

Appendix XIX. Retrofit and Rehabilitation Program

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Retrofit and Rehabilitation Program

1.0 Introduction

The Regional Water Quality Control Board, San Diego Region (RWQCB) Order No. R9-2013-0001 (Municipal Permit or Permit) requires the 18 municipalities in San Diego County, the County of San Diego, the San Diego County Regional Airport Authority, and the San Diego Unified Port District, including the City of San Diego (City) to develop a program that will retrofit areas of existing development and a program to rehabilitate streams, channels, and/or habitats within the City's jurisdiction. Addressing the highest priority water quality conditions (HPWQCs) for each Watershed Management Area (WMA) is a key goal of this program. The City's retrofit and rehabilitation program may be modified through an adaptive management process over the course of the Permit term.

2.0 Program Organization

The City does not maintain one overarching retrofit and rehabilitation program. Rather, the City has several different programs that contribute to retrofits or stream, channel, and/or habitat rehabilitation efforts within areas of existing development, as summarized below:

- Alternative compliance provisions for development projects, which allow offsite retrofit or rehabilitation projects in lieu of meeting the relevant storm water requirements solely through onsite practices. Because this effort is currently under development, the process and responsible departments will be identified in the future.
- Obtaining grants for storm water improvements, led by the Transportation & Storm Water Department, Storm Water Division.
- Implementing retrofit or rehabilitation projects undertaken as mitigation measures through the Master Maintenance Program for channel maintenance, led by the Storm Water Division.
- Implementing projects, typically green infrastructure or other structural water quality improvement BMPs, as part of the City's efforts to comply with applicable Total Maximum Daily Load (TMDL) requirements. The Storm Water Division leads TMDL compliance efforts.

3.0 Candidate Projects

The Municipal Permit requires the City to identify candidate retrofit and stream rehabilitation projects. When resources to complete a retrofit or stream restoration project become available, the list of candidate projects is a useful resource. Retrofit or rehabilitation projects that are not

on the candidate project list may also be implemented; the presence of the candidate project list does not preclude projects that are not included on the list from being pursued.

The City has developed an initial candidate project list (Attachment 1) that incorporates projects identified in the regional Watershed Management Area Analysis (WMAA) and in previous planning efforts, including its Comprehensive Load Reduction Plan documents, which were prepared in response to TMDLs. The City is also currently assessing channel rehabilitation and retrofit opportunities for a subset of channels included in the Master Maintenance Program through its Channel Maintenance Special Study (CMSS).

A legal agreement¹ related to the Master Maintenance Program requires a CMSS be completed to evaluate the purpose, need, and alternatives to channel maintenance activities for channels maintained during the first two years of Master Maintenance Program implementation which corresponds to City Fiscal Years 2014 and 2015 (FY 14–15). Operationally, a series of individual technical reports, each focused on a specific channel area maintained during the first two years of the Master Maintenance Program, comprise the CMSS.

Within the framework of the CMSS, channel assessment and retrofit evaluation requires consideration of a number of factors including maintenance practices, environmental resource avoidance and minimization measures, adjacent infrastructure, and project alternatives. Combined, these elements address the specific terms of the underlying legal agreement for each focal channel and potentially allow the focal channels segments to be considered for retrofit and rehabilitation as part of future programs and projects. Beyond these efforts, the City is also soliciting additional project recommendations from the public.

The purpose of the candidate project list is to identify potential projects. Most candidate projects have been identified only at a basic conceptual stage, and more detailed investigation may find that they are not feasible. Implementation of projects on the candidate project list is also contingent upon funding availability.

Projects may be added to or removed from the candidate project list as additional data becomes available in the future. Factors considered when identifying projects to be included as candidate projects are summarized in sections 3.1 (retrofits) and 3.2 (stream, channel, and/or habitat rehabilitation) below.

3.2 Identifying Retrofit Candidate Projects

As defined by the Municipal Permit, a retrofit is a “storm water management practice put into place after development has occurred in watersheds where the practices previously did not exist

¹ 2013. Settlement Agreement and Release. San Diegans for Open Government and Coastal Environmental Rights Foundation v. City of San Diego.

or are ineffective.” Potential projects can include, for example, disconnecting roof downspouts and impervious surfaces and redirecting them to pervious areas, installing rain barrels, or implementing green streets. The following factors are considered when identifying candidate projects.

