WATER QUALITY CERTIFICATION AND/OR WASTE DISCHARGE REQUIREMENTS (Dredge/Fill Projects)

What is it? A Clean Water Act Section 401 Water Quality Certification (401 Certification) is an order (findings with a conditional permit) issued by the State Water Resources Control Board and Regional Water Quality Control Boards. Applicants for federal permits that involve dredge or fill activities within waters of the United States (including wetlands) are required to obtain certification from the state. Most of these federal permits are referred to as federal Clean Water Act Section 404 permits issued by the Army Corps of Engineers (Army Corps). Other types of federal license or permits that authorize activities that result or may result in discharges to waters of the United States and are required to obtain state certification include Federal Energy Regulatory Commission (FERC) hydropower licenses and Rivers and Harbors Act Section 9 and 10 permits. A 401 Certification is an order certifying that the proposed project will comply with CWA Sections 301 (Effluent Limitation), 302 (Water Quality Related Effluent Limitations), 303 (Water Quality Standards and Implementation Plans), 306 (National Standards of Performance) and 307 (Toxic Pretreatment Effluent Standards), applicable state laws, and will be protective of beneficial uses identified within the regions basin plan. In accordance with section 404(b)(1) of the Clean Water Act (33 U.S.C. 1344) and the California Environmental Quality Act (CEQA) the discharge of dredge or fill materials and the design and implementation of any project that requires a 401 Certification shall avoid, minimize, and mitigate impacts to aquatic resources and the environment. Where impacts are determined to be unavoidable mitigation projects are required to compensate for the loss of aquatic resources. Under the California Water Code Section 13260, Waste Discharge Requirements (WDRs) are necessary for any persons discharging or proposing to discharge waste, including Dredge and/or Fill materials that could affect the quality of the waters of the State. Projects that receive a 401 Certification are also granted general WDRs.

Who Needs It? Anyone proposing to conduct a project that requires a federal permit or may result in a discharge to waters of the United States and/or waters of the State, including wetlands (all types), rivers, streams (including perennial, intermittent, and ephemeral streams) lakes, estuaries, harbors, bays, and the Pacific Ocean.



How do you get it? Submit a complete application requesting Water Quality Certification /Waste Discharge Requirements

application packet to:

North Coast Regional Water

Quality Control Board

5550 Skylane Blvd., Suite A

Santa Rosa. CA 95403

What happens to your application? Your application is

reviewed, staff determine if it is complete, and you will be contacted within 30 days of submittal if the application is found to be incomplete. Staff will then continue the review process and be available to answer any questions you may have.

(707) 576-2220

Application for 401 Water Quality Certification and/or Waste Discharge Requirements (Dredge/Fill)

The following application must be submitted to the Regional Water Quality Control Board for dredge/fill projects that require Water Quality Certification and/or Waste Discharge Requirements. Submit this application and the appropriate documentation*, along with a check payable to the State Water Resources Control Board, for the current Base Fee

plus additional fees if applicable, as required according to the CCR

23 Section 2200 (a)(2) Fee Schedule** to:

North Coast Regional Water Quality Control Board 5550 Skylane Blvd., Suite A Santa Rosa, CA 95403

(Make checks payable to: State Water Resources Control Board)

*Clarification of information may be requested by Regional Water Quality staff during application review.

**Additional fees may be imposed upon application review.

Fee calculator and additional information are available at

 $http://www.waterboards.ca.gov/northcoast/water_issues/programs/water_quality_certification.shtml$

Fees are subject to change. Please check current fee schedule.

For internal Office Use Of	пу	
	A.	
WDID#	Check #	\$

SECTION ONE – Applicant Information & Agent Authorization

Important Note! The applicant listed shall be the party responsible for compliance with the Clean Water Act, California Water Code, Basin Plan, and 401 Certification Conditions and is typically the property/facility owner. The authorized agent is the individual or team that is authorized to provide information to the Regional Water Board on behalf of the application (responsible party).

APPLICANT/PROPERTY OWNER(S) NAME	AUTHORIZED AGENT NAME AND TITLE (an agent is not required)
APPLICANT/PROPERTY OWNER(S) MAILING ADDRESS	AUTHORIZED AGENT MAILING ADDRESS
APPLICANT/PROPERTY OWNER(S) PHONE & FAX NUMBERS	AUTHORIZED AGENT PHONE & FAX NUMBERS
APPLICANT/PROPERTY OWNER(S) EMAIL	AUTHORIZED AGENT EMAIL
STATEMENT OF AUTHORIZATION (Required when applicant is design	nating an authorized agent)
I hereby authorize	to act on my behalf as my agent in the processing of this ort of this permit application.
PRINT NAME OF APPLICANT (NOT THE AUTHORIZED	D AGENT)
SIGNATURE OF APPLICANT (NOT THE AUTHORIZE	D AGENT) DATE

