

TRAINING PRESENTATION

Compliance with the

2018 AMENDED STATEWIDE INDUSTRIAL STORM WATER GENERAL PERMIT



Laurel Warddrip
Senior Environmental Scientist
Division of Water Quality

Pushpa Zachariah
Water Resource Control Engineer
Division of Water Quality

TRAINING AGENDA

- Location and Meeting Safety Protocols
- Amended Permit Training Overview
- Sufficiently Sensitive Analytical Test Methods
- Total Maximum Daily Loads
- Break
- Mapping Tools
- Permit Compliance Options
- Questions

CALIFORNIA

AMENDED PERMIT TRAINING OVERVIEW

INTRODUCTION

- The State Water Resources Control Board (State Water Board) adopted an amendment to the National Pollutant Discharge Elimination System Statewide Industrial Storm Water General Permit (Permit) on November 6, 2018.
- The new requirements of the Permit will become effective July 1, 2020

CALIFORNIA

AMENDED PERMIT TRAINING OVERVIEW

NEW REQUIREMENTS

New requirements include:

- Sufficiently Sensitive Analytical Test Method implementation requirements.
- Total Maximum Daily Loads (TMDLs) applicable to Industrial Storm Water Dischargers.
- TMDL implementation requirements included in Attachment E of the Permit.
- Compliance Options to incentivize storm water capture and use included in Attachment I of the Permit.

SUFFICIENTLY SENSITIVE ANALYTICAL TEST METHOD REQUIREMENTS

CALIFORNIA

SUFFICIENTLY SENSITIVE ANALYTICAL TEST METHODS

FEDERAL REQUIREMENTS

- New Federal Regulations require National Pollutant Discharge Elimination System permits to specify the use of standard analytical test methods for water quality analysis.
- Approved analytical test methods can be found in 40 Code of Federal Regulations (CFR) Part 136.
- Federal Regulations require the use of analytical methods with a minimum level of quantitation at or below the water quality criteria or numeric requirement for the measured pollutant or pollutant parameter.
- These federal requirements apply to all Dischargers with National Pollutant Discharge Elimination System permit coverage.

SUFFICIENTLY SENSITIVE ANALYTICAL TEST METHODS

KEY REPORTING TERMS

Key Reporting Terms	Additional Term Conventions
Minimum Level of Quantitation	<ul style="list-style-type: none">• Method Minimum Level• Reporting Limit
Method Detection Limit	
Water Quality Criterion or Criteria	<ul style="list-style-type: none">• Numeric Requirement(s)

SUFFICIENTLY SENSITIVE ANALYTICAL TEST METHODS PERMIT WATER QUALITY CRITERIA

Analytical test methods must be sensitive enough to detect and quantify pollutants at or below the numeric requirement:

- Numeric action levels (NALs)
- TMDL numeric action levels (TNALs)
- TMDL numeric effluent limitations (NELs)

TABLE 2: Parameter NAL Values, Test Methods, and Reporting Units

PARAMETER	TEST METHOD	REPORTING UNITS	ANNUAL NAL	INSTANTANEOUS MAXIMUM NAL
pH*	See Section XI.C.2	pH units	N/A	Less than 6.0 Greater than 9.0
Suspended Solids (TSS)*,	SM 2540-D	mg/L	100	400

ATTACHMENT E

**LIST OF EXISTING TOTAL MAXIMUM DAILY LOADS (TMDLS)
APPLICABLE TO INDUSTRIAL STORM WATER DISCHARGES**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT
FOR STORM WATER DISCHARGES
ASSOCIATED WITH INDUSTRIAL ACTIVITIES
(GENERAL PERMIT)

The following table contains a list of existing TMDLs that are applicable to industrial storm water discharges. The listed TMDLs were adopted by a Regional Water Quality Control Board or established by the U.S. EPA prior to the adoption date of this General Permit. This General Permit may be reopened to amend TMDL-specific permit requirements in this Attachment E, or to incorporate new TMDLs adopted during the term of this General Permit that include requirements applicable to Responsible Dischargers regulated by this General Permit.

Table E-1: List of Applicable TMDLs

TMDL	Pollutant
San Francisco Bay Regional Water Quality Control Board	
Napa River Sediment TMDL	Sediment

SUFFICIENTLY SENSITIVE ANALYTICAL TEST METHODS

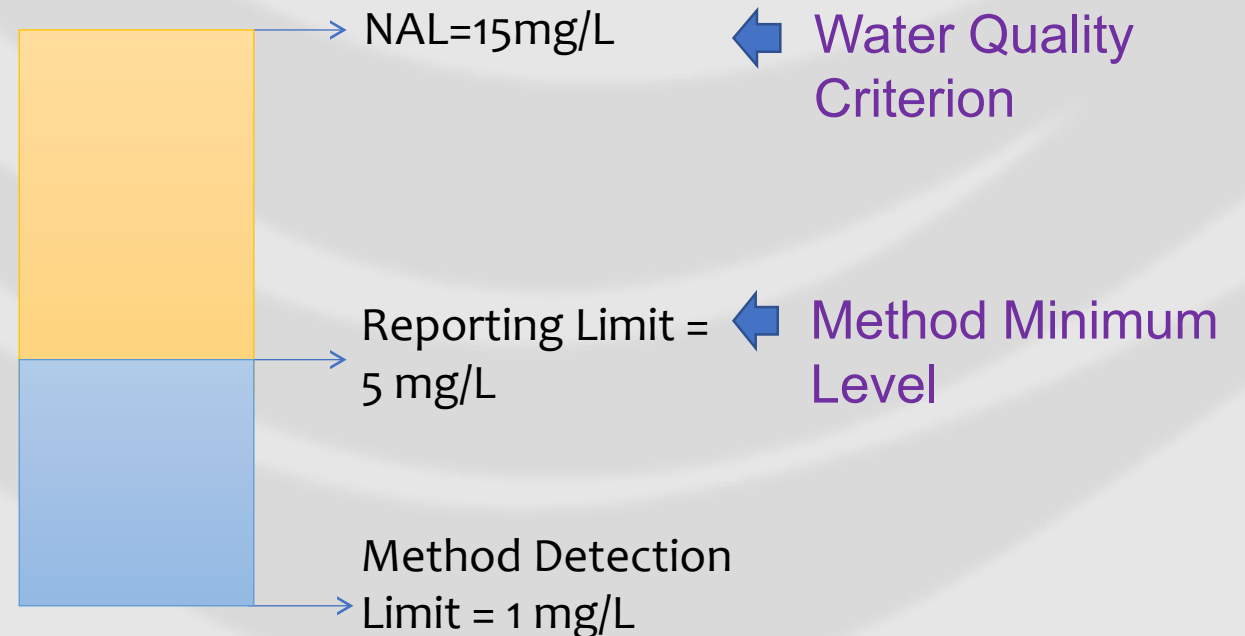
METHOD MINIMUM LEVEL (REPORTING LIMIT) – PART 1

A method is considered sufficiently sensitive if the method minimum level is:

1. At or below the applicable water quality criterion level for the measured pollutant or parameter;

OR

Analytical Method Example

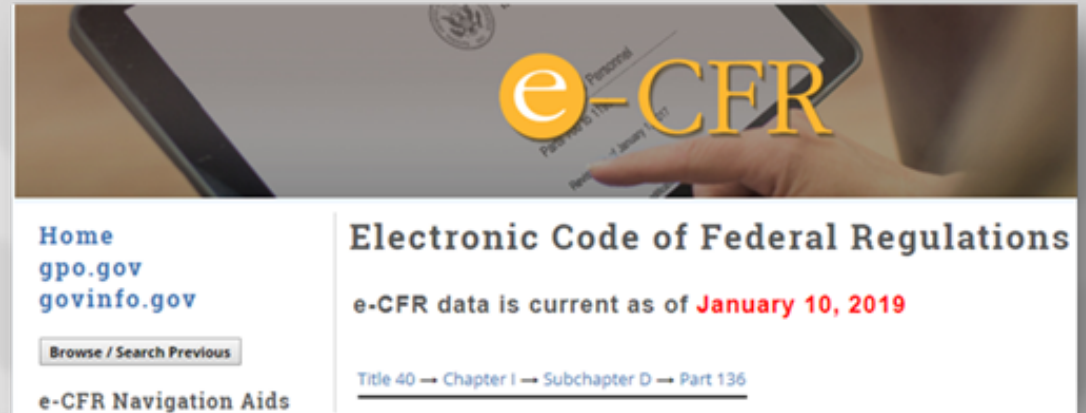


SUFFICIENTLY SENSITIVE ANALYTICAL TEST METHODS

METHOD MINIMUM LEVEL (REPORTING LIMIT) – PART 2

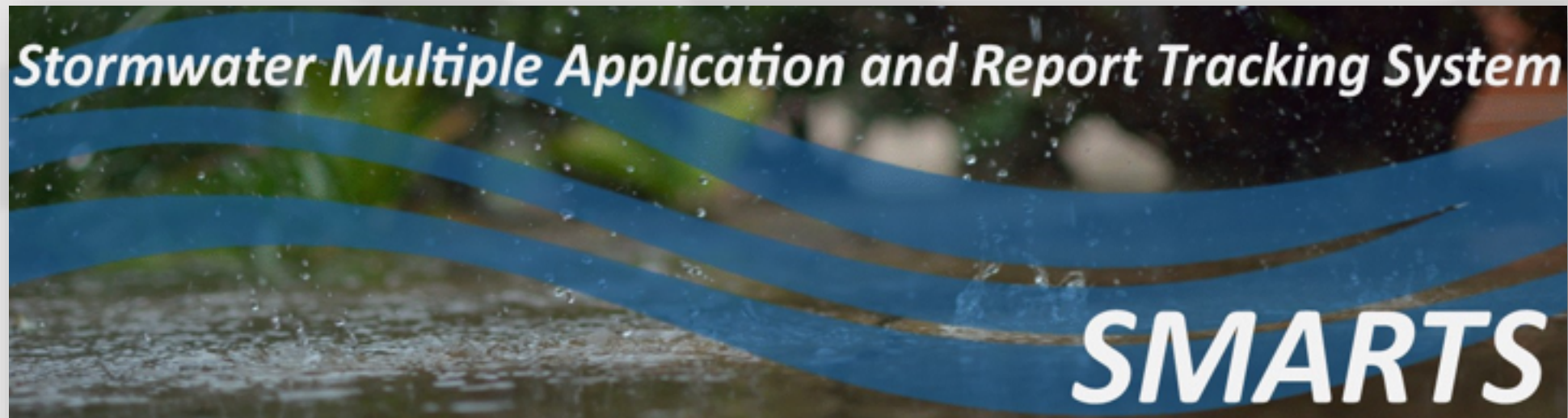
A method is considered sufficiently sensitive if the method minimum level is:

2. The lowest of the approved analytical methods in 40 CFR part 136 or Chapter I, subchapter N or O for the measured pollutant or pollutant parameter.



SUFFICIENTLY SENSITIVE ANALYTICAL TEST METHODS REPORTING

All analytical data is entered through the Stormwater Multiple Application and Report Tracking System (SMARTS) Ad Hoc Monitoring Reports.



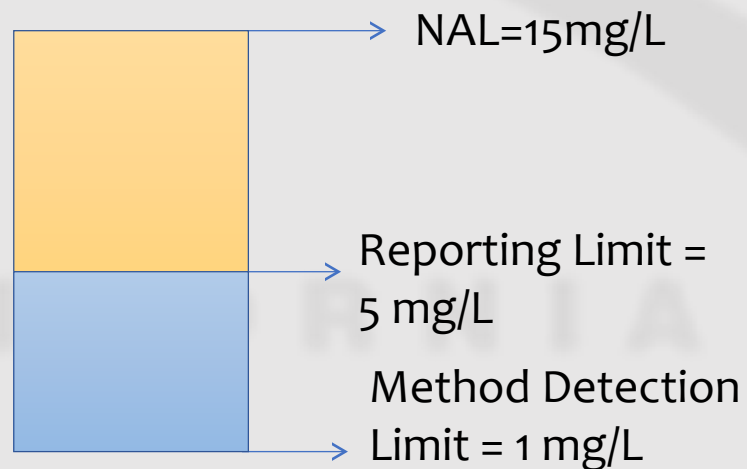
SUFFICIENTLY SENSITIVE ANALYTICAL TEST METHODS REPORTING IN SMARTS

Analytical data in Ad Hoc Monitoring Reports are compliant if:

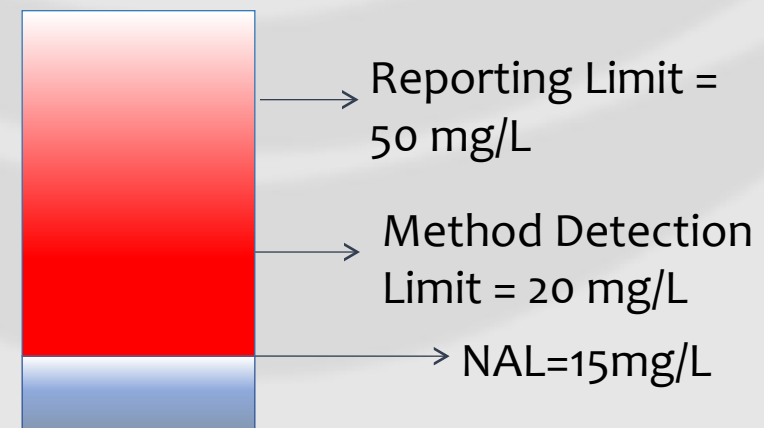
- The Reporting Limit is at or under the applicable numeric requirement, and
- The Method Detection Limit (MDL) is under the Reporting Limit and the applicable numeric requirement.

Analytical Method Examples

✓ Compliant



X NOT Compliant

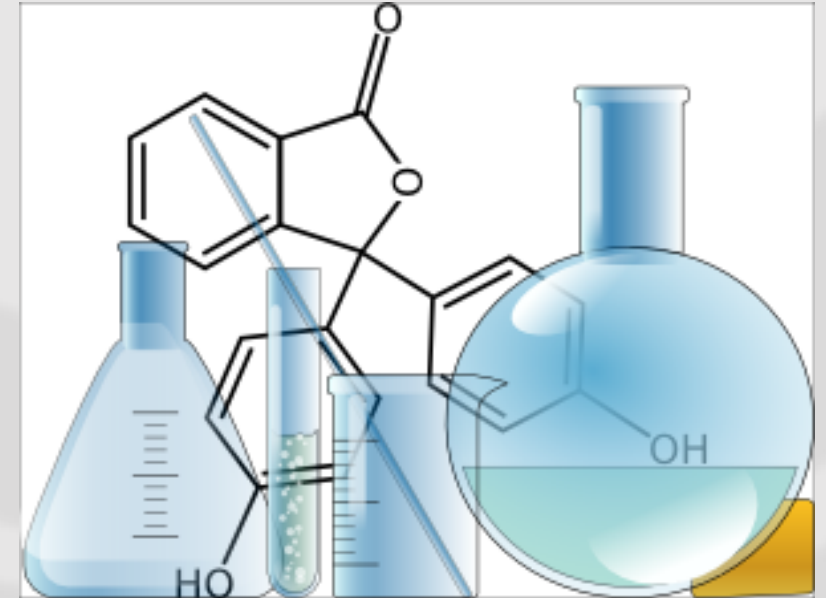


SUFFICIENTLY SENSITIVE ANALYTICAL TEST METHODS

LABORATORY CRITERIA

The Facility's analytical laboratory must be compliant with:

1. State Water Board Environmental Laboratory Accreditation Program (ELAP) requirements.
2. United States Environmental Protection Agency (U.S. EPA) approved test methods in 40 CFR Part 136.
3. Test methods that detect and quantify pollutant parameters at or below the applicable Numeric Requirements.



