PUBLIC NOTICE

APPLICATION FOR PERMIT

LOS ANGELES DISTRICT

Public Notice/Application No.: SPL-2008-01175
Comment Period: June 1 through July 1, 2009
Project Manager: Terrence Dean; 858-674-5386; Terrence.Dean@usace.army.mil

Applicant
Charles Heinrichs
City of San Diego, Storm Water Department
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San Diego, California 92123

Contact
Dr. Stephen Neudecker
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7578 El Cajon Boulevard, Suite 200
La Mesa, California 91941

Location

Within and adjacent to approximately 50 river miles of named and unnamed channels and sedimentation basins occurring within the City of San Diego (City), California (Sheets 1 -11). The storm water facilities occur within seven Hydrologic Units (HU): San Dieguito, Peñasquitos, San Diego, Pueblo San Diego, Sweetwater, Otay, and Tijuana (Sheets 11 and 12). Approximately 563 acres of Corps jurisdictional areas were mapped within the City of San Diego (City) Master Storm Water System Maintenance Program (MSWSMP) study area, including 303 acres within the Coastal Overlay Zone. The study area was determined using storm water facility area boundaries provided by the City.

Activity

Authorization of the discharges of fill material resulting from the City's MSWSMP activities including: (1) clearing vegetation, (2) reconstructing existing flood control features (e.g. rip rap, concrete slopes), (3) sediment removal, (4) trash removal and (5) wetland creation, restoration or enhancement. For more information see page 4 of this notice. The routine maintenance activities would not substantially affect aquatic resource functions and services.

The MSWSMP area is comprised of a network of storm water facilities including drainage channels, detention basins, scattered outfall structures, pipes, and culverts located throughout San Diego. The major facilities consist of named creeks, some of which have been channelized and/or lined with concrete and/or riprap along portions of their lengths. Minor channels include unnamed tributaries, which also may include channelized and/or concrete or riprap-lined segments. The storm water facilities are diverse in terms of size, vegetative cover, substrate, hydrology, and environmental setting. The smallest storm water facilities are only a few feet wide, while segments of the largest are more than 100 feet wide. Vegetative cover ranges from mature riparian forest to marsh habitat to

unvegetated surfaces, with substrata including loams, sands, cobbles, rock and concrete. Hydrology varies from permanently flowing creeks to ephemeral streambeds that flow only following rainfall, or in response to urban runoff. Most of the storm water facilities are in highly urbanized settings and present little opportunity for wildlife utilization as a result of their location and individual characteristics, while others traverse open space areas and/or function as important wildlife corridors. (See attached drawings). For more information see page 3 of this notice.

Interested parties are hereby notified that an application has been received for a Department of the Army permit for the activity described herein and shown on the attached drawing(s). Interested parties are invited to provide their views on the proposed work, which will become a part of the record and will be considered in the decision. This permit will be issued or denied under Section 404 of the Clean Water Act. Comments should be mailed to:

Department of the Army
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
Regulatory Division
South Coast Branch, San Diego Section
Attn: SD-2008-1175-TCD
6010 Hidden Valley Road, Suite 105
Carlsbad, California 92011

Alternatively, comments can be sent electronically to: Terrence.Dean@usace.army.mil

Evaluation Factors

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof. Factors that will be considered include conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people. In addition, if the proposal would discharge dredged or fill material, the evaluation of the activity will include application of the EPA Guidelines (40 CFR 230) as required by Section 404 (b)(1) of the Clean Water Act.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to

determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Preliminary Review of Selected Factors

EIS Determination - A preliminary determination has been made that an environmental impact statement is not required for the proposed work. The applicant has prepared a draft Environmental Impact Report (EIR).

Water Quality - The applicant is required to obtain water quality certification, under Section 401 of the Clean Water Act, from the California Regional Water Quality Control Board. Section 401 requires that any applicant for an individual Section 404 permit provide proof of water quality certification to the Corps of Engineers prior to permit issuance. For any proposed activity on Tribal land that is subject to Section 404 jurisdiction, the applicant will be required to obtain water quality certification from the U.S. Environmental Protection Agency.

Coastal Zone Management - The applicant has certified that the proposed activity complies with and will be conducted in a manner that is consistent with the approved State Coastal Zone Management Program. The District Engineer hereby requests the California Coastal Commission's concurrence or nonconcurrence. For those projects in or affecting the coastal zone, the Federal Coastal Zone Management Act requires that prior to issuing the Corps authorization for the project, the applicant must obtain concurrence from the California Coastal Commission that the project is consistent with the State's Coastal Zone Management Plan. Approximately 6.3 acres of Corps wetlands and 16.2 acres of non-wetland Waters of the U.S. (WUS) would be affected within the coastal overlay zone. A final determination of whether this project adversely impacts coastal zone resources will be made by the Corps, in consultation with the California Coastal Commission, after review of the comments received on this Public Notice.

Cultural Resources - The latest version of the National Register of Historic Places (NRHP) has been consulted. In addition, the applicant has provided additional information indicating that cultural resources listed on or potentially eligible to be listed on the NRHP may be located in the vicinity of the proposed MSWSMP. The Corps will continue to evaluate potential effects on cultural resources and will make a determination on whether consultation with the State Historic Preservation Officer pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended, is warranted.

Endangered Species - No federally or state listed plant species or MSCP narrow endemic species were observed within the MSWSMP study area.

Several federally or state listed animal species are associated with the storm water facilities to be maintained. The federally listed threatened coastal California gnatcatcher (*Polioptila californica californica*) and federally and state listed endangered California brown pelican (*Pelecanus occidentalis californicus*) were observed/detected in the study area.

Portions of the study area are within the City of San Diego's biologically sensitive Multiple Habitat Planning Area (MHPA) as well as within designated critical habitat for some of the listed species.

The proposed MSWSMP may affect the following listed species and/or their designated critical habitat: the least Bell's Vireo (*Vireo bellii pusillus*), the Southwestern willow flycatcher (*Empidonax traillii extimus*), the California coastal gnatcatcher, and the brown pelican. Therefore, the Corps has made a determination that the proposed MSWSMP activities may affect Federal-listed species or their critical habitat protected under the ESA. Consultation, pursuant to Section 7 of the ESA, was initiated on February 9, 2009.

Public Hearing - Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearing shall state with particularity the reasons for holding a public hearing.

Proposed Activity for Which a Permit is Required

Basic Project Purpose - The basic project purpose comprises the fundamental, essential, or irreducible purpose of the proposed project, and is used by the Corps to determine whether the applicant's project is water dependent. The basic project purposes for the proposed Program are flood control; public safety; maintenance of existing facilities; and habitat restoration. The project is not water dependent.

Overall Project Purpose

The overall project purpose serves as the basis for the Corps' 404(b) (1) alternatives analysis and is determined by further defining the basic project purpose in a manner that more specifically describes the applicant's goals for the project, and which allows a reasonable range of alternatives to be analyzed.

The overall project purposes for the proposed MSWSMP are (1) maintenance of existing flood control facilities, (2) low-flow channel and tributary maintenance, and (3) habitat restoration within the greater San Diego area to provide continued protection for properties and habitat throughout the 20-year life of the program.

Additional Project Information

The City of San Diego is proposing to routinely maintain its storm water system through periodic removal of vegetation and/or sediment. In addition, it may undertake repair of existing flood control features associated with this storm water system. A major portion of this maintenance will occur within waters of the U.S. (Table 1).

Table 1
STORM WATER SYSTEM CHANNELS AND DETENTION BASINS

EIR Map No.*	Latitude	Longitude	HU	Facility Description	Type	Maintenance Method	Estimated Disturbance Width (feet)
Channel							
1	33.023151°	-117.073649°	San Dieguito	Rancho Bernardo Rd & Bernardo Center Dr.	C	4	12
2-3	33.018862°	-117.061662°	San Dieguito	Rancho Bernardo	C	2	10
4	32.968253°	-117.095369°	Peñasquitos	11044 Via San Marco	C	2	4
5	32.938090°	-117.103050°	Peñasquitos	Scripps Poway Pkwy & Scripps Summit Dr.	C	1	10
6	32.913852°	-117.230950°	Peñasquitos	Tripp Ct/11689 Sorrento Valley Rd	C	2	20
6a	32.916111°	-117.235556°	Peñasquitos	Industrial Court	C	2	12
7-8	32.905237°	-117.226352°	Peñasquitos	Los Peñasquitos Channel	E	3	50
9	32.904237°	-117.230534°	Peñasquitos	11000 Roselle St. / 11100 Flinkote Ave	C	1/2	8
10	32.903143°	-117.228169°	Peñasquitos	Dunhill St. & Roselle St.	E	4	4
11-12	32.890331°	-117.212458°	Peñasquitos	Soledad Creek Channel	E & C	1	20
13-17	32.890331°	-117.212458°	Peñasquitos	Soledad Creek Channel	E	1	20
18	32.900767°	-117.120777°	Peñasquitos	Maya Linda & Via Pasar	E	4/1	8
19	32.897758°	-117.119546°	Peñasquitos	Candida & Via Pasar	C	2	8
20	32.896191°	-117.106873°	Peñasquitos	10205 Pomerado Rd	C	4	10
21	32.908898°	-117.100286°	Peñasquitos	10249 Pinetree Dr.	C	3	20
22	32.901414°	-117.096918°	Peñasquitos	NE Corner Pomerado Rd & Scripps Ranch Blvd	C	1	4
23	32.905497°	-117.085167°	Peñasquitos	Pomerado Rd & Avenida Magnifica	C	1	6
24	32.859471°	-117.242105°	Peñasquitos	Scenic Pl & Cliff Ridge	E	1	10
25	32.848486°	-117.247281°	Peñasquitos	Ardath Rd from Esterel to Ardath Ln	C	4	4
26	32.840850°	-117.251787°	Peñasquitos	Hillside Dr. from Rue Adriane to Via Capri	C	4	4
27	32.837071°	-117.231758°	Peñasquitos	Rose Creek Channel	E	1/4	60
28	32.837071°	-117.231758°	Peñasquitos	Rose Creek Channel	E	1	68
28	32.837071°	-117.231758°	Peñasquitos	Rose Creek Channel (South of Gilman)	C	4	68
29-30	32.837071°	-117.231758°	Peñasquitos	Rose Creek Channel	E	1	20-100
30a-30b	32.837071°	-117.231758°	Peñasquitos	Rose Creek Channel	C	1	20-100
31	32.847055°	-117.219671°	Peñasquitos	3053 Renault Way	C	4	7.5
32	32.837071°	-117.231758°	Peñasquitos	Rose Creek Channel (West of railroad)	E	1	90
32	32.837071°	-117.231758°	Peñasquitos	Rose Creek Channel (remainder)	C	1	90
33	32.837071°	-117.231758°	Peñasquitos	Rose Creek Channel	C	1	100-130

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EIR Map No.*	Latitude	Longitude	HU	Facility Description	Type	Maintenance Method	Estimated Disturbance Width (feet)
34	32.837071°	-117.231758°	Peñasquitos	Rose Creek Channel (approximately 375 feet)	C	1	50-150
34	32.837071°	-117.231758°	Peñasquitos	Rose Creek Channel (remainder)	E	1	50-150
35	32.837071°	-117.231758°	Peñasquitos	Rose Creek Channel	E	1	80
36	32.798545°	-117.225604°	Peñasquitos	Mission Bay High School	C	2	4
37	32.796875°	-117.227051°	Peñasquitos	Pacific Beach Dr. & Olney St.	E	4	10
38	32.830799°	-117.209448°	Peñasquitos	Drain Structures – Lakehurst Ave	E	1	9
39	32.824935°	-117.205448°	Peñasquitos	Drain Structures – Clairemont Dr.	E	5	15
40-42	32.825691°	-117.185090°	Peñasquitos	Chateau Channel	C	2	30
43	32.810341°	-117.176403°	Peñasquitos	Thornwood St. & Mario Pl	C	2	5
44	32.812890°	-117.164931°	Peñasquitos	Drain Structures – Beal St.	E	1	9
45	32.803695°	-117.165307°	Peñasquitos	Drain Structures – Mesa College Way	E	3	2
46	32.834876°	-117.172002°	Peñasquitos	Clairemont Mesa & 805 behind Hotel	E	5	2
47	32.824529°	-117.151366°	San Diego	7969 & 7971 Engineer Rd (either end)	C	2	3
47	32.824529°	-117.151366°	San Diego	7969 & 7971 Engineer Rd (middle portion)	E	2	3
48	32.811399°	-117.124739°	San Diego	3860 Calle Fortunada	E	1	4
49-50	32.796834°	-117.113410°	San Diego	Murphy Canyon Channel	E	3	80
51	32.804567°	-117.074468°	San Diego	Red River Dr. & Conestoga Dr..	C	1	50
52	32.794788°	-117.066446°	San Diego	Camino del Arroyo	C	1/2	4
53	32.802107°	-117.025051°	San Diego	Cowles Mtn Channel	C	2	15
54	32.799734°	-117.021816°	San Diego	San Carlos Channel	C	1 & 2	30
55	32.770545°	-117.204882°	Peñasquitos	West Morena Blvd	E	1 & 2	40-50
55-57	32.775660°	-117.200093°	Peñasquitos	Tecolote Creek Channel	C	2	40-50
58	32.796834°	-117.113410°	San Diego	Murphy Canyon Channel	E	1	70
58a	32.796834°	-117.113410°	San Diego	Murphy Canyon	E	2	40
58a	32.796834°	-117.113410°	San Diego	Murphy Canyon	E	1	40
58a	32.796834°	-117.113410°	San Diego	Murphy Canyon	C	3	30
59-60	32.781009°	-117.082824°	San Diego	Alvarado Channel	½ E, ½ C	1	45
61-62	32.781009°	-117.082824°	San Diego	Alvarado Channel	C	1	60
62a	32.781009°	-117.082824°	San Diego	Alvarado Channel	E	1	70
63	32.781009°	-117.082824°	San Diego	Alvarado Channel	E	4	12-40
64	32.781009°	-117.082824°	San Diego	Alvarado Channel	½ E, ½ C	1 & 2	12-35
65	32.765841°	-117.097164°	San Diego	Fairmont Channel	E	2	8