SECTION TWO – Project Information

Please refer to the attached Project Plan Checklist (Attachment A) for guidance and attach additional supporting documentation as necessary. When attaching supporting documentation the pertinent information shall be clearly identified by corresponding tabs, page numbers, etc., such that pertinent information is easily located. Please do not indicate "see attached" without identifying the attached document and the specific location within the document. Supplying detailed information will aid the review process; however, a complete application for water quality certification need not contain unnecessarily duplicative information. Applications containing multiple descriptions with conflicting data or other conflicting information will delay processing and may result in denial without prejudice. Including an electronic copy of the required information may reduce the review process time. Required contents of a complete application can found in the California Code of Regulations (CCR) Title 23, Section 3856 CCR Link -

https://govt.westlaw.com/calregs/Document/I966B2410D45B11DEA95CA4428EC25FA0?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=(sc.Default)

PROJECT NAME OR TITLE		
PROJECT STREET ADDRESS (if applicable)	PROJECT LOCATION (Attach a site lo	ocation map) CITY/TOWN (nearest)
CITY/STATE/ZIP (or nearest city/town)	LATITUDE (Decimal Degrees)	LONGITUDE (Decimal Degrees)
ASSESSORS PARCEL NUMBER(S)	SECTION, TOWNSHIP, RANGE, USG	S QUADRANGLE MAP (Optional Information)
DIRECTIONS TO THE SITE		
PROJECT PURPOSE AND FINAL GOAL OF El information as necessary.	NTIRE ACTIVITY (See Project Planning (Checklist -Attachment A for guidance. Attach additional

	ease do not indicate "see attached"	e. Provide a full, technically accurate description of the entire without identifying the attached document and the specific
PROPOSED START AND END DATES	ESTIMATED DURATION	Will any project activity take place during the wet season months of October 15 through May 15? YES NO If YES, please discuss the proposed winterization strategies on Page 6, Avoidance of Indirect Impacts.

SECTION THREE - Additional Documentation Required (CCR Title 23, Section 3856)

Provide copies of any final and signed federal, state, and local licenses, permits, and agreements (or copies of the draft documents, if not finalized) that will be required for any construction, operation, maintenance, or other actions associated with the activity. If no final or draft document is available, a list of all remaining agency regulatory approvals being sought shall be included.

FEDERAL PERMIT(S) OR COMPLETED FEDERAL A	PPLICATIONS			
U.S. Army Corps of Engineers - Staff Contact Information	on: Nama	Ph. #	E-mail	
☐ Individual Permit	on. Name	Ι 11. #	L-IIIaii	
☐ Nationwide Permit Number ☐ Non-Reporting	or □ Reporting			
☐ Regional General Permit / Number				
U.S. Fish and Wildlife Service - Staff Contact Information	nn. Name	Ph. #	E-mail	
☐ Biological Assessment	on. Italiio	1 11. 11	<u>L man</u>	
☐ Biological Opinion				
LLC National Marina Figharias Coming. Staff Contact I	nformation. Nome	Db. #		E mail
U.S. National Marine Fisheries Service - Staff Contact I ☐ Biological Assessment	niormation: Name	Ph. #		<u>E-mail</u>
☐ Biological Opinion				
5				
STATE PERMIT(S) OR COMPLETED STATE APPLIC	ATION (A COPY OF EITH	HER OF THESE MU	JST BE SUBM	IITTED WITH THIS
APPLICATION (applied for or approved, i.e. Lake or Str	reambed Alteration Agree	HER OF THESE MU ment (1600-1608) o	r Coastal Deve	elopment Permit)
STATE PERMIT(S) OR COMPLETED STATE APPLIC APPLICATION (applied for or approved, i.e. Lake or Str STATE PERMIT TITLE	EATION (A COPY OF EITH reambed Alteration Agreet FILE DATE	HER OF THESE MU ment (1600-1608) o	JST BE SUBM r Coastal Deve FILE NUMBE	elopment Permit)
APPLICATION (applied for or approved, i.e. Lake or Str	reambed Alteration Agree	HER OF THESE MU nent (1600-1608) o	r Coastal Deve	elopment Permit)
APPLICATION (applied for or approved, i.e. Lake or Str	reambed Alteration Agree	HER OF THESE MU ment (1600-1608) o	r Coastal Deve	elopment Permit)
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APPLICATION (applied for or approved, i.e. Lake or Str	reambed Alteration Agree	HER OF THESE MU ment (1600-1608) o	r Coastal Deve	elopment Permit)
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APPLICATION (applied for or approved, i.e. Lake or Str	reambed Alteration Agree	HER OF THESE MU ment (1600-1608) o	r Coastal Deve	elopment Permit)
APPLICATION (applied for or approved, i.e. Lake or Str	reambed Alteration Agree	HER OF THESE MU ment (1600-1608) o	r Coastal Deve	elopment Permit)
APPLICATION (applied for or approved, i.e. Lake or Str	reambed Alteration Agree	HER OF THESE MU ment (1600-1608) o	r Coastal Deve	elopment Permit)
APPLICATION (applied for or approved, i.e. Lake or Str	reambed Alteration Agree	HER OF THESE MU ment (1600-1608) o	r Coastal Deve	elopment Permit)
APPLICATION (applied for or approved, i.e. Lake or Str	reambed Alteration Agree	HER OF THESE MU ment (1600-1608) o	r Coastal Deve	elopment Permit)
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APPLICATION (applied for or approved, i.e. Lake or Stream Permit Title	reambed Alteration Agreer	HER OF THESE MU ment (1600-1608) o	r Coastal Deve FILE NUMBE	elopment Permit) R
APPLICATION (applied for or approved, i.e. Lake or Stream Permit Title	reambed Alteration Agreer	HER OF THESE MU ment (1600-1608) o	r Coastal Deve FILE NUMBE	elopment Permit) R
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APPLICATION (applied for or approved, i.e. Lake or Stream Permit Title	reambed Alteration Agreer	HER OF THESE MU ment (1600-1608) o	r Coastal Deve FILE NUMBE	elopment Permit) R
APPLICATION (applied for or approved, i.e. Lake or Stream Permit Title	reambed Alteration Agreer	HER OF THESE MU ment (1600-1608) o	r Coastal Deve FILE NUMBE	elopment Permit) R