[This Photo](#) by Unknown Author is licensed under [CC BY-SA-NC](#)

A screenshot of the e-CFR website interface. The top section features the 'e-CFR' logo in yellow and orange. Below it, the text reads 'Electronic Code of Federal Regulations' and 'e-CFR data is current as of January 10, 2019'. The bottom section includes navigation links: 'Home', 'gpo.gov', 'govinfo.gov', and 'e-CFR Navigation Aids'. A breadcrumb trail shows 'Title 40 -> Chapter I -> Subchapter D -> Part 136'. There is also a 'Browse / Search Previous' button.

IMPLEMENTATION OF TOTAL MAXIMUM DAILY LOADS (TMDLs)

CALIFORNIA

IMPLEMENTATION OF TOTAL MAXIMUM DAILY LOADS (TMDLs)

- TMDL IMPLEMENTATION OVERVIEW
- TMDL APPLICABILITY
- TMDL TIMING REQUIREMENTS
- TMDL-SPECIFIC NUMERIC REQUIREMENTS
- TMDL REPORTING REQUIREMENTS

CALIFORNIA

TMDL IMPLEMENTATION OVERVIEW

WHAT IS A TOTAL MAXIMUM DAILY LOAD (TMDL)?

A TMDL is defined as:

- The maximum pollutant load from identified sources in the watershed that a waterbody can receive while attaining water quality standards.
- The sum of the allowable loads of a single pollutant from all contributing sources.

Contributing Sources	Source Example	Type of Allocation
Point Sources	Industrial Storm Water	Waste Load Allocation
Non-Point Sources	Timber Harvest	Load Allocation

TMDL IMPLEMENTATION OVERVIEW

REGIONAL WATER QUALITY CONTROL BOARD (REGIONAL WATER BOARD) TMDL DEVELOPMENT PROCESS

Listing

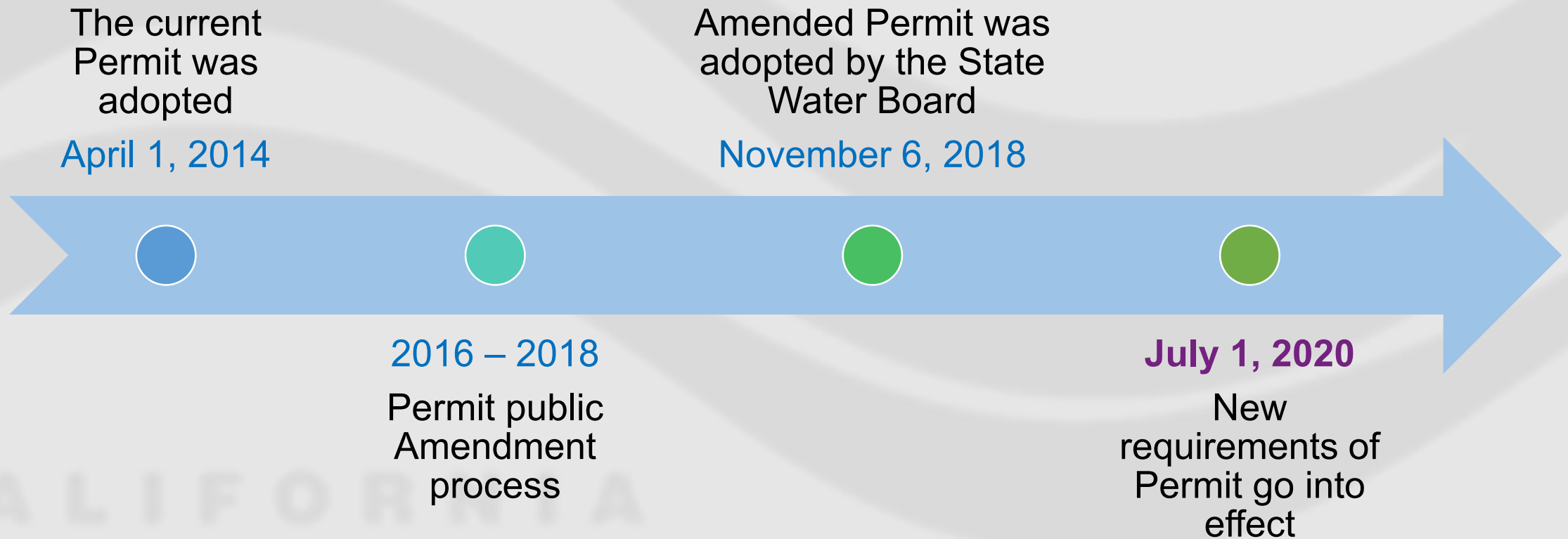
- Water body is added to Clean Water Act section 303(d) list of impaired water bodies
- TMDLs are developed by Regional Water Board or U.S. EPA to address impairments
- State Water Board also addresses impairments in Statewide regulations

TMDL

- Development of a TMDL goes through a separate public comment period and adoption process
- Adopted TMDLs are regulations incorporated into the Regional Water Board Basin Plans
- Federal regulations require permits to implement applicable existing TMDLs

TMDL IMPLEMENTATION OVERVIEW

GENERAL PERMIT TIMELINE



TMDL APPLICABILITY

SPECIFIC REQUIREMENTS

Attachment E of the amended Permit includes approved TMDLs and implementation requirements applicable to industrial storm water discharges.

ATTACHMENT E

LIST OF EXISTING TOTAL MAXIMUM DAILY LOADS (TMDLS) APPLICABLE TO INDUSTRIAL STORM WATER DISCHARGES

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT
FOR STORM WATER DISCHARGES
ASSOCIATED WITH INDUSTRIAL ACTIVITIES
(GENERAL PERMIT)

Table E-1: List of Applicable TMDLs

TMDL	Pollutant
<u>San Francisco Bay Regional Water Quality Control Board</u>	
Napa River Sediment TMDL	Sediment
Sonoma Creek Sediment TMDL	Sediment
Walker Creek Mercury TMDL	Mercury
<u>Los Angeles Regional Water Quality Control Board</u>	
Ballona Creek Metals TMDL	Metals
Ballona Creek Estuary Toxics TMDL	Toxic Pollutants
Ballona Creek, Ballona Estuary and Sepulveda Channel TMDL	Bacteria
Calleguas Creek Salt TMDL	Salts
Calleguas Creek Watershed Metals and Selenium TMDL	Metals and Selenium
Colorado Lagoon TMDL	Pesticides, Polycyclic aromatic hydrocarbons, PCBs, and Metals
Harbor Beaches of Ventura County TMDL	Bacteria
Long Beach City Beaches and Los Angeles River Estuary TMDL	Indicator Bacteria
Los Angeles and Long Beach Harbors Waters TMDL	Toxic and Metals
Los Angeles Area Lakes TMDL	Nitrogen, Phosphorus, Mercury, Trash, Organochlorine Pesticides and PCBs
Los Angeles Harbor (Inner Cabrillo Beach and Main Ship Channel) TMDL	Bacteria
Los Angeles River Nitrogen TMDL	Nutrients
Los Angeles River Metals TMDL	Metals
Los Cerritos Channel TMDL	Metals

TMDL	Pollutant
Machado Lake Nutrient TMDL	Nutrient
Machado Lake Toxics TMDL	Toxics
Marina del Rey Harbor Mothers' Beach and Back Basins TMDL	Bacteria
Marina Del Rey Harbor Toxics TMDL	Copper, Lead, Zinc, and Chlordane, and Total PCBs
Oxnard Drain 3 TMDL	Pesticides, PCBs and Sediment Toxicity
San Gabriel River Metals and Selenium TMDL	Metals and Selenium
Santa Clara River TMDL	Bacteria
Santa Clara River Chloride TMDL	Chloride
Santa Clara River Nitrogen TMDL	Nutrients
Santa Monica Bay Dichlorodiphenyltrichloroethane and Polychlorinated Biphenyls TMDLS	Dichlorodiphenyltrichloroethane and Polychlorinated Biphenyls
Santa Monica Bay Debris TMDL	Nearshore Debris
<u>Santa Ana Regional Water Quality Control Board</u>	
San Diego Creek and Newport Bay Toxics TMDL	Toxic Pollutants
<u>San Diego Regional Water Quality Control Board</u>	
Baby Beach and Shelter Island Indicator Bacteria TMDL	Indicator Bacteria
Chollas Creek Diazinon TMDL	Diazinon
Chollas Creek Metals TMDL	Copper, Lead, and Zinc
Los Peñasquitos Lagoon Sediment TMDL	Sediment
Rainbow Creek Watershed TMDL	Total Nitrogen and Total Phosphorus
Shelter Island Yacht Basin Copper TMDL	Dissolved Copper
Twenty Beaches and Creeks Bacteria TMDL	Indicator Bacteria

TMDL APPLICABILITY

ATTACHMENT E - TABLE E-2

TMDL	Impaired Waterbody/ Watershed	Pollutants	Additional TMDL-related Numeric Action Level or Numeric Effluent Limitation (TNAL/NEL)	Required Actions	Compliance Due Date
Name of TMDL with industrial storm water sources	TMDL impaired waterbody(ies) or watershed/tributaries	TMDL Pollutants	Applicable TMDL numeric action level or TMDL numeric effluent limitation	Required TMDL compliance actions	Compliance assessed on or after the date in this column

TMDL APPLICABILITY

TRANSLATION INTO PERMIT

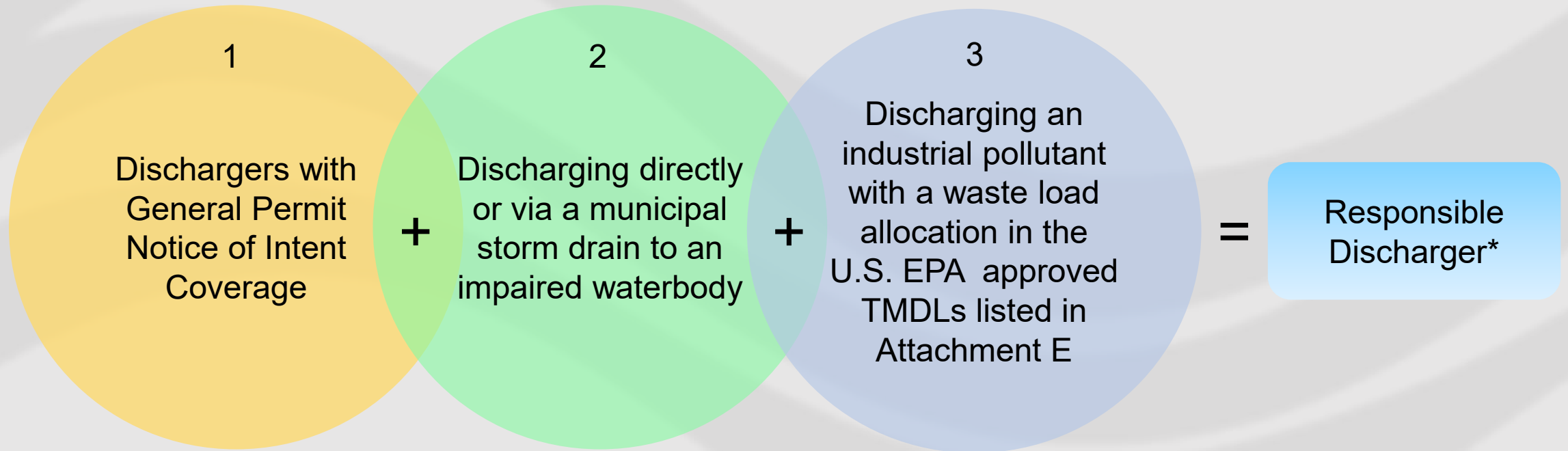
“Applicable TMDLs” are TMDLs with assigned Waste Load Allocations identifying industrial storm water as the point source. These were translated into the amended Permit as:

- TMDL-specific Numeric Action Levels (TNALs),
- Numeric Effluent Limitations (NELs), or
- None (no additional requirements)

Responsible Dischargers: Required to comply with applicable TMDL-specific requirements, in addition to all other applicable provisions of the Permit.

TMDL APPLICABILITY

DEFINITION OF A RESPONSIBLE DISCHARGER



***Note:** Does not apply to Dischargers with No-Exposure Certification coverage or a facility complying with the Notice of Non-Applicability criteria.

TMDL APPLICABILITY

GUIDANCE FOR DETERMINING A RESPONSIBLE DISCHARGER

Dischargers in the San Francisco Bay, Los Angeles, Santa Ana, or San Diego Regional Water Boards need to determine if they are a Responsible Discharger by identifying the Facility's:

1. Permit coverage type, verify Notice of Intent (NOI) is active.
2. Receiving water body(ies)/watershed per the definition of Responsible Discharger.
3. Industrial storm water discharging TMDL-specific pollutants.

Responsible Dischargers must identify the applicable TMDL-specific actions in Attachment E of the amended Permit.



TMDL APPLICABILITY

RESPONSIBLE DISCHARGER – NOTICE OF INTENT COVERAGE

Step 1 in determining a Responsible Discharger:

1

**Dischargers with
General Permit
Notice of Intent
Coverage**

A Discharger must have Notice of Intent coverage.



[This Photo](#) by Unknown Author is licensed under [CC BY-SA](#)

TMDL APPLICABILITY

RESPONSIBLE DISCHARGER – WATER BODY IDENTIFICATION

Step 2 in determining a Responsible Discharger:

2

**Discharging
directly or via a
municipal storm
drain to an
impaired
waterbody**


A Discharger must:

- Know the facility's receiving water body(ies) and watershed to determine the applicable TMDL-specific requirements.
- Identify the TMDL-specific watershed, water body and tributaries, or waterbody information from Attachment E, Table E-2 to implement the associated TMDL requirements.

TMDL APPLICABILITY

WATER BODY-WATERSHED TERMINOLOGY

- **Watershed:** discharges into any water within the watershed
- **Water Body and Tributaries:** discharges into any water within the watershed
- **Named Water Body:** discharges only to the identified water body



TMDL	Impaired Waterbody/ Watershed	Pollutants	Additional TMDL-related Numeric Action Level or Numeric Effluent Limitation (TNAL/NEL)	Required Actions	Compliance Due Date
------	----------------------------------	------------	--	------------------	---------------------



[This Photo](#) by Unknown Author is licensed under [CC BY-SA](#)

TMDL APPLICABILITY

RESPONSIBLE DISCHARGER – POLLUTANTS IDENTIFICATION

Step 3 in determining a Responsible Discharger:



TMDL	Impaired Waterbody/ Watershed	Pollutants	Additional TMDL-related Numeric Action Level or Numeric Effluent Limitation (TNAL/NEL)	Required Actions	Compliance Due Date
------	-------------------------------	------------	--	------------------	---------------------

A Discharger must:

- Identify industrial pollutants to be sampled from the facility’s pollutant source assessment.
- Compare identified industrial pollutants to the “Pollutants” column of Attachment E, Table E-2.

