

**DESIGNATION OF AUTHORITY..... i**

**SIGNED CERTIFIED STATEMENT..... iii**

**EXECUTIVE SUMMARY ..... v**

**TABLE OF CONTENTS ..... ix**

  

**1.0 INTRODUCTION ..... 1-1**

    1.1 BACKGROUND ..... 1-1

    1.2 PURPOSE AND OBJECTIVES ..... 1-2

    1.3 ENVIRONMENTAL SETTING ..... 1-5

    1.4 OVERVIEW OF SITE DRAINAGE AND THE MS4..... 1-6

  

**2.0 ADMINISTRATIVE AND LEGAL PROCEDURES ..... 2-1**

    2.1 DEPARTMENT ROLES AND RESPONSIBILITIES ..... 2-1

    2.2 LEGAL AUTHORITY ..... 2-4

    2.3 ENFORCEMENT..... 2-5

  

**3.0 NON-STORM WATER DISCHARGES/ILLCIT DISCHARGE DETECTION AND ELIMINATION ..... 3-1**

    3.1 INTRODUCTION ..... 3-1

    3.2 ILLICIT DISCHARGE DETECTION AND ELIMINATION ..... 3-12

    3.3 DRY WEATHER MONITORING PROGRAMS ..... 3-18

    3.4 FOLLOW-UP AND ENFORCEMENT ..... 3-21

    3.5 MONITORING PROGRAM ASSESSMENTS ..... 3-25

    3.6 ILLICIT DISCHARGE DETECTION AND ELIMINATION COMPONENT PROGRAM REVIEW AND MODIFICATION ..... 3-25

  

**4.0 DEVELOPMENT AND PLANNING COMPONENT ..... 4-1**

    4.1 INTRODUCTION ..... 4-1

    4.2 LAND USE PLANNING ..... 4-2

    4.3 DEVELOPMENT PROJECT REVIEW PROCESS ..... 4-6

    4.4 PRIORITY DEVELOPMENT PROJECTS ..... 4-9

    4.5 BEST MANAGEMENT PRACTICES ..... 4-10

    4.6 BMP DESIGN MANUAL..... 4-12

    4.7 STRUCTURAL BMP APPROVAL AND VERIFICATION ..... 4-14

    4.8 ALTERNATIVE COMPLIANCE PROGRAM ..... 4-15

    4.9 DEVELOPMENT AND PLANNING ENFORCEMENT ..... 4-16

    4.10 DEVELOPMENT AND PLANNING MODIFICATIONS ..... 4-17

  