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EIR Map No.*	Latitude	Longitude	HU	Facility Description	Type	Maintenance Method	Estimated Disturbance Width (feet)
65a	32.765841°	-117.097164°	San Diego	Fairmont Channel	C	1	10
65a	32.765841°	-117.097164°	San Diego	Fairmont Channel	C	2	5
65b	32.765841°	-117.097164°	San Diego	Fairmont Channel	C	3	5
65b-c	32.765841°	-117.097164°	San Diego	Fairmont Channel	E	3	4
66	32.767191°	-117.079834°	San Diego	Montezuma Channel	C	1 & 2	20
66a	32.767191°	-117.079834°	San Diego	Montezuma Channel	C/E	1	16
67	32.735057°	-117.092367°	Pueblo S.D.	Home Avenue Channel	E	1	8
67a	32.715479°	-117.116816°	Pueblo S.D.	Chollas Creek	E	1	10
68	32.735057°	-117.092367°	Pueblo S.D.	Home Avenue Channel	½ E	2	12
69	32.735057°	-117.092367°	Pueblo S.D.	Home Avenue Channel	C	1	20
70	32.735057°	-117.092367°	Pueblo S.D.	Home Avenue Channel (994 linear ft.)	E	1	40
70	32.735057°	-117.092367°	Pueblo S.D.	Home Avenue Channel (430 linear ft.)	C	1	40
71-72	32.715479°	-117.116816°	Pueblo S.D.	Chollas Creek Channel (806 linear ft.)	E	2	40
71-72	32.715479°	-117.116816°	Pueblo S.D.	Chollas Creek Channel (remainder)	C	2	40
73-75	32.715479°	-117.116816°	Pueblo S.D.	Chollas Creek Channel	E	3	20-70
76-77	32.735057°	-117.092367°	Pueblo S.D.	Home Avenue Channel	E	2 & 3	40
78-80	32.715479°	-117.116816°	Pueblo S.D.	Chollas Creek Channel (1200 linear ft. on Map 80)	C	2	70
78-80	32.715479°	-117.116816°	Pueblo S.D.	Chollas Creek Channel (remainder))	E	2	70
79	32.718431°	-117.118263°	Pueblo S.D.	Delevan Dr.	E	1	30
81	32.765993°	-117.157889°	San Diego	Camino de la Reina & Camino del Arroyo	C	4	4
82	32.749519°	-117.234982°	San Diego	Nimitz Channel (188 linear ft.)	E	4	10
82	32.749519°	-117.234982°	San Diego	Nimitz Channel (320 linear ft.)	C	4	10
83	32.747898°	-117.229212°	San Diego	Famosa Blvd & Valeta St.	C	2	10
84	32.745064°	-117.180263°	Pueblo S.D.	Washington Channel (150 linear ft.)	E	1	15
84	32.745064°	-117.180263°	Pueblo S.D.	Washington Channel (56 linear ft.)	C	1	15
85	32.728021°	-117.143070°	Pueblo S.D.	Florida Canyon Channel	E	1	50
86	32.720895°	-117.144191°	Pueblo S.D.	Pershing Channel	C	2	35
87	32.713789°	-117.136827°	Pueblo S.D.	Drain Structures – between 26th St.. and 27th St..	E	4	12
88	32.703623°	-117.153396°	Pueblo S.D.	Switzer Creek Channel	C	1	50
89	32.715479°	-117.116816°	Pueblo S.D.	Chollas Creek Channel	C	2	70

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EIR Map No.*	Latitude	Longitude	HU	Facility Description	Type	Maintenance Method	Estimated Disturbance Width (feet)
90	32.705923°	-117.118345°	Pueblo S.D.	Imperial Ave & Gillette St.	E	4	12
91	32.715479°	-117.116816°	Pueblo S.D.	Chollas Creek Channel	C	1	70
92	32.698974°	-117.118902°	Pueblo S.D.	35th St. & Martin Ave	E	4	12
93	32.715479°	-117.116816°	Pueblo S.D.	Chollas Creek Channel (part earthen, part concrete)	E & C	1	60
94-95	32.705807°	-117.098338°	Pueblo S.D.	South Chollas Creek Channel	C-sides, E	1	70
96	32.692819°	-117.115711°	Pueblo S.D.	Drain Structures – Boston Ave & Z St.	E	1	15
97-99	32.705807°	-117.098338°	Pueblo S.D.	South Chollas Creek Channel	C-sides, E	1	50
100	32.709969°	-117.104356°	Pueblo S.D.	42nd & J St.	Earthen	4	3
101-104	32.705807°	-117.098338°	Pueblo S.D.	South Chollas Creek Channel	E & C	2 & 3	20-50
105	32.706650°	-117.084146°	Pueblo S.D.	Euclid & Castana	E	4	12
106-107	32.710014°	-117.064451°	Pueblo S.D.	Encanto Channel	E & C	1 & 2	30-65
108-111	32.710014°	-117.064451°	Pueblo S.D.	Encanto Channel	C	2	20
109			Pueblo S.D.	Jamacha Channel	E	4	15
112	32.715792°	-117.053145°	Pueblo S.D.	Madera & Broadway	C	2	20
113-115			Pueblo S.D.	Jamacha Channel	E	1 & 2	30
116	32.693423°	-117.083065°	Pueblo S.D.	Solola Channel	E	1	30
117	32.693423°	-117.083065°	Pueblo S.D.	Solola Channel	E & C	2	30
118-119	32.693423°	-117.083065°	Pueblo S.D.	Solola Channel	C	2	30
120-121	32.685264°	-117.106449°	Pueblo S.D.	Cottonwood Channel	C	2	30
122	32.670054°	-117.047949°	Sweetwater	Parkside Channel	C	2	35
123	32.563926°	-116.938596°	Tijuana	Sanyo Channel	C	2	50
124	32.562941°	-116.962620°	Tijuana	La Media & Airway	E	4	25
125	32.566053°	-116.989279°	Tijuana	Camino Maquiladora & Cactus	C	2 & 4	20
126	32.550503°	-116.975494°	Tijuana	Siempre Viva & Bristow	E	4	12-25
127	32.551801°	-116.978518°	Tijuana	Britannia & Bristow	E	4	20
128	32.543561°	-117.035502°	Tijuana	Virginia Channel	E	2 & 4	15
129	32.563973°	-117.058654°	Tijuana	Smythe Channel	C	2	30-50
129	32.563973°	-117.058654°	Tijuana	Smythe Channel (southernmost 110 linear ft.)	E	2	30-50
130	32.563973°	-117.058654°	Tijuana	Smythe Channel	E	2	60
131	32.576716°	-117.087955°	Otay	Nestor Creek Channel	E & C	1 & 2	30

Table 1
STORM WATER SYSTEM CHANNELS AND DETENTION BASINS

EIR Map No.*	Latitude	Longitude	HU	Facility Description	Type	Maintenance Method	Estimated Disturbance Width (feet)
132-133	32.576716°	-117.087955°	Otay	Nestor Creek Channel	E	1 & 2	30-50
134	32.576716°	-117.087955°	Otay	Nestor Creek Channel	C	1 & 2	30-50
135	32.580205°	-117.082275°	Otay	Elm & Harris	C	4	4
136-137	32.563672°	-117.084299°	Tijuana	Tocayo Channel	C	2	35
136-137	32.563672°	-117.084299°	Tijuana	Tocayo Channel (Westernmost 55 linear ft.)	E	2	35
137a-c	32.552838°	-117.092083°	Tijuana	Tijuana River	E	1	24
138-139	32.547942°	-117.088374°	Tijuana	Smugglers Gulch Channel	E	1	50
140-161	32.761838°	-117.183838°	San Diego	San Diego River	E	NA	NA
Basin							
162-163	32.899503°	-117.232795°	Peñasquitos	Tower Road	E	1	100
164	32.932205°	-117.126245°	Peñasquitos	Black Mountain Road	E	1	80
5a	32.940659°	-117.129893°	Peñasquitos	12350 Black Mountain Road	E	1	50
165	32.890668°	-117.168726°	Peñasquitos	9262 Camino Santa Fe	E	1	10
166	32.942940°	-117.213168°	Peñasquitos	Carmel Country Rd Bridge	E	1	200
167	32.932231°	-117.237289°	Peñasquitos	Westside El Camino Real	E	1	50
168	32.889388°	-117.232520°	Peñasquitos	Northside Genesee	E	1	100
169	33.031843°	-117.048103°	San Dieguito	13153 Paseo del Verano	E	1	140
170	32.890167°	-117.220541°	Peñasquitos	Roselle Street	E	1	100
171-172	32.908529°	-117.115729°	Peñasquitos	Scripps Lake Drive	E	1	15-20
23a	32.927575°	-117.059728°	Peñasquitos	12660 Legacy Road	E	1	100
131	32.572868°	-117.071940°	Otay	30th & Del Sol Blvd	E	1	300

* Map Numbers refer to Appendix G of Appendix B of the Draft Program Environmental Impact Report (SCH# 2005101032).

Existing Conditions

The City's storm water system exhibits a variety of conditions (Sheets 1 - 11). Many of the facilities have experienced some form of modification to facilitate conveyance of storm water. These modifications have included replacement of natural banks and bottoms with concrete as well as installation of rip rap. Some channels do not support wetland vegetation, either as a result of past clearing, or due to substratum conditions or variations in hydrology. Of the channels that do support wetland vegetation, some have an unvegetated pilot channel that traverses the center of the channel below overhanging vegetation. Exotic species are widespread throughout the channels, and trash is a common occurrence in many of the storm water facilities located in the urbanized areas.

Portions of the storm water facilities exhibit low to moderate quality wetland habitat. Wetland/riparian vegetation communities include southern riparian forest, southern sycamore riparian woodland, southern willow scrub, riparian woodland, mule fat scrub, riparian scrub, freshwater marsh, cismontane alkali marsh, southern coastal salt marsh, coastal brackish marsh, disturbed wetland, and natural flood channel/open water/streambed.

A total of 562.55 acres of Corps jurisdictional area, including 272.49 acres of wetlands and 290.06 acres of non-wetland Waters of the U.S. (WUS), were mapped within the study area (Table 2). Non-wetland WUS are categorized as unvegetated earthen-bottom and vegetated/unvegetated concrete-bottom channels, and comprise approximately 250.30 acres and 39.57 acres, respectively (Table 2).

Table 2

EXISTING CORPS JURISDICTIONAL AREAS WITHIN THE STUDY AREA (acre[s])

Hydrological Unit (HU†)	Wetlands‡												Non-wetland WUS		Total
	SRF	SRW	RW	SWS	MFS	RS	FWM	CAM	CSM	CBM	DW	Subtotal	Earthen	Concrete	
San Dieguito	0	0	0	0	0	0	0.01	0	0	0	0	**0.01**	0.02	1.68	**1.71**
Peñasquitos	1.07	0	0	6.25	0.09	0	8.58	0	1.71	0.31	0.30	**18.31**	16.56	14.52	**49.39**
San Diego	103.67	0	0	16.44	1.22	0	20.26	3.47	86.74	0	0.44	**232.24**	213.57	5.62	**451.43**
Pueblo San Diego	0	0	0	1.55	0.32	0.36	5.46	0	0.53	0	3.91	**12.13**	14.45	15.34	**41.92**
Sweetwater	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0.28	**0.28**
Otay	0	0	0	0.53	0	0	2.05	0	0	0	0.04	**2.62**	0.04	0.74	**3.40**
Tijuana	0	0	0	2.54	0.67	0	1.68	0	0	0	2.29	**7.18**	5.66	1.58	**14.42**
TOTAL	**104.74**	**0**	**0**	**27.31**	**2.30**	**0.36**	**38.04**	**3.47**	**88.98**	**0.31**	**6.98**	**272.49**	**250.30**	**39.76**	**562.55**

†The HUs correspond to the following Storm water Facility Maps in Appendix B of the EIR: San Dieguito HU=Maps 1-3 and 169; Peñasquitos HU=Maps 4-46, 55-57, 163-168, and 170-172; San Diego HU=Maps 47-54, 58-66, 81-83, and 140-161; Pueblo San Diego HU= Maps 67-80 and 84-121; Sweetwater HU= Map 122; Otay HU= Maps 131-135; Tijuana HU= Maps 123-130 and 136-139

‡Habitat acronyms: CAM=cismontane alkali marsh, CBM=coastal brackish marsh, CSM=coastal salt marsh, DW=disturbed wetland, FWM=freshwater marsh, MFS=mule fat scrub, RS=riparian scrub, RW=riparian woodland, SRF=southern riparian forest, SRW=southern sycamore riparian woodland, SWS=southern willow scrub, WUS=Waters of the U.S.

Project Description

The City's Master Storm water Maintenance Program is designed to proactively maintain the network of storm water facilities that convey flood waters through the City. As indicated earlier, the system is comprised of a series of channels and basins as well as scattered outfall structures, pipes, and culverts located throughout San Diego.

Maintenance is anticipated to occur at varying frequencies with different methodologies. In problematic areas, high frequency maintenance would occur. As indicated earlier, high frequency would occur at least every three years. Low-frequency maintenance would occur less often than every three years.

Maintenance would be done by hand or with mechanized equipment. Hand clearing would be done with hand tools, such as trimmers and shovels. Cleared material would be manually brought out of the facility, and loaded by hand onto a dump truck for off-site disposal.

Mechanized equipment clearing would be utilized whenever possible to reduce cost. Depending on the conditions associated with each facility, different types of equipment would be utilized. The types of equipment would include, but not be limited to, skid-steers, backhoes, gradalls, excavators, loaders, dump trucks, and bulldozers**.** Maintenance equipment would utilize existing access roads, whenever possible.

In order to provide the Corps an opportunity to annually review the City's proposed maintenance activities, the MSWSMP establishes a Substantial Conformance Review (SCR) process. Under the SCR process, the City would prepare Individual Maintenance Plans (IMPs) for each proposed maintenance activity. At a minimum, the IMPs shall indicate: maintenance method(s) to be used; equipment type; appropriate BMPs and maintenance protocols; proposed access; staging areas; spoils storage sites; schedule; and environmental resources and proposed measures to avoid or minimize impacts to sensitive resources.

Based on those plans, site-specific assessments would be performed to determine if the activities would affect sensitive biological or historical resources. Those studies would be referred to as Individual Biological Assessment (IBAs) and Individual Historical Assessments (IHAs). Where potential impacts could occur, the associated IBA or IHA would describe the mitigation measures to be implemented to minimize impacts. The IMPs, IBAs and IHAs would be submitted along with the City's annual request for authorization to state and federal agencies. Based on a review of this information, the Corps would decide whether to authorize the maintenance activities as proposed, or with modifications. At the end of the annual maintenance, the City would provide the Corps with a year-end report which would include a summary of the amount and type of biological or historical resources impacted and the mitigation measures that were implemented.

As appropriate, the City would undertake varying forms of habitat creation, restoration and/or enhancement. Restoration would involve removal of invasive species followed by installation of wetland plants through seed and/or container stock. Creation would involve grading upland areas to elevations suitable for establishment of wetland habitat and installing wetland plants through seed and/or container stock. To assure the long-term success of restoration and/or creation areas, a five-year monitoring, maintenance and reporting program would be undertaken. Once the restoration or creation areas have met success criteria and are considered self-sufficient, a long-term maintenance program would be implemented to maintain the restored/created areas for as long as the mitigation is required to offset storm water maintenance impacts. Enhancement activities (for low frequency

maintenance activities) would include removal of invasive species followed by a proactive maintenance program that would assure that invasive species would not re-establish for a period of two years after the removal has occurred. Maintenance would include cutting all large woody exotics, as well as large grasses such as giant reed and pampas grass, to ground level and follow-up treatment(s) with appropriate herbicide, as necessary.

