sections 142.0810 and 142.0820	No permit required by this division
<i>New nonresidential development</i>	Sections 142.0810 and 142.0830	No permit required by this division
Additions to existing <i>multiple dwelling unit</i> residential, commercial, or industrial <i>development</i> where the <i>gross floor area</i> would be increased by 30 percent or more	Sections 142.0810, 142.0820 and 142.0830	No permit required by this division

(Added 12-9-1997 by O-18451 N.S.; effective 1-1-2000.)

(Amended 11-13-08 by O-19799 N.S; effective 12-13-2008.)

§142.0810 General Regulations for Refuse and Recyclable Material Storage

New residential *development* as indicated in Section 142.0805 shall provide on-site areas for the storage of refuse and *recyclable material* that meet the following standards:

- (a) **Size of Material Storage Areas.** The size of required material storage areas shall meet or exceed the minimum requirements in Tables 142-08B and 142-08C.
- (b) **Location of Material Storage Areas**
 - (1) Material storage areas may be located in a designated interior area that is not in a *dwelling unit*.

- (2) Material storage areas may be located outside a *structure* in required rear *yards* or in required side *yards*. Exterior material storage areas shall not be located in any front *yard*, street side yard, *street yard* area, parking area, landscaped area, or any other area required by the Municipal Code to be constructed or maintained unencumbered according to fire or other applicable building or public safety laws.
 - (3) Material storage areas shall be accessible to occupants and haulers.
 - (4) *Premises* served by an *alley* shall provide material storage areas that are directly accessible from the *alley*.
 - (5) One *sign* identifying the material storage area is required for each area and shall be posted on the exterior of the material storage area near the point of access. The maximum *sign copy area* permitted for each *sign* shall be one square foot.
 - (6) For commercial *development* on *premises* not served by an *alley*, material storage areas shall be located at least 25 feet from any *street* or sidewalk.
- (c) *Screening* of Material Storage Areas. Material storage areas located outside any *structure* shall be *screened* with a minimum 6-foot-high solid *screening* enclosure that is designed to be architecturally consistent with the primary *structure*. Refuse, *recyclable material*, and material storage containers shall not exceed the height of the solid *screening* enclosure.

(Added 12-9-1997 by O-18451 N.S.; effective 1-1-2000.)
(Amended 11-28-2005 by O-19444 N.S.; effective 2-9-2006.)
(Amended 11-13-08 by O-19799 N.S; effective 12-13-2008.)

§142.0820 Refuse and Recyclable Materials Storage Regulations for Residential Development

Applicable residential *development* in accordance with Section 142.0805, shall provide interior and exterior refuse and recycling storage areas as specified below:

- (a) Interior Refuse and *Recyclable Material* Storage. Each *dwelling unit* shall be equipped with an interior refuse and *recyclable material* storage area.
- (b) Exterior Refuse and *Recyclable Material* Storage. Each *structure* that contains *dwelling units* shall provide at least one exterior storage area. The total storage areas requirement is based on the number of *dwelling units* in the *development* as shown in Table 142-08B and includes the sum of all residential material storage areas located outside of individual *dwelling units*.

**Table 142-08B
Minimum Exterior Refuse and
Recyclable Material Storage Areas for
Residential Development**

Number of Dwelling Units Per Development	Minimum Refuse Storage Area Per Development (Square Feet)	Minimum <i>Recyclable Material</i> Storage Area Per Development (Square Feet)	Total Minimum Storage Area Per Development (Square Feet)
2-6	12	12	24
7-15	24	24	48
16-25	48	48	96
26-50	96	96	192
51-75	144	144	288
76-100	192	192	384
101-125	240	240	480
126-150	288	288	576
151-175	336	336	672
176-200	384	384	768
201+	384 plus 48 square feet for every 25 dwelling units above 201	384 plus 48 square feet for every 25 dwelling units above 201	768 plus 96 square feet for every 25 dwelling units above 201

(Added 12-9-1997 by O-18451 N.S.; effective 1-1-2000.)
(Amended 3-1-2006 by O-19468 N.S.; effective 4-1-2006.)
(Amended 11-13-08 by O-19799 N.S; effective 12-13-2008.)

§142.0830 Refuse and Recyclable Material Storage Regulations for Nonresidential Development

- (a) All new nonresidential *development*, or additions to existing commercial or industrial *development* where the *gross floor area* would be increased by 30 percent or more, shall provide at least one exterior refuse and *recyclable material* storage area for each building. The total storage area requirement is based on the *gross floor area* of the nonresidential buildings on the *premises*, as shown in Table 142-08C and includes the sum of all nonresidential refuse and recyclable material storage areas.
- (b) Where a *development* includes residential as part of a mixed use project, the *development* shall provide refuse and *recyclable material* storage for the residential portion of the project in accordance with Table 142-08B, in addition to the storage areas required by Table 142-08C for the nonresidential *development*.