LOCAL PERMIT(S) (applied for or approved,		
PERMIT TITLE	FILE DATE	FILE NUMBER
		e project must comply with California Environmental Quality Act (CEQA)
		emption pursuant to CEQA is applicable. Although final CEQA Water Board shall be provided with a completed, approved, and/or certif
CEQA documentation prior to issuing a Wate	er Quality Certification Orde	er. In accordance with the Permit Streamlining Act Section 65952 Final
action must be taken on a 401 Certification po the date the application was deemed "comple		from when the CEQA lead agency approves the project, or (2) 180 days CB; whichever is longer)
· ·	•	• ,
TYPE OF CEQA DOCUMENT (EIR, Negative	e Declaration, Notice of ⊨x	kemption) LEAD AGENCY
STATE CLEARING HOUSE NUMBER	STATUS (nend	ing, complete, etc.) DATE COMPLETED (or anticipated date)
STATE SEEAKING HOUSE NOMBER	OTATOO (POIN	ing, complete, etc.)
CUMULATIVE IMPACTS (List and describe (other projects implemente	d within the past 5 years or planned within the next five years that are
related to the proposed project, or that may ir		
PROJECT NAME	DESCRIF	
		IMPLEMENTED/PLANNED
SECTION Form Affacted Water	and Mitigation	
SECTION Four – Affected Wate		<u>1</u> nce and attach additional supporting documentation as
necessary. Supplying detailed information		
nooddary. Dapprynig adianod informatic	m wiii aid in onpodiai	ig the review process.
	WETLAND DELINE	ATION INFORMATION
NAME OF PERSON DELINEATING EXTENT		DATE(S) OF WETLAND DELINEATION
10 mile 6. 1 2.13 5.13 2.23	01 112.222	B/(12(0) 01 1121212 222112 111311
TITLE		DATE OF WETLAND VERIFICATION BY U.S. ARMY CORPS
AFFILIATION		If a wetland delineation has been verified by the U.S. Army Corps, please sub
		the verification letter as well as a verified wetland delineation map. If the Corp did not assume jurisdiction over the wetlands present, please submit the deni

PROJECT HYDROLOGIC INFORMATION

Receiving Water(s):

Hydrologic Unit(s):

Water Body Type(s):

Hydrologic Unit Information can be found at: http://www.water-programs.com/wqpt.htm; or http://www.waterboards.ca.gov/northcoast/water_issues/programs/basin_plan/083105-bp/03_bu.pdf

	DESIGNATED BENEFICIAL USES(s) Please check all that apply.										
AGR	AGR CUL GWR NAV REC-2 WET										
AQUA		EST		IND		POW		SAL		WILD	
ASBS		FISH		MAR		PRO		SHELL		WQE	
COLD		FLD		MIGR		RARE		SPWN			
COMM											

Beneficial Uses are listed within the North Coast Regional Water Quality Control Board Basin Plan available at: http://www.waterboards.ca.gov/northcoast/water_issues/programs/basin_plan/

POTENTIAL FOR IMPACTS TO THREATENED AND ENDANGERED SPECIES							
(Attach all Biological Assessments, Surveys, Formal Consultation Determination letters, and Mitigation Proposals as necessary.)							
SPECIES AND/OR HABITAT	BIOLOGICAL ASSESSMENT (Y/N)	SURVEY CONDUCTED (Y/N)	DATES OF SURVEY CONDUCTED				

DREDGE AND FILL INFORMATION (The following must be completed for each action where dredging activities, fill material or other activities (e.g. excavation) will result in disturbance and/or discharge to a wetland or other waterbody. Add rows for multiple types of disturbance within the same waterbody type. Attach additional pages as necessary. Provide maps showing the location of project and of all impacts with the corresponding impacts in the format below. Provide all temporary and permanent impacts to waters of the U.S. and waters of the State.)