3
Discharging an industrial pollutant with a waste load allocation in the U.S. EPA approved TMDLs listed in Attachment E

TMDL APPLICABILITY

RESPONSIBLE DISCHARGER

EXPECTATIONS

Responsible Dischargers need to:

- Implement best management practices (BMPs) to reduce/prevent the pollutant discharge.
- Develop and implement a monitoring implementation plan.
- Conduct sampling and analysis for all applicable parameters.
- Develop and implement an updated storm water pollution prevention plan (SWPPP).



TMDL APPLICABILITY

EXAMPLE 1 – IDENTIFYING IMPAIRED WATERS AND POLLUTANTS

The Napa River Sediment TMDL applies if:

- The facility's storm water receiving water body is identified as Napa River.
- Sediment is identified in the facility's industrial pollutant source assessment and industrial storm water discharge.

TABLE E-2: Compliance Table for TMDL-related General Permit Requirements

TMDL	Impaired Waterbody/ Watershed	Pollutants	Additional TMDL-related Numeric Action Level or Numeric Effluent Limitation (TNAL/NEL)	Required Actions	Compliance Due Date
San Francisco Regional Water Quality Control Board (Region 2)					
Napa River Sediment TMDL	Napa River Watershed	Sediment	None	Comply with General Permit	July 1, 2020 <i>[Effective Date of these TMDL Requirements]</i>
Sonoma Creek Sediment TMDL	Sonoma Creek Watershed	Sediment	None	Comply with General Permit	July 1, 2020 <i>[Effective Date of these TMDL Requirements]</i>
Walker Creek Mercury TMDL	Walker Creek and Soulaule Reservoir	Mercury	None	Comply with General Permit	July 1, 2020 <i>[Effective Date of these TMDL Requirements]</i>

TMDL APPLICABILITY

EXAMPLE 2 – IDENTIFYING IMPAIRED WATERS AND POLLUTANTS

The Ballona Creek Metal TMDL applies if:

- The facility's storm water receiving water body is identified as Ballona Creek.
- Copper, lead, and/or zinc is identified in the facility's industrial pollutant source assessment and industrial storm water discharge.

TMDL	Impaired Waterbody/ Watershed	Pollutants	Additional TMDL-related Numeric Action Level or Numeric Effluent Limitation (TNAL/NEL)	Required Actions	Compliance Due Date
Los Angeles Regional Water Quality Control Board (Region 4)					
Ballona Creek Metals TMDL	Ballona Creek or Sepulveda Canyon Channel	Copper	Total Copper Instantaneous Maximum NEL of 0.0137 mg/L	In addition to complying with this General Permit, Responsible Dischargers shall take QSE samples in accordance with Section XI.B and shall compare the results to the corresponding TMDL Numeric Effluent Limitations (NELs). Sample, collection, and reporting shall be conducted in accordance with Section XI.B.	July 1, 2020 <i>(Effective Date of these TMDL Requirements)</i>
		Lead	Total Lead Instantaneous Maximum NEL of 0.07675 mg/L		
		Zinc	Total Zinc Instantaneous Maximum NEL of 0.10477 mg/L		

TMDL TIMING REQUIREMENTS

COMPLIANCE DATES

Attachment E, Table E-2

- All compliance dates are effective on or after July 1, 2020.

TMDL	Impaired Waterbody/ Watershed	Pollutants	Additional TMDL-related Numeric Action Level or Numeric Effluent Limitation (TNAL/NEL)	Required Actions	Compliance Due Date
------	----------------------------------	------------	--	------------------	---------------------

- Examples:

- If compliance dates have passed, this means effective upon July 1, 2020.
- If compliance dates are July 1, 2020, this means effective upon July 1, 2020.
- If compliance dates are after July 1, 2020, this means effective upon the stated future compliance date.



TMDL TIMING REQUIREMENTS

ADDITIONAL TMDL NUMERIC REQUIREMENTS AND REQUIRED ACTIONS

TMDL	Impaired Waterbody/ Watershed	Pollutants	Additional TMDL-related Numeric Action Level or Numeric Effluent Limitation (TNAL/NEL)	Required Actions	Compliance Due Date
------	----------------------------------	------------	--	------------------	---------------------

Additional TMDL Numeric Requirements	Required Actions
None	<ul style="list-style-type: none"> Comply with Permit
Interim (Assigned a TNAL)	<ul style="list-style-type: none"> Follow direction of the Required Actions
Final (Assigned TNAL or NEL)	<ul style="list-style-type: none"> Follow direction of the Required Actions

TMDL TIMING REQUIREMENTS

COMPLIANCE DATES IN TABLE E-2 OF ATTACHMENT E

- “Compliance Due Date” indicates the date when the TNAL/NEL and the required actions go into effect.
- Ballona Creek or Sepulveda Canyon Channel copper, lead, and zinc NELs are applicable and effective on July 1, 2020.

TMDL	Impaired Waterbody/ Watershed	Pollutants	Additional TMDL-related Numeric Action Level or Numeric Effluent Limitation (TNAL/NEL)	Required Actions	Compliance Due Date
Los Angeles Regional Water Quality Control Board (Region 4)					
Ballona Creek Metals TMDL	Ballona Creek or Sepulveda Canyon Channel	Copper	Total Copper Instantaneous Maximum NEL of 0.0137 mg/L	In addition to complying with this General Permit, Responsible Dischargers shall take QSE samples in accordance with Section XI.B and shall compare the results to the corresponding TMDL Numeric Effluent Limitations (NELs). Sample, collection, and reporting shall be conducted in accordance with Section XI.B.	July 1, 2020 <i>(Effective Date of these TMDL Requirements)</i>
		Lead	Total Lead Instantaneous Maximum NEL of 0.07675 mg/L		
		Zinc	Total Zinc Instantaneous Maximum NEL of 0.10477 mg/L		

TMDL TIMING REQUIREMENTS

COMPLIANCE DUE DATES: INTERIM TARGETS

- Some TNAL translations are an interim target.
- If there is an interim target, then there is a final target.
- An interim TNAL compliance due date is when the Responsible Discharger implements the TNAL and associated Exceedance Response Actions.

TMDL	Impaired Waterbody/ Watershed	Pollutants	Additional TMDL-related Numeric Action Level or Numeric Effluent Limitation (TNAL/NEL)	Required Actions	Compliance Due Date
Los Angeles and Long Beach Harbor Waters TMDL	Dominguez Channel or Torrance Lateral Channel	Copper	Interim Total Copper Instantaneous Maximum TNAL of 0.20751 mg/L	(See Required Actions <u>continued</u> on the next page)	July 1, 2020 (Effective Date of these TMDL Requirements)
		Lead	Interim Total Lead Instantaneous Maximum TNAL of 0.12288 mg/L		

TMDL TIMING REQUIREMENTS

COMPLIANCE DUE DATES: FINAL TARGETS

- The Final TNAL/NEL compliance due date is when the Responsible Discharger implements the final TNAL/NEL requirements.
- The Final TNAL/NEL value for a pollutant will replace the interim value.
- The NAL for a pollutant will always apply.

Los Angeles and Long Beach Harbor Waters TMDL (cont.)	Dominguez Channel or Torrance Lateral Channel (cont.)	Copper	<p>Final Total Copper Instantaneous Maximum NEL of 0.0097 mg/L</p> <p>Responsible Dischargers are not subject to this NEL until the Compliance Due Date. See interim requirements for copper above.</p>	<p>In addition to complying with this General Permit, Responsible Dischargers shall take QSE samples in accordance with Section XI.B and shall compare the results to the corresponding TMDL Numeric Effluent Limitations (NELs). Sample, collection, and reporting shall be conducted in accordance with Section XI.B.</p>	May 5, 2032
		Lead	<p>Final Total Lead Instantaneous Maximum NEL of 0.0427 mg/L</p> <p>Responsible Dischargers are not subject to this NEL until the Compliance Due Date. See interim requirements for lead above.</p>	<p>In addition to complying with this General Permit, Responsible Dischargers shall take QSE samples in accordance with Section XI.B and shall compare the results to the corresponding TMDL Numeric Effluent Limitations (NELs). Sample, collection, and reporting shall be conducted in accordance with Section XI.B.</p>	May 5, 2032

TMDL TIMING REQUIREMENTS

NUMERIC ACTION LEVEL (NAL) APPLICABILITY

- Finding 45 of the amended Permit:

Upon July 1, 2020, Responsible Dischargers shall continue to comply with applicable NALs found in Table 2 of the General Permit in addition to applicable TNALs and NELs found in Table E-2 of Attachment E.

- The TNAL or NEL pollutant value applies concurrently and in addition to NAL values for the same pollutant.

TMDL TIMING REQUIREMENTS

SCENARIO 1 – APPLICABILITY AND TIMING EXAMPLES

TMDL	Impaired Waterbody/ Watershed	Pollutants	Additional TMDL-related Numeric Action Level or Numeric Effluent Limitation (TNAL/NEL)	Required Actions	Compliance Due Date
Marina del Rey Harbor Toxics TMDL	Marina del Rey Harbor	Chlordane	None	No additional requirements for sediment-based targets Comply with General Permit	July 1, 2020 <i>(Effective Date of these TMDL Requirements)</i>
		Copper	None		
		p,p' DDE	None		
		DDT	None		
		Lead	None		
		PCBs	None		
		Zinc	None		

- A Discharger with Notice of Intent Coverage has a facility in the Los Angeles Region.
- The facility's identified receiving water is the Marina del Rey Harbor.
- Copper is an identified industrial pollutant parameter for the facility.
 - TMDL is applicable
 - *Compliance Due Date: July 1, 2020*

TMDL TIMING REQUIREMENTS

SCENARIO 2 – APPLICABILITY AND TIMING EXAMPLES

- A Discharger with Notice of Intent Coverage has a facility in the San Diego Region.
- The facility’s identified receiving water is Chollas Creek.
- Zinc is an identified industrial pollutant parameter for the facility.
 - TMDL is applicable
 - *Interim Compliance Due Date: July 1, 2020*

TMDL	Impaired Waterbody/ Watershed	Pollutants	Additional TMDL-related Numeric Action Level or Numeric Effluent Limitation (TNAL/NEL)	Required Actions	Compliance Due Date
Chollas Creek Metal TMDL	Chollas Creek	Copper	Interim Total Copper Instantaneous Maximum TNAL of 0.083 mg/L	In addition to complying with this General Permit, Responsible Dischargers shall take QSE samples in accordance with Section XI.B and shall compare the results to the corresponding TMDL Numeric Action Level (TNAL). Sample, collection, and reporting shall be conducted in accordance with Section XI.B.	July 1, 2020 <i>(Effective Date of these TMDL Requirements)</i>
		Lead	Interim Total Lead Instantaneous Maximum TNAL of 0.068 mg/L		
		Zinc	Interim Total Zinc Instantaneous Maximum TNAL of 0.175 mg/L		

TMDL TIMING REQUIREMENTS

SCENARIO 2 – APPLICABILITY AND TIMING EXAMPLES – PART 2

- Chollas Creek has an Interim TNAL.
- Look for Final TNAL or NEL.

➤ *Final Compliance Due Date:*
October 22, 2028

Chollas Creek Metal TMDL	Chollas Creek	Lead	for Total Copper above. Total Lead Instantaneous Maximum NEL of 0.068 mg/L. Responsible Dischargers are not subject to this NEL until the Compliance Due Date. See interim requirements for Total Lead above.	In addition to complying with this General Permit, Responsible Dischargers shall take QSE samples in accordance with Section XI.B and shall compare the results to the corresponding TMDL Numeric Effluent Limitation (NEL). Sample, collection, and reporting shall be conducted in accordance with Section XI.B.	October 22, 2028
		Zinc	Total Zinc Instantaneous Maximum NEL of 0.175 mg/L. Responsible Dischargers are not subject to this NEL until the Compliance Due Date. See interim requirements for Total Zinc above.		

TMDL-SPECIFIC NUMERIC REQUIREMENTS

ANNUAL AVERAGE VS. INSTANTANEOUS MAXIMUM EXCEEDANCE

Annual Average Exceedance:

- When the annual average concentration of all the Qualifying Storm Event sampling analytical results for a parameter exceed the corresponding annual NAL value within a reporting year.

Instantaneous Maximum Exceedance:

- When the instantaneous maximum concentration from two or more Qualifying Storm Event sampling analytical results for a parameter exceed the corresponding instantaneous maximum NAL, TNAL, or NEL value within a reporting year.

TMDL-SPECIFIC NUMERIC REQUIREMENTS

EXCEEDANCE TYPES AND REQUIREMENTS

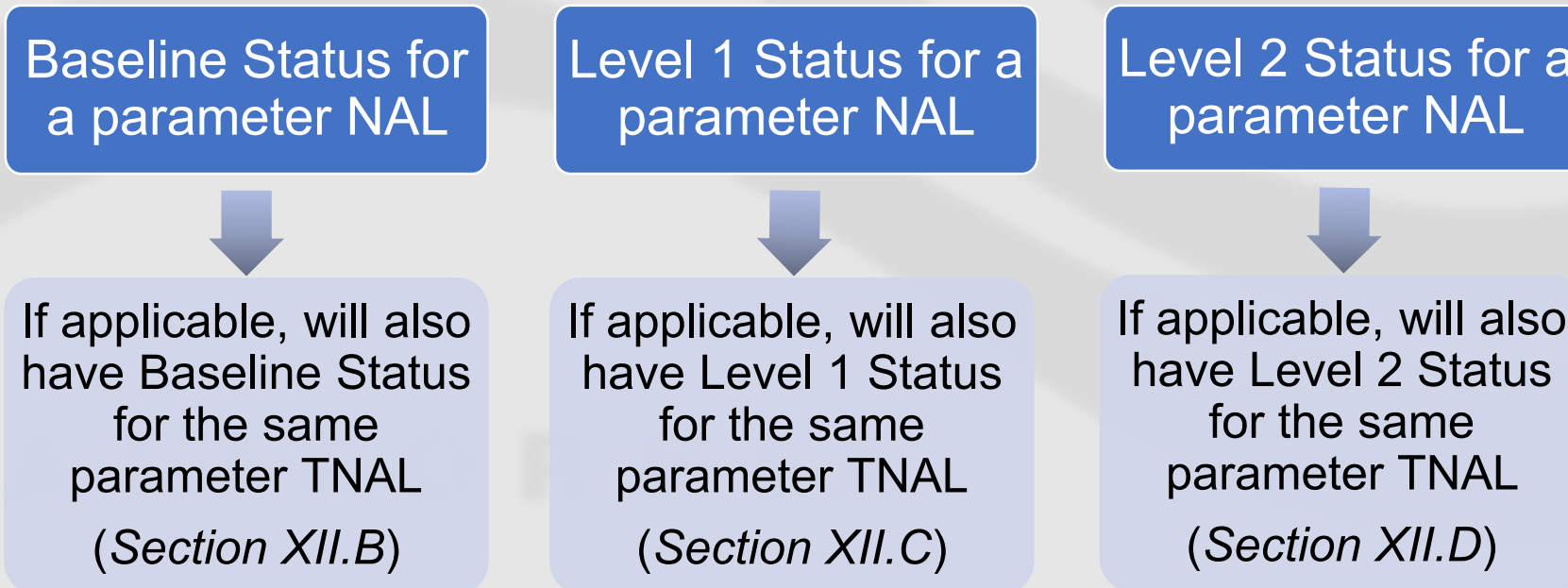
	Numeric Action Levels (NALs)	TMDL-Specific Numeric Action Levels (TNALs)	Numeric Effluent Limitations (NELs)
Exceedance Type	<ul style="list-style-type: none"> • Annual Average concentrations, except for pH • Instantaneous Maximum concentrations for: <ul style="list-style-type: none"> ➤ pH ➤ Total Suspended Solids ➤ Oil and Grease 	Instantaneous Maximum concentrations	Instantaneous Maximum concentrations
Exceedance Implementation Requirements	Exceedance Response Actions (ERA) process	Exceedance Response Actions (ERA) process	<ul style="list-style-type: none"> • Issuance of a Violation • Water Quality Based Corrective Actions • Mandatory Minimum Penalties may apply

TMDL-SPECIFIC NUMERIC REQUIREMENTS

TIMING OF LEVEL STATUS

- **Only** NAL and TNAL exceedances trigger the Exceedance Response Action (ERA) Process.
- The ERA process is not applicable to NEL exceedances.

