

APPENDIX C
PRELIMINARY WATER QUALITY MANAGEMENT PLAN

Preliminary Water Quality Management Plan (WQMP)

Project Name:

Burek Residence Landslide Repair

Prepared for:

Ron and Heather Burek Living Trust

20 Old Ranch Road

Laguna Niguel, CA 92677

(949) 633-9917

Prepared by:

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Prepared on:

November 13, 2024

Water Quality Management Plan (WQMP)
Burek Residence Landslide Repair

Project Owner's Certification			
Permit/ Application No.	SDP 24-1003	Grading Permit No.	TBD
Tract/Parcel Map No.	Parcel 2 PM 2004-215	Building Permit No.	TBD
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract)			121-100-81

This Water Quality Management Plan (WQMP) has been prepared for Ron and Heather Burek by RDS and Associates. The WQMP is intended to comply with the requirements of the local NPDES Stormwater Program requiring the preparation of the plan.

The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan and will ensure that this plan is amended as appropriate to reflect up-to-date conditions on the site consistent with the current Orange County Drainage Area Management Plan (DAMP) and the intent of the non-point source NPDES Permit for Waste Discharge Requirements for the County of Orange, Orange County Flood Control District and the incorporated Cities of Orange County within the San Diego Region (South Orange County). Once the undersigned transfers its interest in the property, its successors-in-interest shall bear the aforementioned responsibility to implement and amend the WQMP. An appropriate number of approved and signed copies of this document shall be available on the subject site in perpetuity.

Owner:			
Title	Trustee		
Company	Ron and Heather Burek Living Trust		
Address	20 Old Ranch Road Laguna Niguel CA, 92677		
Email	ron@brentpacific.com		
Telephone #	949 633-9917		
Signature		Date	

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Section 1 Discretionary Permit(s) and Water Quality Conditions

Project Information			
Permit/Application No.	SDP 24-1003	20 Old Ranch Road Laguna Niguel, CA	Parcel 2 PM 2004-215
Additional Information/ Comments:	N/A		
Water Quality Conditions			
Water Quality Conditions from prior approvals or applicable watershed-based plans	2014 20 Old Ranch Road Approved WQMP		

Section 2 Project Description

The project consists of grading 7.55 acres of partially developed land on 20 Old Ranch Road Laguna Niguel CA with legal description Parcel 2, BK366 PG 5, and 0.65 acres on 25 Old Ranch Road Laguna Niguel legal description Parcel 1 PMB 175 PG 44 for a total project area of 8.2 acres.

The purpose of the project is to remediate and final grade the area of an existing landslide to achieve the required slope stability safety factor of 1.5:1

The portion of the project on 20 Old Ranch Road (7.55 acres) is owned and maintained by Ron and Heather Burek Living Trust. The portion of the project on 25 Old Ranch Road (0.65 acres) is owned by Micky Dhillon.

2.1 General Description

Description of Proposed Project		
Site Location	Parcel 2, PM 2004-215 20 Old Ranch Road Laguna Niguel APN 121-100-81 and 25 Old Ranch Road Laguna Niguel APN 121-100-32	
Project Area (ft ²): 357,192	Number of Dwelling Units: <u> 0 </u>	SIC Code: <u> N/A </u>
Narrative Project Description:	The development consists of slope grading and earth terracing to provide the contours required to complete the work associated with a landslide repair. No impervious areas are added as the area of development will remain either as landscape areas or pervious all weather maintenance access roads. No structures are proposed as part of this project.	