**Table 142-08C
Minimum Exterior Refuse and Recyclable Material Storage Areas
for Nonresidential Development**

Gross Floor Area Per Development (Square Feet)	Minimum Refuse Storage Area Per Development (Square Feet)	Minimum <i>Recyclable Material</i> Storage Area Per Development (Square Feet)	Total Minimum Area Per Development (Square Feet)
0-5,000	12	12	24
5,000-10,000	24	24	48
10,001-25,000	48	48	96
25,001-50,000	96	96	192
50,001-75,000	144	144	244
75,001-100,000	192	192	384
100,001+	192 plus 48 square feet for every 25,000 square feet of building area above 100,001	192 plus 48 square feet for every 25,000 square feet of building area above 100,001	384 plus 96 square feet for every 25,000 square feet of building area above 100,001

(Added 12-9-1997 by O-18451 N.S.; effective 1-1-2000.)
(Amended 11-13-08 by O-19799 N.S; effective 12-13-2008.)

Appendix V - Review Comments and Applicant Responses

Julia Rochford

From: Wood, Lisa <LFWood@sandiego.gov>
Sent: Wednesday, October 17, 2012 10:55 AM
To: Julia Rochford
Cc: Peterson, Jeff; Shearer-Nguyen, Elizabeth; Shawn Shamlou; Skyler.X.Denniston@kp.org; John D. Leppert; Nguyen, James
Subject: RE: Kaiser Hospital WMP (PTS# 274240)

Nice work, Julia. Just a couple of minor points:

1) Allan Company is misspelled (as Allen Company, but should be Allan Company) throughout the document (e.g., pp. 11, 15, 17 and 27).

2) Reference to City Recycling Ordinance on page 22. One point to clarify is that beginning July 1, 2011, privately serviced commercial and institutional properties must also recycle rigid plastics including, but not limited to, clean food waste containers, jugs, tubs, trays, pots, buckets, and toys.

We look forward to working with Kaiser through development of the facility, and during operation of it as well to ensure that wastes are properly managed. We appreciate the advanced thought the project proponents have given to solid waste management.

Thank you.

Lisa

From: Julia Rochford [<mailto:julia@leppertengineering.com>]
Sent: Tuesday, October 02, 2012 9:00 AM
To: Wood, Lisa
Cc: Peterson, Jeff; Shearer-Nguyen, Elizabeth; Shawn Shamlou; Skyler.X.Denniston@kp.org; John D. Leppert
Subject: Kaiser Hospital WMP (PTS# 274240)

Good morning Lisa,

I hope you are having a great week so far!

Please consider this email to be our initial submittal of the Waste Management Plan for the proposed Kaiser Hospital project in Kearny Mesa (PTS# 274240).

If you have any questions, or if you require any additional information to facilitate the review and approval of this WMP, please do not hesitate to contact me.

Best Regards,

Julia

Julia Rochford

Leppert Engineering Corporation

5190 Governor Drive, Suite 205

San Diego, California 92122

(858)597-2001 work . (858)597-2009 fax

julia@leppertengineering.com

Julia Rochford

From: Wood, Lisa <LFWood@sandiego.gov>
Sent: Monday, December 03, 2012 10:46 AM
To: Shearer-Nguyen, Elizabeth
Cc: Julia Rochford
Subject: RE: Kasier - Waste Management Plan

Julia sent it to me, and the requested corrections have been made. The plan is approved.

-----Original Message-----

From: Shearer-Nguyen, Elizabeth
Sent: Monday, December 03, 2012 9:04 AM
To: Wood, Lisa
Subject: RE: Kasier - Waste Management Plan

I wanted to make sure that all revisions had been made and that you had officially signed off.

ELIZABETH SHEARER-NGUYEN / SENIOR PLANNER City of San Diego / Development Services Department / Environmental Analysis Section
1222 First Avenue, MS 501 / San Diego, CA / 92101 / Phone: 619.446.5369 / Fax: 619.446.5499

Please Note: Work hours are M-F 6am to 230pm.

-----Original Message-----

From: Wood, Lisa
Sent: Monday, December 03, 2012 9:04 AM
To: Nguyen, James
Cc: Shearer-Nguyen, Elizabeth
Subject: FW: Kasier - Waste Management Plan

James: I provided a few minor corrections on the 10/17, and I have nothing since. Did I miss anything?

Lisa

-----Original Message-----

From: Shearer-Nguyen, Elizabeth
Sent: Saturday, December 01, 2012 4:12 PM
To: Wood, Lisa
Cc: Peterson, Jeff; sshamlou@dudek.com
Subject: Kasier - Waste Management Plan

Hi Lisa,

I cannot seem to locate an documentation that provides wither sign-off and/or direction to make revisions on the waste management plan for the above referenced project. The last e-mail was on 10/17/2012 requesting Leppert Engineering to make some revisions. Any guidance fro you would be appricated. Thank you!