TYPE OF WATERBODY (i.e. stream, wetland, ephemeral drainage)	FILL and/or EXCAVATION VOLUME AND TYPE (CUBIC YARDS)	FILL and/or EXCAVATION SURFACE AREA (SQUARE FEET OR ACRE)	FILL and/or EXCAVATION LENGTH (LINEAR FEET)	DREDGE VOLUME (CUBIC YARDS)	TYPE OF IMPACT (Temporary or Permanent)
Waters of the U.S	\ -				,
☐ Wetland					
☐ Streambed (OHWM and below)					
☐ Lake/Reservoir					
□ Ocean/Estuary/Bay					
□ Other					
Sub-total Waters of the U.S.					
Waters of the State					
□ Riparian					
☐ Stream channel/bank (Above OHWM)					
□ Vernal Pool					
☐ Spring/Seep/Headwaters					
□ Other					
Sub-total Waters of the State					
Total Waters of U.S. and State					
SAMPLE (delete prior to submittal): Waters of the U.S.					
■ Wetland	25 cubic yards of g	ravel for access	0.005 (200 sq f)t	20 linear feet	Temporary
■ Streambed (below OHWM)	35 cubic yards o	f rock rip rap	0.001 acres (43.56 sq ft)	15 linear feet	Permanent
Waters of the State	200 autio varda for	Pridae abutment	0.020 pares (4.250 parts)	50 linear ft	Permanent
■ Riparian Area	200 cubic yards for	ышуе ариштеті	0.029 acres (1,250 sq ft)	oo iiriear it	remanent
■ Isolated Vernal Pool	10 cubic yards for bu	uilding foundation	0.1 acres (4,356 sq ft)	400 linear feet	Permanent
IMPACT TOTALS	260 cubic	yards	0.035 (1,494 sq ft)	485 linear ft	

WATER QUALITY IMPACT DESCRIPTION (Report the nature and extent of temporary and permanent impacts to waters of the U.S. and/or State, such as turbidity, settleable matter, other pollutants, and beneficial uses associated with the proposed project. Attach a map that clearly depicts the anticipated area of direct impact and indirect disturbances)
AVOIDANCE OF DIRECT IMPACTS (Attach additional information if necessary) Describe the efforts to avoid and minimize direct impacts to waters of the U.S. and State pursuant to Title 40 CFR Part 230 Section 404 (b)(1). See checklist for guidance. Attach additional pages as necessary.
ALTERNATIVES ANALYSIS
Has an Alternatives Analysis been prepared? 🔲 YES 🔲 NO 🔝 If YES, please submit the appropriate documentation
AVOIDANCE OF INDIRECT IMPACTS (Attach additional information if necessary) (1) Describe efforts to avoid and minimize potential indirect impacts to waters of the U.S. and State which might affect water quality.
(2) Describe the methods proposed for erosion control and re-vegetation proposals, including winterization strategies to stabilize all bare soils.
(3) Submit a map indicating the approximate locations and area of soil, land, and vegetation disturbance and proposed best management practices.
(4) Describe the methods proposed to reduce sources of pollutants such as petroleum hydrocarbons, oil and grease, fertilizers, pesticides, sediment, etc., from entering the water system

mitigation properties a mitigation properties a mitigation properties with the mitigation and values of the mitigation and values of the mitigation and the mitigatio	lan for all tempress all project i the proposed mation site. Attach nd Riparian Are	porary and peri mpacts in the D litigation. Descr Mitigation Banl a Mitigation Ch	manent impacts Predge and Fill Ta ibe success criter k Bills-of-Sale for ecklist and Attach	to wetlands. ble and descri ria, monitoring, purchase cred ment C - Wetla	Mitigation is req be the applicable long-term funding its if needed. F and Mitigation C	uired when perme mitigation. Prong, management or guidance on a hecklist. If appli	nanent and temp wide the location t, and site protect a complete mitiga	orary impacts n, size, type, ction ation plan see
Does the project im (If yes complete mitig			NO ☐ YES and/or Option 2,	and attach mit	tigation plan or b	ank credit bill of	sale).	
Does the project important (If yes complete mitig				, and attach m	itigation plan)			
MITIGATION SU	MMARY (Pro	vide brief summ	nary of mitigation	proposal, refer	ences attached	documents, sect	ions, page numl	bers, etc.)
Mitigation Site Location	on(s):							
Mitigation Site Lat/Lor	ng(s):							
Name of Watershed &	k Hydrologic Un	it:						
Mitigation Site City ar	d County:							
Mitigation Project Sur	nmary:							
	(Option 1 - P	roponent Pro	vided Mitig	gation Inforn	nation		
Waterbody Type	Acres / Li Estab	near Feet lished	Acres / Lin			inear Feet inced		inear Feet erved
Wetland								
Stream								
Riparian								
Vernal Pool								
Lake								
Other								
		Op	otion 2 - Mitig	ation Bank	Credits			
Waterbody Type	Acres / Li Estab		Acres / Lin Resto			inear Feet inced		inear Feet erved
Wetland								
Stream								
Riparian								
Vernal Pool								
Lake								
Other								
Mitigation Site Name:			1		1	1		ı
Name of Mitigation Site	Operator:							

SECTION FIVE – Low Impact Development

The State Water Resources Control Board Resolution (SWRCB) No. 2008-0030 "Directs Water Boards' staff to require sustainable water resources management such as Low Impact Development (LID) and climate change considerations, in all future policies, guidelines, and regulatory actions." For reference please refer to the SWRCB LID webpage at http://www.swrcb.ca.gov/water_issues/programs/low_impact_development/index.shtml For LID design goals, tools, and example BMPs see Attachment D – Storm Water and Low Impact Development