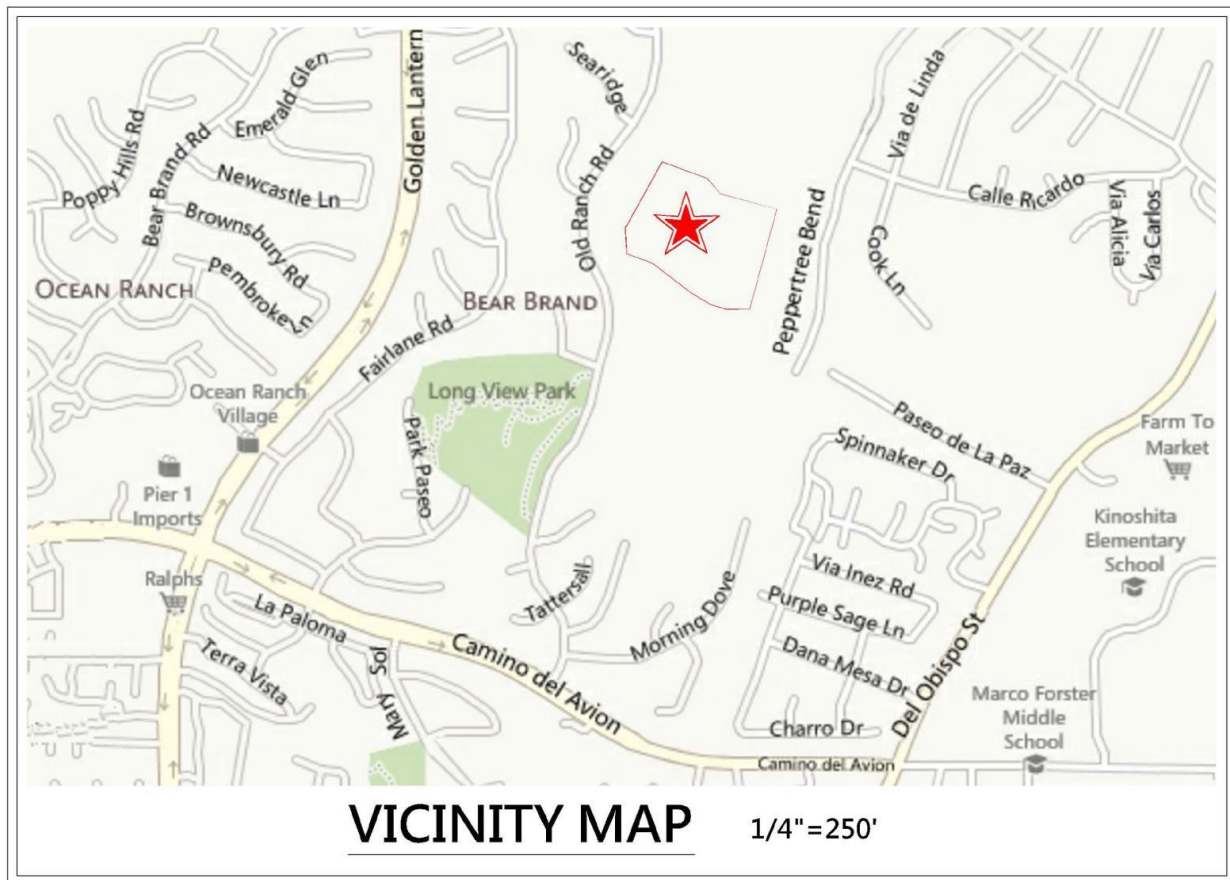
Water Quality Management Plan (WQMP)
Burek Residence Landslide Repair

Project Area 357,192 sq ft	Pervious 357,192 sq ft		Impervious 0.0 sq ft	
	Area (acres or sq ft)	Percentage	Area (acres or sq ft)	Percentage
Pre-Project Conditions	357,192 sq ft	100%	0.0 sq ft	0%
Post-Project Conditions	357,192 sq ft	100%	0.0 sq ft	0%

2.2 Post Development Drainage Characteristics

The existing topography and drainage pattern of the project area consists of a south easterly continuous slope draining into a 24" and 30" City of San Juan Capistrano storm water drainage inlets.

The post development of the project area maintains the same drainage pattern as existing with a Q100 no greater than 2.0 cfs above existing. This is accomplished by the development of terracing and a dry hydromodification basin.



2.3 Property Ownership/Management

The project area on 20 Old Ranch Road (7.55 acres) is currently owned by the Ron and Heather Burek Living Trust and the project area on 25 Old Ranch Road (0.65 acres) is owned by Micky Dhillon. Each owner currently, and in the future, is to manage and maintain the project area under its ownership.

Section 3 Site & Watershed Characterization

3.1 Site Conditions

The site has been designed to maintain the current drainage patterns and as a result of the site area being previously disturbed by agricultural use does not impact any sensitive environmental or hydrologic features.

The drainage pattern is not altered insofar as it relates to the run-on and run-off locations of the drainage pattern. The drainage patterns are altered within the site to accommodate the contour revisions required by the landslide repair grading.

The existing site is 100% pervious as is the site after completion of the project.

The existing average slope of the site is 30% which remains the same post development as the upper and lower elevations do not change. The site is currently disturbed land by either past agricultural disking and or previous grading and drainage improvements.

The site soils consist of an upper disturbed zone averaging 1 ft underlain by the Capistrano formation bedrock, both disturbed and undisturbed.

3.1.1 Existing Site Conditions

The average slope of the site is 30% with an upper elevation of 525 ft and an average lower elevation of 360 ft. The current drainage is routed to both the northeast corner and the southeast corner of the site to an existing storm water drain system.

Upstream of the site is the existing development of a single family residence and associated hardscape which is not routed to the site but to a hydromodification basin which drains to the southeast drainage inlet. As a result, the upper drainage does not impact the site.

Existing drainage basins and pervious access roads are located on the site. These features are being modified to adjust to the design contours of the landslide repair grading and the hydromodification requirements.