Project Impacts

As much as 34.66 acres of wetlands and 68.27 acres of non-wetland WUS subject to Corps jurisdiction, including 32.52 acres of earthen-bottom channels/basins and 35.75 acres of concrete-lined channels/basins, could be affected upon implementation of the maintenance activities proposed by the proposed MSWSMP (Table 3). Wetland impacts could include: 1.15 acres of southern riparian forest, 9.57 acres of southern willow scrub, 0.47 acre of mule fat scrub, 0.22 acre of riparian scrub, 16.49 acres of freshwater marsh, 1.39 acres of coastal salt marsh, 0.26 acre of coastal brackish marsh, and 5.11 acres of disturbed wetland. An additional 68.27 acres of non-wetland WUS could also be affected, including 32.52 acres of earthen-bottom channels/basins and 35.75 acres of concrete-lined channels/basins (Table 3). Impacts to non-wetland WUS are considered temporary impacts that would not require mitigation. It should be noted that these impacts are based on a worst-case assumption that all vegetation within the maintenance area would be removed during maintenance. In light of the City's intention to retain wetland habitat wherever it would not interfere with the primary goal of promoting storm water conveyance, the actual amount of wetland impact is expected to be less than the maximum. Furthermore, the loss of wetland vegetation would not be permanent because wetland vegetation will recruit and re-establish naturally between maintenance cycles.

Typical Plan Views and Cross-sections from channels in three different watersheds are shown on Sheets 14 – 16.

Proposed Mitigation – The proposed mitigation may change as a result of comments received in response to this public notice, the applicant's response to those comments, and/or the need for the project to comply with the 404(b)(1) Guidelines. In consideration of the above, the proposed mitigation sequence (avoidance/minimization/compensation), as applied to the proposed project is summarized below:

Avoidance and Minimization

The City included a number of maintenance protocols in the Master Plan that are designed to avoid or minimize impacts to wetlands. These protocols include: clearing only the minimum amount of vegetation necessary to achieve desired flood water conveyance; flagging all sensitive biological resources prior to maintenance activities; and avoiding maintenance activities within areas potentially supporting sensitive wildlife, whenever possible.

Mitigation

When wetland disturbance cannot be avoided, the MSWSMP EIR provides a detailed compensatory mitigation program that involves a combination of habitat creation, restoration and/or enhancement. No mitigation would be required for impacts to unvegetated areas (e.g., non-wetland WUS/streambed/natural flood channels) or concrete channels because the jurisdictional area would remain in place after maintenance is complete. Impacts to wetland vegetation have been categorized as: (1) high frequency clearing, or permanent clearing, which is defined as occurring more often than every three years, and (2) low frequency clearing, or temporary clearing, which is defined as occurring less often than every three years. The form of mitigation is dependent on the frequency of maintenance due to the fact that wetland vegetation can typically re-establish with a longer period between maintenance events.

High Frequency Maintenance Mitigation - Proposed mitigation for high frequency maintenance effects to wetlands may take one or a combination of the following three actions: (1) restoration, (2) purchase of mitigation credits, or (3) creation. These actions would occur on a one-time basis pursuant to the ratios shown in Table 4.

Restoration/enhancement would involve rehabilitation of highly degraded wetlands (e.g., areas infested with exotics such as giant reed). Activities would include removal of invasive plants as well as planting new wetland plants as seed and/or container stock. Mitigation through restoration/enhancement activities would, wherever possible, assure that the mitigation achieves the most wildlife and water quality functions and services by consolidation of mitigation into large, contiguous areas. In addition, wherever possible, the restoration/enhancement would occur in the uppermost portion of a drainage course to minimize the potential for downstream transport of invasive plants. Wherever feasible, mitigation would occur within the same watershed where the maintenance occurs.

Table 3
ESTIMATED CORPS JURISDICTIONAL AREAS (WUS) AFFECTED (acre[s])*

Hydrologic Unit (HU)†	Wetlands‡												Non-wetland WUS		TOTAL
	SRF	**SRW**	**RW**	**SWS**	**MFS**	**RS**	**FWM**	**CAM**	**CSM**	**CBM**	**DW**	**Total Wetland Impact**	**Earthen bottom**	**Concrete bottom**	
San Dieguito	0	0	0	0	0	0	0	0	0	0	0	0	0.01	1.17	**1.18**
Peñasquitos	0.88	0	0	3.99	0	0	5.29	0	0.94	0.26	0.09	**11.45**	12.64	11.53	**35.62**
San Diego	0.27	0	0	2.97	0	0	2.54	0	0	0	0.11	**5.89**	2.29	5.28	**13.46**
Pueblo San Diego	0	0	0	1.10	0.32	0.22	5.17	0	0.45	0	3.76	**11.02**	13.61	15.18	**39.81**
Sweetwater	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0.28	**0.28**
Otay	0	0	0	0.52	0	0	1.97	0	0	0	0.04	**2.53**	0.04	0.74	**3.31**
Tijuana	0	0	0	0.99	0.15	0	1.52	0	0	0	1.11	**3.77**	3.93	1.57	**9.27**
TOTAL	**1.15**	**0**	**0**	**9.57**	**0.47**	**0.22**	**16.49**	**0**	**1.39**	**0.26**	**5.11**	**34.66**	**32.52**	**35.75**	**102.93**

*Totals reflect rounding

†The HUs correspond to the following Storm water Facility map pages in Appendix B of the EIR: San Dieguito HU=Maps 1-3, 169; Peñasquitos HU=Maps 4-46, 55-57, 163-168, 170-172; San Diego HU=Maps 47-54, 58-66, 81-83, 140-161; Pueblo San Diego HU=Maps 67-80, 84-121; Sweetwater HU=Map 122; Otay HU=Maps 131-135; Tijuana HU=Maps 123-130, 136-139

‡Habitat acronyms: CAM=cismontane alkali marsh, CBM=coastal brackish marsh, CSM=coastal salt marsh, DW=disturbed wetland, FWM=freshwater marsh, MFS=mule fat scrub, RS=riparian scrub, RW=riparian woodland, SRF=southern riparian forest, SRW=southern sycamore riparian woodland, SWS=southern willow scrub

As an option to restoration or enhancement, the City could choose to purchase mitigation credits. In that case, mitigation ratios would be 1:1 for all wetland habitats when the habitat associated with mitigation credits is fully established in advance of the impact.

Low Frequency Maintenance Mitigation- Proposed mitigation for low frequency maintenance, that occurs less frequently than every three years, would be accomplished through removal of invasives (e.g., giant reed, pampas grass, castor-bean, Mexican fan palm, and tamarisk) followed by a proactive maintenance program that would assure that invasives would not re-establish for a period of two years after removal. During this two-year period, maintenance would include cutting all large woody exotics as well as large grasses such as giant reed and pampas grass to ground level and treating them with herbicides approved for use in wetlands, as necessary to prevent re-growth. Mitigation ratios for low frequency clearing activities may be the same as shown in Table 4.

Mitigation Sites- The MSWSMP will affect WUS in seven hydrologic units (Sheets 11 and 12): San Dieguito (1.18 acres), Peñasquitos (35.62 acres), San Diego (13.46 acres), Pueblo San Diego (39.81 acres), Sweetwater (0.28 acre), Otay (3.31 acres), and Tijuana (9.27 acres). All of those effects combined total 102.93 acres of WUS, and are comprised of 34.66 acres of wetland WUS , 32.52 acres of non-wetland WUS in earthen channels and 35.75 acres of non-wetland WUS in concrete-lined channels.

Specific acreages and locations of mitigation required for project effects will be determined on a yearly basis. Each year, the City will compile a list of facilities to be maintained during that year and individual maintenance plans will be developed to determine the extent of impacts. Individual biological assessments will then be conducted in the field for each facility in order to determine the type and acreage of habitat(s) to be affected and the required mitigation. Specific mitigation site(s) will then be selected based on the type, size, and location of impact(s). Potential mitigation sites for impacts in the various HUs are identified below.

The MSWSMP's effects in the San Dieguito HU may be mitigated through giant reed removal (enhancement) and/or restoration of City-owned parcels in the San Dieguito River floodplain, which may include mitigation on City-owned lands in the San Pasqual Valley. The MSWSMP's effects in the Peñasquitos HU may be mitigated through a cooperative program with the Los Peñasquitos Canyon Preserve, Tecolote Canyon Natural Park, or areas identified in the Rose Creek Watershed Opportunities Assessment. The MSWSMP's effects in the San Diego HU may be mitigated on City-owned parcels within and adjacent to the San Diego River, with emphasis on wetlands in the vicinity of Qualcomm Stadium. These efforts will be coordinated with the San Diego River Conservancy. The MSWSMP's effects in the Pueblo San Diego HU may be mitigated either through one or a combination of the following two actions: (1) implementation of restoration proposals identified in the Chollas Creek Enhancement Program and potentially carried out in cooperation with the non-profit Groundwork organization or other non-profit organization, or (2) through purchase of mitigation credits from the Rancho Jamul Mitigation Bank. The MSWSMP's effects in the Sweetwater HU may be mitigated through the purchase of mitigation credits from the Rancho Jamul Mitigation Bank. The MSWSMP's effects in the Otay HU may be mitigated through the purchase of mitigation credits from the Rancho Jamul Mitigation Bank and/or through mitigation in the Otay River Valley. The MSWSMP's effects in the Tijuana HU may be mitigated on City-owned parcels and/or on County-owned parklands in the Tijuana River Valley and may include land along the Tijuana River or Smuggler's Gulch.

Table 4 WETLAND MITIGATION RATIOS	
WETLAND TYPE	**RATIO***
Southern riparian forest (SRF)	3:1
Southern sycamore riparian woodland (SRW)	3:1
Riparian woodland (RW)	3:1
Coastal brackish marsh	3:1
Coastal salt marsh (CSM)	3:1
Southern willow scrub (SWS)	2:1
Mule fat scrub (MFS)	2:1
Riparian scrub (RS)	2:1
Freshwater marsh (FWM)	1:1
Cismontane alkali marsh (CAM)	1:1
Disturbed wetland (DW)	1:1
Streambed/natural flood channel	NA

* Mitigation in advance or through mitigation credits at a 1:1 ratio.

Corps Mitigation Disclaimer: The applicant has proposed the above mitigation. However the Corps is in favor of a more effective, watershed-based approach such as mitigation banking, and will work with the applicant to develop opportunities for more comprehensive approaches. The Corps does not necessarily concur with any of the details of the proposed mitigation, including the ratios suggested by the applicant.

Proposed Special Conditions

It is anticipated that the following special conditions will be applied to the Individual Permit, if approved by the Corps:

1. Prior to commencing any maintenance within the Corps' jurisdiction, the City shall submit the following information to the Corps:
    a. Location information including vicinity map, county, site latitude and longitude coordinates (e.g., decimal degree format), and waterbody name(s).
    b. Baseline drawings of the proposed maintenance activities (i.e., plan view and cross-section view of proposed activity), including the boundaries of (or annotations showing) any of the proposed. All drawings must be signed, dated, and submitted on paper no larger than **8-1/2 X 11** inches. Multiple sheets may be used with match lines if necessary to avoid reducing the drawings to unreadable scale.
    c. Land ownership information on each parcel within the maintenance areas. If any activities are proposed on Corps-owned property or within Corps easements, this must be clearly stated.
    d. Individual Biological Assessments (IBAs) that, at a minimum shall include:
        i. Description of maintenance to be performed including linear length, width and depth
        ii. Identification of jurisdictional areas
        iii. Detailed vegetation mapping
        iv. Location of sensitive plant species
        v. Protocol animal surveys, as needed
        vi. Quantification of impacts to all sensitive biological resources
        vii. A, digital, date-stamped photo of each affected area

viii. Specific maintenance protocols from the MSWSMP to be implemented as part of the IMP

ix. Specific compensatory mitigation required for impacts to biological resources (e.g. wetland creation/enhancement/restoration or off-site upland habitat acquisition)

x. Mitigation plan for a "one-time" mitigation, prepared according to SPL "Final Mitigation Guidelines and Monitoring Requirements", April 19, 2004 (or as subsequently revised), and regulations found at 33 CFR Parts 325 and 332 (Compensatory Mitigation for Losses of aquatic Resources; Final Rule). Mitigation type and ratios shall be consistent with Table 4 of this PN.

e. Individual Historical Assessments (IHAs) that document the results of field surveys conducted within the proposed maintenance areas and describe the appropriate mitigation measures to avoid and/or salvage any significant cultural resource that may be adversely affected by maintenance.

f. Draft conservation easement or deed restriction document for proposed mitigation areas. Easements shall be presented in electronic format (preferably MS Word format) with all attachments, exhibits (.pdf format), and referenced documents.

g. Evidence of 401 Certification or waiver thereof from the Regional Water Quality Control Board.

2. Prior to commencing any maintenance activity within the jurisdiction of the Corps, the City shall:

a. Conduct a pre-maintenance meeting on site with representatives from the following departments: Storm Water Department, Mitigation Monitoring Coordinator (MCC), Resident Engineer (RE), Maintenance Manager (CM) and/or Grading Contractor (GC). The biologist selected to monitor the activities shall be present and review the maintenance protocols that apply to the maintenance activities; and review the monitoring protocol to be followed.

b. Within a minimum of 72 hours of initiating any clearing or grubbing activities, a qualified biologist will conduct any necessary pre-maintenance surveys including bird nest surveys in compliance with the Migratory Bird Treaty Act.

c. As required, a qualified biologists and historical resource specialist shall be on site during maintenance activities to assure that required mitigation measures are followed. Prior to initiating any maintenance activity that could affect a sensitive resource, the boundaries of the sensitive resource areas shall be marked in the field by flagging, signs and/or fencing. At the end of the monitoring, the specialist shall prepare a letter report summarizing the results of the monitoring and any remedial actions that were carried out.

d. Approved access routes will be cleared of brush, low-hanging branches, and obstacles, and limited grading will be conducted as necessary to allow equipment to be transported to the work areas. All BMPs will be installed in accordance with the IMP.

e. Storm water system maintenance will be completed using the methodology described in the IMP.

f. All debris accumulated during the maintenance process will be removed from the site either by vacuum/pressure truck or dump truck and disposed of off site.