- **Directly targets the City's HPWQCs and helps make progress toward Water Quality Improvement Plan (WQIP) numeric goals.**
- **Feasibility of project.** The feasibility of the project is an important consideration that takes into account a project's likelihood of obtaining funding, constructability, ease of implementation and operation, and any potential impediments. The project's viability takes into account the amount of resources City staff are able to commit to the project. Candidates that may place a considerable administrative burden on City staff, or that may require significant City resources to maintain and operate are generally less desirable projects and may be entirely infeasible.
- **Total area of high threat to water quality (TTWQ) properties.** The total area of inventoried existing development (industrial, commercial, municipal, and residential) classified as having a high TTWQ draining to a candidate project will be considered. The facility's or area's TTWQ is based on the prioritization processes discussed in sections 6.0, 7.0, and 8.0 of the JRMP document which takes into account the facility's or area's pollutant discharge potential and proximity to and sensitivity of the water body in which the area drains to.
- **Land use.** Land use of the area tributary to a potential retrofit project is an important consideration when selecting retrofit project candidates. Land uses commonly associated with the HPWQCs described above will be considered before other land uses. Commonly, agricultural areas and commercial nurseries are seen as likely sources of nutrients, since fertilizers are typically used during routine operations.
- **Multiple benefits of project.** Candidate projects with the potential to contribute to the overall enhancement of the local environment are preferred. Other benefits of retrofit projects can include, but are not limited to, the following:
 - Enhanced walkability or pedestrian safety and access
 - Community beautification, such as streetscape aesthetics or incorporating murals other features with significant artistic value
 - Improved flood protection
 - Improved access to green spaces or recreational opportunities
 - Environmental justice

- **Land availability.** If there is development bordering a potential stream segment on both sides of the stream, it would be difficult to complete a retrofit project. Similarly, land ownership is another factor to consider when identifying areas for potential projects. If the City owns the property where a project is being considered, that is the best case scenario. If another public agency, like a school district, owns the property, then that is second best, whereas, if the land is privately owned, especially if there are many land owners, the project could become more complicated to execute.
- **Amount of impervious area.** Projects that have the potential to treat a large area of impervious surfaces are ideal project candidates. Impervious surfaces are generally recognized as sources of common storm water pollutants such as oil and grease, heavy metals, and sediment (California Stormwater Quality Association, 2003).
- **Cost effectiveness.** Projects that are able to remove the greatest unit of pollution for the lowest cost are preferred. Long term structural best management practice (BMP) maintenance cost will also be considered.
- **Opportunities for infiltration or retention.** Ideal candidates will incorporate structural BMPs suitable for infiltration or retention. The project's suitability is primarily determined by the soil type for the proposed project area, but also by depth to groundwater and proximity to neighboring buildings and infrastructure. Infiltration is the most effective BMP, since it has close to 100 percent pollutant removal efficiency and also reduces runoff volume, and requires relatively low maintenance (California Stormwater Quality Association, 2003). Since there are few areas within San Diego County where infiltration is feasible, if a project is able to incorporate infiltration BMPs, it should be considered.

3.3 Identifying Stream, Channel, and/or Habitat Rehabilitation Candidate Projects

The Municipal Permit states that rehabilitation methods may include in-stream restoration, off-line storm water management practices installed in the system corridor or upland areas, or a combination of in-stream and out-of-stream techniques. Some of these techniques may include riparian zone restoration, constructed wetlands, channel modifications, and daylighting of drainage systems. The following factors are considered when identifying candidate projects.

- **Directly targets the City's HPWQCs and helps make progress toward WQIP numeric goals.**
- **Feasibility of project.** The feasibility of the project is an important consideration that takes into account a project's likelihood of obtaining funding, constructability, ease of implementation and operation, and any potential impediments. The project's viability takes into account the amount of resources City staff are able to commit to the project. Candidates that may place a considerable administrative burden on City staff, or that may

require significant City resources to maintain and operate are generally less desirable projects and may be entirely infeasible.