Upon July 1, 2020, Responsible Dischargers that have:



Example:

On July 1, 2020, the facility is:

- In Level 1 for the copper NAL, and
- Subject to a copper TNAL



On July 1, 2020, the facility is in Level 1 due to both a:

- Copper NAL, and
- Copper TNAL

TMDL-SPECIFIC NUMERIC REQUIREMENTS

RESPONSIBLE DISCHARGER EXCEEDANCE TRACKING

Responsible Dischargers must track applicable exceedances concurrently for the same parameter within a Reporting Year:

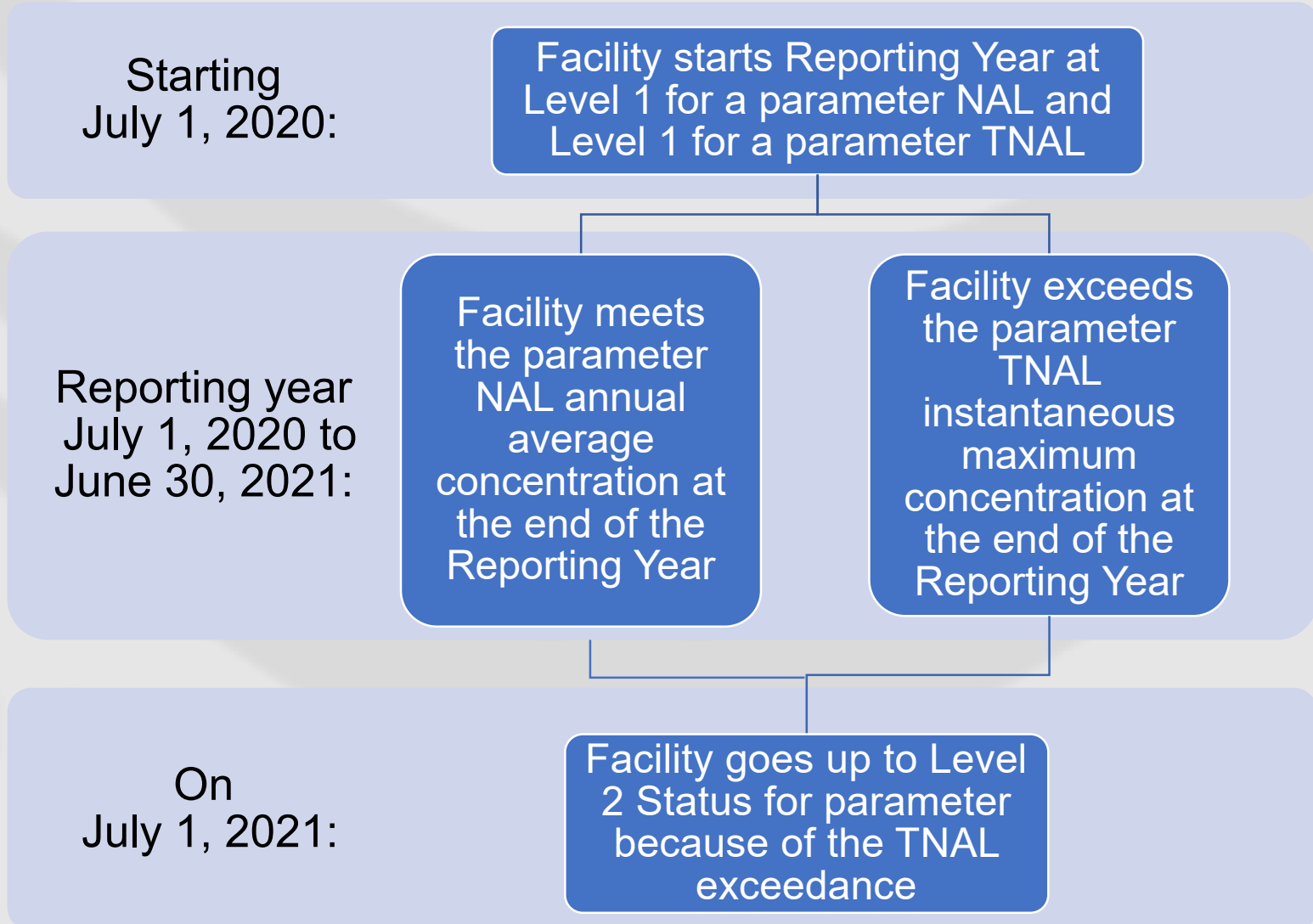
- Numeric Action Level (NAL) exceedances, **and**
- TMDL-Numeric Action Level (TNAL) instantaneous maximum exceedances, **or**
- Numeric Effluent Limitation (NEL) instantaneous maximum exceedances

TMDL-SPECIFIC NUMERIC REQUIREMENTS

RESPONSIBLE DISCHARGER ACTION LEVEL

EXCEEDANCE TRACKING EXAMPLE

- Some parameters will have both NALs and TNALs.
- Both NALs and TNALs must be tracked concurrently through the Level ERA process.



TMDL-SPECIFIC NUMERIC REQUIREMENTS

RESPONSIBLE DISCHARGER NAL AND NEL EXCEEDANCE TRACKING EXAMPLE

- Some parameters will have both NALs and NELs.
- Both NALs and NELs must be tracked concurrently, however:
 - NAL exceedances follow the Level ERA process.
 - NEL exceedances are a violation.



TMDL-SPECIFIC NUMERIC REQUIREMENTS

NUMERIC EFFLUENT LIMITATIONS (NELS)

- Exceedances of NELs will result in:
 - Permit Violations
 - Water Quality Based Corrective Actions
- Exceedances of NELs may result in:
 - Mandatory Minimum Penalties (MMPs)
- Responsible Dischargers may request a Time Schedule Order (TSO) for the Regional Water Board's consideration when:
 - Additional time is necessary to comply with final TMDL-specific NELs, and
 - The requester meets the requirements in the California Water Code.

TMDL-SPECIFIC NUMERIC REQUIREMENTS

NELS – TIME SCHEDULE ORDERS

- A detailed compliance time schedule of specific actions the Discharger will take to correct or prevent a violation of requirements and attain compliance with NELS. *~California Water Code Sections 13300 and 13385(j)(3)*
- Regional Water Board approval is required.
- Plan early to request a TSO and for the approval process.
- 3rd party citizen lawsuits may still occur when a TSO is in effect.
- TSOs are not applicable to NALs or TNALS.

TMDL-SPECIFIC NUMERIC REQUIREMENTS

NELS AND WATER QUALITY BASED CORRECTIVE ACTIONS

- Water Quality Based Corrective Actions are required when an NEL is exceeded.
- A Responsible Discharger should determine when one is needed or the Regional Water Board may notify when one is needed.
- Submit as soon as feasible or upon due date provided by the Regional Water Board.
- Can be combined with ERA Report if addressing exceedances for the same parameter (may have to be submitted in SMARTS more than once).

TMDL-SPECIFIC NUMERIC REQUIREMENTS

NELS – WATER QUALITY BASED CORRECTIVE ACTIONS

When Water Quality Based Corrective Actions are determined, a Discharger is required to:

- Evaluate and identify pollutant sources at the facility and assess the implementation measures described in the SWPPP,
- Determine whether SWPPP implementation measures are necessary to reduce or prevent pollutants to meet NELS,
- Submit documentation in SMARTS that the facility evaluation and assessment include:
 - Additional implementation measures that have been identified and included in the SWPPP to meet the NELS, **or**
 - No additional SWPPP implementation measures are required to reduce or prevent pollutants to meet applicable NELS.

TMDL-SPECIFIC NUMERIC REQUIREMENTS

MANDATORY MINIMUM PENALTIES (MMPs)

- Mandatory Minimum Penalties (MMPs) apply to specific serious and chronic numeric effluent limitation violations of the Permit.
- MMPs of three thousand dollars (\$3,000) are assessed by the Regional Water Boards for each:
 - Serious violation ~ **Section 13385 (h) (see footnote)*
 - Chronic violation ~ **Section 13385 (i) (see footnote)*
- MMPs are not applicable to NALs or TNALS.
- Internal guidance is under development for MMP assessment process.

**California Water Code Division 7. Water Quality [13000 - 16104]*

TMDL-SPECIFIC NUMERIC REQUIREMENTS

MMPs – SERIOUS VIOLATIONS

- An industrial storm water discharge parameter that exceeds an applicable NEL concentration two (2) or more times in a reporting year are assessed for a serious violation.
- Serious violations assessed include when:
 - A parameter exceeds an applicable NEL for a:
 - Group I pollutant by 40% or more, or
 - Group II pollutant by 20% or more; or
 - Failure to submit Ad Hoc Monitoring Reports from a Qualifying Storm Event within the 30 days of receiving results.

Group I Pollutants - TRC=1.4	
Oxygen Demand	Other detergents or algicides
Biochemical Oxygen Demand	Minerals
Chemical Oxygen Demand	Calcium
Total Oxygen Demands	Chloride
Total Organic Carbon	Fluoride
Other	Magnesium
Solids	Sodium
Total Suspended Solids (Residues)	Potassium
Total Dissolved Solids (Residues)	Sulfur
Other	Sulfate
Nutrients	Total Alkalinity
Inorganic Phosphorus Compounds	Total Hardness
Inorganic Nitrogen Compounds	Other Minerals
Other	Metals
Detergents and Oils	Aluminum
MBAS	Cobalt
NTA	Iron
Oil and Grease	Vanadium

20% or more for a Group II pollutant*

Group II Pollutants - TRC=1.2	
<i>Metals</i> (all forms)	
Other metals not specifically listed under Group I	
Inorganic	
Cyanide	
Total Residual Chlorine	
Organics	
All organics are Group II except those specifically listed under Group I.	

TMDL-SPECIFIC NUMERIC REQUIREMENTS

MMPs – CHRONIC VIOLATIONS

- An industrial storm water discharge parameter exceeding an applicable NEL concentration four (4) or more times within a consecutive six (6) months are assessed for chronic violations.
- Chronic violations assessed include when a Discharger:
 - Violates an applicable effluent limitation (*e.g., TMDL Numeric Effluent Limitation*),

TMDL REPORTING REQUIREMENTS

SMARTS

- Reporting requirements will continue to be done electronically through SMARTS.
- Dischargers complying with TMDL-specific requirements are ultimately responsible for identifying and reporting applicable requirement compliance.
- Implementation of TMDLs in SMARTS is currently in development.



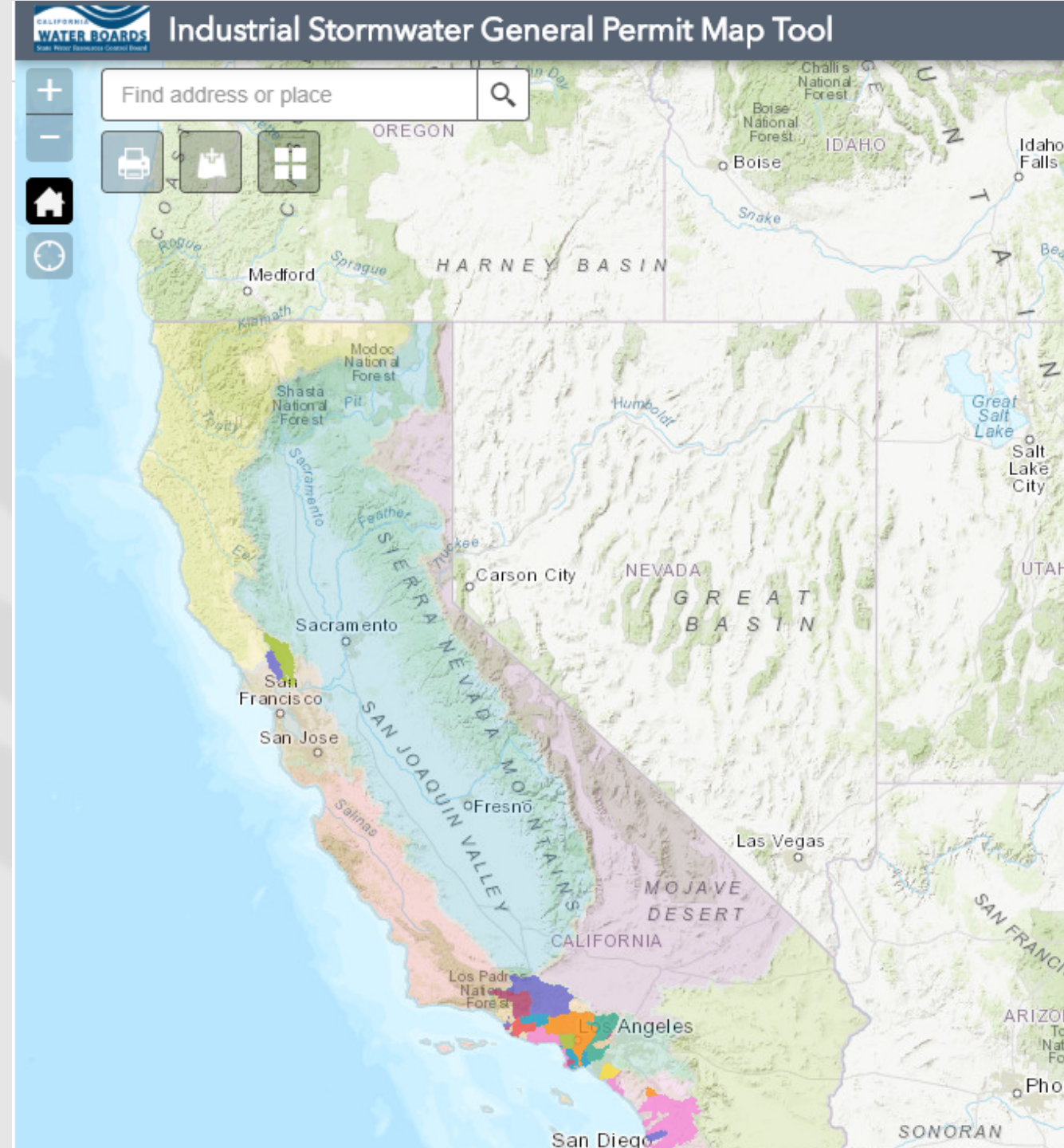
ONLINE PERMIT MAPPING TOOL

CALIFORNIA

2018 INDUSTRIAL GENERAL PERMIT MAP TOOL

MAP TOOL TERMINOLOGY AND PURPOSE

- **ArcGIS:** Geographic Information System (GIS) Mapping software
- **Federal Hydrologic Unit Code 10 (HUC 10) features:** federally-defined watershed boundaries
- **Metadata:** a set of descriptive information about a data sets, similar to a dictionary.
- **Map Tool Purpose:** provide the regulated community and the public geographic data resources for this General Permit.