**5.0 CONSTRUCTION COMPONENT ..... 5-1**

    5.1 INTRODUCTION ..... 5-1

    5.2 CONSTRUCTION SITE INVENTORY AND TRACKING..... 5-3

    5.3 BEST MANAGEMENT PRACTICE REQUIREMENTS ..... 5-7

    5.4 PROJECT APPROVAL PROCESS ..... 5-11

    5.5 CONSTRUCTION SITE INSPECTIONS..... 5-13

    5.6 CONSTRUCTION SITE ENFORCEMENT..... 5-15

    5.7 EDUCATION AND TRAINING ..... 5-17

---

**TABLE OF CONTENTS**

---

<b>6.0</b>	<b>MUNICIPAL AND COMMERCIAL COMPONENT .....</b>	<b>6-1</b>
6.1	INTRODUCTION .....	6-1
6.2	OPERATION AND MAINTENANCE OF MS4 AND STRUCTURAL CONTROLS .....	6-4
6.3	OPERATION AND MAINTENANCE OF ROADS AND PARKING FACILITIES .....	6-9
6.4	PREVENTION OF INFILTRATION FROM SANITARY SEWER TO MS4 .....	6-13
6.5	MANAGEMENT OF PESTICIDES, HERBICIDES, AND FERTILIZERS .....	6-15
6.6	MANAGEMENT OF SPECIAL EVENT VENUES .....	6-16
6.7	POWER WASHING .....	6-17
6.8	MUNICIPAL WASTE MANAGEMENT .....	6-18
6.9	FACILITY INSPECTIONS .....	6-19
6.10	ENFORCEMENT RESPONSE PLAN .....	6-22
6.11	EDUCATION AND STAFF TRAINING .....	6-24
6.12	RETROFITTING AND REHABILITATION AREAS OF EXISTING DEVELOPMENT .....	6-24
6.13	MUNICIPAL COMPONENT EFFECTIVENESS ASSESSMENT .....	6-25
6.14	MUNICIPAL COMPONENT PROGRAM REVIEW AND MODIFICATION .....	6-25
<b>7.0</b>	<b>INDUSTRIAL COMPONENT .....</b>	<b>7-1</b>
7.1	INTRODUCTION .....	7-1
7.2	OBTAINING PERMIT COVERAGE .....	7-3
7.3	SWPPP AVAILABILITY AND IMPLEMENTATION .....	7-3
7.4	POLLUTION PREVENTION TEAM .....	7-4
7.5	STORM WATER AND AUTHORIZED NON-STORM WATER DISCHARGE REQUIREMENTS .....	7-6
7.6	TRAINING QUALIFICATIONS .....	7-8
7.7	STORM WATER POLLUTION PREVENTION PLAN COMPONENTS .....	7-8
7.8	PROGRAM IMPLEMENTATION .....	7-64
7.9	EXCEEDANCE RESPONSE ACTIONS .....	7-71
7.10	ANNUAL EVALUATION AND REPORTING .....	7-76
7.11	INDUSTRIAL COMPONENT EFFECTIVENESS ASSESSMENT REPORTING .....	7-77
7.12	INDUSTRIAL COMPONENT PROGRAM REVIEW AND MODIFICATION .....	7-77
<b>8.0</b>	<b>RESIDENTIAL COMPONENT .....</b>	<b>8-1</b>
<b>9.0</b>	<b>PUBLIC EDUCATION AND PARTICIPATION COMPONENT .....</b>	<b>9-1</b>
9.1	EDUCATION .....	9-1
9.2	PUBLIC PARTICIPATION .....	9-6
9.3	PUBLIC PARTICIPATION AND EDUCATION OUTREACH COMPONENT EFFECTIVENESS ASSESSMENT .....	9-10
9.4	PUBLIC PARTICIPATION AND EDUCATION OUTREACH COMPONENT PROGRAM REVIEW AND MODIFICATION .....	9-10
<b>10.0</b>	<b>FISCAL ANALYSIS COMPONENT .....</b>	<b>10-1</b>
10.1	INTRODUCTION .....	10-1
10.2	FISCAL ANALYSIS METHODS .....	10-1
10.3	UPDATE TO FISCAL ANALYSIS METHODS .....	10-3
10.4	FISCAL ANALYSIS COMPONENT PROGRAM REVIEW AND MODIFICATION .....	10-3
<b>11.0</b>	<b>EFFECTIVENESS ASSESSMENT COMPONENT .....</b>	<b>11-1</b>
11.1	INTRODUCTION .....	11-1
11.2	MUNICIPAL PERMIT ASSESSMENT COMPONENTS .....	11-1

11.3	RECEIVING WATER ASSESSMENT .....	11-1
11.4	MS4 OUTFALL ASSESSMENT .....	11-2
11.5	SPECIAL STUDIES ASSESSMENT .....	11-2
11.6	INDUSTRIAL PERMIT ASSESSMENT COMPONENTS .....	11-3
11.7	PROGRAM REVIEW AND MODIFICATION .....	11-4
<b>12.0</b>	<b>REPORTING .....</b>	<b>12-1</b>
12.1	MUNICIPAL PERMIT REPORTS .....	12-1
12.2	INDUSTRIAL PERMIT REPORTS .....	12-4
<b>13.0</b>	<b>MODIFICATIONS TO THE SWMP .....</b>	<b>13-1</b>
<b>14.0</b>	<b>CONCLUSIONS AND RECOMMENDATIONS .....</b>	<b>14-1</b>
<b>15.0</b>	<b>REFERENCES .....</b>	<b>15-1</b>