- **Multiple benefits of project.** Candidate projects with the potential to contribute to the overall enhancement of the local environment are preferred. Other benefits of rehabilitation projects can include, but are not limited to, the following:
 - Enhanced walkability or pedestrian safety and access
 - Community beautification, such as streetscape aesthetics or incorporating murals other features with significant artistic value
 - Improved flood protection
 - Improved access to green spaces or recreational opportunities
 - Environmental justice
- **Beneficial uses.** Stream segments with the following beneficial uses designated by the Basin Plan should be considered for rehabilitation before others:
 - Preservation of Biological Habitats of Special Significance (BIOL) – Includes uses of water that support designated areas or habitats, such as established refuges, parks, sanctuaries, ecological reserves, or Areas of Special Biological Significance), where the preservation or enhancement of natural resources requires special protection.
 - Cold Freshwater Habitat (COLD) – Includes uses of water that support cold water ecosystems including, but not limited to, preservation or enhancement of aquatic habitats, vegetation, fish or wildlife, including invertebrates.
 - Estuarine Habitat (EST) – Includes uses of water that support estuarine ecosystems including, but not limited to, preservation or enhancement of estuarine habitats, vegetation, fish, shellfish, or wildlife (e.g., estuarine mammals, waterfowl, shorebirds).
 - Freshwater Replenishment (FRSH) – Includes uses of water for natural or artificial maintenance of surface water quantity or quality (e.g., salinity).
 - Rare, Threatened or Endangered Species (RARE) – Includes uses of water that support habitats necessary, at least in part, for the survival and successful maintenance of plant or animal species established under state or federal law as rare, threatened, or endangered.
 - Inland Saline Water Habitat (SAL) – Includes uses of water that support inland saline water ecosystems including, but not limited to, preservation or

enhancement of aquatic saline habitats, vegetation, fish or wildlife, including invertebrates.

- Spawning, Reproduction, and/or Early Development (SPWN) – Includes uses of water that support high quality habitats suitable for reproduction, early development, and sustenance of marine fish and/or cold freshwater fish.
- Warm Freshwater Habitat (WARM) – Includes uses of water that support warm water ecosystems including, but not limited to, preservation or enhancement of aquatic habitats, vegetation, fish or wildlife, including invertebrates.

Stream or channel segments with multiple beneficial uses, are desirable candidates.

- **Land availability.** If there is development bordering a potential stream segment on both sides of the stream, it would be difficult to complete a restoration project. Similarly, land ownership is another factor to consider when identifying candidate projects. If the City owns the property where a project is being considered, that is the best case scenario. If another public agency, like a school district, owns the property, then that is second best. Whereas, if the land is privately owned, especially if there are many land owners, the project could become more complicated to execute.
- **Amount of impervious area.** Projects that have the potential to treat a large area of impervious surfaces are ideal project candidates. Impervious surfaces are generally recognized as sources of common storm water pollutants such as oil and grease, heavy metals, and sediment (California Stormwater Quality Association, 2003).

References

California Regional Water Quality Control Board, San Diego Region, 2013. Order No. R9-2013-0001. *Waste Discharge Requirements for Discharges of Urban Runoff from the Municipal Separate Storm Sewer Systems (MS4s) Draining the Watersheds of the County of San Diego, the Incorporated Cities of San Diego County, the San Diego Unified Port District, and the San Diego County Regional Airport Authority.*

California Storm Water Quality Association, 2003. *California Storm Water BMP Handbook – New Development & Redevelopment.*

California Regional Water Quality Control Board, San Diego Region, 1994. *Water Quality Control Plan for the San Diego Basin.*

Project Identifier	Watershed Management Area	Jurisdiction	Ownership		Project Location			Project Size & Parameters				Other Notes
			Owner Information	Address	APN	Latitude (X-Coordinate)	Longitude (Y-Coordinate)	Contributing Drainage Area (acres)	Parcel Size (acres)	Project Footprint (acres)	Parameters (with units as necessary)	

Public Parcels Identified as Suitable for Further Assessment to Determine Feasibility of Retrofitting with Green Infrastructure

Parcels on this list that are 0.25 acres or greater have been assessed using broad assumptions necessary for computer modeling and were found to be potentially effective as an opportunity for contributing to load reduction goals. Considerable further assessment would be required before determining any of these sites to be viable retrofit sites for implementation of Green Infrastructure. That assessment includes verifying public ownership, determining if land use agreements and financing can be established, assessing feasibility based upon further investigation of physical site constraints at a project design level, and determining that construction and necessary approvals, including approvals from regulatory agencies other than the City of San Diego, can be completed within the time constraints in the Municipal Storm Water Permit that pertain to Alternative Compliance.