PERMIT MAP TOOL

FINDING THE ONLINE MAP TOOL

[Industrial Storm Water Program Page Website Link:](http://www.waterboards.ca.gov/IndustrialStormwater)

(www.waterboards.ca.gov/IndustrialStormwater)

[Map Tool Link:](https://gispublic.waterboards.ca.gov/portal/apps/MapJournal/index.html?appid=27fb09e76665429f915f96b9e760f267)

(<https://gispublic.waterboards.ca.gov/portal/apps/MapJournal/index.html?appid=27fb09e76665429f915f96b9e760f267>)

California State Water Resources Control Board
Industrial Storm Water Permitting

Home | Water Issues | Programs | Stormwater | Industrial

Industrial Stormwater Program

The Industrial General Permit regulates industrial storm water discharges and authorized non-storm water discharges from industrial facilities in California. The Industrial General Permit is called a general permit because many industrial facilities are covered by the same permit, but comply with its requirements at their individual industrial facilities. The State Water Resources Control Board (State Water Board) and Regional Water Quality Control Boards (collectively, the Water Boards) implement and enforce the Industrial General Permit.

Industrial General Permit | Permit Coverage | QISP | **Mapping Tools** | Resources

The Statewide General Permit for Storm Water Discharges Associated with Industrial Activities, Order 2014-0057-DWQ (Industrial General Permit or IGP) implements the federally required storm water regulations in California for storm water associated with industrial activities discharging to waters of the United States. The IGP regulates discharges associated with 10 federally defined categories of industrial activities.

Industrial General Permit | Permit Coverage | QISP | **Mapping Tools** | Resources

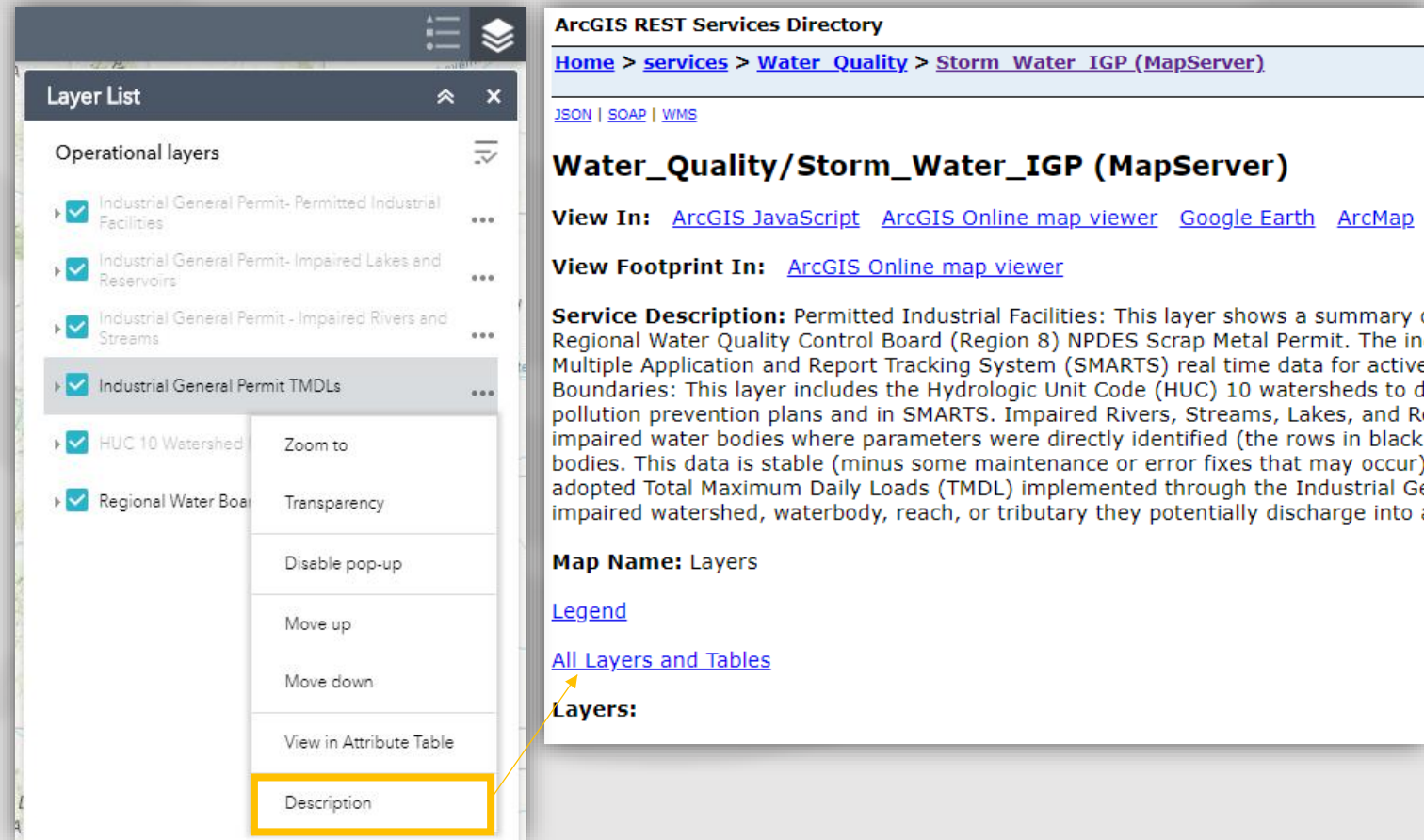
- Impaired Waterbody and Total Maximum Daily Load Map Tool
 - Impaired Waterbody Map Features:
 - This map tool allows a user to locate Hydrologic Unit Code 10 (HUC-10) watersheds and impaired waterbodies with applicable requirements from Appendix 3 of the Industrial General Permit.
 - Total Maximum Daily Load Map Features:
 - This map tool allows a user to find Total Maximum Daily Load (TMDL) waterbody(ies) or watersheds that will have implementation requirements through the Industrial General Permit effective July 1, 2020.

PERMIT MAP TOOL

HOW TO DOWNLOAD MAP TOOL FILES AND FIND METADATA

- [Website to download public map files:](https://ftp.waterboards.ca.gov/)
(<https://ftp.waterboards.ca.gov/>)
- Website Login Information:
UserID: GIS_Shared
Password: GIS_Download
- Go to the 'IGP' folder after login to access the downloadable files

Metadata – Map Data Information



The image shows two overlapping screenshots. The left screenshot is a 'Layer List' window from ArcGIS, showing a list of layers under 'Operational layers'. The 'Industrial General Permit TMDLs' layer is selected, and a context menu is open with the 'Description' option highlighted in a yellow box. The right screenshot is a web browser showing the 'ArcGIS REST Services Directory' page for the 'Water_Quality/Storm_Water_IGP (MapServer)' service. The page includes navigation links, a 'View In:' section with links to 'ArcGIS JavaScript', 'ArcGIS Online map viewer', 'Google Earth', and 'ArcMap', and a 'View Footprint In:' section with a link to 'ArcGIS Online map viewer'. The 'Service Description' section provides details about the layer, including information about the Regional Water Quality Control Board (Region 8) NPDES Scrap Metal Permit and SMARTS real-time data. The 'Map Name:' is 'Layers', and there are links for 'Legend' and 'All Layers and Tables'. An arrow points from the 'Description' option in the Layer List context menu to the 'Layers:' section in the metadata page.

PERMIT MAP TOOL

MAP TOOL BASIC FUNCTIONS – USER TOOLS

Industrial General Permit Map Tool

This map includes adopted Total Maximum Daily Loads (TMDLs) implemented through the Statewide Industrial Storm Water General Permit (Industrial General Permit) for specific impaired waterbody(ies) or watersheds. The purpose of this map is to provide industrial storm water dischargers guidance for determining if they potentially discharge to: 1) an impaired watershed, waterbody, reach, or tributary, and 2) areas associated with TMDLs included in the Industrial General Permit's Attachment E.

Additional Features

Users can use this tool to find the Hydrologic Unit Code 10 (HUC-10) watershed where a facility is located, and determine the associated impaired waterbodies applicable in Appendix 3 of the Industrial General Permit.

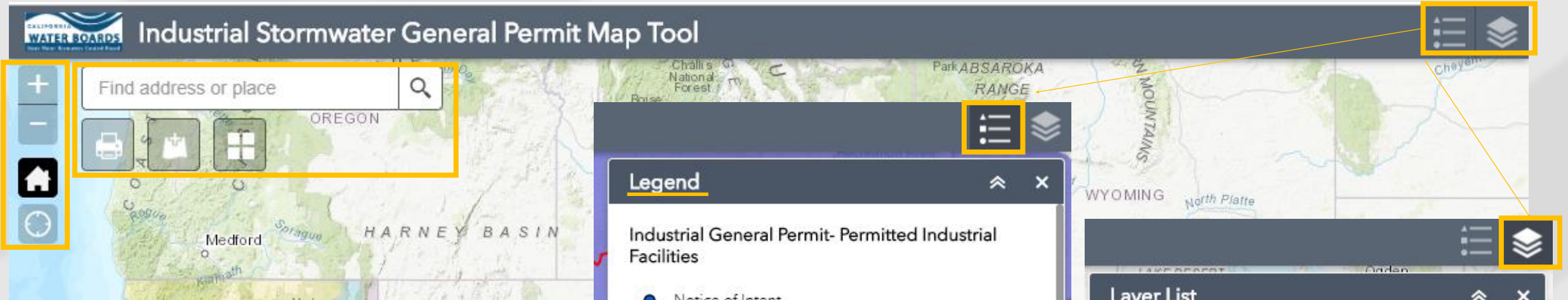
This tool includes information for permitted industrial facilities in California with active Industrial General Permit coverage (Notice of Intent or No Exposure Certification), active Santa Ana Regional Water Quality Control Board (Region 8) Scrap Metal Permit coverage, or a submitted notice of non-applicability.

Please zoom in to view the additional features.

****[Link to view the standalone map](#)****

PERMIT MAP TOOL

MAP TOOL BASIC FUNCTIONS – USER TOOLS



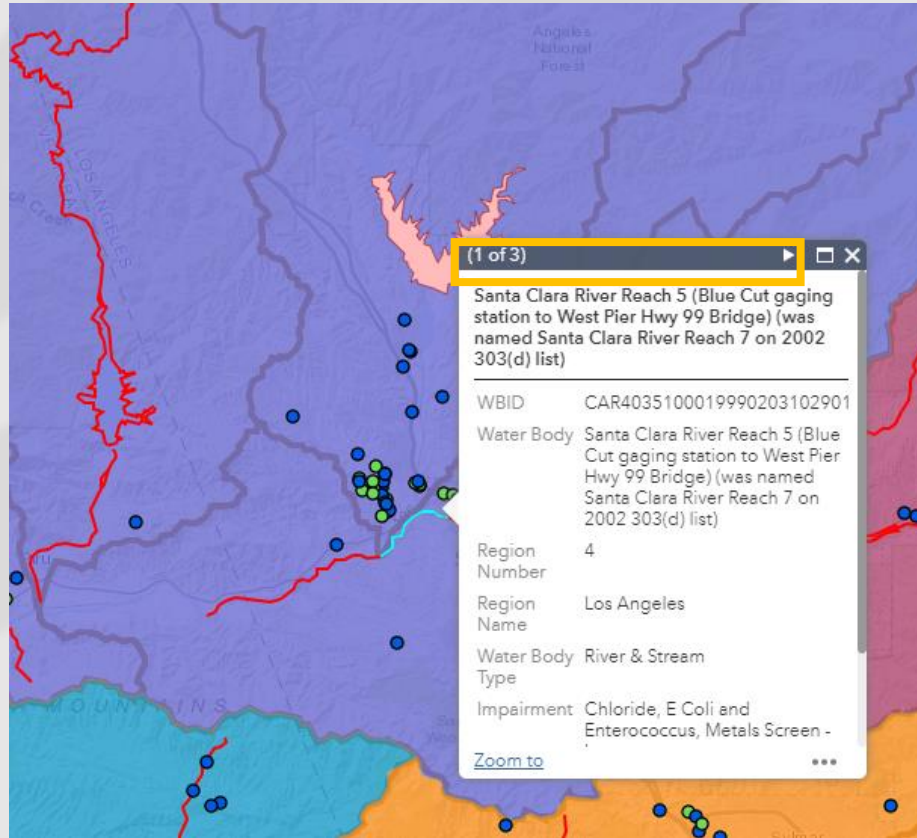
Layer visibility changes using the mouse zoom



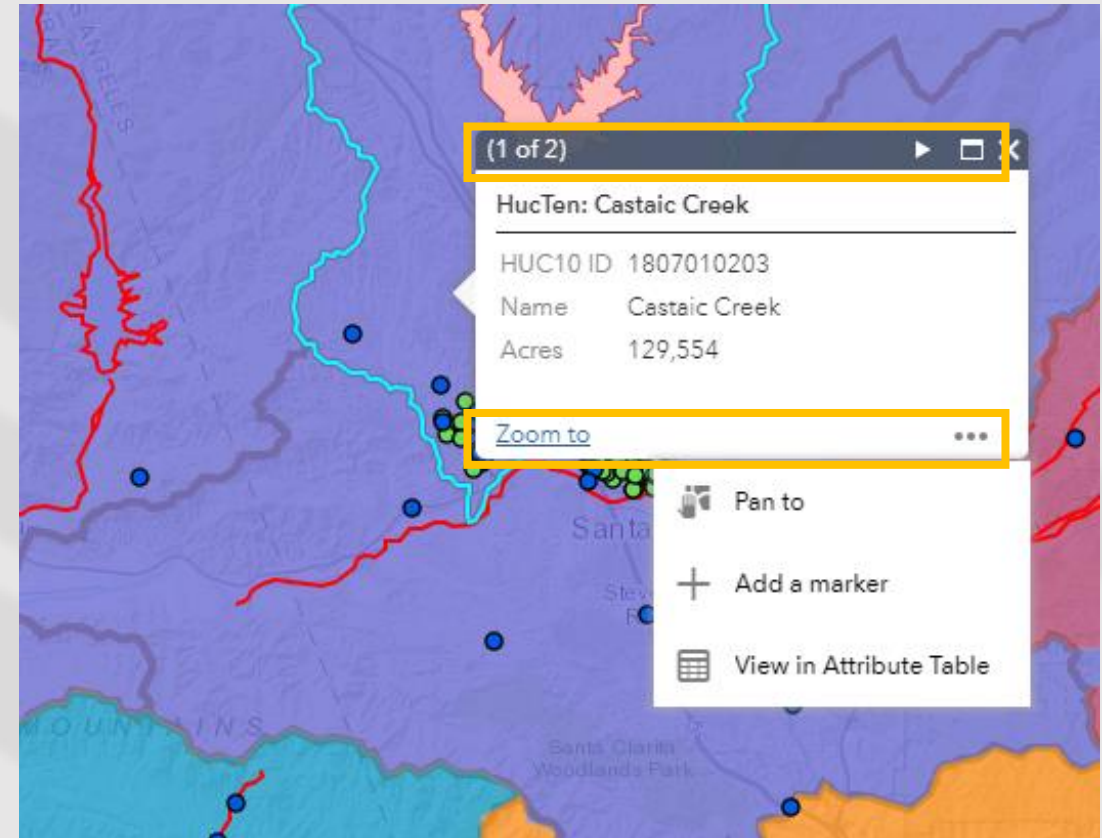
This photo is licensed by creative commons (<https://creativecommons.org/licenses/by-nc-sa/3.0/>)