	B-SECTION (A) ES THE PROPOSED PROJECT:
1) l	ncrease the area of impervious surface? NO YES – Total (If yes complete sub-section B)
	Replace approximately 5,000 square feet of impervious surface? NO YES – Total (If yes provide a post-construction storm water treatment BMP feasibility analysis.)
3) [Discharge to an Area of Special Biological Significance? □ NO □ YES (If yes complete sub-section B)
4) [Discharge to a water body listed as impaired on the Clean Water Act 303 (d) list? NO YES (If complete to sub-section B)
5) E	Discharge within a watershed with a total daily maximum load (TMDL)? NO YES (If yes complete sub-section B)
POS Prov storr 1) 2) 3) 4) 5) 6) Tre	ST-CONSTRUCTION STORM WATER TREATMENT REQUIREMENT ride a summary for staff review of the methods proposed to treat and retain storm water runoff volume from the project site prior to entering the marinage system and/or waters of the State. Attach detailed responses to the question below and design information. Include proper design calculations to indicate that the proposed methods will treat runoff from the 85th percentile/24-hour storm event, or one-inch of rainfall/24-hours, or Use the City of Santa Rosa Storm Water Calculator, design criteria, and approved BMPs at www.srcity.org/stormwaterLID . Provide maps that illustrate the project drainage and overall design details of the appropriate storm water treatment BMPs. Provide the dimensions of the BMPs selected (slopes, width, length, depth) and specific calculations for velocity, volume treated, residence time, depth of flow, etc. Provide information on the soil type underlining the treatment BMP and the vegetation to be used in the BMP. Provide the BMP maintenance plan. atment BMP Summary:
	B-SECTION (C) ROMODIFICATION IMPACTS (Changes in the land use can alter the natural hydrograph.)
1)	Does the proposed project result in an increase of impervious surface of one acre or more? □ NO □ YES – Total Area (if yes continue to question 2, and explain below)
2)	Does the post-project hydrograph exceed the pre-project hydrograph by 10 percent or more for, for the 2-year 24/hour storm event: • Volume, and/or • Time of concentration? □ YES □ NO (If no the project may require LID features which correct the hydrograph, or require additional mitigation for impacts to waters of the State)

SECTION SIX – Waste Disposal

Pursuant to California Water Code 13260 and California Code of Regulations Title 27, which regulate land disposal activities, the Regional Water Board requires proof that placing non-hazardous waste or inert materials (which may include discarded product or recycled materials) will not result in degradation of water quality, human health or the environment. Degradation of water quality can be defined in terms of beneficial uses and/or in terms of numerical or narrative limits adopted to protect those uses.

DESCRIBE THE TYPE OF WASTE GENERATED BY THE PROPSED PROJECT debris, excess slurries, grindings, concrete contact water, etc.)	ET (such as dredge spoils, excess soil, construction and demolitie
PROPOSED WASTE DISPOSAL (Describe the methods proposed to handle ar plan to reincorporate or recycle excess materials)	d dispose non-hazoudous and hazardous materials, or present
ECTION SIX – Application Signature explication is hereby made for a permit or permits to authorize the way analty of perjury, that this application is complete and accurate to the explication is authority to undertake the work described herein or am explicant. In addition, I certify property owner responsibility and liaber this project for compliance with any future authorization or amende	ne best of my knowledge. I further certify that I acting as the duly authorized agent of the illity for compliance with permit conditions issued
PRINT NAME AND TITLE OF APPLICANT (OR AGENT)	_
SIGNATURE OF APPLICANT (OR AGENT)	DATE
	_
PRINT NAME AND TITLE OF LANDOWNER (OR AGENT)	
SIGNATURE OF CONSTRUCTION OVERSIGHT MANAGER (OR AGENT)	DATE
· ,	

Attachment A - Project Plan Checklist

A detailed project plan is required with every application. Clarification of information may be requested by Regional Water Quality Control Board (Regional Water Board) staff during application review. This checklist is provided to aid applicants in providing a thorough project plan. Not all items on the checklist apply to each and every project, rather they are to be used as general guidelines for required information to be included. In addition, there may be items <u>not</u> covered on this checklist that may be requested on a project by project basis.

Project Description

Project Description
Summary of overall project area (i.e., housing subdivision, highway widening) • Size and description of project area; type(s) of receiving water body(ies); brief list/description of applicant's previous and future projects related to the proposed activity or that may impact the same receiving water body(ies)
Responsible Parties • Names and phone numbers of anyone participating in the project
Jurisdictional Waters to be impacted Include a detailed site plan clearly indicating proposed impacts and mitigation site areas, including acreages
Type(s) of water body, flow duration (i.e. intermittent/perennial), inundation period, functions and values
Location and size of project area
Include site map and regional map of project location
Species present within project site and/or upstream/downstream
Threatened or endangered species present
 Existing functions, values, and condition of resources Physical, hydrologic, and biological attributes, substrate composition and condition, complexity, effective shade, canopy cover,
Current conditions at the site (mostly natural, degraded, heavily impacted)
Construction methods to be used
Adverse impacts
 Include whether the adverse impacts will be temporary or permanent, and include amount of area to be affected (acres or linear feet)
Schedule of construction activities Include start and end dates for proposed activities
Stockpile summary Include amount of stockpile and proposed areas for storage
Best management practices • Practices to be implemented to reduce potential water quality impacts during and after construction activities, aside from proposed mitigation activities
Site dewatering
Solid waste disposal for dredged or excess construction/demolition materials
Mitigation and monitoring plans (refer to Stream, Riparian, and Wetland Mitigation Checklists)