1	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4365400600	6271960.61690000000	1858885.13726000000	TBD	8.43	TBD	TBD	TBD
2	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4365400700	6271959.81782000000	1859293.03247000000	TBD	3.91	TBD	TBD	TBD
3	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4210305400	6291729.82911000000	1875381.08817000000	TBD	4.07	TBD	TBD	TBD
4	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4411600400	6263428.84682000000	1855426.39730000000	TBD	7.68	TBD	TBD	TBD
5	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4821705000	6339801.31690000000	1875760.30229000000	TBD	1.22	TBD	TBD	TBD
6	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4830212800	6340225.66102000000	1876652.51839000000	TBD	0.92	TBD	TBD	TBD
7	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4498608300	6258864.54200000000	1855043.39600000000	TBD	1.57	TBD	TBD	TBD
8	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4313202100	6278852.82234000000	1866133.79441000000	TBD	1.58	TBD	TBD	TBD
9	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4212910200	6290284.19036000000	1874074.87660000000	TBD	1.63	TBD	TBD	TBD
10	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3822601200	6349893.72700000000	1891724.34900000000	TBD	7.84	TBD	TBD	TBD
11	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4491100800	6258923.84207000000	1853753.85700000000	TBD	3.80	TBD	TBD	TBD
12	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4631110100	6312244.38913000000	1865532.18088000000	TBD	0.23	TBD	TBD	TBD
13	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3690402300	6289856.34251000000	1884716.71162000000	TBD	4.32	TBD	TBD	TBD
14	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4210305600	6292567.83850000000	1875157.25309000000	TBD	3.60	TBD	TBD	TBD
15	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4426212000	6271214.16355000000	1855369.84926000000	TBD	1.73	TBD	TBD	TBD
16	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4821902100	6338457.74796000000	1872745.29350000000	TBD	1.68	TBD	TBD	TBD
17	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3870300500	6342314.66959000000	1881981.04938000000	TBD	0.88	TBD	TBD	TBD
18	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3941410600	6355018.57753000000	1892436.00776000000	TBD	0.17	TBD	TBD	TBD
19	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4365400800	6271268.62875000000	1859124.10526000000	TBD	1.39	TBD	TBD	TBD
20	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4210305500	6292202.78233000000	1875304.80864000000	TBD	3.17	TBD	TBD	TBD
21	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4498700300	6260981.53292000000	1854769.59111000000	TBD	6.16	TBD	TBD	TBD
22	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4332501600	6294188.80695000000	1865293.28405000000	TBD	132.19	TBD	TBD	TBD
23	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3941410700	6355025.47597000000	1892389.32099000000	TBD	0.17	TBD	TBD	TBD
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25	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4210400700	6285991.12254000000	1874972.35651000000	TBD	0.69	TBD	TBD	TBD
26	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4415900500	6264267.50968000000	1856432.59103000000	TBD	5.23	TBD	TBD	TBD
27	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4210306100	6291246.94719000000	1875814.34568000000	TBD	14.23	TBD	TBD	TBD
28	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3734900600	6304064.40091000000	1885160.24024000000	TBD	5.24	TBD	TBD	TBD
29	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4210306000	6291854.30037000000	1876419.91264000000	TBD	99.22	TBD	TBD	TBD
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34	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	6724900500	6306195.90236000000	1869360.48157000000	TBD	0.52	TBD	TBD	TBD
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40	San Diego River	City of San Diego	CITY OF SAN DIEGO(OCEAN BEACH RECREATION CENTE	TBD	4484020800	6255666.55073000000	1852339.12233000000	TBD	1.23	TBD	TBD	TBD
41	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4446503600	6280232.33314000000	1853728.47389000000	TBD	0.45	TBD	TBD	TBD
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73	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4406302100	6297336.59475000000	1857832.31025000000	TBD	0.13	TBD	TBD	TBD
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79	San Diego River	City of San Diego	CITY OF SAN DIEGO TR	TBD	4480233300	6253708.41501000000	1854889.23835000000	TBD	0.07	TBD	TBD	TBD
80	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	6723000100	6306309.53263000000	1870229.29455000000	TBD	10.00	TBD	TBD	TBD
81	San Diego River	City of San Diego	CITY OF SAN DIEGO TR	TBD	4480233100	6253747.05150000000	1854860.55682000000	TBD	0.09	TBD	TBD	TBD
82	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3830800500	6329701.97900000000	1885454.06300000000	TBD	0.56	TBD	TBD	TBD
83	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4213920100	6295098.51652000000	1879029.44163000000	TBD	2.51	TBD	TBD	TBD
84	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4415303800	6266415.00735000000	1857123.35748000000	TBD	0.35	TBD	TBD	TBD
85	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3921202100	6355446.89802000000	1896472.95302000000	TBD	0.18	TBD	TBD	TBD