PERMIT MAP TOOL

MAP TOOL BASIC FUNCTIONS – FEATURE POP-UPS



Pop-Up changes based on selection



PERMIT MAP TOOL

MAP TOOL AND TOTAL MAXIMUM DAILY LOAD (TMDL) FEATURES

- The Map Tool is designed to orient a facility within the surrounding potentially applicable TMDL watersheds.
- The Map Tool cannot determine if a TMDL applies to a facility
- Discharger must know the following to determine applicability:
 - Facility's receiving water(s)
 - Facility's industrial pollutants
 - How to access and read Attachment E of the amended Permit

PERMIT MAP TOOL

CASE STUDY 1 – USING THE MAP TOOL TO IDENTIFY TMDL REQUIREMENTS

A Discharger must know the following to determine applicability:

- Discharger's facility in Petaluma, CA
- Facility receiving water: Sonoma Creek

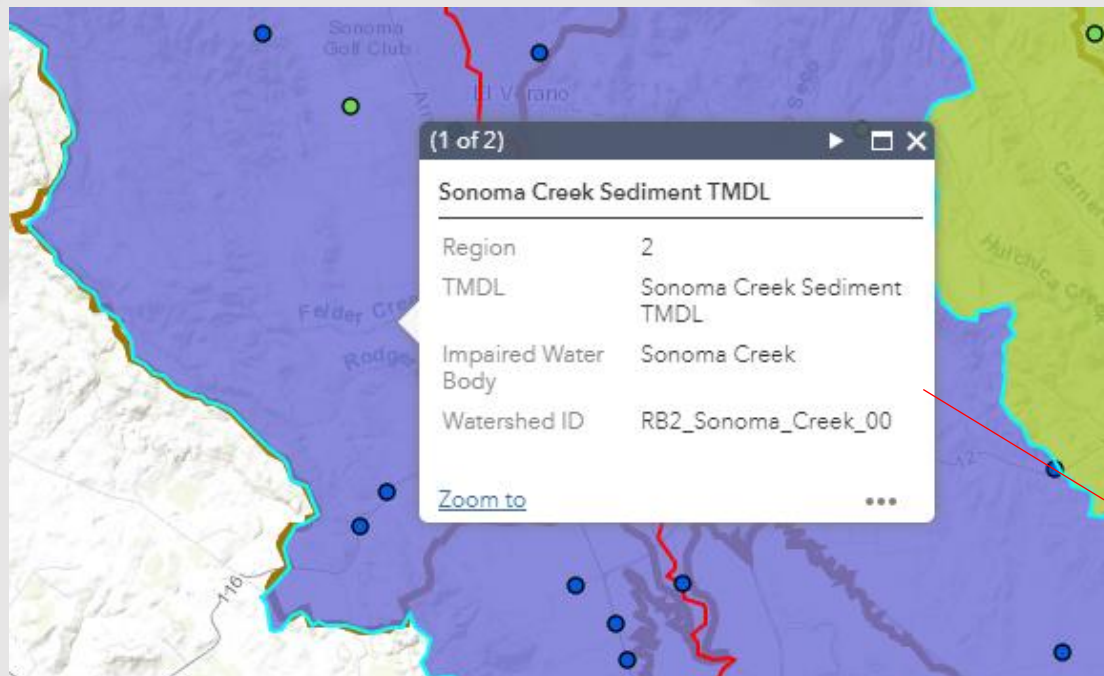


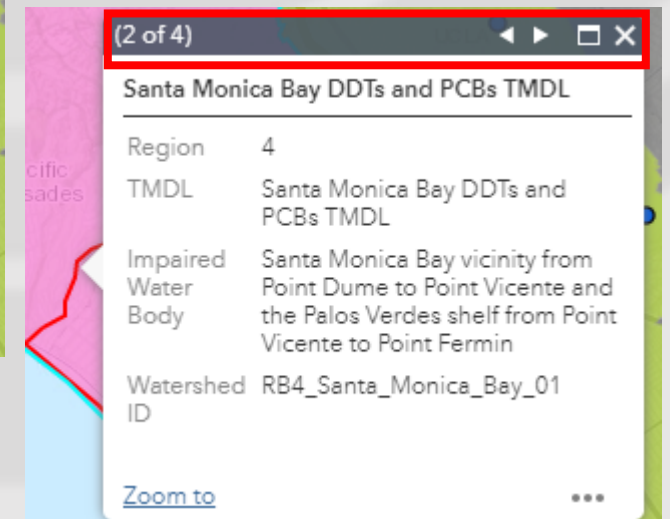
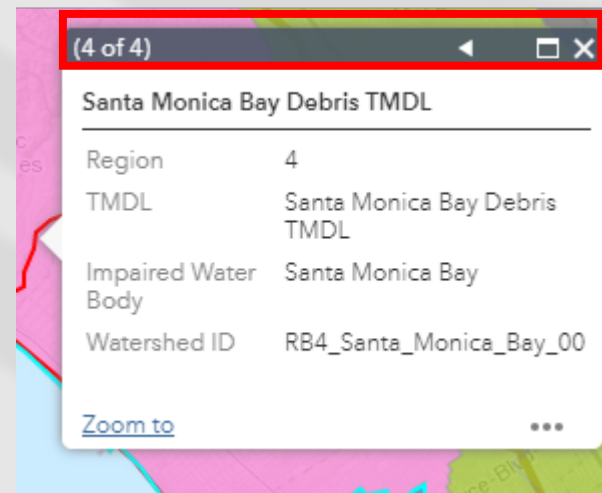
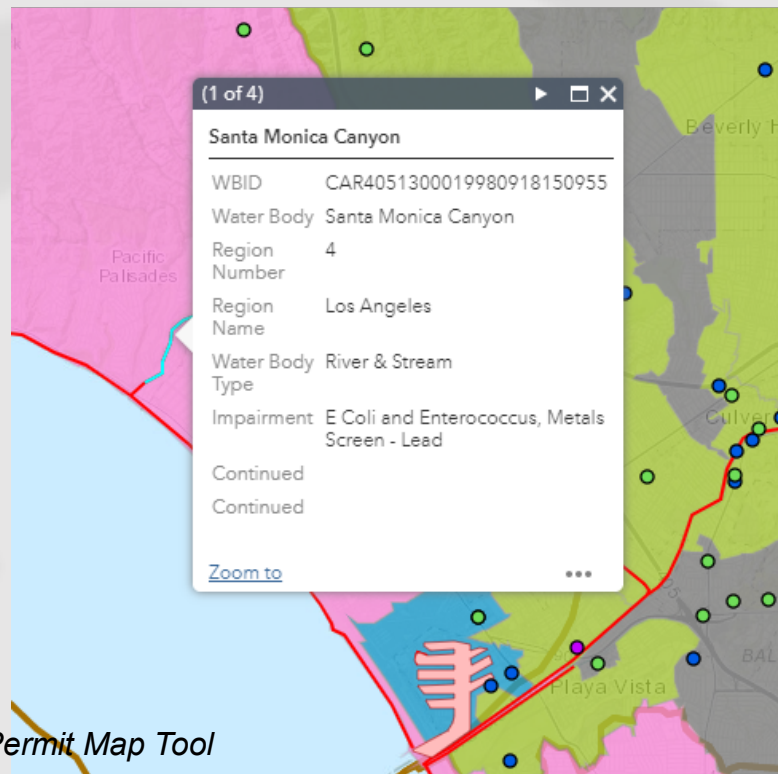
TABLE E-2: Compliance Table for TMDL-related General Permit Requirements

TMDL	Impaired Waterbody/Watershed	Pollutants	Additional TMDL-related Numeric Action Level or Numeric Effluent Limitation (TNAL/NEL)	Required Actions	Compliance Due Date
San Francisco Regional Water Quality Control Board (Region 2)					
Napa River Sediment TMDL	Napa River Watershed	Sediment	None	Comply with General Permit	July 1, 2020 <i>[Effective Date of these TMDL Requirements]</i>
Sonoma Creek Sediment TMDL	Sonoma Creek Watershed	Sediment	None	Comply with General Permit	July 1, 2020 <i>[Effective Date of these TMDL Requirements]</i>

PERMIT MAP TOOL

CASE STUDY 2 – USING THE MAP TOOL TO IDENTIFY TMDL REQUIREMENTS

- A Discharger must know the following to determine applicability:
 - Discharger's facility in Santa Monica, CA
 - Facility receiving water: Santa Monica Canyon



PERMIT MAP TOOL

CASE STUDY 2 – USING THE MAP TOOL TO IDENTIFY TMDL REQUIREMENTS

A Discharger must know the following to determine applicability:

- Receiving water: Santa Monica Canyon listed for E. coli, Enterococcus, lead
- TMDLs related geographically: 1) Santa Monica Bay DDT and PCBs 2) Santa Monica Bay Debris TMDL

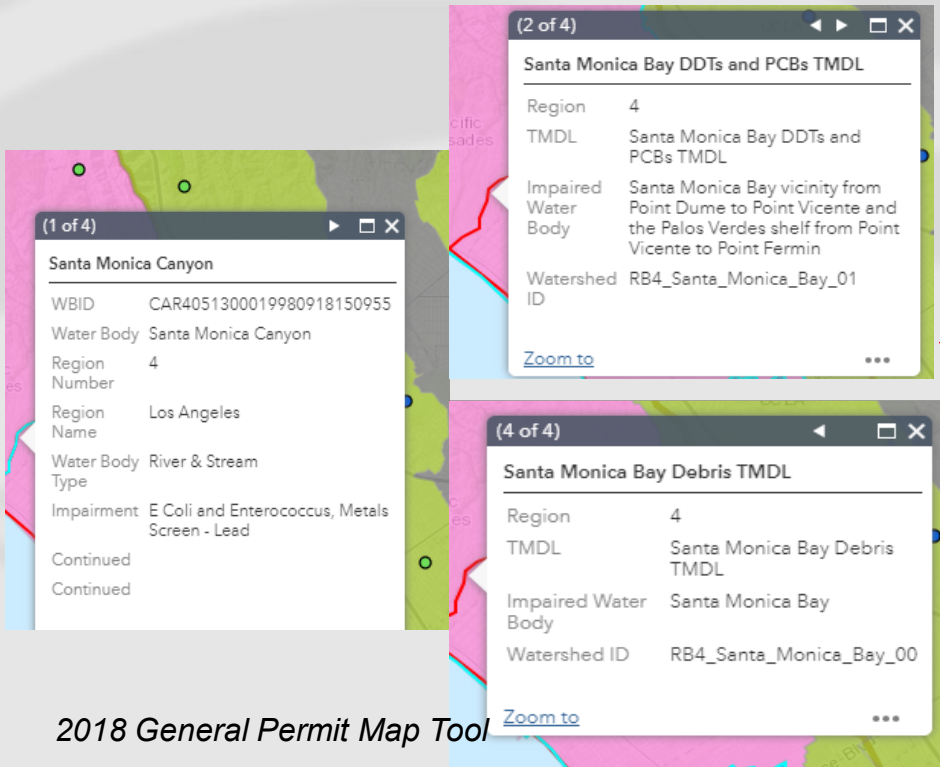


TABLE E-2: Compliance Table for TMDL-related General Permit Requirements

TMDL	Impaired Waterbody/ Watershed	Pollutants	Additional TMDL-related Numeric Action Level or Numeric Effluent Limitation (TNAL/NEL)	Required Actions	Compliance Due Date
Santa Monica Bay DDTs and PCBs TMDL	Santa Monica Bay	DDT	None	No additional requirements for sediment-based targets Comply with General Permit	July 1, 2020 (Effective Date of these TMDL Requirements)
		PCB	None		
Santa Monica Bay Debris TMDL	Santa Monica Bay	Plastic Pellets	None	Comply with General Permit.	July 1, 2020 (Effective Date of these TMDL Requirements)

The background features a light gray wavy pattern that resembles water or a stylized landscape. The word "CALIFORNIA" is faintly visible in the lower-left corner.

COMPLIANCE OPTIONS TO INCENTIVIZE STORM WATER CAPTURE AND USE

COMPLIANCE OPTIONS TO INCENTIVIZE STORM WATER CAPTURE AND USE

PRESENTATION TOPICS

Compliance Options to Incentivize Storm Water Capture and Use Overview

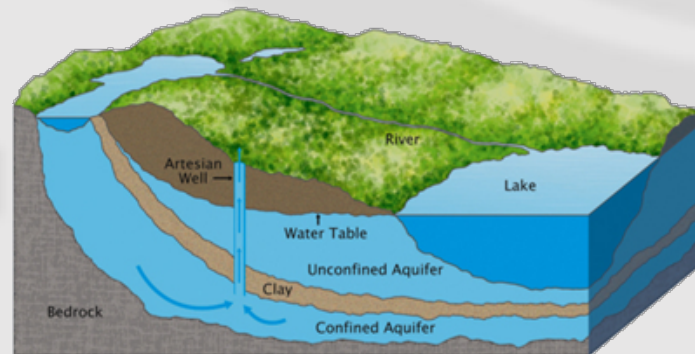
On-Site Compliance Option Overview and Schedule

Off-Site Compliance Option Overview and Schedule

COMPLIANCE OPTIONS TO INCENTIVIZE STORM WATER CAPTURE AND USE

OVERVIEW

- The amended Permit goes into effect July 1, 2020.
- The new Attachment I includes two additional compliance pathways for facilities with general permit coverage to discharge industrial storm water.
- These new pathways provide incentives for storm water supply enhancement projects and reduce discharges to surface waters.



COMPLIANCE OPTIONS TO INCENTIVIZE STORM WATER CAPTURE AND USE

OVERVIEW



[This Photo](#) by Unknown Author is licensed under [CC BY](#)

On-Site or Off-Site best management practices (BMPs) must be designed to:

- Capture and use the daily 85th percentile 24-hour storm event volume of industrial storm water and authorized non-storm water.
- Provide a volume-based equivalent to concentration-based receiving water limitations.
- Comply with applicable groundwater protection requirements (*Attachment I, Section IV of the Permit*).