**TABLES**

Table 2-1.	Authority Departmental Roles and Responsibilities for SWMP Implementation .....	2-3
Table 4-1.	Anticipated and Potential Pollutants Generated by Land Use Type at SAN.....	4-5
Table 4-2.	PDP Prioritization Criteria .....	4-14
Table 5-1.	Level of Threat to Water Quality Criteria .....	5-5
Table 5-2.	Inventory of Planned and Active Construction Sites as of January 2022.....	5-5
Table 5-3.	Designated Minimum BMPs for All Construction Projects.....	5-9
Table 6-1.	San Diego International Airport Entities Conducting Municipal and Commercial Activities.....	6-5
Table 6-2.	San Diego International Airport Municipal Land Use and Activity Areas .....	6-7
Table 6-3.	Minimum BMPs Requirements.....	6-8
Table 6-4.	Minimum BMPs Requirements.....	6-10
Table 6-5.	Minimum BMPs Requirements.....	6-14
Table 6-6.	Minimum BMPs Requirements.....	6-16
Table 6-7.	Minimum BMPs Requirements.....	6-17
Table 6-8.	Minimum BMPs Requirements.....	6-18
Table 6-9.	Minimum BMPs Requirements.....	6-19
Table 7-1.	Authority Key Personnel Responsible for SWMP Implementation .....	7-5
Table 7-2.	SAN Industrial Facility and Facility Discharge Information .....	7-11
Table 7-3.	Overview of Inventory of Industrial Sites/Sources .....	7-15
Table 7-4.	Inventory of Industrial Sites/Sources .....	7-16
Table 7-5.	Industrial Inventory by Drainage Basin .....	7-29
Table 7-6.	Potential Pollutant Sources at SAN.....	7-39
Table 7-7.	BMPs Applicable to Individual Industrial Sites/Sources .....	7-54
Table 7-8.	Minimum BMPs Implemented at SAN.....	7-58
Table 11-1.	Assessment of Goals for Focused Priority Condition (Copper and Zinc) Within Authority Jurisdiction, Current and Future Permit Terms.....	11-3

---

## TABLE OF CONTENTS

---

### FIGURES

FIGURE 1	REGIONAL LOCATION MAP
FIGURE 2	GENERAL VICINITY MAP
FIGURE 3	SITE MAP FOR SAN
FIGURE 4	LAYOUT FOR DETAILED SITE MAPS
FIGURE 5	SITE MAP FOR SAN TERMINAL 1, TERMINAL 2, AND WEST RUNWAY
FIGURE 6	SITE MAP FOR SAN TERMINAL 1, OLD COMMUTER TERMINAL, AND RUNWAY
FIGURE 7	SITE MAP FOR SAN NORTH RAMP, FBO, AND EAST RUNWAY
FIGURE 8	ORGANIZATIONAL CHART

### APPENDICES

APPENDIX A	GENERAL INDUSTRIAL PERMIT CHECKLIST AND NOTICES
APPENDIX B	BEST MANAGEMENT PRACTICES
APPENDIX C	BMP DESIGN MANUAL
APPENDIX D	STORM WATER MONITORING PROGRAMS
APPENDIX E	TENANT SUMMARY SHEETS
APPENDIX F	AUTHORITY RULES & REGULATIONS STORM WATER CODE AND TENANT LEASEHOLD AGREEMENT
APPENDIX G	MISCELLANEOUS SUPPORT MATERIALS
APPENDIX H	MUNICIPAL PERMIT
APPENDIX I	GENERAL INDUSTRIAL PERMIT
APPENDIX J	FOD MANAGEMENT PROGRAM

<b>Acronym/Abbreviation</b>	<b>Definition</b>
303(d) list or listed	Clean Water Act Section 303(d) list of impaired water bodies
°F	degrees Fahrenheit
ACP	alternative compliance project
ADC	Airport Design and Construction
AFFF	aircraft firefighting foam
Air Ops	Airside Operations
Annual Evaluation	Annual Comprehensive Facility Compliance Evaluation
AOA	aircraft operations area
ARFF	Airport Rescue and Fire Fighting Facility
ASBS	Area of Special Biological Significance
AST	aboveground storage tank
ATCT	Air Traffic Control Tower
Authority	San Diego County Regional Airport Authority
Authority Board	San Diego County Regional Airport Authority Board of Directors
Basin Plan	Water Quality Control Plan for the San Diego Basin
BAT	best available technology economically achievable
BCT	best conventional pollutant control technology
BMP	best management practice
BOD	biological oxygen demand
CASQA	California Stormwater Quality Association
CDO	Cease and Desist Order
CEDEN	California Environmental Data Exchange Network
CEO	Chief Executive Officer
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CGP	Construction General Permit
COD	chemical oxygen demand
Copermittee	An agency listed under the Municipal Permit Provision B.1
CRDC	Centralized Receiving and Distribution Center
DAR	Duly Authorized Representative
DO	dissolved oxygen
DQO	data quality objective
DSA	disturbed soil area
EIR	Environmental Impact Report
ELG	Effluent Limitation Guideline
ERA	Exceedance Response Action
ERP	Enforcement Response Plan
ESA	Environmentally Sensitive Area
FAA	Federal Aviation Administration
FBO	Fixed-Base Operations
FMD	Facilities Management Department
FOD	foreign object damage
FSF	Fuel Storage Facility
GIS	geographic information system
GPS	Global Positioning System