3. Within six months of the end of an annual maintenance program, the monitoring biologist shall complete an annual report and distribute it to the following agencies: the City of San Diego DSD, CDFG, RWQCB, USFWS, and Corps. At a minimum, the report shall contain the following information:

a. A tabular summary of the biological resources affected during maintenance and the mitigation carried out as compensation.

b. A master table containing the following information for each storm water facility or segment that is regularly maintained.
   i. Date and type of most recent maintenance
   ii. Description of mitigation provided
c. Two, digital photos of affected area taken from the same location as the pre-maintenance photos to document the extent of maintenance
d. Description of the status of mitigation implemented for past maintenance activities
e. Implement on-site wetland/streambed restoration measures required by the PEIR as well as any additional measures imposed as part of the SCR determination; and/or protecting site from public access

4. Retain wetland vegetation during maintenance when retention would not interfere with the goal of facilitating the conveyance of flood waters, and protecting adjacent life and property
5. Construction of new flood control structures or the replacement of a structure with a larger, in-kind structure is not authorized by this Permit.
6. Low-flow channel realignment cannot occur more than 200 feet in any direction from an engineered structure (for which as-built drawings have been provided).
7. Vegetation removal conducted using mechanized equipment such that the channel substratum is disturbed and for the purpose of maintaining the capacity of a storm water facility shall only be conducted when channel capacity is reduced to below 50%.
8. Placement of additional boulders, rock, and gabions for purposes other than the maintenance of existing, previously-authorized structures is not authorized by this Permit.
9. Removal of vegetation shall be limited to the period outside of the migratory bird breeding season (April 15 - September 1) as well as the period outside of the breeding season for potentially occurring sensitive bird species (anywhere from February 1 to September 15, varies by species) of any year unless surveys for nesting birds have been conducted by a professional biologist and the results coordinated with the Corps (Regulatory Division), California Department of Fish and Game, and the U.S. Fish and Wildlife Service prior to commencement of work.
10. Record a Conservation Easement (CE), in a form approved by the Corps, which shall run with the land, obligating the City, its successors and assigns to protect and maintain mitigation sites as natural open space in perpetuity. The CE must include a 3rd party easement holder qualified to hold easements pursuant to California Civil Code section 815.3 and Government Code section 65965. The City must provide monies in the form of an endowment (endowment amount to be determined by Property Analysis Record (PAR) or similar methodology) for the purposes of fulfilling the 3rd party easement holder's responsibilities under the CE. At the Corps' discretion, a Deed Restriction (DR) may serve in place of a CE. Implementation of a DR shall take place as described for a CE in this Special Condition.
11. Maintain a copy of this Permit and the signed notice to proceed (NTP) on all mechanized equipment used to conduct maintenance activities authorized under this permit.
12. Develop a training program for field personnel performing activities regulated under this Permit and their managers, planning personnel, and other appropriate managers and staff. The training program shall cover Best Management Practices including management oriented for water quality, management oriented for wildlife, native flora and fauna expected on the site and mechanisms for avoidance, a discussion of nesting season, native plants vs. invasive weeds, and endangered species protocol.

Public Notice Exhibits:

Sheet 1 Vicinity Map

Sheet 2	Plan View - Rancho Bernardo Area A
Sheet 3	Plan View - Rancho Bernardo Area B
Sheet 4	Plan View - Soledad Area A
Sheet 5	Plan View - Soledad Area B
Sheet 6	Plan View – I8 Corridor Area A
Sheet 7	Plan View – I8 Corridor Area B
Sheet 8	Plan View – Central San Diego Area A
Sheet 9	Plan View – Central San Diego Area B
Sheet 10	Plan View – Otay Mesa Area A
Sheet 11	Plan View – Otay Mesa Area B
Sheet 12	Study Area Locations in Relation to Hydrological Units - A
Sheet 13	Study Area Locations in Relation to Hydrological Units - B
Sheet 14	Plan View and Typical Cross- Section A-A
Sheet 15	Plan View and Typical Cross- Section B-B
Sheet 16	Plan View and Typical Cross- Section C-C

For additional information please call Terrence Dean of my staff at 858-674-5386 or via e-mail at Terrence.Dean@usace.army.mil. This public notice is issued by the Chief, Regulatory Division.

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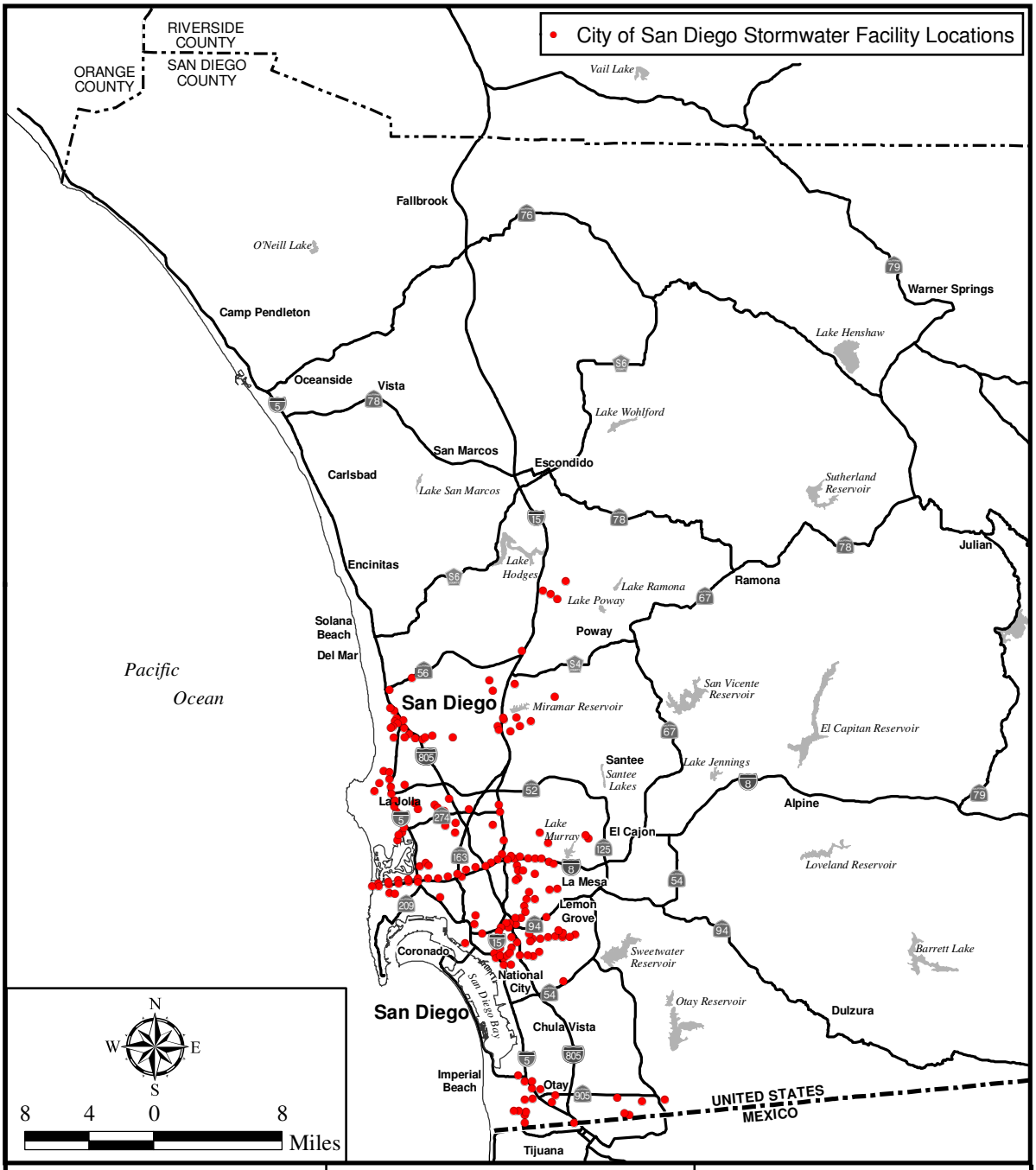
Clipboard Copy: Los Angeles

O'ROURKE
CESPL-RG-SD

DEAN
CESPL-RG-SD



PURPOSE: Storm Drain Maintenance

DATUM: MSL

ADJACENT PROPERTY OWNERS:
See Attachment A to Form 4345

VICINITY MAP

CITY OF SAN DIEGO MASTER STORMWATER SYSTEM MAINTENANCE PROGRAM

202 C Street
San Diego, CA 92101

WATERBODY: N/A

COUNTY: San Diego **STATE:** CA

APPLICANT: City of San Diego

AGENT: HELIX Environmental Planning, Inc.
7578 El Cajon Blvd. Suite 200
La Mesa, CA 91941

USGS Quadrangle: City of San Diego

LAT: 32.904616 LONG: 117.062993

T: 15S R: 4W S: N/A

Sheet 1 of 15 **Date: 02/04/09**

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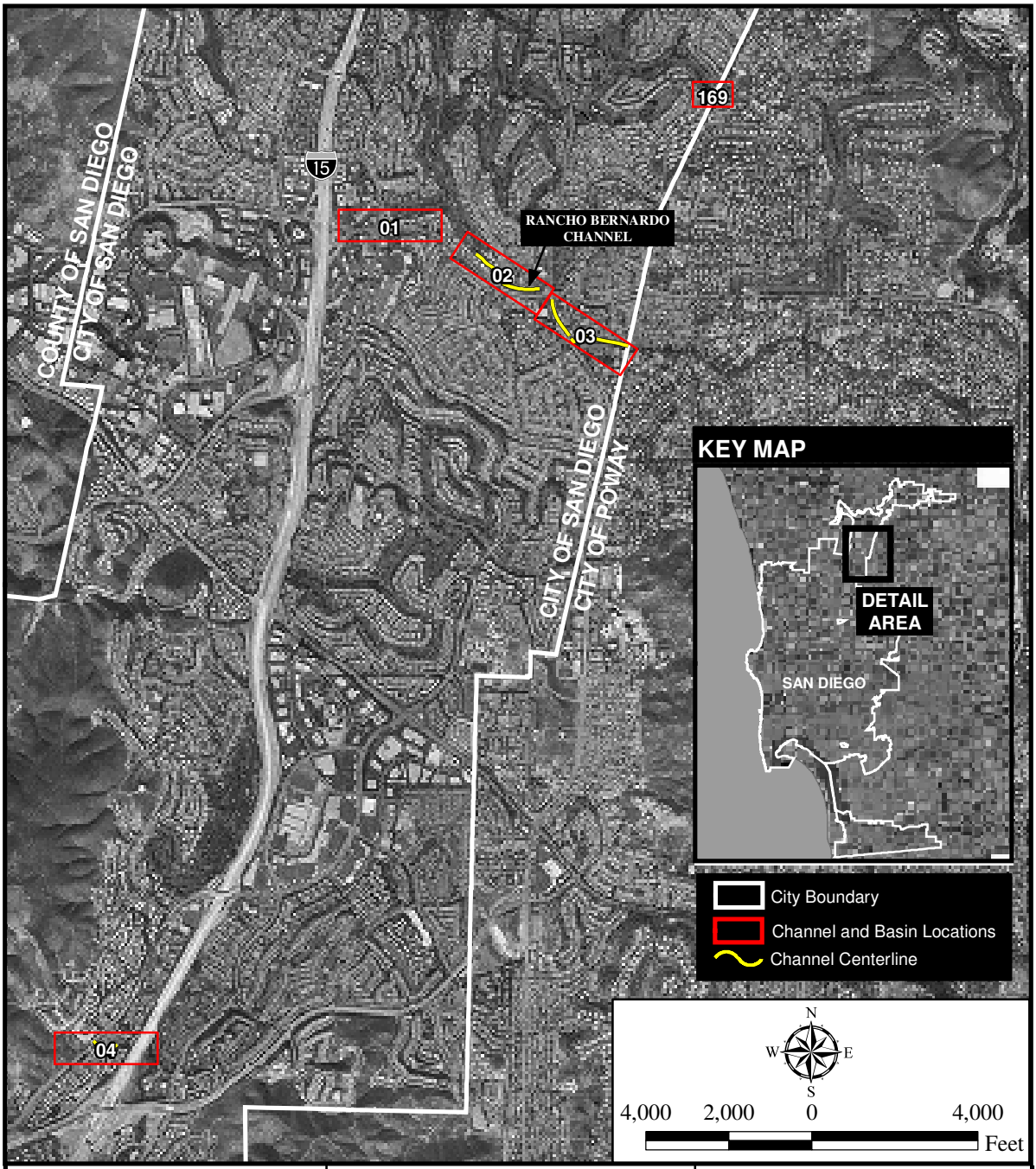

PURPOSE: Storm Drain Maintenance

DATUM: MSL

ADJACENT PROPERTY OWNERS:
See Attachment A to Form 4345

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PLAN VIEW RANCHO BERNARDO AREA

CITY OF SAN DIEGO MASTER STORMWATER SYSTEM MAINTENANCE PROGRAM

202 C Street
San Diego, CA 92101

WATERBODY: N/A

COUNTY: San Diego **STATE:** CA

APPLICANT: City of San Diego

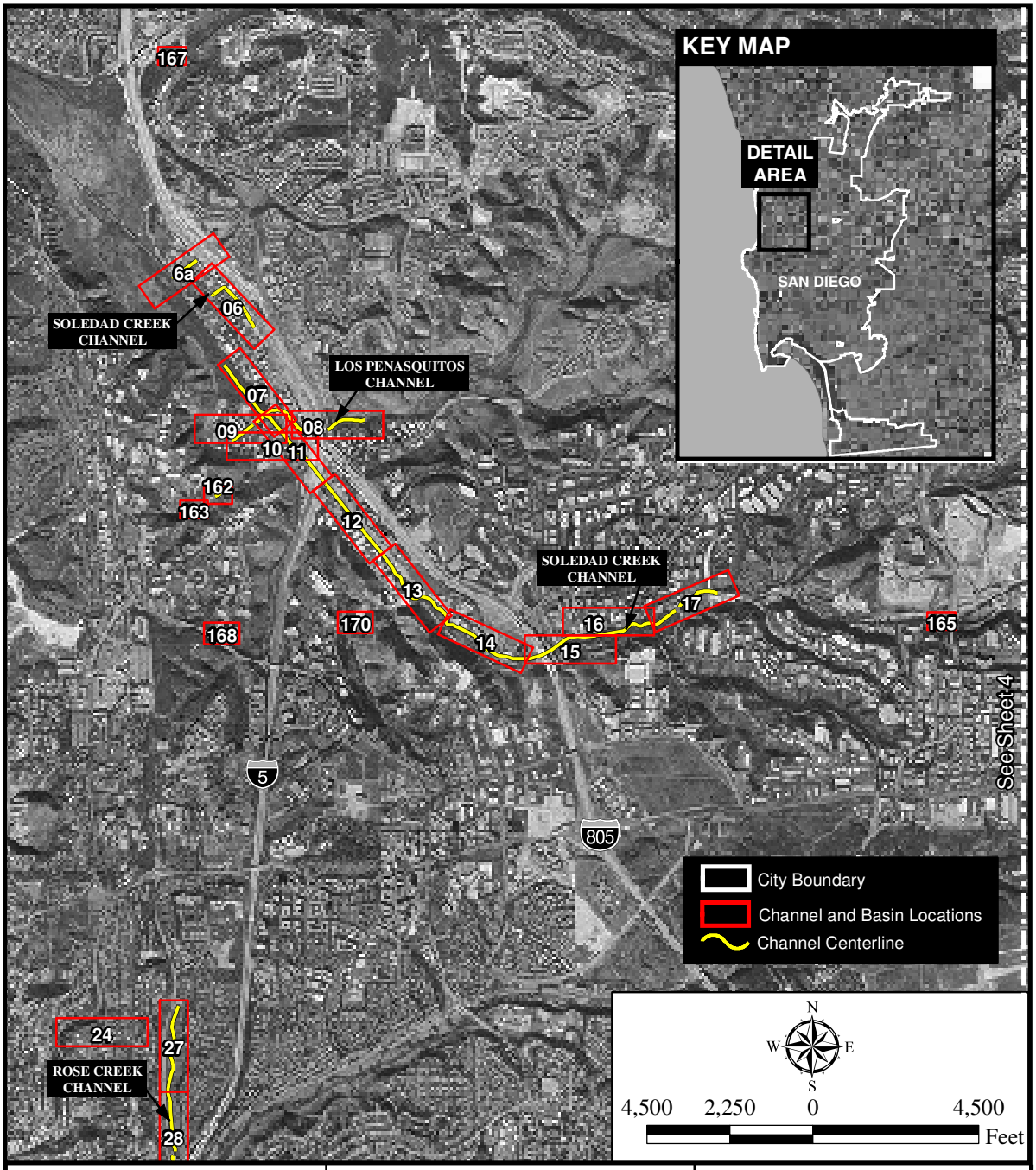
AGENT: HELIX Environmental Planning, Inc.
7578 El Cajon Blvd. Suite 200
La Mesa, CA 91941