COMPLIANCE OPTIONS TO INCENTIVIZE STORM WATER CAPTURE AND USE

OVERVIEW

- Dischargers with Level 2 Exceedance Response Action status may incorporate On-Site or Off-Site planning into their Level 2 reporting.
- Dischargers with implemented and operational BMPs meeting the applicable Attachment I criteria are deemed in compliance with the Permit's:
 - Discharge prohibitions
 - Numeric action levels and Exceedance Response Action process
 - Effluent limitations
 - Receiving water limitations (e.g. Total Maximum Daily Loads)

COMPLIANCE OPTIONS TO INCENTIVIZE STORM WATER CAPTURE AND USE GROUNDWATER PROTECTION

Infiltration On-Site or Off-Site BMPs must comply with:

- Specific discharge prohibitions
- Groundwater quality objectives
- Specific provisions to prevent groundwater degradation (e.g. Table B constituents of concern)
- Local ordinances
- Minimum BMP implementation
- BMP design requirements to meet these protection standards

COMPLIANCE OPTIONS TO INCENTIVIZE STORM WATER CAPTURE AND USE

GROUNDWATER PROTECTION: CONSTITUENTS OF CONCERN

TABLE B: Constituents of Concern

Pollutant/Constituent ²³
1,1-Dichloroethane (1,1-DCA)
1,1-Dichloroethylene (1,1-DCE)
1,2,3-Trichloropropane (1,2,3 TCP)
1,2-Dichloroethane (1,2-DCA)
1,4 Dioxane (as Dioxane)
Arsenic
Benzene
Cadmium
Carbon Tetrachloride *
Chromium, Total
cis-1,2-Dichloroethylene *
Cyanide
DBCP
Di(2-ethylhexyl) phthalate (DEHP) *
Fluoride
Lead
Manganese

Methylene Chloride
Nickel
Nitrite Plus Nitrate (as N)
N-Nitrosodimethylamine (NDMA)
Perchlorate
Polychlorinated Biphenyls (PCBs)
Polycyclic Aromatic Hydrocarbons (PAHs)
Tertiary Butyl Alcohol (TBA) *
Tetrachloroethylene (PCE) *
Total Trihalomethanes *
Trichloroethylene (TCE) *
Triclosan *
Vanadium
Vinyl chloride

²³ * Constituents currently without a 40 C.F.R. 136 approved test method. The Discharger may request approval from the appropriate Regional Water Board or the State Water Board to review and approve a proposed test method for sampling and analysis.

ON-SITE COMPLIANCE OPTION OVERVIEW AND SCHEDULE

- Installation of best management practices (BMPs) designed to capture and use the daily 85th percentile 24-hour storm event volume of industrial storm water and authorized non-storm water.
- Requires a 24-hour BMP drawdown.
- Requires a California licensed professional civil engineer to:
 - Design and develop BMPs
 - Develop an operation and maintenance plan
 - Certify BMP is protective of groundwater beneficial uses and objectives



Colorado Stormwater Center
CSU

ON-SITE COMPLIANCE OPTION OVERVIEW AND SCHEDULE

- Shut-off mechanism or equivalent practices
- Specific BMP design and monitoring reporting in the Stormwater Multiple Application and Report Tracking System (SMARTS).

The screenshot shows the homepage of the Stormwater Multiple Application and Report Tracking System (SMARTS). At the top, there is a navigation bar with the California Water Boards logo and links for Board, Programs, Drinking Water, Water Quality, Water Rights, Notices, Water Boards, and Search. Below the navigation bar is a large banner for SMARTS with the text "Stormwater Multiple Application and Report Tracking System" and "SMARTS". To the right of the banner is a "SMARTS LOGIN" section with fields for "User ID:" and "Password:", a "Login" button, a "Create Account" button, and a link for "Unlock, Reset Password or Forgot User ID". Below the banner is a "Browser Requirements" section stating: "SMARTS works best with Microsoft Edge. The use of other browsers may cause unexpected errors." At the bottom, there are four icons with labels: "Public User Menu" (a bar chart with an upward arrow), "Permit FAQs" (a speech bubble with a question mark), "SMARTS Resources" (a blue square with the text "SMARTS Resources"), and "Email SMARTS Help" (an envelope icon).

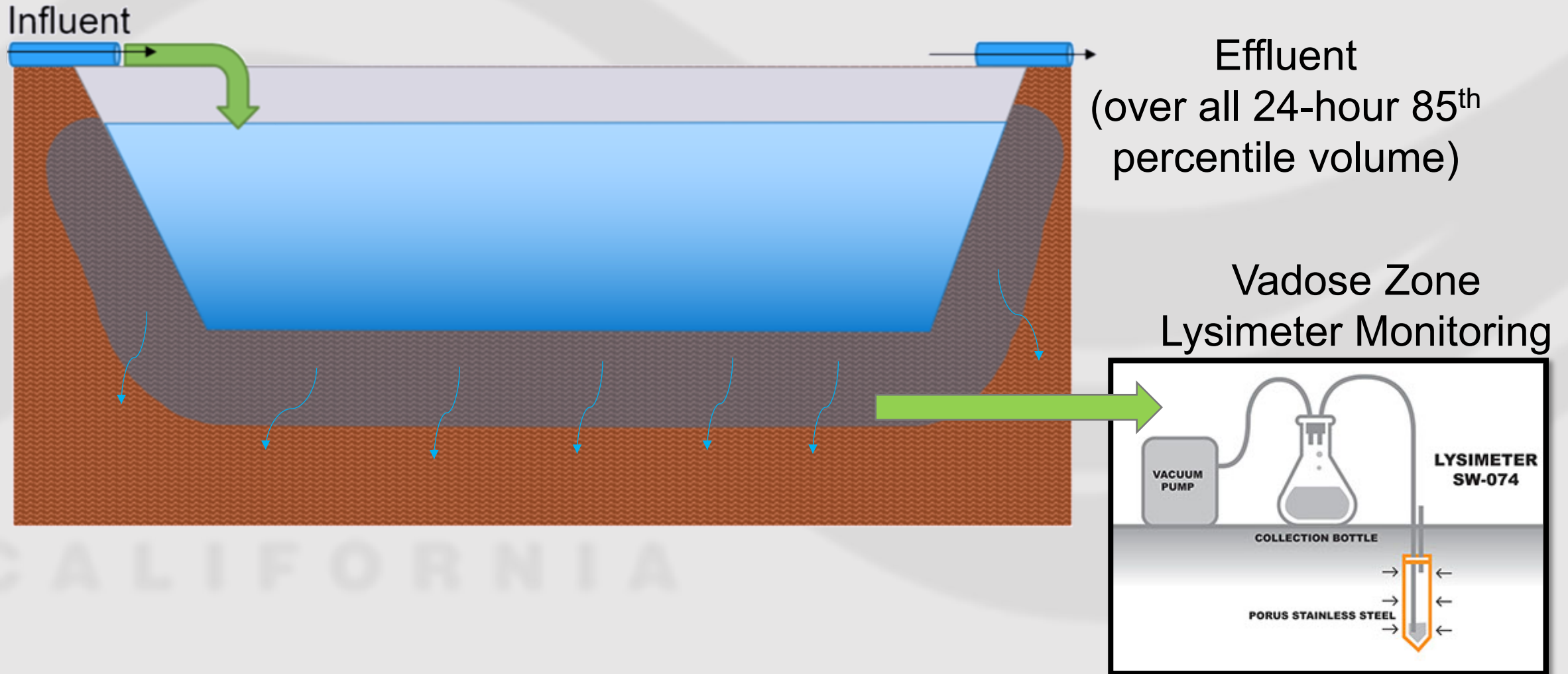
ON-SITE COMPLIANCE OPTION OVERVIEW AND SCHEDULE

The Dischargers with implemented and operational On-Site compliance option BMP(s) are exempt from the following Permit requirements for:

- Discharges to ocean waters
- Training qualifications and obtaining a Qualified Industrial Storm Water Practitioner
- Implementing advanced BMPs
- Treatment control BMP design storm standards
- Exceedance response actions

ON-SITE COMPLIANCE OVERVIEW AND SCHEDULE

GROUNDWATER PROTECTION: INFILTRATION BMPS



ON-SITE COMPLIANCE OVERVIEW AND SCHEDULE

GROUNDWATER PROTECTION: INFILTRATION BMPS

Compliance Demonstration	Maximum Contaminant Levels (MCLs)*	Constituents of Concern
Non-drywell BMPs (e.g. unlined basin)	Apply to industrial pollutants in the: BMP influent <u>or</u> BMP infiltrated water	Prevent identified constituents in Table B from impacting groundwater beneficial uses

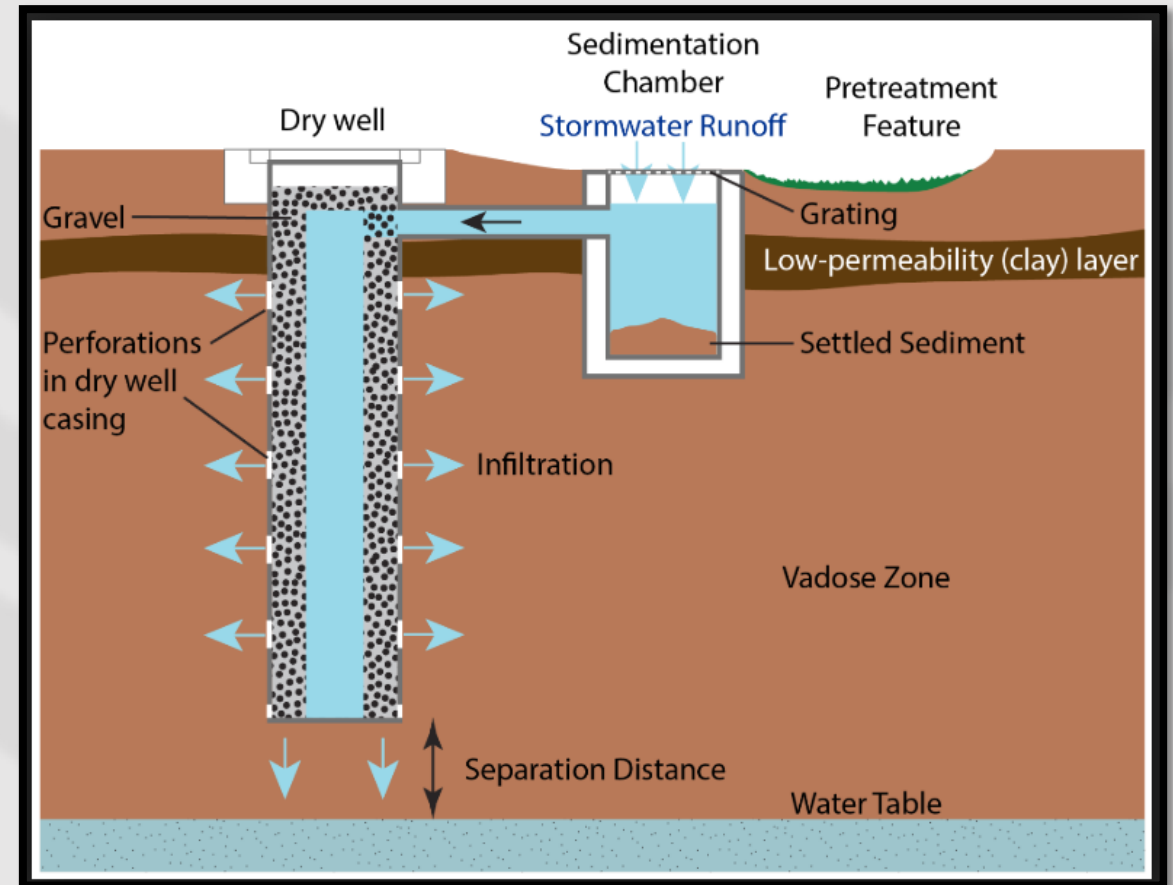
*Applies to all primary MCLs and secondary MCLs for total dissolved solids, chloride, specific conductance, and sulfates.

ON-SITE COMPLIANCE OVERVIEW AND SCHEDULE

GROUNDWATER PROTECTION: INFILTRATION BMPS

“Drywell means a bored, drilled, or driven shaft or a dug hole or subsurface fluid distribution system, whose depth is greater than its largest surface dimension, which is completed above the water table so that its bottom and sides are typically dry except when receiving fluids well. The term does not include improved sinkholes.”

- U.S. EPA.



American geosciences.org

ON-SITE COMPLIANCE OVERVIEW AND SCHEDULE

GROUNDWATER PROTECTION: INFILTRATION BMPS

Compliance Demonstration	Maximum Contaminant Levels (MCLs)*	Constituents of Concern
Drywell BMPs	Apply to Industrial pollutants in the Drywell Influent	Prevent identified constituents in Table B from impacting groundwater beneficial uses

*Applies to all primary MCLs and secondary MCLs for total dissolved solids, chloride, specific conductance, and sulfates.

ON-SITE COMPLIANCE OVERVIEW AND SCHEDULE

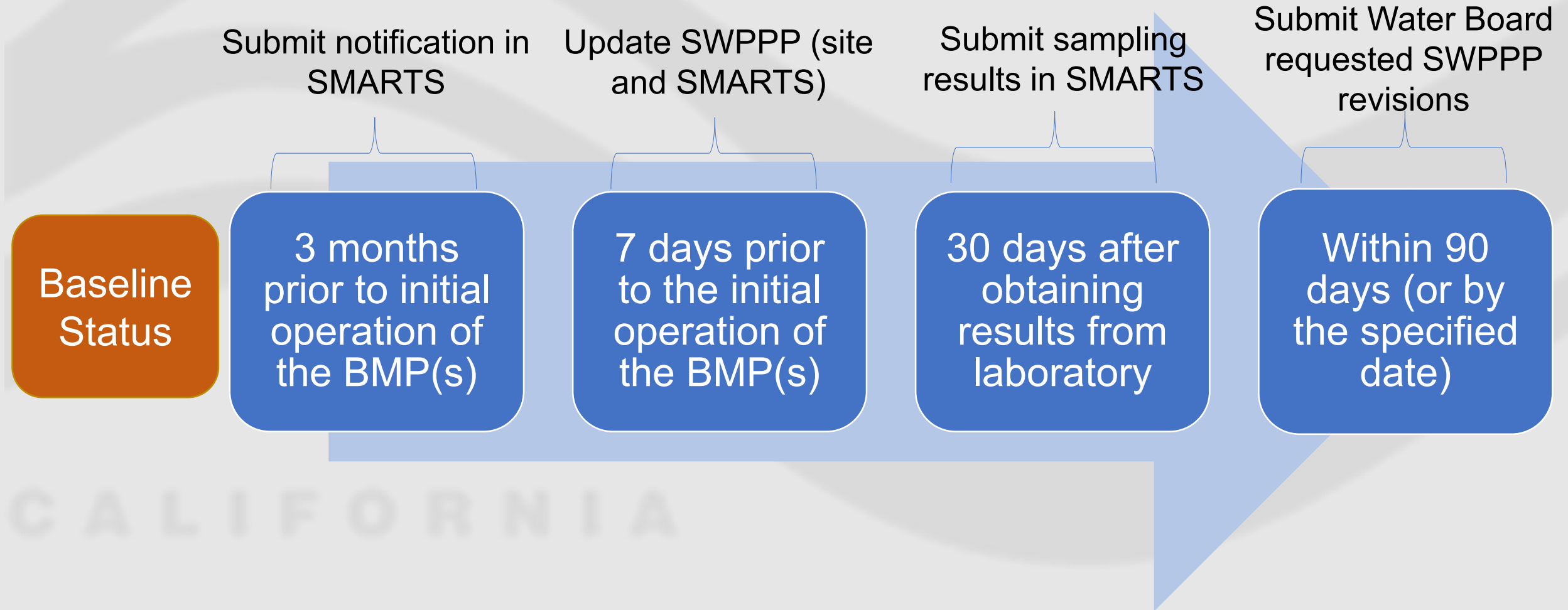
GROUNDWATER PROTECTION: INFILTRATION BMPS

Table A: Applicable Constituents with Primary or Secondary MCLs

Parameter Category	MCL Criteria for Industrial Pollutant Pretreatment ¹¹
Primary MCLs: <ul style="list-style-type: none"> • Primary MCLs: Inorganics • Primary MCLs: Volatile Organic Carbon (VOCs) • Primary MCLs: Synthetic Organic Contaminants (SOCs) • Primary MCLs: Disinfection Byproducts 	Link to the Drinking Water Maximum Contaminant Level Webpage (http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Lawbook.shtml)
Secondary MCLs: Total Dissolved Solids	Pollutants associated with industrial activities in the influent of the infiltration BMP(s) shall not exceed 500 mg/L.
Secondary MCLs: Chloride	Pollutants associated with industrial activities in the influent of the infiltration BMP(s) shall not exceed 250 mg/L.
Secondary MCLs: Specific Conductance	Pollutants associated with industrial activities in the influent of the infiltration BMP(s) shall not exceed 900 uS/cm.
Secondary MCLs for Sulfate	Pollutants associated with industrial activities in the influent of the infiltration BMP(s) shall not exceed 250 mg/L.