86	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4562311800	6313898.757340000000	1875835.449600000000	TBD	0.14	TBD	TBD	TBD
87	San Diego River	City of San Diego	CITY OF SAN DIEGO TR	TBD	4480230300	6253730.232690000000	1854666.112730000000	TBD	0.09	TBD	TBD	TBD
88	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3690401400	6289290.363760000000	1884800.260810000000	TBD	1.94	TBD	TBD	TBD
89	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4213920300	6295050.339050000000	1878608.691890000000	TBD	1.87	TBD	TBD	TBD
90	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4213330400	6295808.351250000000	1875844.907410000000	TBD	1.20	TBD	TBD	TBD
91	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4366700600	6269821.546000000000	1858353.659000000000	TBD	3.88	TBD	TBD	TBD
92	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4365200300	6270925.142250000000	1858614.333330000000	TBD	2.05	TBD	TBD	TBD
93	San Diego River	City of San Diego	CITY OF SAN DIEGO TR	TBD	4480101700	6253469.277060000000	1853841.897130000000	TBD	1.59	TBD	TBD	TBD
94	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4673502300	6312536.288060000000	1859990.292260000000	TBD	1.57	TBD	TBD	TBD
95	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4391803100	6292003.034640000000	1859796.733460000000	TBD	0.08	TBD	TBD	TBD
96	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3921103000	6355080.125450000000	1894998.705280000000	TBD	0.03	TBD	TBD	TBD
97	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3562130800	6285671.428320000000	1880808.745470000000	TBD	1.77	TBD	TBD	TBD
98	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	6730400100	6313197.822110000000	1868679.513970000000	TBD	10.69	TBD	TBD	TBD
99	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	6720803600	6309440.611300000000	1871513.557140000000	TBD	0.13	TBD	TBD	TBD
100	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	6720802100	6309247.095330000000	1871323.724320000000	TBD	0.16	TBD	TBD	TBD
101	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4213920400	6295037.388440000000	1878368.610790000000	TBD	2.04	TBD	TBD	TBD
102	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4332500500	6292768.988400000000	1863328.696350000000	TBD	2.95	TBD	TBD	TBD
103	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3690401900	6289956.237500000000	1885008.156750000000	TBD	0.86	TBD	TBD	TBD
104	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	6720704900	6309804.627830000000	1871882.587260000000	TBD	0.13	TBD	TBD	TBD
105	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4495910100	6260481.407360000000	1850483.585870000000	TBD	0.47	TBD	TBD	TBD
106	San Diego River	City of San Diego	CITY OF SAN DIEGO TR	TBD	4480411900	6253967.483790000000	1855498.860860000000	TBD	0.42	TBD	TBD	TBD
107	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4392402800	6292006.204190000000	1859730.178940000000	TBD	0.07	TBD	TBD	TBD
108	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4870602500	6337670.660600000000	1871061.195950000000	TBD	1.12	TBD	TBD	TBD
109	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4674022400	6310442.058140000000	1858330.761740000000	TBD	0.12	TBD	TBD	TBD
110	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	6720804300	6309620.779990000000	1871697.636650000000	TBD	0.13	TBD	TBD	TBD
111	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3871214800	6340834.313270000000	1878064.508410000000	TBD	0.25	TBD	TBD	TBD
112	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4366011000	6272889.103450000000	1859503.096610000000	TBD	0.32	TBD	TBD	TBD
113	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4674022500	6310443.189630000000	1858381.197140000000	TBD	0.12	TBD	TBD	TBD
114	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4415900600	6263915.259270000000	1856024.579090000000	TBD	5.55	TBD	TBD	TBD
115	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3830501500	6321576.308020000000	1886091.558340000000	TBD	19.83	TBD	TBD	TBD
116	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	6740400100	6319421.218630000000	1868148.000000000000	TBD	0.49	TBD	TBD	TBD
117	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4830212700	6340556.019130000000	1877394.800760000000	TBD	0.15	TBD	TBD	TBD
118	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4480503600	6254577.813000000000	1855776.052000000000	TBD	1.00	TBD	TBD	TBD
119	San Diego River	City of San Diego	HOUSING AUTHORITY CITY OF SAN DIEGO	TBD	4411330100	6261951.489420000000	1856430.350040000000	TBD	0.53	TBD	TBD	TBD
120	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4405622900	6294888.898400000000	1858466.196780000000	TBD	1.46	TBD	TBD	TBD
121	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4213920200	6295077.959990000000	1878798.827550000000	TBD	1.67	TBD	TBD	TBD
122	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4332501300	6294341.455860000000	1866324.122200000000	TBD	81.07	TBD	TBD	TBD
123	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4415900400	6265417.408960000000	1856122.645450000000	TBD	69.11	TBD	TBD	TBD
124	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4674022300	6310440.914290000000	1858279.770330000000	TBD	0.12	TBD	TBD	TBD
125	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3690840500	6294037.673740000000	1884851.166670000000	TBD	7.57	TBD	TBD	TBD
126	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4364902000	6270654.935190000000	1858667.679010000000	TBD	0.11	TBD	TBD	TBD
127	San Diego River	City of San Diego	CITY OF SAN DIEGO TR	TBD	4480220100	6253572.023700000000	1854949.796300000000	TBD	0.61	TBD	TBD	TBD
128	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	6722702500	6307300.347380000000	1869232.445380000000	TBD	0.52	TBD	TBD	TBD
129	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3733022600	6301507.473540000000	1885150.075900000000	TBD	1.48	TBD	TBD	TBD
130	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4446901500	6282879.186990000000	1853393.903230000000	TBD	0.15	TBD	TBD	TBD
131	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4372911600	6281036.429900000000	1860056.268310000000	TBD	0.31	TBD	TBD	TBD
132	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4366900700	6270371.000000000000	1858512.658000000000	TBD	2.52	TBD	TBD	TBD
133	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4673601300	6313088.109300000000	1860503.494850000000	TBD	0.11	TBD	TBD	TBD
134	San Diego River	City of San Diego	CITY OF SAN DIEGO TR	TBD	4480230100	6253631.086450000000	1854745.016760000000	TBD	0.40	TBD	TBD	TBD
135	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4681612700	6316028.857070000000	1860901.742850000000	TBD	0.22	TBD	TBD	TBD
136	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4394413700	6293575.620450000000	1858445.331550000000	TBD	0.15	TBD	TBD	TBD
137	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4332304600	6291814.773950000000	1863537.826520000000	TBD	2.35	TBD	TBD	TBD