Elizabeth Shearer-Nguyen / Associate Planner City of San Diego / Development Services Department / Environmental Analysis Section
1222 First Avenue, MS 501 / San Diego, CA / 92101 / Phone: 619.446.5369 / Fax: 619.446.5499

Please Note: Work hours are M-F 6am to 230pm.

APPENDIX N
Negative Cultural Resources Survey Report

**NEGATIVE CULTURAL RESOURCES
SURVEY REPORT FOR THE
KAISER PERMANENTE SAN DIEGO
CENTRAL MEDICAL CENTER PROJECT,
SAN DIEGO COUNTY, CALIFORNIA**

Dudek Project No. 7372

Prepared for:

Skyler Denniston, Land Use Manager
Kaiser Permanente
Annandale I
825 Colorado Blvd., Suite No. 222
Los Angeles, California 90041

Submitted to:

City of San Diego
Development Services Department
Land Development Review Division
1222 First Avenue
San Diego, California 92101

Prepared by :

Adam Giacinto, MA, RPA
and
Micah Hale, Ph.D, RPA

DUDEK

605 Third Street
Encinitas, California 92024

August 2012

Type of Study: Negative Cultural Resource Survey

USGS Quadrangle: La Mesa, CA 7.5', T15S, R2W, Section 30 **Area:** 20 acres,

Key Words: Negative Survey, Kaiser Permanente, City of San Diego, Kearny Mesa

Negative Cultural Resources Survey Report for the Kaiser Permanente San Diego KP Central Medical Center Project

INTRODUCTION

This letter documents the cultural resources inventory conducted by Dudek on August 7, 2012 for the Kaiser Permanente San Diego KP Central Medical Center project, located southeast of the intersection of Clairemont Mesa Boulevard and Ruffin Road within the community of Kearny Mesa, City of San Diego, California (APN 369-121-14) (Figure 1). Kaiser Foundation Hospitals, a California nonprofit public benefit corporation (Kaiser) proposes the development of a medical center project on approximately 20 acres in the Kearny Mesa planning area within the City of San Diego. The current cultural resources investigation was conducted by Dudek in accordance with the standards and guidelines defined under the California Environmental Quality Act (CEQA). No cultural resources were observed within the proposed project boundaries.

PROJECT DESCRIPTION

The project is located at the southeastern intersection of Ruffin Road and Clairemont Mesa Boulevard. The Area of Potential Effects (APE) consists of a well-established urban environment, with only one small strip of partially undeveloped land extending approximately 1,000 feet west from Murphy Canyon Road along the southern side of Clairemont Mesa Boulevard (Figure 2). This area was the principal focus of the intensive pedestrian cultural survey conducted by Dudek, as it falls within the project footprint for planned road improvements.

REGULATORY FRAMEWORK

CEQA requires that all private and public activities not specifically exempted be evaluated for the potential to impact the environment, including effects to historical resources. Historical resources are recognized as part of the environment under CEQA. It defines historical resources as “any object, building, structure, site, area, or place, which is historically significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California” (Division I, Public Resources Code, Section 5021.1(b)).

Lead agencies have a responsibility to evaluate historical resources against the California Register criteria prior to making a finding as to a proposed project’s impacts to historical resources. Mitigation of adverse impacts is required if the proposed project will cause substantial adverse change. Substantial adverse change includes demolition, destruction, relocation, or alteration such that the significance of an historical resource would be impaired. While demolition and destruction are fairly obvious significant impacts, it is more difficult to assess when change, alteration, or relocation crosses the threshold of substantial adverse change. The CEQA Guidelines provide that a project that demolishes or alters those physical characteristics

Negative Cultural Resources Survey Report for the Kaiser Permanente San Diego KP Central Medical Center Project

of an historical resource that convey its historical significance (i.e., its character-defining features) can be considered to materially impair the resource's significance.

The California Register is used in the consideration of historic resources relative to significance for purposes of CEQA. The California Register includes resources listed in, or formally determined eligible for some California State Landmarks and Points of Historical Interest. Properties of local significance that have been designated under a local preservation ordinance (local landmarks or landmark districts), or that have been identified in a local historical resources inventory may be eligible for listing in the California Register and are presumed to be significant resources for purposes of CEQA unless a preponderance of evidence indicates otherwise.