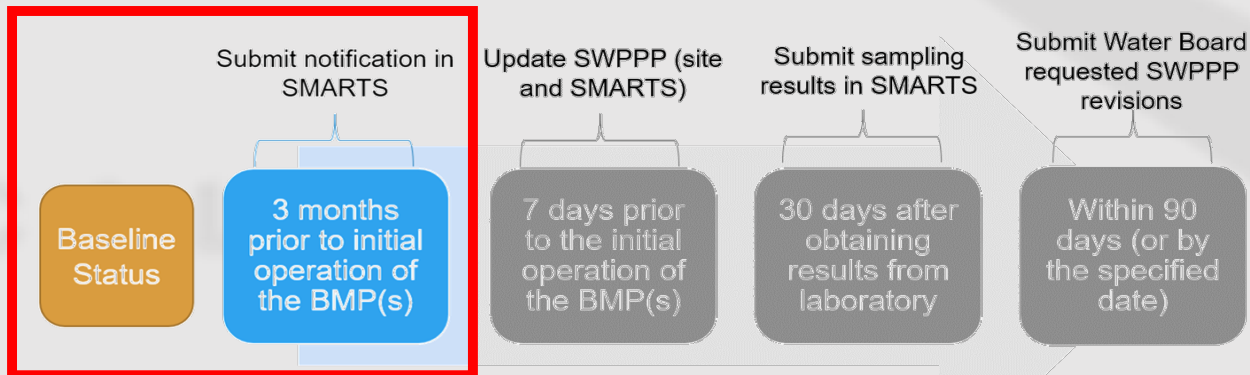
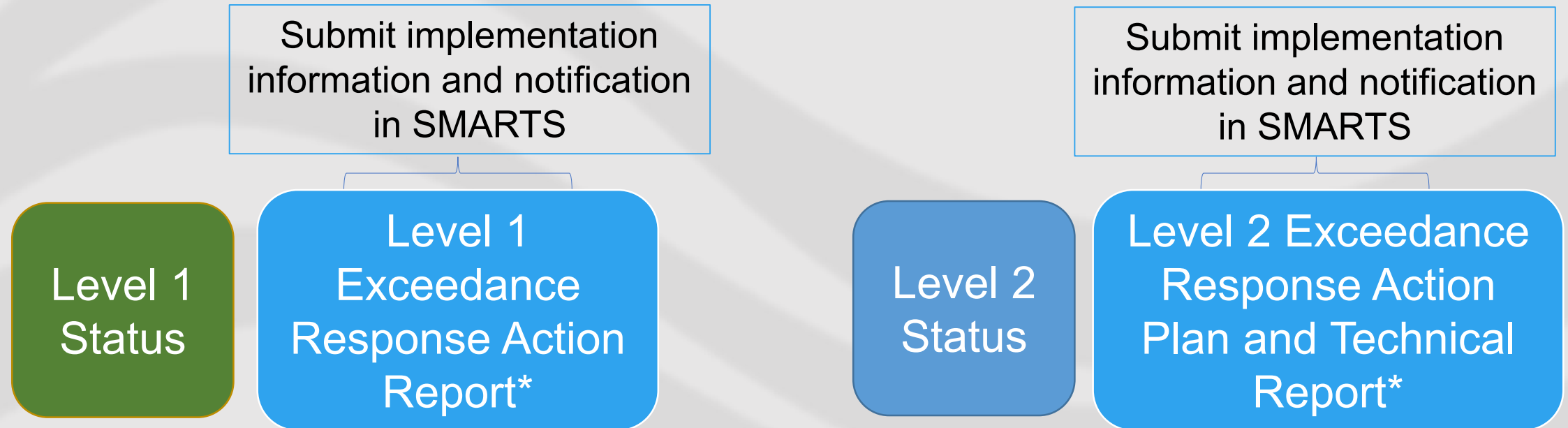
*A Regional Water Board's basin plan standard may apply instead of a constituent's Maximum Contaminant Level.

ON-SITE COMPLIANCE OVERVIEW AND SCHEDULE STARTING JULY 1, 2020



ON-SITE COMPLIANCE OVERVIEW AND SCHEDULE

STARTING JULY 1, 2020



**Or prior to obtaining applicable local approvals for the BMP(s), whichever comes first*

OFF-SITE COMPLIANCE OPTION OVERVIEW AND SCHEDULE

- Dischargers may participate in agreements with municipalities or other dischargers to install BMPs meeting the Compliance Option design size requirements.
- Regional Water Board can approve BMP draw down times longer than 24-hours.
- Regional Water Board agreement approval is required. Approval includes a 30-day public notice.



[This Photo](#) by Unknown Author is licensed under [CC BY-SA](#)

OFF-SITE COMPLIANCE OPTION OVERVIEW AND SCHEDULE

- Updated SWPPP with specific agreement schedule and details on-site and in SMARTS 7 days prior to initial agreement implementation (Attachment I, Section III.H.2-3).
- Compliance with agreement monitoring and standard Permit monitoring and record requirements (Order Section XXI.J)
- Agreement implementation information attached to each annual report (Section III.H.4)

LOCAL NEWS

One of the first projects in LA County to capture storm water is being built in Long Beach



The Los Cerritos Channel Sub Basin 4 Stormwater Capture Project, one of the largest in Los Angeles County, nears completion at its Long Beach Airport location November 16, 2017. The project will collect local rain runoff and direct it to the underground aquifer. (Photo by Leo Jarzomb, SGV Tribune/ SCNG)

By [STEVE SCAUZILLO](#) | sscauzillo@scng.com | San Gabriel Valley Tribune
PUBLISHED: November 16, 2017 at 4:14 pm | UPDATED: November 17, 2017 at 4:49 pm

2 COMMENTS

OFF-SITE COMPLIANCE OPTION OVERVIEW AND SCHEDULE

The Dischargers participating in an Off-Site compliance option are exempt from the following Permit requirements for:

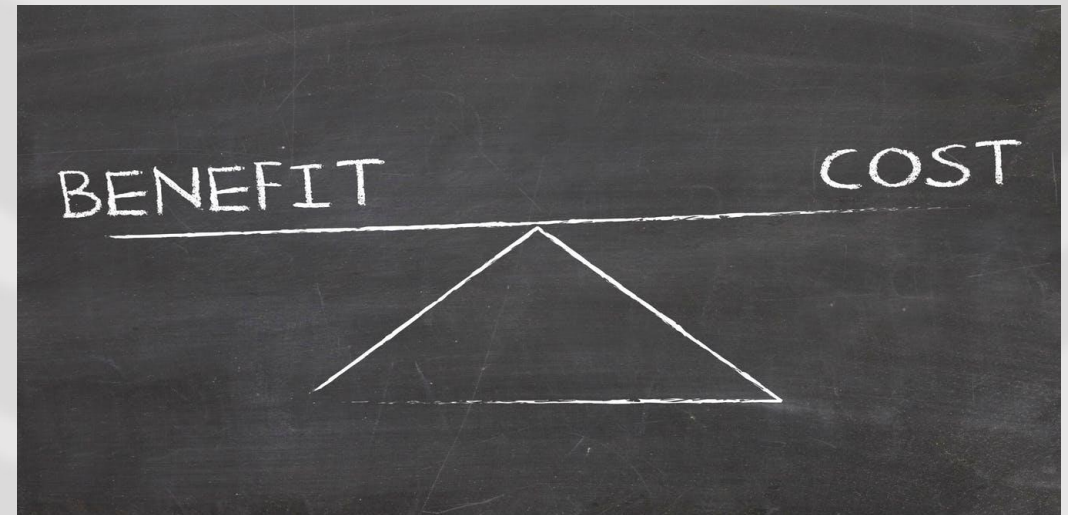
- Discharges to ocean waters
- Training qualifications and the requirement to obtain a Qualified Industrial Storm Water Practitioner
- Implementation of advanced BMPs
- Treatment control BMP design storm standards

CALIFORNIA

OFF-SITE COMPLIANCE OPTION OVERVIEW AND SCHEDULE

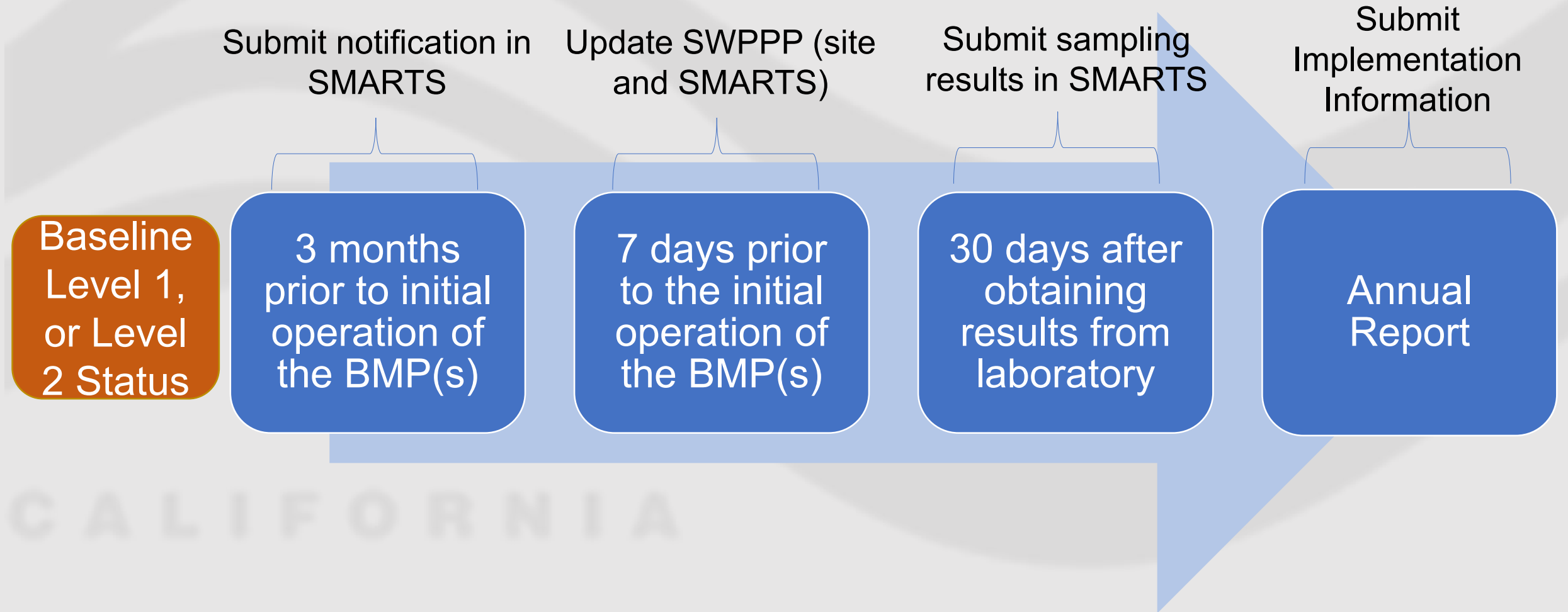
The Dischargers participating in an Off-Site compliance option are exempt from the following Permit requirements for:

- Monitoring implementation plans
- Sampling event visual observations
- Sampling and analysis
- Exceedance response actions



[This Photo](#) by Unknown Author is licensed under [CC BY-ND](#)

OFF-SITE COMPLIANCE OPTION OVERVIEW AND SCHEDULE STARTING JULY 1, 2020



INDUSTRIAL STORMWATER PROGRAM RESOURCES: STORMWATER PAGE INFORMATION

- [Industrial Storm Water Page](http://www.waterboards.ca.gov/industrialstormwater)
 - (www.waterboards.ca.gov/industrialstormwater)
- [Industrial Storm Water General Permit \(Amended in 2018\)](https://www.waterboards.ca.gov/water_issues/programs/stormwater/docs/industrial/unoff_igp_amend.pdf)
 - (https://www.waterboards.ca.gov/water_issues/programs/stormwater/docs/industrial/unoff_igp_amend.pdf)

INDUSTRIAL STORMWATER PROGRAM RESOURCES: SUFFICIENTLY SENSITIVE ANALYTICAL TEST METHODS

- [Current web-version \(eCFR\) of 40 CFR Part 136](#)
 - (https://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40cfr136_main_02.tpl)
- [ELAP Certified Labs](#)
 - (https://www.waterboards.ca.gov/drinking_water/certlic/labs/)
- [Guidance Document from Federal Register on NPDES: Use of Sufficiently Sensitive Test Methods for Permit Applications and Reporting](#)
 - (<https://www.federalregister.gov/documents/2014/08/19/2014-19265/national-pollutant-discharge-elimination-system-npdes-use-of-sufficiently-sensitive-test-methods-for>)

INDUSTRIAL STORMWATER PROGRAM RESOURCES: TMDLS

- [Mapping Tool Featuring the TMDL Waterbody\(ies\) and Watersheds](https://www.waterboards.ca.gov/water_issues/programs/stormwater/industrial.html)
 - (https://www.waterboards.ca.gov/water_issues/programs/stormwater/industrial.html)
- [Guidance Flow Chart for Dischargers with TMDL Requirements](https://www.waterboards.ca.gov/water_issues/programs/stormwater/docs/industrial/approved_flowchart.pdf)
 - (https://www.waterboards.ca.gov/water_issues/programs/stormwater/docs/industrial/approved_flowchart.pdf)
- [Fact Sheet Summarizing New Requirements](https://www.waterboards.ca.gov/water_issues/programs/stormwater/igp_20140057dwq.shtml)
 - (https://www.waterboards.ca.gov/water_issues/programs/stormwater/igp_20140057dwq.shtml)

THANK YOU

[Subscribe to Our "Storm Water Industrial Permitting Issues" emails under The "Water Quality" Web Page Section](https://www.waterboards.ca.gov/resources/email_subscriptions/swrcb_subscribe.html)

(https://www.waterboards.ca.gov/resources/email_subscriptions/swrcb_subscribe.html)

Contact Information:

Storm Water Help Desk
Division of Water Quality

State Water Resources Control Board

[email:](mailto:stormwater@waterboards.ca.gov) (stormwater@waterboards.ca.gov)

phone: 1-866-563-3107