USGS Quadrangle: City of San Diego

LAT: 32.904616 LONG: 117.062993

T: 15S R: 4W S: N/A

Sheet 2 of 15 **Date: 02/04/09**



PURPOSE: Storm Drain Maintenance

DATUM: MSL

ADJACENT PROPERTY OWNERS:
See Attachment A to Form 4345

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PLAN VIEW
SOLEDAD AREA A

CITY OF SAN DIEGO MASTER STORMWATER SYSTEM MAINTENANCE PROGRAM

202 C Street
San Diego, CA 92101

WATERBODY: N/A

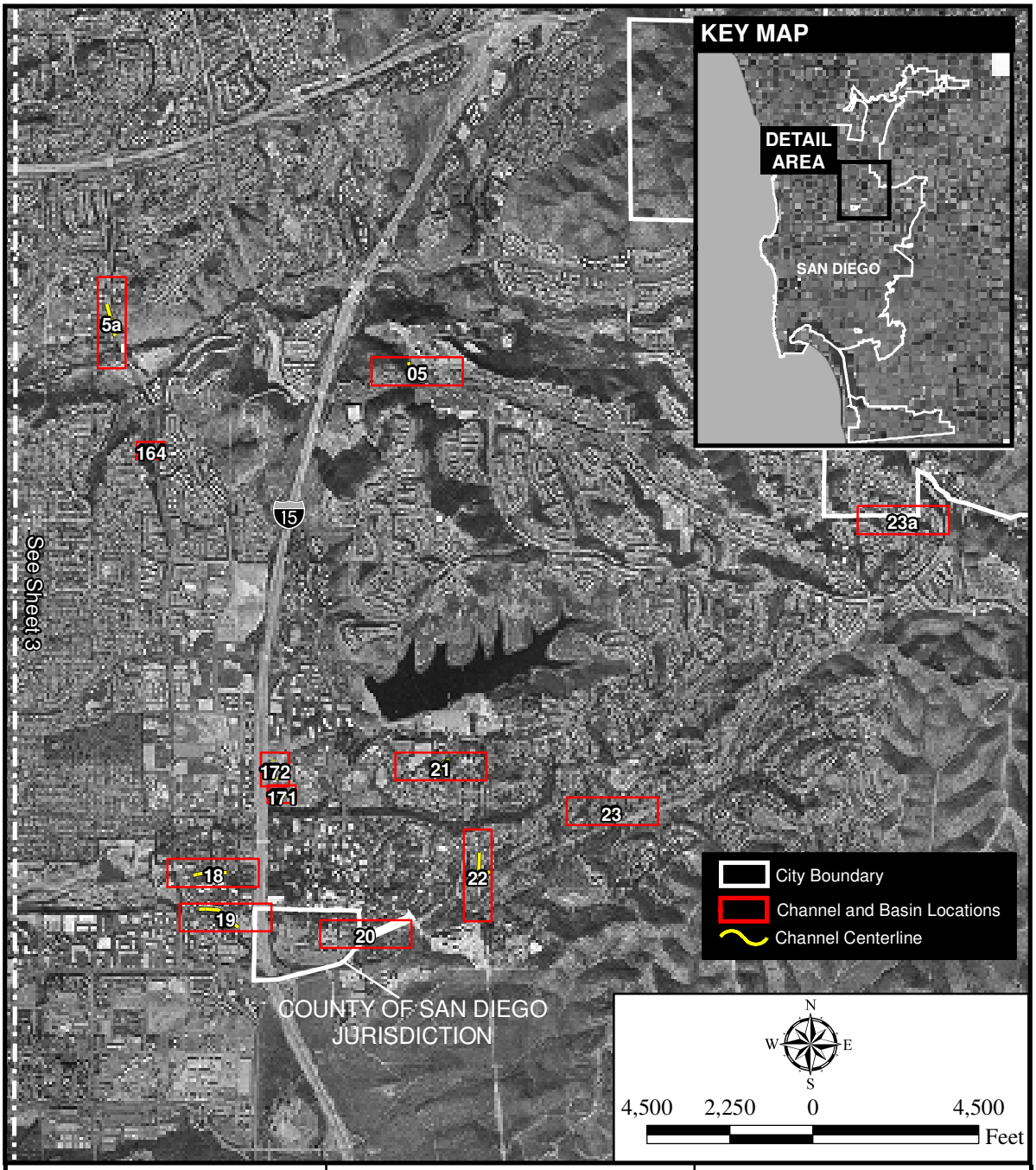
COUNTY: San Diego **STATE:** CA

APPLICANT: City of San Diego

AGENT: HELIX Environmental Planning, Inc.
7578 El Cajon Blvd. Suite 200
La Mesa, CA 91941

USGS Quadrangle: City of San Diego
LAT: 32.904616 LONG: 117.062993
T: 15S R: 4W S: N/A

Sheet 3 of 15 **Date: 02/04/09**



PURPOSE: Storm Drain Maintenance

DATUM: MSL

ADJACENT PROPERTY OWNERS:
See Attachment A to Form 4345

I:\ArcGIS\S\SDM-01\Map\Permit\Sheet4_Soledad.mxd -NM

PLAN VIEW
SOLEDAD AREA B

CITY OF SAN DIEGO MASTER STORMWATER SYSTEM MAINTENANCE PROGRAM

202 C Street
San Diego, CA 92101

WATERBODY: N/A

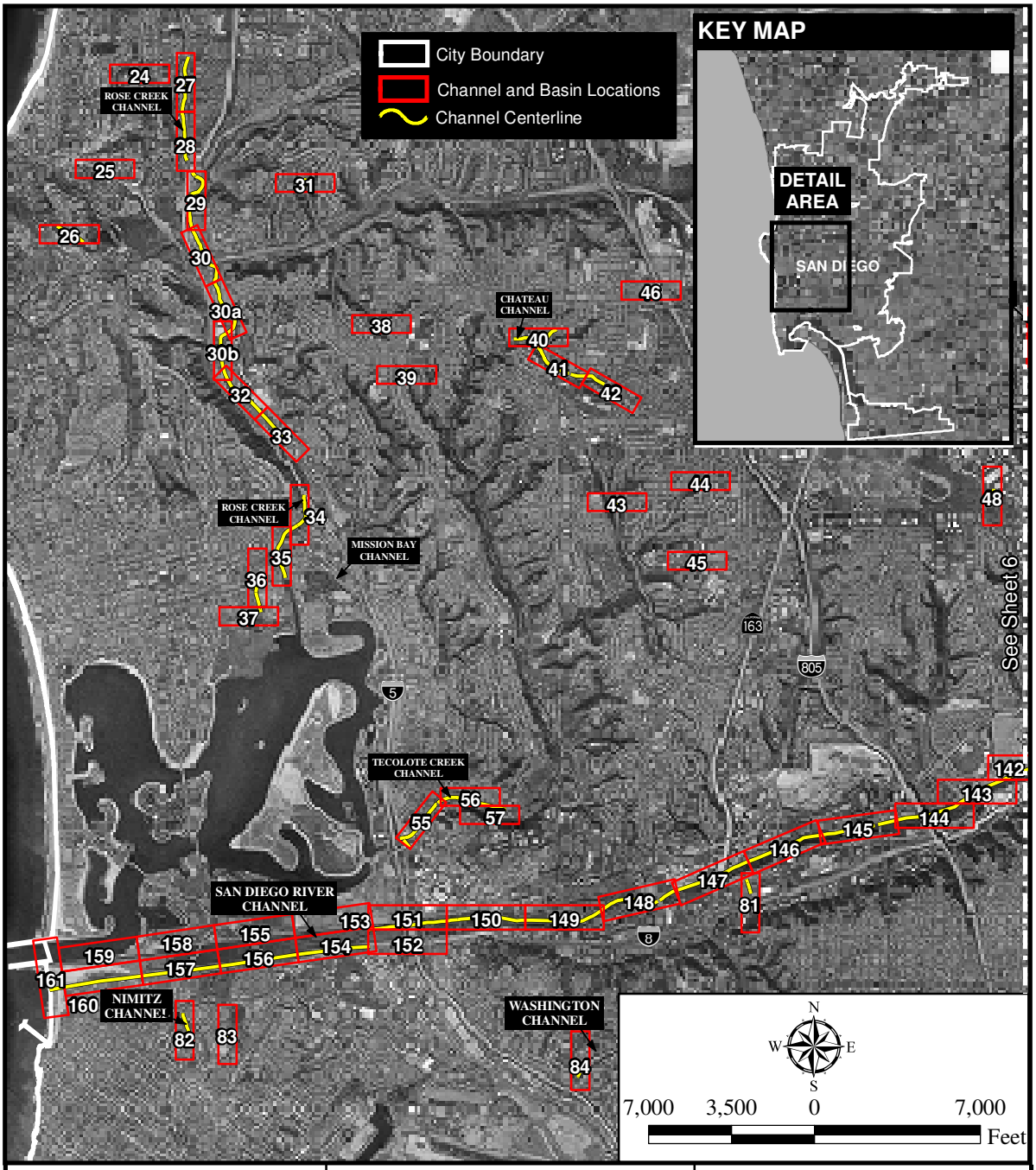
COUNTY: San Diego **STATE:** CA

APPLICANT: City of San Diego

AGENT: HELIX Environmental Planning, Inc.
7578 El Cajon Blvd. Suite 200
La Mesa, CA 91941

USGS Quadrangle: City of San Diego
LAT: 32.904616 LONG: 117.062993
T: 15S R: 4W S: N/A

Sheet 4 of 15 **Date: 02/04/09**



PURPOSE: Storm Drain Maintenance

DATUM: MSL

ADJACENT PROPERTY OWNERS:
See Attachment A to Form 4345

I:\ArcGIS\S\SDM-01\Map\Permit\Sheet5_I8_Corridor.mxd -NM

PLAN VIEW
I-8 CORRIDOR AREA A

CITY OF SAN DIEGO MASTER STORMWATER SYSTEM MAINTENANCE PROGRAM

202 C Street
San Diego, CA 92101

WATERBODY: N/A

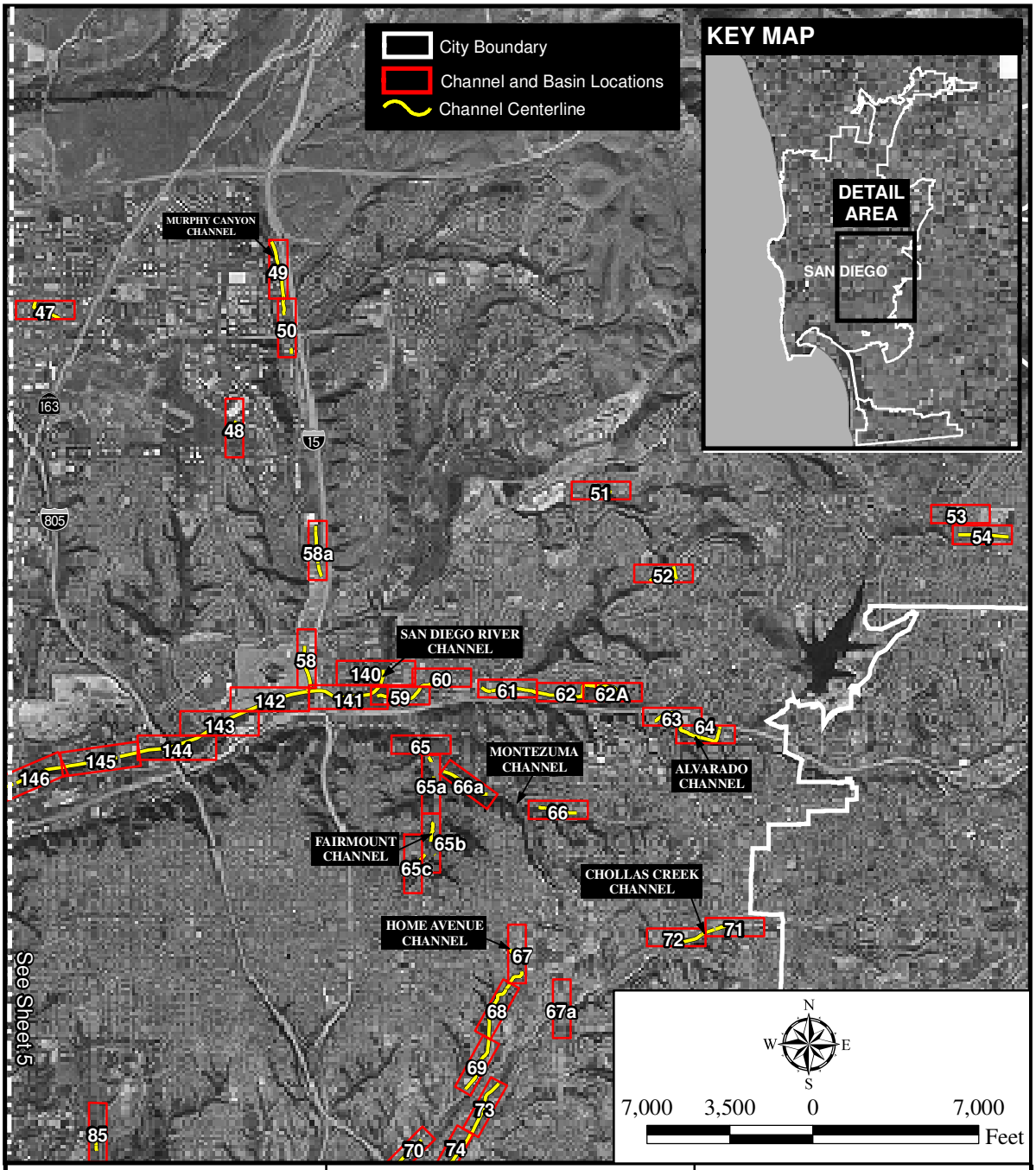
COUNTY: San Diego **STATE:** CA

APPLICANT: City of San Diego

AGENT: HELIX Environmental Planning, Inc.
7578 El Cajon Blvd. Suite 200
La Mesa, CA 91941