Generally, a resource shall be considered by the lead agency to be "historically significant" if the resource meets the criteria for listing on the California Register of Historical Resources (Pub. Res. Code SS5024.1, Title 14 CCR, Section 4852) consisting of the following:

- 1) It is associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States; or
- 2) It is associated with the lives of persons important to local, California, or national history;
or
- 3) It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master, or possesses high artistic values; or
- 4) It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

METHODS

Records Search

Staff of the South Coastal Information Center (SCIC) conducted a records search for a 1-mile area within and surrounding the project area (Confidential Appendix A). No previously recorded cultural resources were identified within the project area. Ten historical period and prehistoric cultural resources have been recorded within one mile. In addition, a total of 11 previous cultural resource studies have included the project area, and 54 studies have been conducted within one mile.

The Native American Heritage Commission (NAHC) was contacted regarding the presence of any Sacred Lands. NAHC records indicated no previously identified sacred lands or areas of cultural importance within the 1-mile search buffer.

Negative Cultural Resources Survey Report for the Kaiser Permanente San Diego KP Central Medical Center Project

Intensive Pedestrian Survey

A local Native American monitor, provided through Red Tail Monitoring, was present for the length of the field investigation. The intensive pedestrian survey was conducted using standard archaeological procedures and techniques that meet the Secretary of Interior's standards and guidelines for cultural resources inventory. Continuous parallel transects spaced no more than 15 meters apart were walked where the soil was exposed within the project survey area. Survey conditions in these areas were good to fair, with approximately two-thirds of the ground directly observable through the native and ornamental vegetation. In areas with dense ground cover, the survey methodology was adjusted to focus on the most exposed areas. All areas within the proposed project APE have been substantially disturbed by past construction of roads surrounding the project area, buildings, and by drainage control infrastructure. No artifacts or features were identified during this survey.

Built Environment Resources

At least one historic building, the San Diego County administrative building, has been identified within the project area; it is being evaluated for historical significance by the County of San Diego.

SUMMARY AND MANAGEMENT CONSIDERATIONS

Archaeological Sensitivity and Mitigation Measures

Dudek's review of the previous cultural resources investigations near the project area indicates that there is very low potential for the inadvertent discovery of cultural resources during ground breaking activities. No cultural resources were observed during intensive pedestrian survey of the area. Based on these observations, it is recommended that cultural monitoring is unnecessary during future ground disturbing activities associated with the current proposed project.

ATTACHMENTS

Figure 1. Project vicinity map.

Figure 2. Project location map.

National Archaeological Database Information Sheet

Appendix A: Confidential records search and NAHC correspondence

Negative Cultural Resources Survey Report for the Kaiser Permanente San Diego KP Central Medical Center Project