138	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4622102900	6308564.81932000000	1865254.06555000000	TBD	4.02	TBD	TBD	TBD
139	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4494720200	6260267.76877000000	1850650.71282000000	TBD	0.06	TBD	TBD	TBD
140	San Diego River	City of San Diego	CITY OF SAN DIEGO TR	TBD	4480233400	6253689.11331000000	1854902.72886000000	TBD	0.08	TBD	TBD	TBD
141	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4586230100	6306150.05787000000	1867911.12374000000	TBD	0.73	TBD	TBD	TBD
142	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3735212800	6305183.90224000000	1886762.04497000000	TBD	0.16	TBD	TBD	TBD
143	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4422601900	6269417.11896000000	1856255.53774000000	TBD	0.09	TBD	TBD	TBD
144	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4394413600	6293574.78400000000	1858395.33598000000	TBD	0.15	TBD	TBD	TBD
145	San Diego River	City of San Diego	CITY OF SAN DIEGO TR	TBD	4480210100	6253524.17471000000	1854285.49230000000	TBD	0.14	TBD	TBD	TBD
146	San Diego River	City of San Diego	CITY OF SAN DIEGO TR	TBD	4480210400	6253552.32944000000	1854558.38742000000	TBD	0.32	TBD	TBD	TBD
147	San Diego River	City of San Diego	CITY OF SAN DIEGO TR	TBD	4480210300	6253530.73423000000	1854453.20193000000	TBD	0.19	TBD	TBD	TBD
148	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4366601900	6269173.06771000000	1857962.88617000000	TBD	0.72	TBD	TBD	TBD
149	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4332303400	6291498.56307000000	1863079.31481000000	TBD	18.01	TBD	TBD	TBD
150	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4400313700	6299555.90072000000	1862888.94314000000	TBD	0.14	TBD	TBD	TBD
151	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3735004900	6303410.14495000000	1886765.03210000000	TBD	0.24	TBD	TBD	TBD
152	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4681700700	6314310.33009000000	1860315.32716000000	TBD	0.02	TBD	TBD	TBD
153	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3660814900	6323908.98108000000	1888514.07648000000	TBD	0.16	TBD	TBD	TBD
154	San Diego River	City of San Diego	CITY OF SAN DIEGO TR	TBD	4480233200	6253726.41679000000	1854875.74090000000	TBD	0.08	TBD	TBD	TBD
155	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4482302200	6256565.36122000000	1854564.37184000000	TBD	0.15	TBD	TBD	TBD
156	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4484211200	6256726.71361000000	1853674.35503000000	TBD	0.18	TBD	TBD	TBD
157	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3920810300	6354844.07132000000	1896530.61115000000	TBD	0.52	TBD	TBD	TBD
158	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4641500300	6317607.83356000000	1864865.33360000000	TBD	0.23	TBD	TBD	TBD
159	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	6721203600	6308575.21401000000	1870690.59846000000	TBD	0.19	TBD	TBD	TBD
160	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	6721303300	6308793.20165000000	1870904.81496000000	TBD	0.16	TBD	TBD	TBD
161	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4620511900	6309027.48574000000	1867188.01852000000	TBD	0.04	TBD	TBD	TBD
162	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	6721300200	6309031.96128000000	1871125.51034000000	TBD	0.14	TBD	TBD	TBD
163	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4415810900	6266916.57254000000	1856500.37432000000	TBD	0.01	TBD	TBD	TBD
164	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4446901600	6282931.73301000000	1853394.16435000000	TBD	0.16	TBD	TBD	TBD
165	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3710310400	6310651.98763000000	1878510.00185000000	TBD	0.15	TBD	TBD	TBD
166	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	6770360900	6283662.03979000000	1868621.46220000000	TBD	0.14	TBD	TBD	TBD
167	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	3660503200	6329521.56912000000	1898594.50349000000	TBD	4.59	TBD	TBD	TBD
168	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4411821900	6263482.47362000000	1856195.71176000000	TBD	0.04	TBD	TBD	TBD
169	San Diego River	City of San Diego	CITY OF SAN DIEGO	TBD	4400111700	6297774.14941000000	1862842.38430000000	TBD	0.02	TBD	TBD	TBD