USGS Quadrangle: City of San Diego
LAT: 32.904616 LONG: 117.062993
T: 11S R: 4W S: N/A

Sheet 5 of 15 **Date: 02/04/09**



PURPOSE: Storm Drain Maintenance

DATUM: MSL

ADJACENT PROPERTY OWNERS:
See Attachment A to Form 4345

I:\ArcGIS\S\SDM-01\Map\Permit\Sheet6_I8_Corridor.mxd -NM

PLAN VIEW
I-8 CORRIDOR AREA B

CITY OF SAN DIEGO MASTER STORMWATER SYSTEM MAINTENANCE PROGRAM

202 C Street
San Diego, CA 92101

WATERBODY: N/A

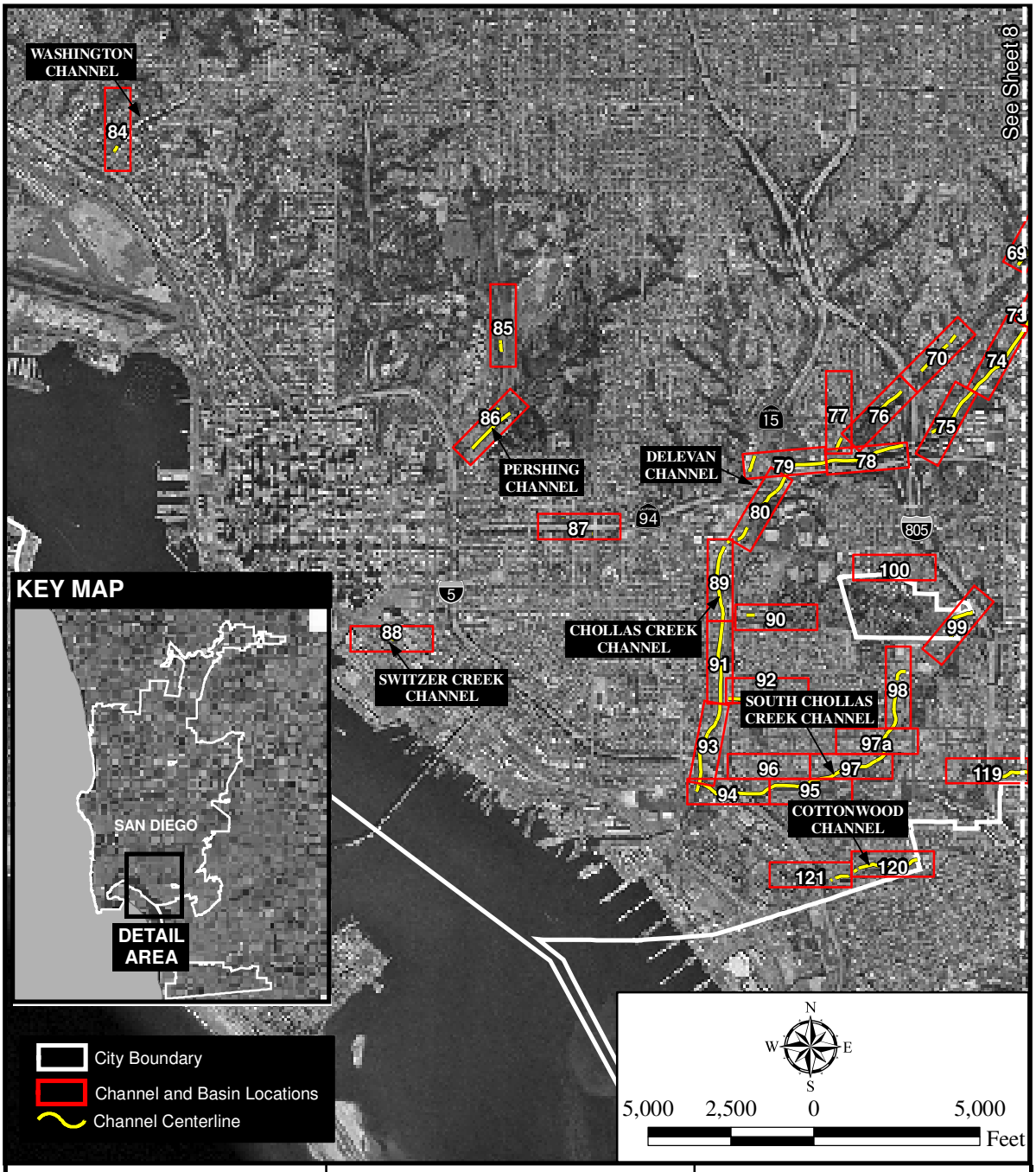
COUNTY: San Diego **STATE:** CA

APPLICANT: City of San Diego

AGENT: HELIX Environmental Planning, Inc.
7578 El Cajon Blvd. Suite 200
La Mesa, CA 91941

USGS Quadrangle: City of San Diego
LAT: 32.904616 LONG: 117.062993
T: 15S R: 4W S: N/A

Sheet 6 of 15 **Date: 02/04/09**



PURPOSE: Storm Drain Maintenance

DATUM: MSL

ADJACENT PROPERTY OWNERS:
See Attachment A to Form 4345

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PLAN VIEW
CENTRAL SAN DIEGO
AREA A

CITY OF SAN DIEGO MASTER STORMWATER SYSTEM MAINTENANCE PROGRAM

202 C Street
San Diego, CA 92101

WATERBODY: N/A

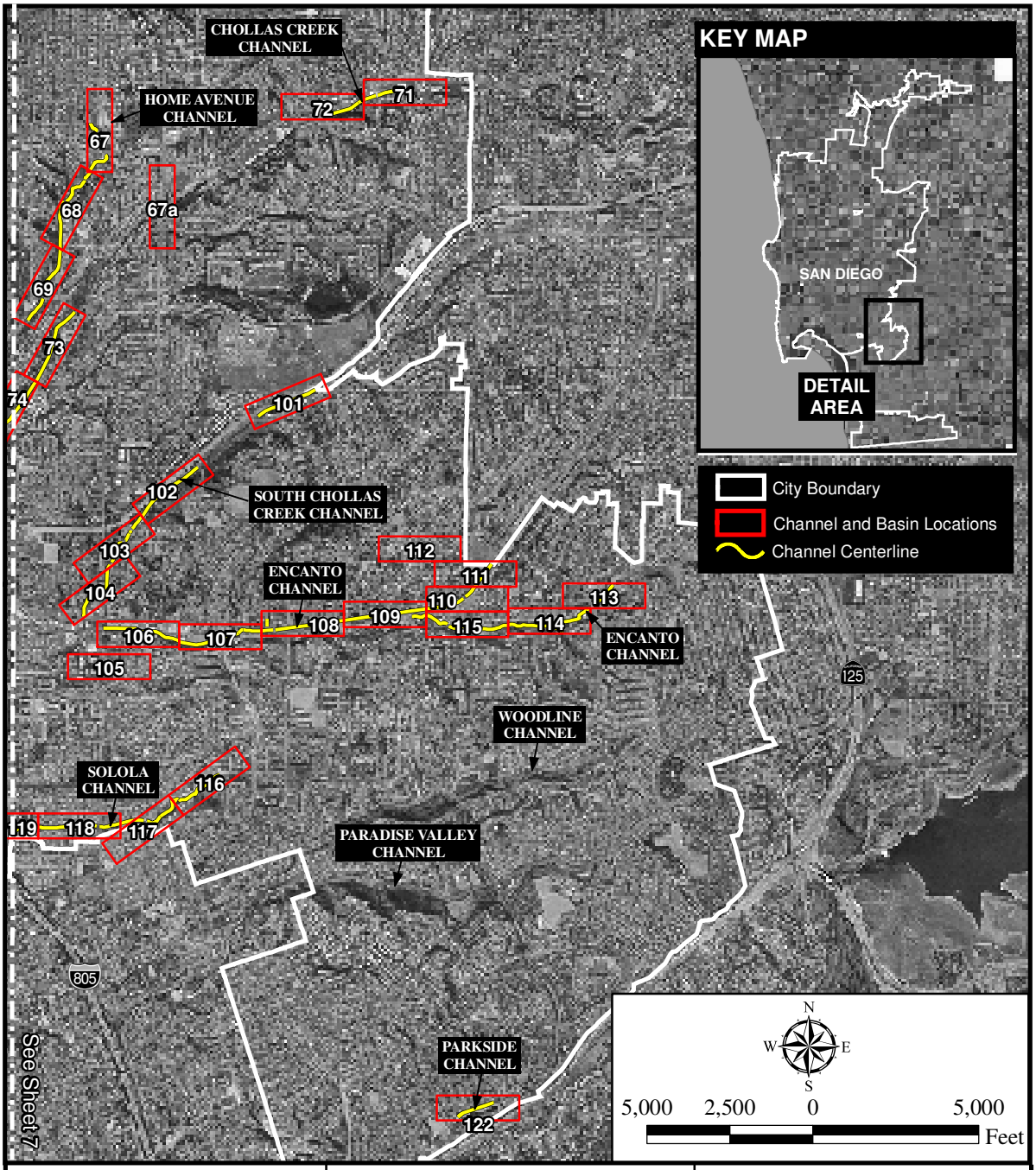
COUNTY: San Diego **STATE:** CA

APPLICANT: City San Diego

AGENT: HELIX Environmental Planning, Inc.
7578 El Cajon Blvd. Suite 200
La Mesa, CA 91941

USGS Quadrangle: City of San Diego
LAT: 32.904616 LONG: 117.062993
T: 15S R: 4W S: N/A

Sheet 7 of 15 **Date: 02/04/09**



PURPOSE: Storm Drain Maintenance

DATUM: MSL

ADJACENT PROPERTY OWNERS:
See Attachment A to Form 4345

I:\ArcGIS\S\SDM-01\Map\Permit\Sheet8_Central_SD.mxd -NM

PLAN VIEW
CENTRAL SAN DIEGO
AREA B

CITY OF SAN DIEGO MASTER STORMWATER SYSTEM MAINTENANCE PROGRAM

202 C Street
San Diego, CA 92101

WATERBODY: N/A

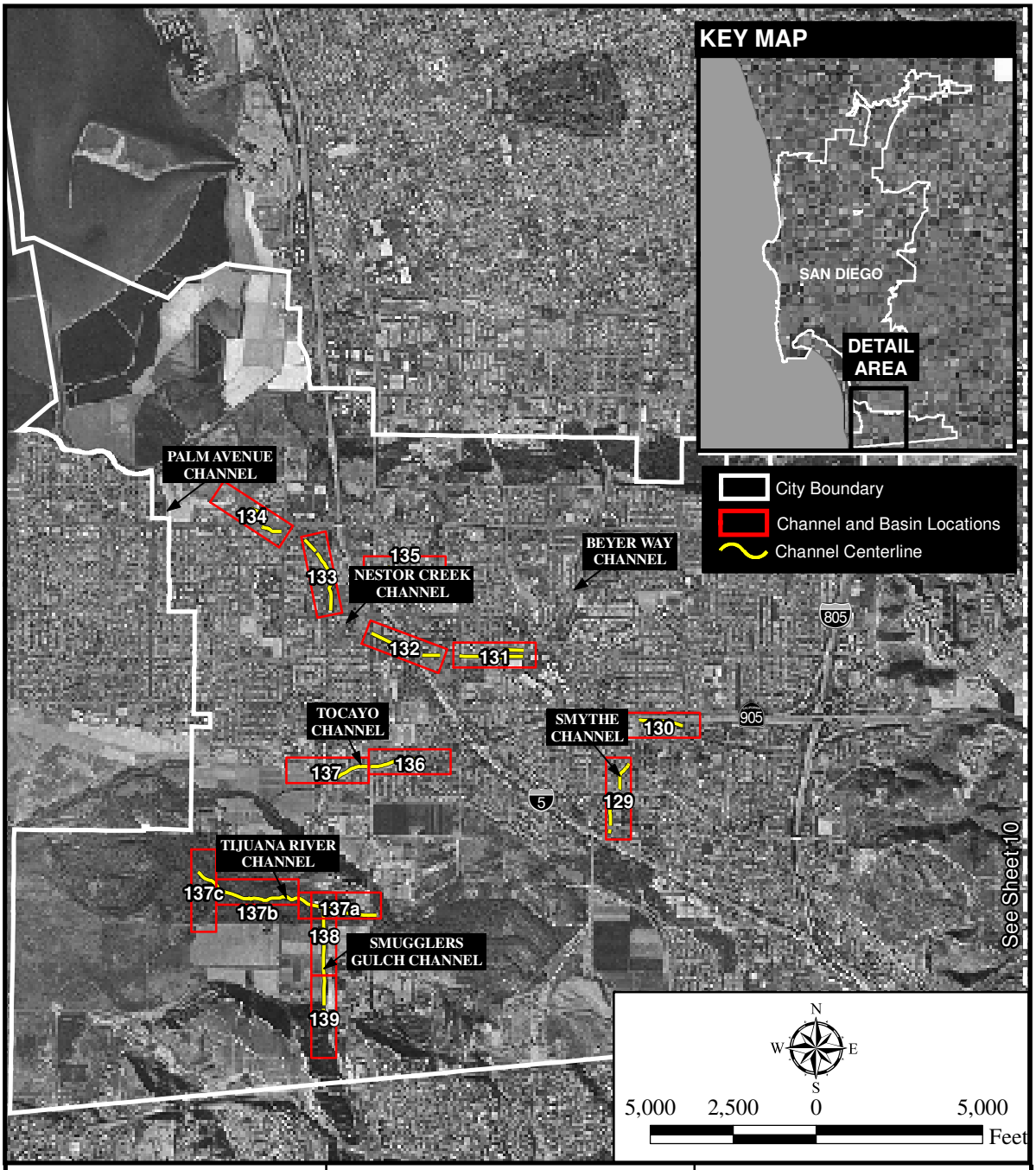
COUNTY: San Diego **STATE:** CA

APPLICANT: City of San Diego

AGENT: HELIX Environmental Planning, Inc.
7578 El Cajon Blvd. Suite 200
La Mesa, CA 91941

USGS Quadrangle: City of San Diego
LAT: 32.904616 LONG: 117.062993
T: 15S R: 4W S: N/A