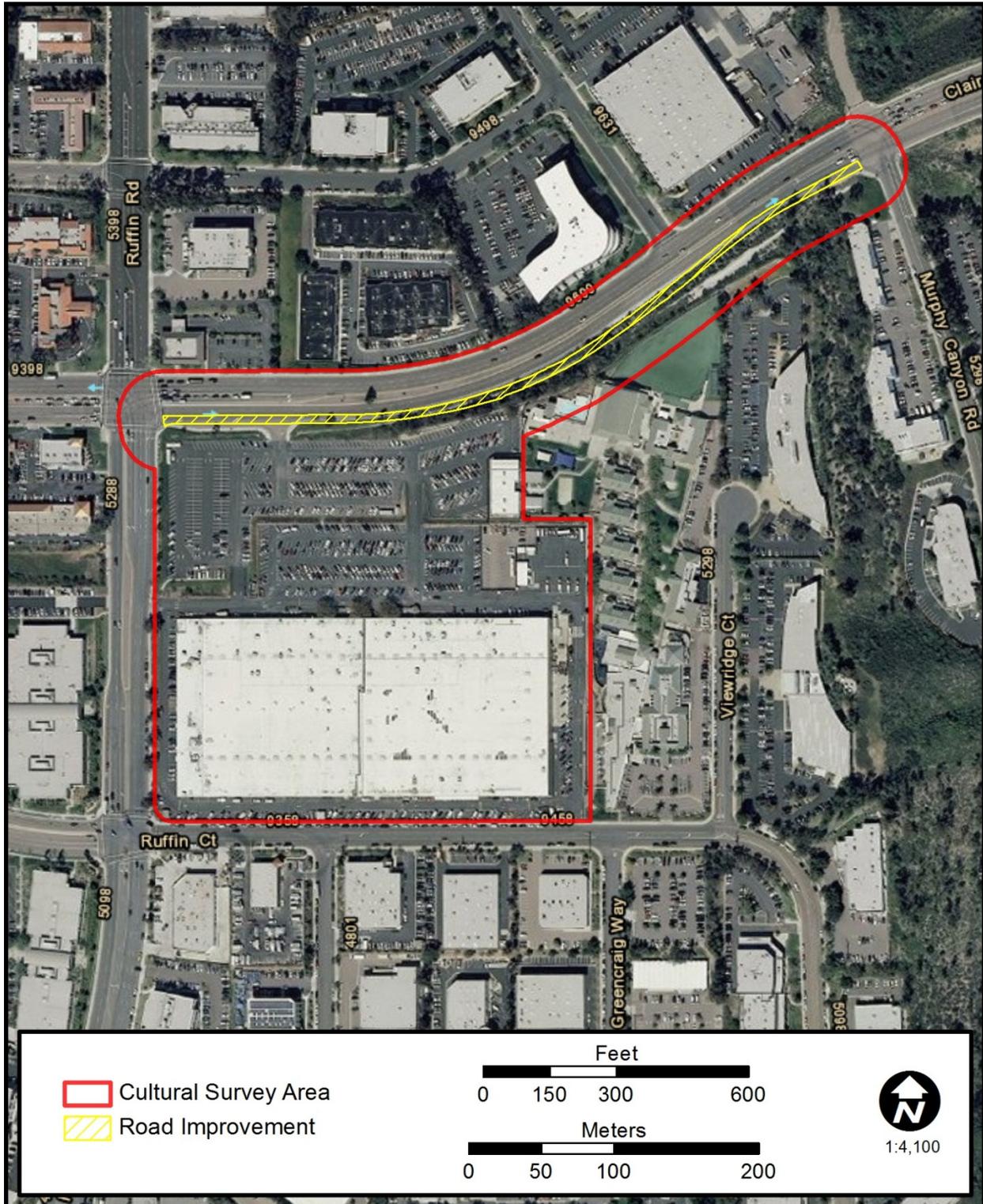


Figure 2. Cultural resources pedestrian survey area

Negative Cultural Resources Survey Report for the Kaiser Permanente San Diego KP Central Medical Center Project

NATIONAL ARCHAEOLOGICAL DATABASE (NADB) INFORMATION

Authors: Adam Giacinto, MA, RPA and Micah Hale, PhD, RPA

Firm: Dudek

Project Proponent: Skyler Denniston, Kaiser Permanente

Report Date: August 2012

Report Title: Cultural Resources Inventory for the Kaiser Permanente San Diego Central Medical Center Project, San Diego County, California

Type of Study: Archaeological Inventory

Resources: None

USGS Quads: La Mesa, CA, Township 15 South, Range 2 West, Section 30

Acreage: 20

Permit Numbers: Conditional Use Permit, Planned Development Permit (Numbers not available at this time)

Keywords: Cultural Resources Inventory, Historic Built Environment, San Diego County Administrative Building, Pedestrian Survey, Negative

APPENDIX A (CONFIDENTIAL RECORDS SEARCH)



South Coastal Information Center
 4283 El Cajon Boulevard, Suite 250
 San Diego, CA, 92105-1254
 (619) 594-5682
 nick@scic.org