Public Parcels Identified as Suitable for Further Assessment to Determine Feasibility of Retrofitting

Parcels on this list have been assessed using broad assumptions necessary for computer modeling and were found to be potentially effective as an opportunity for contributing to load reduction goals. Considerable further assessment would be required before determining any of these sites to be viable retrofit. That assessment includes verifying public ownership, determining if land use agreements and financing can be established, assessing feasibility based upon further investigation of physical site constraints at a project design level, and determining that construction and necessary approvals, including approvals from regulatory agencies other than the City of San Diego, can be completed within the time constraints in the Municipal Storm Water Permit that pertain to Alternative Compliance.

N/A	N/A	City of San Diego	N/A	Canyon Site								
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Project Concept for Green Streets Retrofits – Quantity and Location of Suitable City Streets To-Be-Determined

The City of San Diego is in the process of identifying potential public street locations that could feasibly be retrofitted with Green Infrastructure and provide a meaningful contribution to pollutant load reduction goals. As locations become verified for feasibility and effectiveness, funding mechanisms under an Alternate Compliance program could potentially be used to fill gaps in construction and maintenance funding necessary for the project to go forward. This is pending the ability to establish suitable legal mechanisms and verify that approvals and construction can be completed within the time constraints in the Municipal Storm Water Permit that pertain to Alternative Compliance.

170	San Diego River	City of San Diego	City of San Diego	TBD	N/A	N/A	N/A	TBD	89	TBD	TBD	Green Street TBD
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