Sheet 8 of 15 **Date: 02/04/09**



PURPOSE: Storm Drain Maintenance

DATUM: MSL

ADJACENT PROPERTY OWNERS:
See Attachment A to Form 4345

I:\ArcGIS\S\SDM-01\Map\Permit\Sheet9_Otay.mxd -NM

PLAN VIEW
OTAY MESA AREA A

CITY OF SAN DIEGO MASTER STORMWATER SYSTEM MAINTENANCE PROGRAM

202 C Street
San Diego, CA 92101

WATERBODY: N/A

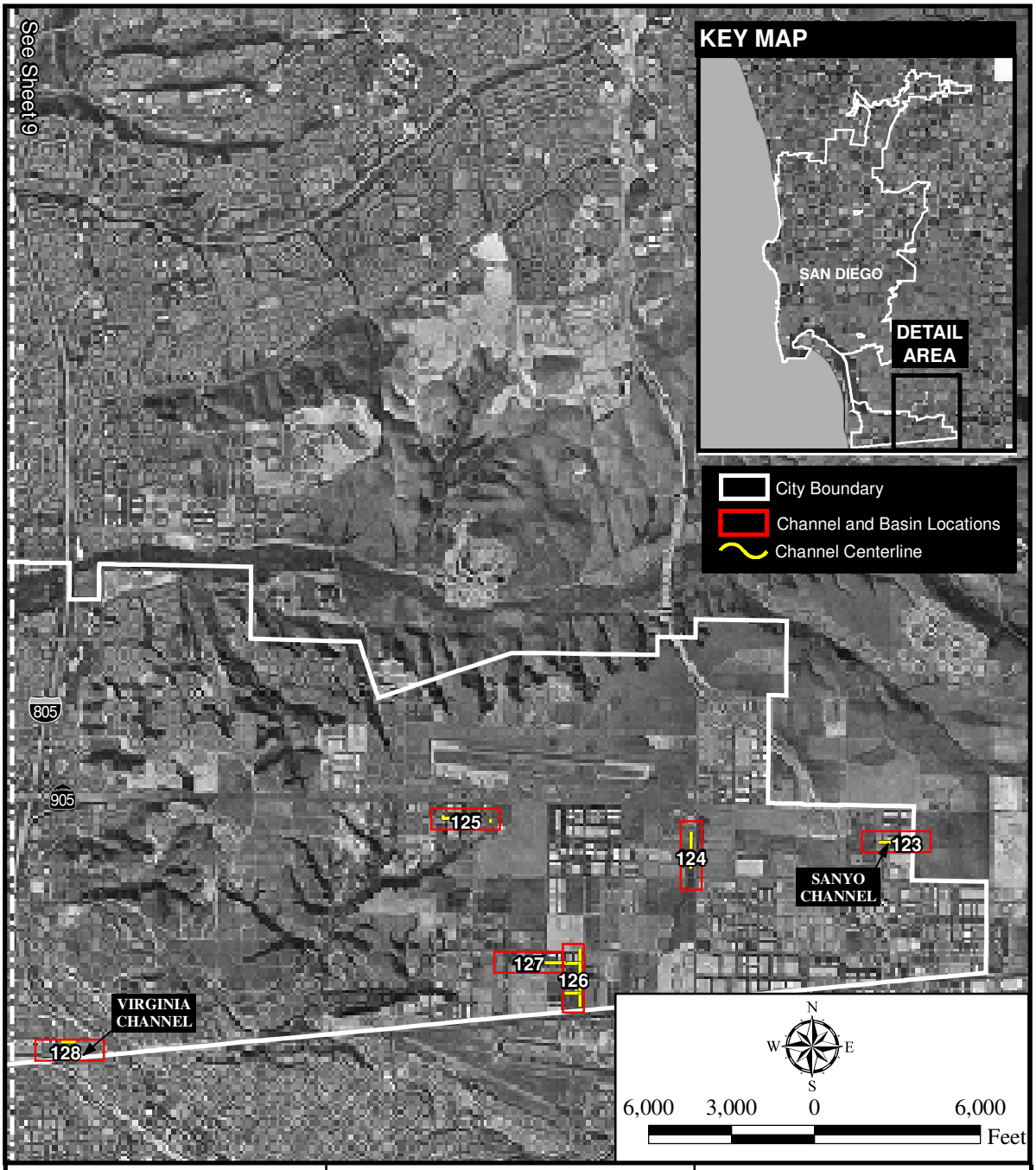
COUNTY: San Diego **STATE:** CA

APPLICANT: City of San Diego

AGENT: HELIX Environmental Planning, Inc.
7578 El Cajon Blvd. Suite 200
La Mesa, CA 91941

USGS Quadrangle: City of San Diego
LAT: 32.904616 LONG: 117.062993
T: 15S R: 4W S: N/A

Sheet 9 of 15 **Date: 02/04/09**



PURPOSE: Storm Drain Maintenance

DATUM: MSL

ADJACENT PROPERTY OWNERS:
See Attachment A to Form 4345

I:\ArcGIS\S\SDM-01\Map\Permit\Sheet10_Otay.mxd -NM

PLAN VIEW
OTAY MESA AREA B

CITY OF SAN DIEGO MASTER STORMWATER SYSTEM MAINTENANCE PROGRAM

202 C Street
San Diego, CA 92101

WATERBODY: N/A

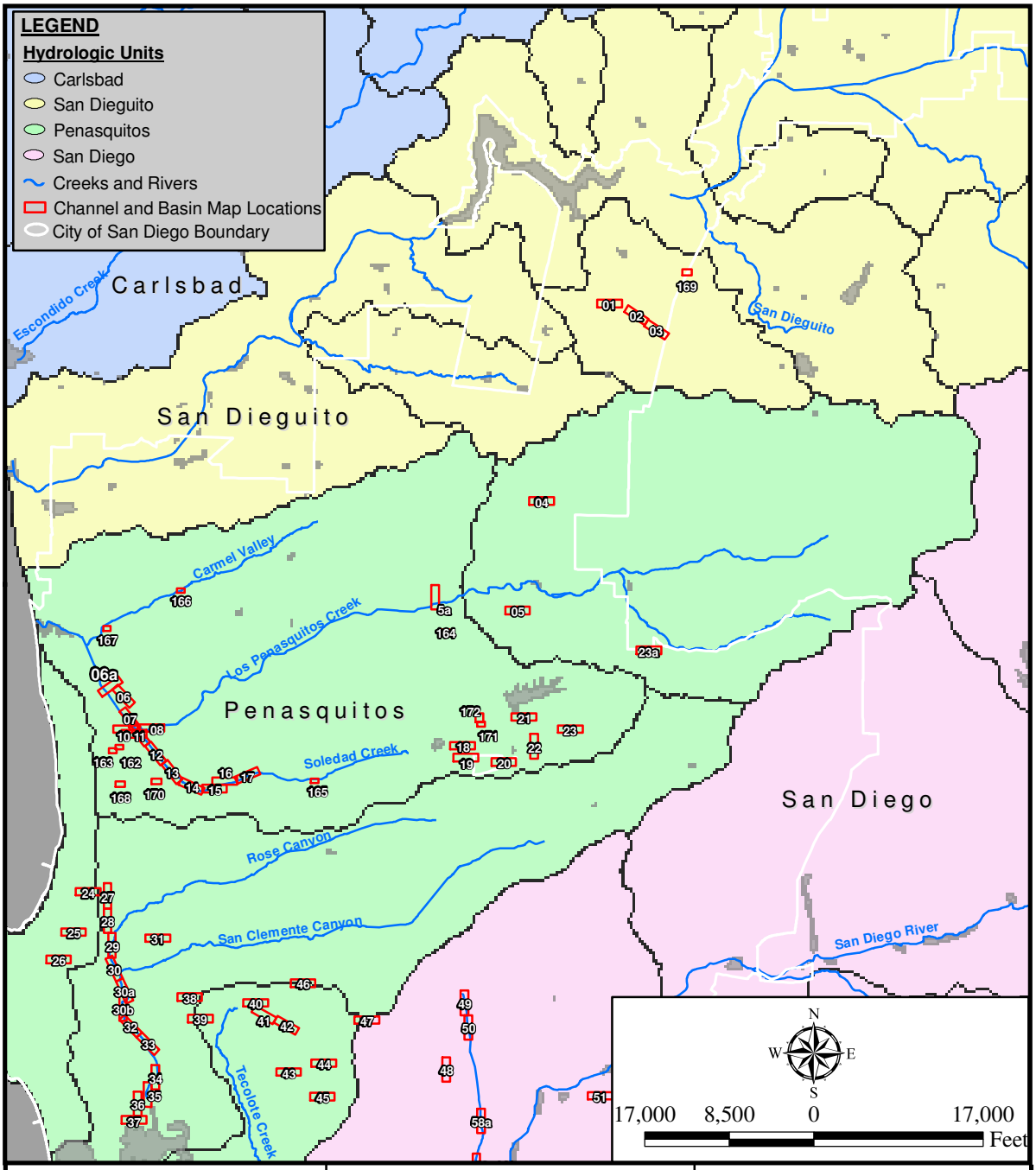
COUNTY: San Diego **STATE:** CA

APPLICANT: City of San Diego

AGENT: HELIX Environmental Planning, Inc.
7578 El Cajon Blvd. Suite 200
La Mesa, CA 91941

USGS Quadrangle: City of San Diego
LAT: 32.904616 LONG: 117.062993
T: 15S R: 4W S: N/A

Sheet 10 of 15 Date: 02/04/09



PURPOSE: Storm Drain Maintenance

DATUM: MSL

ADJACENT PROPERTY OWNERS:
See Attachment A to Form 4345

I:\ArcGIS\S\SDM-01\Map\Permit\Sheet11_HydroAreas.mxd -NM

STUDY AREA LOCATIONS IN RELATION TO HYDROLOGICAL UNITS A

CITY OF SAN DIEGO MASTER STORMWATER SYSTEM MAINTENANCE PROGRAM

202 C Street
San Diego, CA 92101

WATERBODY: N/A

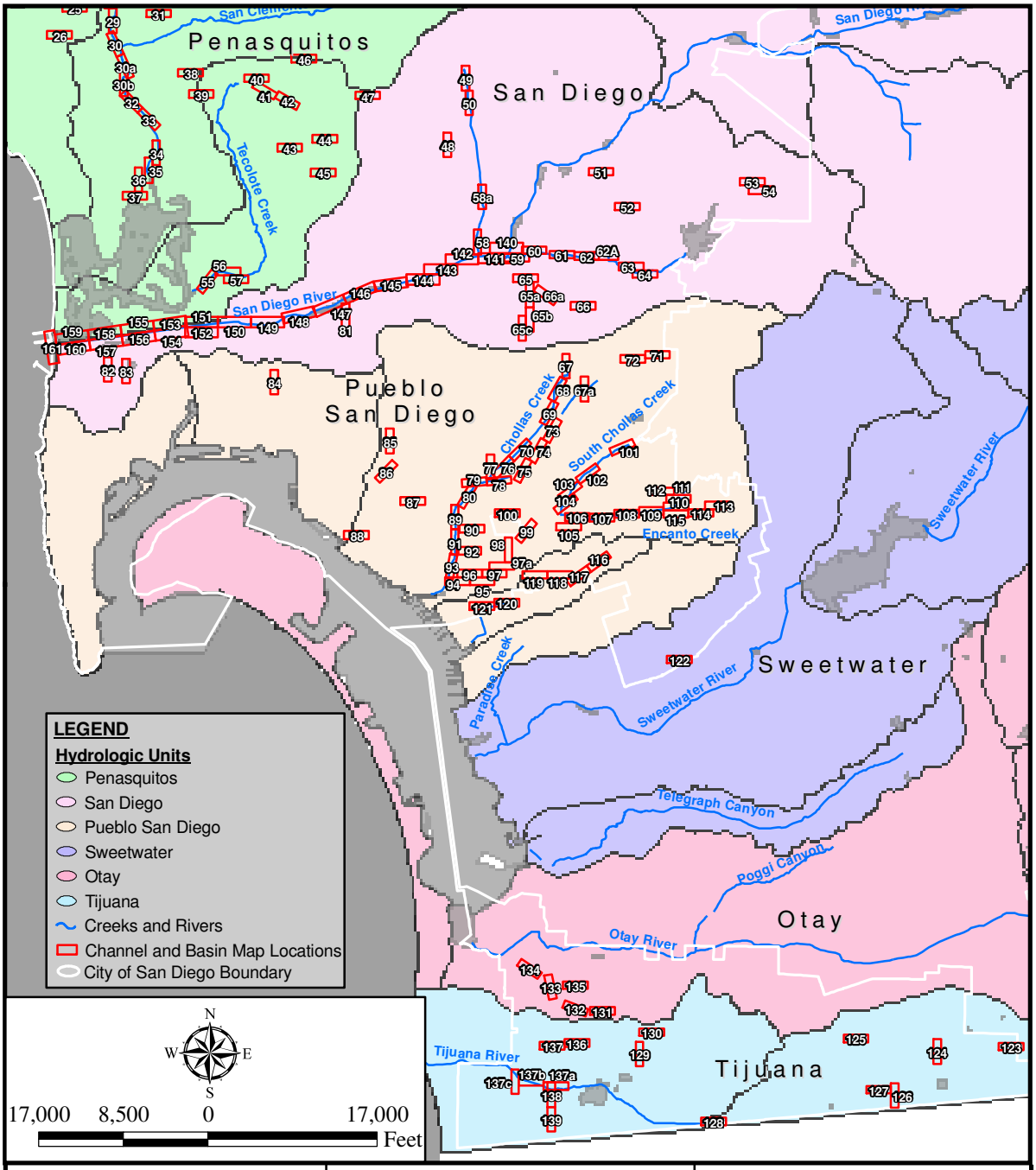
COUNTY: San Diego **STATE:** CA

APPLICANT: City of San Diego

AGENT: HELIX Environmental Planning, Inc.
7578 El Cajon Blvd. Suite 200
La Mesa, CA 91941

USGS Quadrangle: City of San Diego
LAT: 32.904616 LONG: 117.062993
T: 15S R: 4W S: N/A