1:100,000

Historic Roads 1769-1885

0 1 Mile

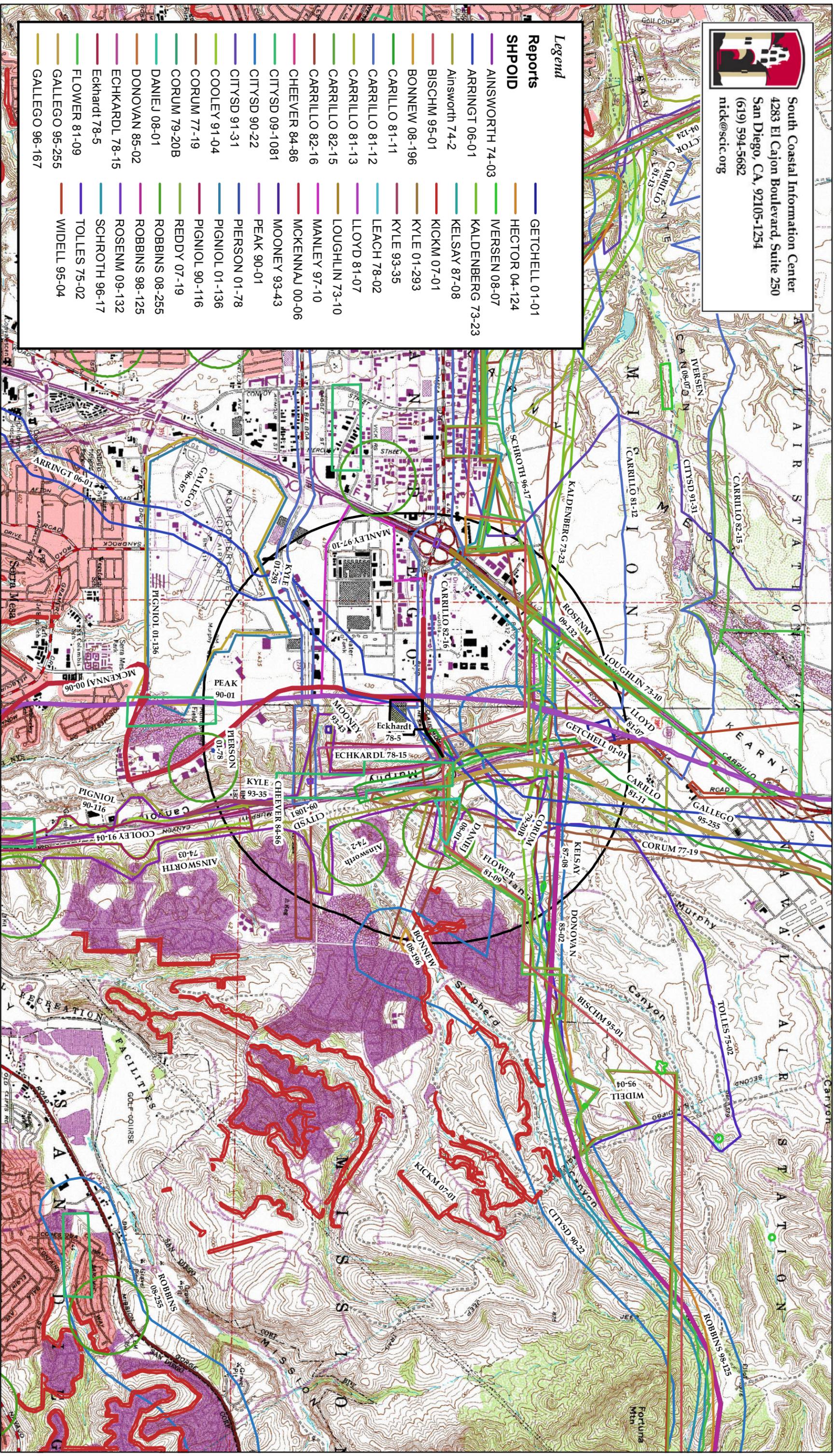
Nick Doose, Jul 12, 2012





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 4283 El Cajon Boulevard, Suite 250
 San Diego, CA, 92105-1254
 (619) 594-5682
 nick@scic.org

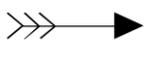
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ARRINGT 06-01	VERSEN 08-07
Ainsworth 74-2	KALDENBERG 73-23
BISCHM 95-01	KELSAY 87-08
BONNEW 08-196	KICKM 07-01
CARRILLO 81-11	KYLE 01-293
CARRILLO 81-12	KYLE 93-35
CARRILLO 81-13	LEACH 78-02
CARRILLO 82-15	LLOYD 81-07
CARRILLO 82-16	LOUGHLIN 73-10
CHEEVER 84-86	MANLEY 97-10
CITYSD 09-1081	MCKENNAJ 00-06
CITYSD 90-22	MOONEY 93-43
CITYSD 91-31	PEAK 90-01
COOLEY 91-04	PERSON 01-78
CORUM 77-19	PIGNIOL 01-136
CORUM 79-20B	PIGNIOL 90-116
DANIEJ 08-01	REDDY 07-19
DONOVAN 85-02	ROBBINS 08-255
ECHKARDL 78-15	ROBBINS 98-125
Eckhardt 78-5	ROSENEM 09-132
FLOWER 81-09	SCHROTH 96-17
GALLEGO 95-255	TOLLES 75-02
GALLEGO 96-167	WIDELL 95-04