Attachment B - Stream and Riparian Mitigation Checklist

If it is determined that a watercourse (intermittent and/or perennial) or vegetation within the riparian area will be affected by the proposed project, mitigation will likely be necessary to preserve the function and beneficial uses of the site. Clarification of information may be requested by Regional Water Board staff during application review. This checklist is intended to aid applicants in submitting complete and proper information regarding mitigation plans, to enable staff to effectively evaluate the project for Water Quality Certification or Waste Discharge Requirements. Not all items on the checklist apply to each and every project, rather they are to be used as general guidelines for needed information to be included. In addition, there may be items <u>not</u> covered on this checklist that may be requested on a project by project basis.

1)	Goals of Mitigation		
		Variety of habitats to be created/restored • Pools, rearing sites, spawning sites, riparian habitat, etc.	
		 Functions and values of habitat to be created Wetted channel width, pool/riffle ratio, mean/maximum depths, complexity, substrate composition, effective shade, canopy cover, large woody debris recruitment, etc. 	
		Other mitigation steps taken • Avoid, minimize, compensate	
		 Functions and values of the created/restored habitat Wildlife habitat, streambank stabilization through riparian habitat establishment, water quality improvement, etc. 	
		Schedule for mitigation implementation, monitoring and reporting	
		Work plan	
		 Project start date; length mitigation activities will take place; specific work to be done at particular times, area of stream-channel profile receiving mitigation 	
2) Proposed Mitigation Site		d Mitigation Site	
		Location and size of mitigation area	
		Include site map and regional map of mitigation project	
		Existing functions and values	
		Current conditions at the site (mostly natural, degraded, heavily impacted)	
		If the site is degraded, explain past uses and land stressors leading to degradation	
		Present and proposed uses of mitigation area • Provide habitat for flora/fauna (plants/animals), recreation, open space, etc.	
		Current uses of the area • Agriculture, development, recreation, open space, etc.	
3)	Impleme	entation Plan	
•	. 🗆	Responsible Parties	
		Rationale for expecting success	
		Site Preparation Plan	
		Planting Plan	
		 Dates of proposed plantings, native species to be planted, density of plantings, etc. 	
		Irrigation Plan (if applicable)	
4)	Maintena	ance During Monitoring Period	

		Responsible Parties
		Maintenance activities
		Names and phone numbers of anyone performing maintenance activities at or near the site
		Schedule
5)	Monitori	ng Plan
		Responsible Parties
		Names and phone numbers of individuals/contractors performing monitoring duties
		 Performance Criteria Physical, hydrologic, and biotic attributes, plant survival, plant health, percent native and/or invasive, increase in percent effective shade, substrate composition and/or condition,
		How will success be judged? Increase in pool depths, decreased erosion rates, establishment of riparian species, recruitment of flora and fauna, increased pool/riffle ratio, increased shade, decreased water temperatures, increased water quality, increase in biotic diversity or structure, hydrologic improvements, and/or improvements in physical structure condition, etc.
		 Is there a reference site? If a reference site is incorporated in the plan, include where it is located and what the current conditions are (see performance criteria above)
		Monitoring methods • Describe in detail how the site will be monitored
		Reports • Detail a reporting program and schedule
		Schedule • How often will the site be monitored? How long will the site be monitored?
6)	Complet	ion of Mitigation
		Notice of completion (i.e. agencies to be contacted)
		Regional Board confirmation
7)	Final Su	ccess Criteria
		 Target functions and values achieved Ultimate target functions and values or condition of the mitigation (i.e. wetted channel width, pool/riffle ratio, complexity, canopy cover, effective shade, flora/fauna recruitment, physical structure, biotic structure, hydrology, etc.)
		Target hydrologic scheme achieved • Wetted width, bankfull width, mean/maximum depths, flow regime, etc.
		What are the ultimate hydrologic conditions for the site? • Based on conditions prior to any degradation or human impacts (best case scenario)
		Target jurisdictional acreage created/restored
		Total acres restored or created through mitigation project
		Establishment of native riparian species • Based on monitoring, reviewed after determined number of years

Attachment C - Wetland Mitigation Checklist

Wetlands should not be disturbed if at all possible. If it is determined that a wetland will be affected by the proposed development, mitigation will need to be done on at least a 1:1 ratio to preserve the function and values of the wetland and its associated beneficial uses. Clarification of information may be requested by Regional Water Board staff during application review. This checklist is intended to aid applicants in submitting complete and proper information regarding mitigation plans, to enable staff to effectively evaluate the project. Not all of the items on the checklist will apply to each and every project, rather they are to be used as general guidelines for needed information to be included. In addition, there may be items <u>not</u> covered on this checklist that may be requested on a project by project basis.