Sheet 11 of 15 Date: 02/04/09



PURPOSE: Storm Drain Maintenance

DATUM: MSL

ADJACENT PROPERTY OWNERS:
See Attachment A to Form 4345

I:\ArcGIS\S\SDM-01\Map\Permit\Sheet12_HydroAreas.mxd -NM

STUDY AREA LOCATIONS IN RELATION TO HYDROLOGICAL UNITS B

CITY OF SAN DIEGO MASTER STORMWATER SYSTEM MAINTENANCE PROGRAM

202 C Street
San Diego, CA 92101

WATERBODY: N/A

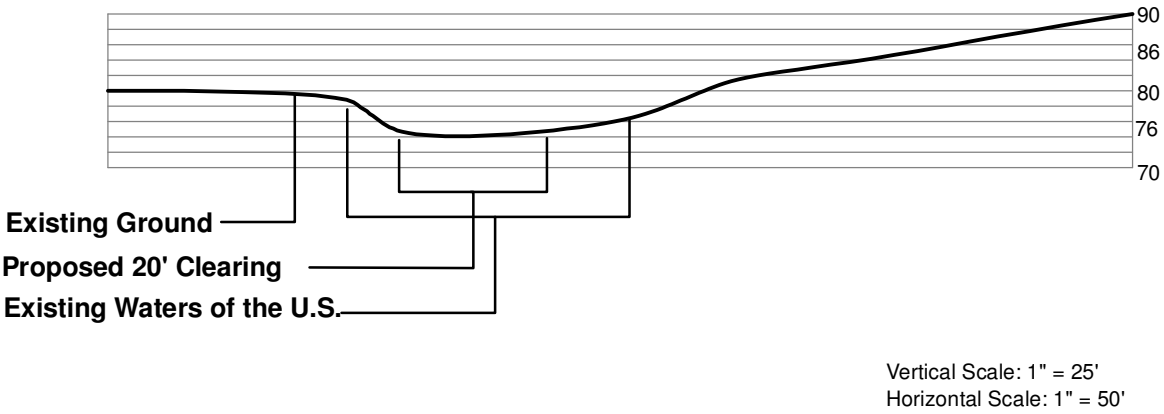
COUNTY: San Diego **STATE:** CA

APPLICANT: City of San Diego

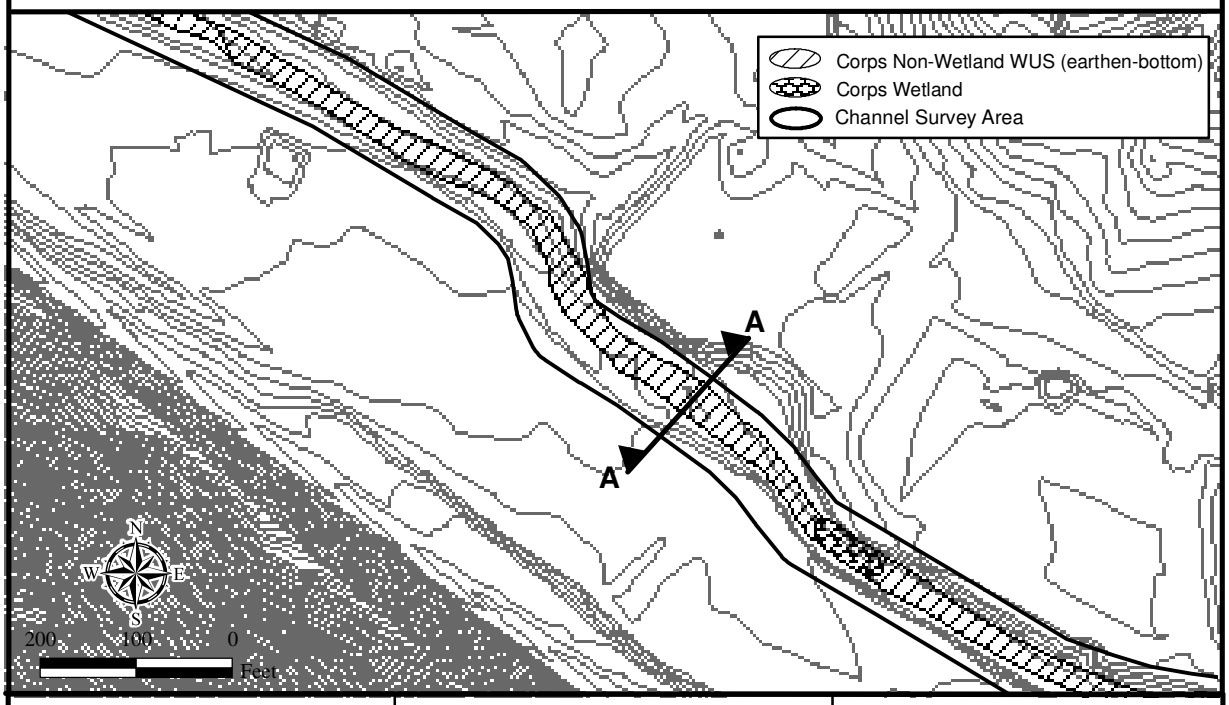
AGENT: HELIX Environmental Planning, Inc.
7578 El Cajon Blvd. Suite 200
La Mesa, CA 91941

USGS Quadrangle: City of San Diego
LAT: 32.904616 LONG: 117.062993
T: 15S R: 4W S: N/A

Sheet 12 of 15 Date: 02/04/09



Vertical Scale: 1" = 25'
Horizontal Scale: 1" = 50'



PURPOSE: Storm Drain Maintenance

DATUM: MSL

ADJACENT PROPERTY OWNERS:
See Attachment A to Form 4345

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CROSS SECTION A-A THROUGH WATERS OF THE U.S.

CITY OF SAN DIEGO MASTER STORMWATER SYSTEM MAINTENANCE PROGRAM

202 C Street
San Diego, CA 92101

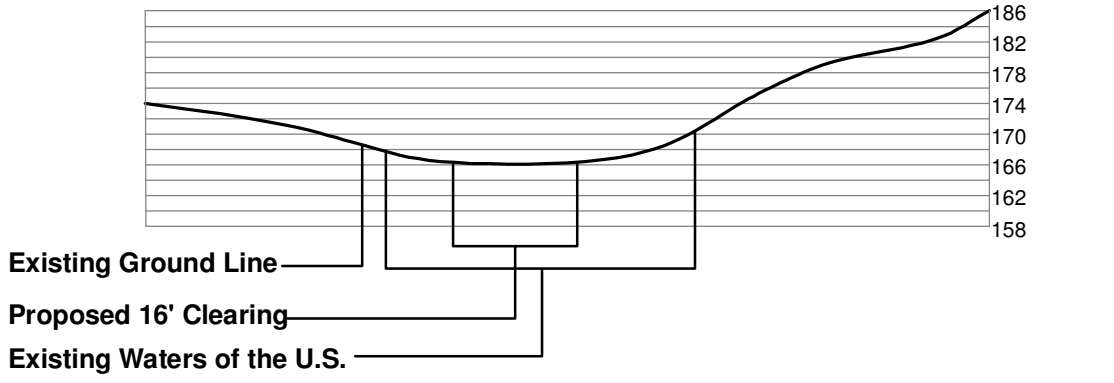
WATERBODY: Soledad Creek Channel

COUNTY: San Diego **STATE:** CA
APPLICANT: City of San Diego

AGENT: HELIX Environmental Planning, Inc.
7578 El Cajon Blvd. Suite 200
La Mesa, CA 91941

USGS Quadrangle: City of San Diego
LAT: 32.904616 LONG: 117.062993
T: 15S R: 4W S: N/A

Sheet 13 of 15 Date: 02/04/09



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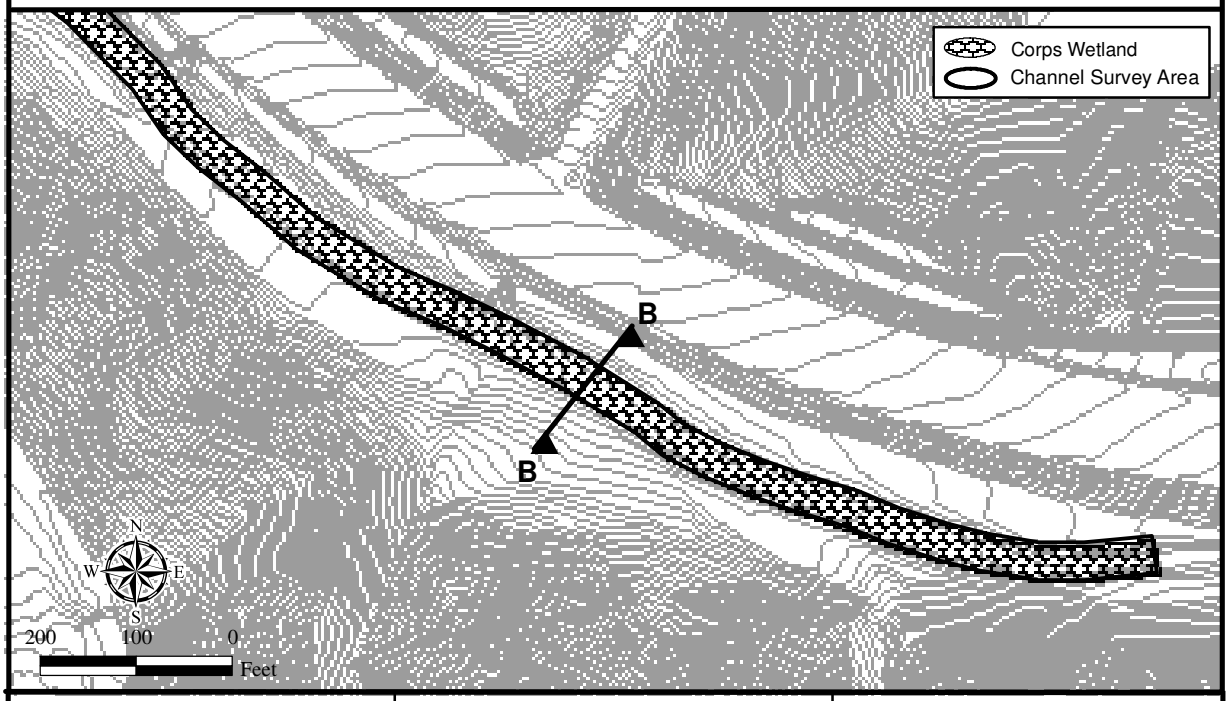


PURPOSE: Storm Drain Maintenance

DATUM: MSL

ADJACENT PROPERTY OWNERS:
See Attachment A to Form 4345

I:\ArcGIS\S\SDM-01\Map\Permit\Sheet14_Section_BB.mxd -NM

CROSS SECTION B-B THROUGH WATERS OF THE U.S.

CITY OF SAN DIEGO MASTER STORMWATER SYSTEM MAINTENANCE PROGRAM

202 C Street
San Diego, CA 92101

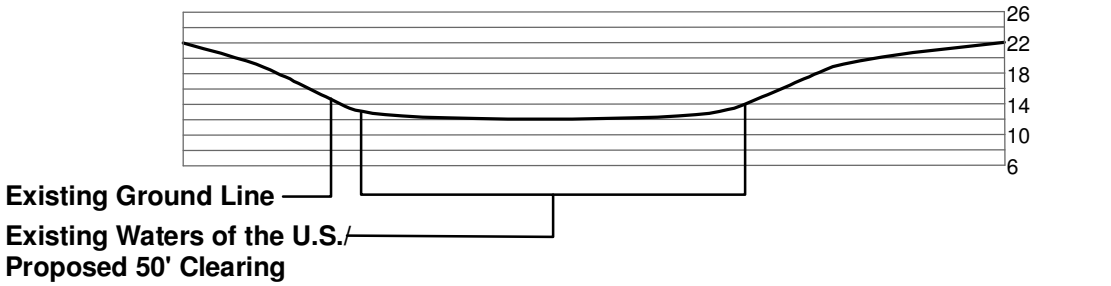
WATERBODY: Montezuma Channel

COUNTY: San Diego **STATE:** CA
APPLICANT: City of San Diego

AGENT: HELIX Environmental Planning, Inc.
7578 El Cajon Blvd. Suite 200
La Mesa, CA 91941

USGS Quadrangle: City of San Diego
LAT: 32.904616 LONG: 117.062993
T: 15S R: 4W S: N/A

Sheet 14 of 15 Date: 02/04/09



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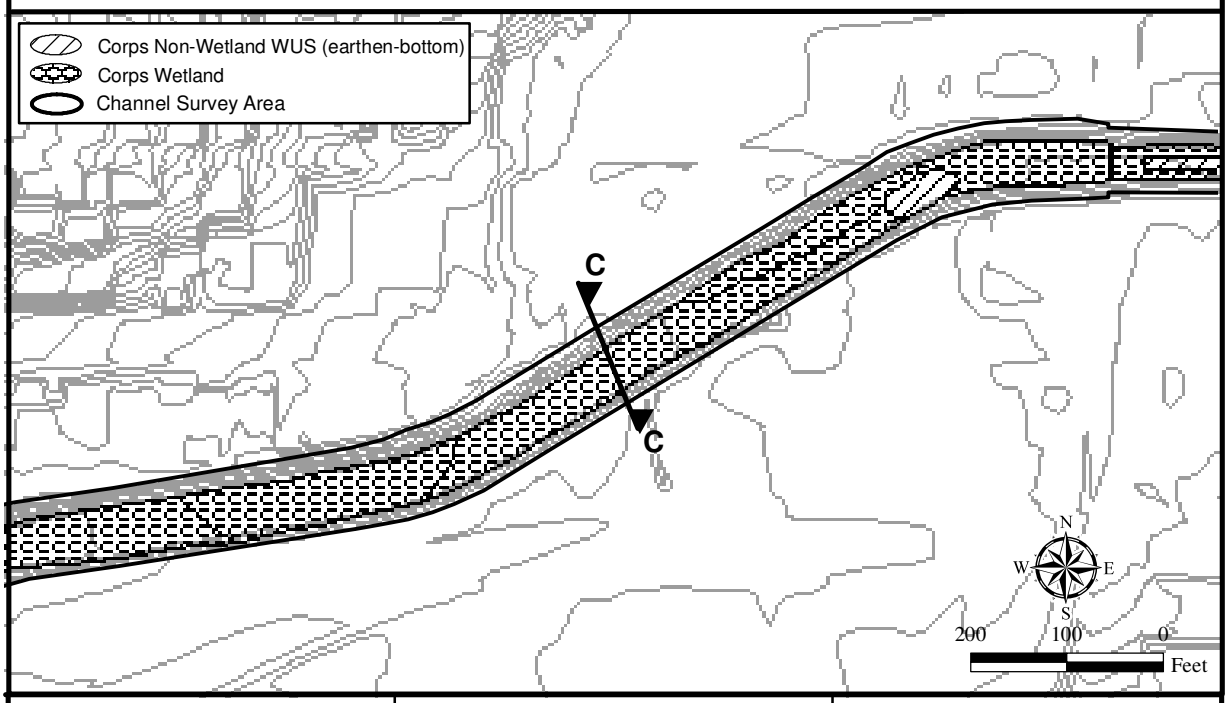
Horizontal Scale: 1" = 50'



PURPOSE: Storm Drain Maintenance

DATUM: MSL

ADJACENT PROPERTY OWNERS:
See Attachment A to Form 4345

I:\ArcGIS\S\SDM-01\Map\Permit\Sheet15_Section_CC.mxd -NM

CROSS SECTION C-C THROUGH WATERS OF THE U.S.

CITY OF SAN DIEGO MASTER STORMWATER SYSTEM MAINTENANCE PROGRAM

202 C Street
San Diego, CA 92101

WATERBODY: South Chollas Creek Channel

COUNTY: San Diego **STATE:** CA

APPLICANT: City of San Diego

AGENT: HELIX Environmental Planning, Inc.
7578 El Cajon Blvd. Suite 200
La Mesa, CA 91941

USGS Quadrangle: City of San Diego

LAT: 32.904616 LONG: 117.062993

T: 15S R: 4W S: N/A

Sheet 15 of 15 Date: 02/04/09