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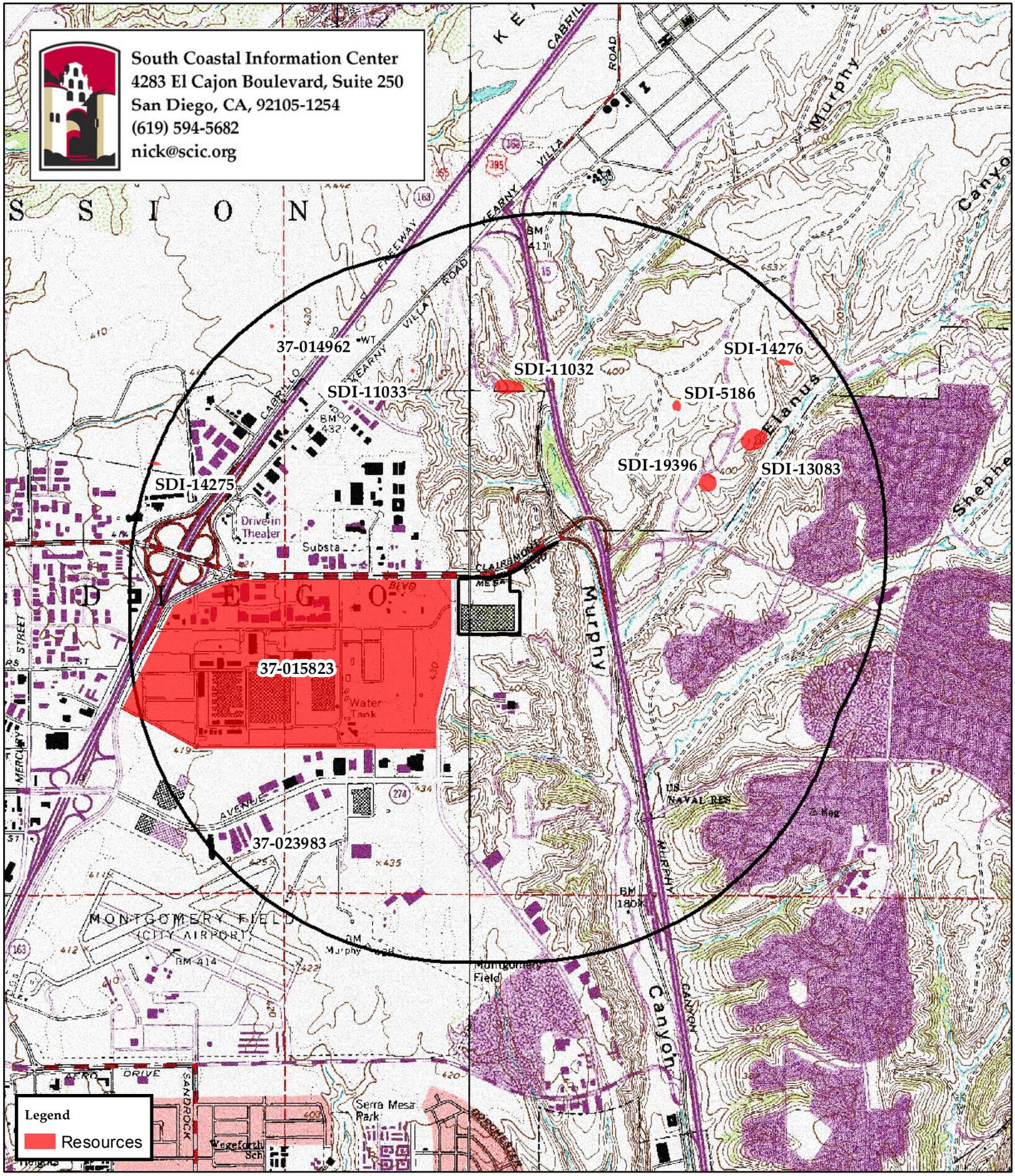


Reports





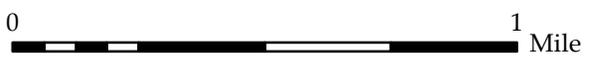
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 (619) 594-5682
 nick@scic.org



Legend
 Resources

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Historical Resources with Primary and Trinomial Designations



USGS 7.5 Minute Series Topographic Map
 La Jollas and La Mesa Quadrangle

Nick Doose, Jul 12, 2012





South Coastal Information Center
4283 El Cajon Blvd., Suite 250
San Diego, CA 92105
Office: (619) 594-5682
Fax: (619) 594-4483
www.scic.org
nick@scic.org

CALIFORNIA HISTORICAL RESOURCES INFORMATION SYSTEM RECORDS SEARCH

Company: DUDEK
Company Representative: Dr. Micah Hale
Date Processed: 7/12/2012
Project Identification: Kaiser Hospital Project

Search Radius: 1 mile

Historical Resources: ND

Trinomial and Primary site maps have been reviewed. All sites within the project boundaries and the specified radius of the project area have been plotted. Copies of the site record forms have been included for all recorded sites.

Previous Survey Report Boundaries: ND

Project boundary maps have been reviewed. National Archaeological Database (NADB) citations for reports within the project boundaries and within the specified radius of the project area have been included.

Historic Addresses: ND

A map and database of historic properties (formerly Geofinder) has been included.

Historic Maps: ND

The historic maps on file at the South Coastal Information Center have been reviewed, and copies have been included.

Summary of SHRC Approved CHRIS IC Records Search Elements	
RSID:	447
RUSH:	no
Hours:	1
Spatial Features:	64
Address-Mapped Shapes:	no
Digital Database Records:	0
Quads:	2
Aerial Photos:	0
PDFs:	Yes
PDF Pages:	97



South Coastal Information Center
 4283 El Cajon Boulevard, Suite 250
 San Diego, CA, 92105-1254
 (619) 594-5682
 nick@scic.org



OFFICIAL MAP
 THE WESTERN PORTION
SAN DIEGO COUNTY
 CALIFORNIA.
 MADE UNDER DIRECTION OF THE BOARD OF SUPERVISORS
 A.D. 1872.
 BY MCWHEELER CO. SURVEYS.
 ASSISTED BY EGGELAND DEW
 T. L. LORING
 Draftsman

Notes of Surveyors
 All other parts are surveyed, dated according to the same records as
 follow a distance of the lines and other of their course, with
 their respective areas and number of acres, and
 each town, block, house, dock, street, and other well known
 objects, and also the boundaries of the several
 and other well known objects.
 All individual tracts from the Indian title of land
 except those already surveyed by other than those
 named and those by others of their class.