---

## ACRONYMS

---

<b>Acronym/Abbreviation</b>	<b>Definition</b>
GSE	ground support equipment
HA	hydrologic area
HAS	hydrologic sub-area
HU	hydrologic unit
HVAC	heat, ventilation, and air conditioning
IDDE	illicit discharge detection and elimination
Industrial Permit	SWRCB Water Quality Order No. 2014-0057-DWQ, NPDES General Permit No. CAS000001, General Permit for Storm Water Discharges Associated with Industrial Activities
IPM	integrated pest management
JAL	Japan Airlines
JRMP	Jurisdictional Runoff Management Plan
LEED	Leadership in Energy and Environmental Design
LID	low-impact development
LRP	Legally Responsible Person
MB	method blank
MBAS	Methylene Blue Active Substance
MEP	maximum extent practicable
MS	matrix spike
MS4	municipal separate storm sewer system
MSD	matrix spike duplicate
MSGP	Multi-Sector General Permit
Municipal Permit	RWQCB Order No. R9-2013-0001, as amended by Order Nos. R9-2015-0001 and R9-2015-0100, NPDES No. CAS0109266, National Pollutant Discharge Elimination System Permit and Waste Discharge Requirements for Discharges from the Municipal Separate Storm Sewer Systems (MS4s) Draining the Watersheds Within the San Diego Region
MWWD	Metropolitan Wastewater Department
NAICS	North American Industry Classification System
NAL	numeric action level
NEC	No Exposure Certification
NGO	non-governmental organization
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NSWD	non-storm water discharge
OWS	oil-water separator
P&EAD	Planning and Environmental Affairs Department
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PDP	Priority Development Project
PGA	pollutant-generating activity
PIT	Project Intake
Port of San Diego	San Diego Unified Port District

<b>Acronym/Abbreviation</b>	<b>Definition</b>
QISP	Qualified Industrial Storm Water Practitioner
QSE	qualifying storm event
QSP	Qualified SWPPP Practitioner
QTA	quick turn-around
RARE	Rare, Threatened, or Endangered Species Beneficial Use
RCC	Rental Car Center
Responsible Party	A San Diego Bay Watershed Management Area Copermittee named in the Municipal Permit Provision B.1
RFF	Remote Fueling Facility
RON	remain-overnight
ROWD	Report of Waste Discharge
RPD	relative percent difference
RWQCB	California Regional Water Quality Control Board, San Diego Region
SAN	San Diego International Airport
SMARTS	Storm Water Multiple Application and Report Tracking System
SIC	Standard Industrial Classification
SPCC	Spill Prevention, Control, and Countermeasure
SSMP	Strategic Stormwater Master Plan
Standard Format	Standardized Format for Jurisdictional Urban Runoff Management Plan
Subchapter N	40 Code of Federal Regulations Chapter I Subchapter N
SUSMP	Standard Urban Storm Water Mitigation Plan
SWAMP	Surface Water Ambient Monitoring Program
SWMP	Storm Water Management Plan
SWPPP	Storm Water Pollution Prevention Plan
SWQMP	Storm Water Quality Management Plan
SWRCB	California State Water Resources Control Board
TMDL	total maximum daily load
TPH	total petroleum hydrocarbon
TSS	total suspended solids
TTWQ	threat to water quality
UPS	United Parcel Service Co.
USEPA	United States Environmental Protection Agency
UST	underground storage tank
WDID	Waste Discharge Identification
WMA	Watershed management area
WMAA	Watershed Management Area Analysis
WPCP	Water Pollution Control Plan
WQE	Water Quality Equivalency
WQIP	Water Quality Improvement Plan
WTAP	weather-triggered action plan