1)	Goals o	of N	litigation
		١	 /ariety of habitats to be created/restored What type of wetland will be created/restored? (i.e. seasonal, freshwater, saltwater, swale vernal pool, etc.)
			 Functions and values and/or condition of habitat to be created What are the functions and values and/or of the created/restored wetland? (i.e. wildlife habitat, native plant communities, increased water quality, physical structure, biotic structure, etc.)
		(Other mitigation steps taken: <u>avoid</u> , minimize, compensate
		7	Fime schedule for mitigation
		١	 Project start date; length mitigation activities will take place; specific work (exotic species removal, native species plantings, etc.) to be conducted during particular times of the year
2)	Propos	ed	Mitigation Site
	I		Location and size of mitigation area
	I		Include site map and regional map of mitigation project
	I		 Existing functions and values What are the functions and values and/or of the created/restored wetland? (i.e. wildlife habitat, native plant communities, increased water quality, physical structure, biotic structure, etc Include a copy of delineation report of mitigation site
	ı		Current conditions at the site (mostly natural, degraded, heavily impacted)
			If the site is degraded explain past uses and current land stressors leading to degradation Present and proposed uses of mitigation area • Provide habitat for flora/fauna, recreation, open space, etc.
	I		Current uses of the area
3)	Implem	ent	tation Plan
,		F	Responsible Parties
		F	Rationale for expecting success
		5	Site Preparation Plan
		F	Planting Plan • Dates of proposed plantings, native species to be planted, density of plantings, etc.
		I	rrigation Plan (if applicable)
4)	Mainter	nan	ce During Monitoring Period

		Responsible Parties		
		Maintenance activities		
		Names and phone numbers of anyone performing maintenance activities at or near the site		
		Schedule		
5)	Monitori	ng Plan		
		Responsible Parties		
		Names and phone numbers of individuals/contractors performing monitoring duties		
		Performance Criteria • Percent native species duration and season of water inundation, hydrology, physical structure, biotic structure, percent native/invasive, etc.		
		 How will success be judged? Establishment of native flora/fauna, ponding of water during appropriate portion of season, increased water quality, improvement of condition, etc. 		
		 Is there a reference site? If a reference site is incorporated in the plan, include where it is located and what the current conditions are (see performance criteria above) 		
		Monitoring methods • Describe in detail how the site will be monitored		
		Reports • Detail a reporting program and schedule		
		Schedule • How often will the site be monitored? How long will the site be monitored?		
6)	Complet	Completion of Mitigation		
		Notice of completion (i.e. agencies to be contacted)		
		Regional Board confirmation		
7)	Final Su	ccess Criteria		
		 Target functions and values Ultimate target functions and values and/or condition of the mitigation (i.e. native flora/fauna recruitment, inundation of water during appropriate season, biodiversity, special species habitat) 		
		Target hydrologic scheme ● Inundation period of area		
	□w	 hat are the ultimate target conditions for the site? Percent native species duration and season of water inundation, hydrology, physical structure, biotic structure, percent native/invasive, water quality improvement, etc. 		
		Target jurisdictional acreage to be created/restored		
		Total acres restored or created through mitigation project		
		Establishment of native wetland species • Based on monitoring, reviewed after determined number of years		

Attachment D - Storm Water and Low Impact Development

The Regional Water Board requires the use of Low Impact Development (LID) and best management practices (BMPs) that treat and retain (infiltrate, capture, evapotranspirate and store) storm water runoff on the project site. If on-site treatment is not feasible, off-site mitigation may be required for projects that result in a net increase of impervious surface.

LID is a development site design strategy with a goal of maintaining or reproducing the pre-development hydrologic system through the use of design techniques to create a functionally equivalent hydrologic setting. LID emphasizes conservation and the use of on-site natural features integrated with engineered, small-scale hydrologic controls to more closely reflect pre-development hydrologic functions. Hydrologic functions of storage, infiltration, and ground water recharge, as well as the volume and frequency of discharges, are maintained through the use of integrated and distributed storm water retention and detention areas, reduction of impervious surfaces, and the lengthening of flow paths and runoff time. LID seeks to mimic the pre-development site hydrology through infiltration, interception, reuse, and evapotranspiration. LID requires that the storm water runoff volume from small storms be retained onsite.

Other LID strategies include the preservation and protection of environmentally sensitive site features such as riparian buffers, wetlands, steep slopes, valuable trees, flood plains, woodlands, native vegetation and permeable soils. Natural vegetation and soil filters storm water runoff and reduces the volume and pollutant loads of storm water runoff. Other benefits from LID implementation include reducing global warming impacts from new development (preserving carbon sequestering in native soils and retaining native vegetation), increasing water supply (by encouraging ground water recharge) and reducing energy consumption.