1:100,000

San Diego County: 1872

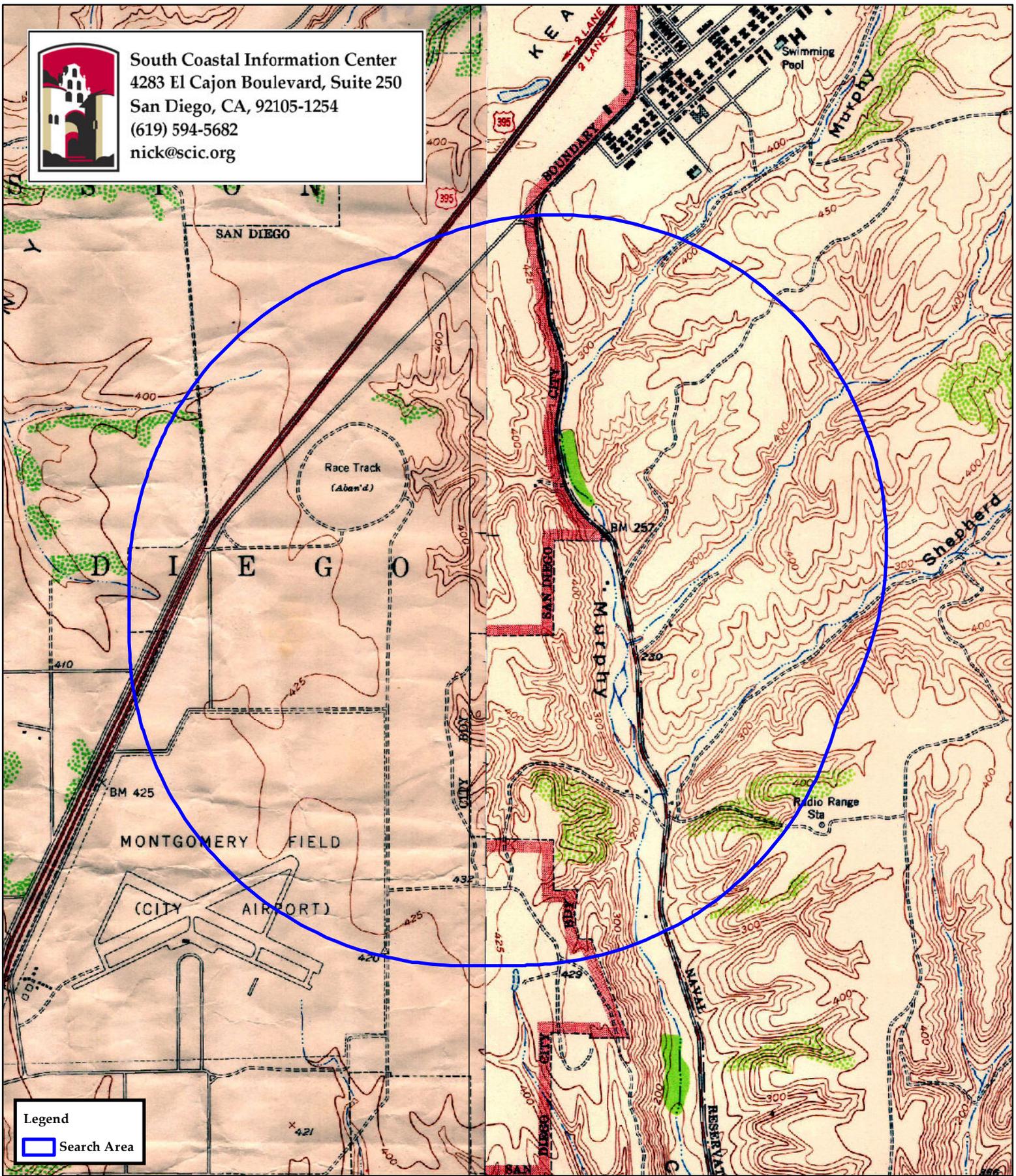
0 1 Mile

Nick Doose, Jul 12, 2012





South Coastal Information Center
4283 El Cajon Boulevard, Suite 250
San Diego, CA, 92105-1254
(619) 594-5682
nick@scic.org



Legend
[Blue Circle] Search Area

1:24,000

0 1 Mile

Nick Doose, Jul 12, 2012

La Jolla 1953
La Mesa 1953

USGS 7.5 Minute Series Topographic Map
La Jolla and La Mesa Quadrangles