LID requires the use of landscape-based BMPs that filter storm water runoff using vegetation and amended soil prior to infiltration. Examples of these types of BMPs are rain gardens and vegetated swales. LID BMPs need to be sized to treat the storm water runoff from all impervious surfaces (e.g. roads, roofs, walkways, patios) using the following sizing criteria:

- 1. The volume of runoff produced from the 85th percentile of 24-hour rainfall event, as determined from the local historical rainfall record; or
- 2. The volume of runoff produced by the 85th percentile 24-hour rainfall event, determined using the maximized capture storm water volume for the area, from the formula recommended in Urban Runoff Quality Management, WEF Manual of Practice No. 23/ASCE Manual of Practice No. 87, p. 170-178 (1998); or
- 3. The volume of annual runoff based on unit basin storage water quality volume, to achieve 80 percent or more volume treatment by the method recommended in California Storm Water Best Management Practices Handbook-Industrial/Commercial (1993).

BMPs to prevent erosion and the release of sediment or hazardous materials during construction activities should be included in the project to prevent sediment and other pollutants reaching surface waters or leaving the site in storm water runoff. These can include scheduling grading to take place during the dry season, identifying staging areas for work vehicles that are separated from sensitive areas, training employees in procedures for cleaning up spills of hazardous materials, and erosion and sediment control techniques.

Low Impact Development Resources

Santa Rosa's Storm Water Program and LID Technical Manual (in development with the North Coast Regional Water Board):

www.srcity.org/stormwaterpermit, www.srcity.org/stormwaterLID

Low Impact Development Center: http://www.lowimpactdevelopment.org/

Puget Sound LID manual: http://www.psp.wa.gov/downloads/LID/LID manual2005.pdf

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Green Infrastructure Municipal Handbooks:

http://cfpub2.epa.gov/npdes/greeninfrastructure/munichandbook.cfm

Oregon Rain Garden Guide, landscaping for clean water and healthy streams:

http://seagrant.oregonstate.edu/sgpubs/onlinepubs/h10001.pdf

Pennsylvania Stormwater BMP Manual: http://www.blairconservationdistrict.org/SWBMP.htm#pa%20manual

San Diego County's LID manual - LID for roads: http://www.sdcounty.ca.gov/dplu/docs/LID-Handbook.pdf

Low Impact Development – Sustainable Storm Water Management:

http://www.waterboards.ca.gov/water issues/programs/low impact development/

EPA Green Infrastructure Basic Information:

http://cfpub.epa.gov/npdes/greeninfrastructure/information.cfm

Managing Wet Weather with Green Infrastructure:

http://cfpub.epa.gov/npdes/home.cfm?program_id=298

Contra Costa approach powerpoint to implement LID:

http://www.cccleanwater.org/Publications/StormCon-5-06/5-ContraCostaApproach-I-Dalziel-Cloak.ppt

Portland Stormwater Management Manual: http://www.portlandonline.com/bes/index.cfm?c=47952

City of Portland's Sustainable Storm Water Management Program – LID for streets:

http://www.portlandonline.com/bes/index.cfm?c=34598

Streetscape improvements and water quality design: http://www.lowimpactdevelopment.org/nhb/lid.htm

LID Urban Design tools – design software for different BMPs: http://www.lid-stormwater.net/homedesign.htm

LID design fact sheet: http://www.coastal.ca.gov/nps/lid-factsheet.pdf

Storm Water Runoff Calculator: http://www.stormulator.com

Storm Water Management and LID at EPA headquarters – BMP choice and design:

http://www.epa.gov/owow/nps/lid/stormwater hg/

Governor's Office of Planning and Research Technical Advisory using LID to protect water quality through CEQA

review: http://www.opr.ca.gov/cega/pdfs/Technical Advisory LID.pdf

State Water Board Resolution on LID and Sustainable Water Resources Management:

http://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2008/rs2008_0030.pdf

Resolution of the California Ocean Protection Council Regarding Low Impact Development:

http://www.resources.ca.gov/copc/05-15-08 meeting/05 LID/0805COPC05 %20LID%20Res%20amended.pdf

Storm Water Resources:

North Coast Regional Water Board Municipal Storm Water Program:

http://www.waterboards.ca.gov/northcoast/water issues/hot topics/santa rosa ms4 npdes stormwater permit/

State Water Board Storm Water Program: http://www.waterboards.ca.gov/water issues/programs/stormwater/

California Stormwater Quality Association: http://www.casqa.org/

EPA Storm Water Program: http://cfpub.epa.gov/npdes/home.cfm?program_id=6

Erase the Waste Campaign – California Storm Water Toolbox (outreach materials for permittees and non-profits): http://www.waterboards.ca.gov/water_issues/programs/outreach/erase_waste/

The San Francisco Regional Water Board Storm Water Resources Website: http://www.waterboards.ca.gov/sanfranciscobay/water issues/programs/stormwater/avail docs.shtml

State Water Board Storm Water Grant Program: http://www.waterboards.ca.gov/water issues/programs/grants loans/prop84/index.shtml

Federal Funding Sources for Watershed Protection: http://cfpub.epa.gov/fedfund/

Stormwater Manager's Resource Center: http://www.stormwatercenter.net/

For more information, please contact Mona Dougherty at mdougherty@waterboards.ca.gov

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