Existing Land Uses				
Land Use Description	Total Area (acres)	Impervious Area (acres)	Pervious Area (acres)	Imperviousness (%)
<i>Open Space / pervious Surface</i>	8.2	0	8.2	0
Total	8.2	0	8.2	0

3.1.2 Infiltration-Related Characteristics

The topography combined with the geotechnical characteristics of the site does not allow for use of infiltration.

3.1.2.1 Hydrogeologic Conditions

There are currently no wells or evidence of groundwater on the site. The Capistrano formation is for the most part impervious and not conducive to infiltration.

3.1.2.2 Soil and Geologic Infiltration Characteristics

3.1.2.3 Geotechnical Conditions

Following is an excerpt from project report by LGC Geotechnical, Inc. "Geotechnical Evaluation and Slope Stabilization Recommendations, 20 Old Ranch Road" dated August 30, 2023.

5.8 Subsurface Water Infiltration

Recent regulatory changes have occurred that mandate that storm water be infiltrated below grade rather than collected in a conventional storm drain system. Typically, a combination of methods are implemented to reduce surface water runoff and increase infiltration including; permeable pavements/pavers for roadways and walkways, directing surface water runoff to grass-lined swales, retention areas, and/or drywells, etc.

It should be noted that collecting and concentrating surface water for the purpose of intentional infiltration below grade, conflicts with the geotechnical engineering objective of directing surface

water away from slopes, structures and other improvements. The geotechnical stability and integrity of a site is reliant upon appropriately handling surface water. In general, the vast majority of geotechnical distress issues are directly related to improper drainage. In general, distress in the form of movement of improvements could occur as a result of soil saturation and loss of soil support, expansion, internal soil erosion, collapse and/or settlement.

The site will consist of compacted fill over very dense bedrock on hillside terrain. As such, we do not recommend that surface water be intentionally infiltrated into subsurface soils at this site.

3.1.2.4 Summary of Infiltration Opportunities and Constraints of Existing Site

Infiltration is not recommended for this project due to slope steepness and geological conditions.

3.2 Proposed Site Development Activities

The purpose of the development is to stabilize the existing landslide by both remediation of the landslide itself and re-contouring the property to achieve a slope stability factor of safety of 1.5:1.

3.2.1 Overview of Site Development Activities

The land use, drainage and impact to neighboring properties remains unchanged from pre-development.

3.2.2 Project Attributes Influencing Stormwater Management

The current uses of the project site consists of landscape areas, pervious maintenance access roads and sediment/ hydromodification basins. The proposed use of the site remains unchanged from its existing use. The project incorporates terrace drains, downdrains,, rock rip rap lined swales, rock rip rap energy dissipators and HDPE storm drain pipe.

No potential pollutant generating activities are proposed at the site.

No buildings are proposed on the site

No changes are being made to the existing drainage patterns

Proposed landscaping remains unchanged from existing landscaping

Proposed Land Uses				
Land Use Description	Total Area (acres)	Impervious Area (acres)	Pervious Area (acres)	Imperviousness (%)
<i>Open Space / pervious surface</i>	8.2	0.0	8.2	0
Total	8.2	0.0	8.2	0

3.2.3 Effects on Infiltration and Harvest and Use Feasibility

The proposed site development activities do not have any influence on infiltration and harvest feasibility. The topographic and geotechnical constraints preclude the ability to use infiltration or harvest BMP's as a result of the subterranean conditions, steepness of the site and availability of non-slope area.

3.3 Receiving Waterbodies

The project is located within the San Juan Creek Watershed. Storm runoff from the proposed development outlets to the city storm drain system which discharges to San Juan Creek and ultimately to the Pacific Ocean. San Juan Creek, and the Pacific Ocean Shoreline at the mouth of San Juan Creek, are 303(d) listed for Indicator Bacteria, Cadmium, Copper, Nickel, Phosphorous, Nitrogen, DDE, Toxicity, Selenium, Benthic Community Effects, Dissolved Oxygen, and Ammonia. TMDLs have been established for Indicator Bacteria at the mouth of San Juan Creek and the Pacific Ocean Shoreline under Decision IDs 69906, 77526, and 86210.

3.4 Stormwater Pollutants or Conditions of Concern

Pollutants or Conditions of Concern				
Pollutant	Expected from Proposed Land Uses/ Activities (Yes or No)	Receiving Waterbody Impaired (Yes or No)	Priority Pollutant from WQIP or other Water Quality Condition? (Yes or No)	Pollutant of Concern (Primary, Other, or No)
Suspended-Solids	Yes	No	No	Other
Nutrients	Yes	Yes	Yes	Primary
Heavy Metals	No	Yes	No	Other
Bacteria/Virus/Pathogens	Yes	Yes	Yes	Primary
Pesticides	Yes	Yes	Yes	Primary
Oil and Grease	No	No	No	Other
Toxic Organic Compounds	No	No	No	No
Trash and Debris	No	No	No	Other
Dry Weather Runoff	Yes	No	Yes	Primary

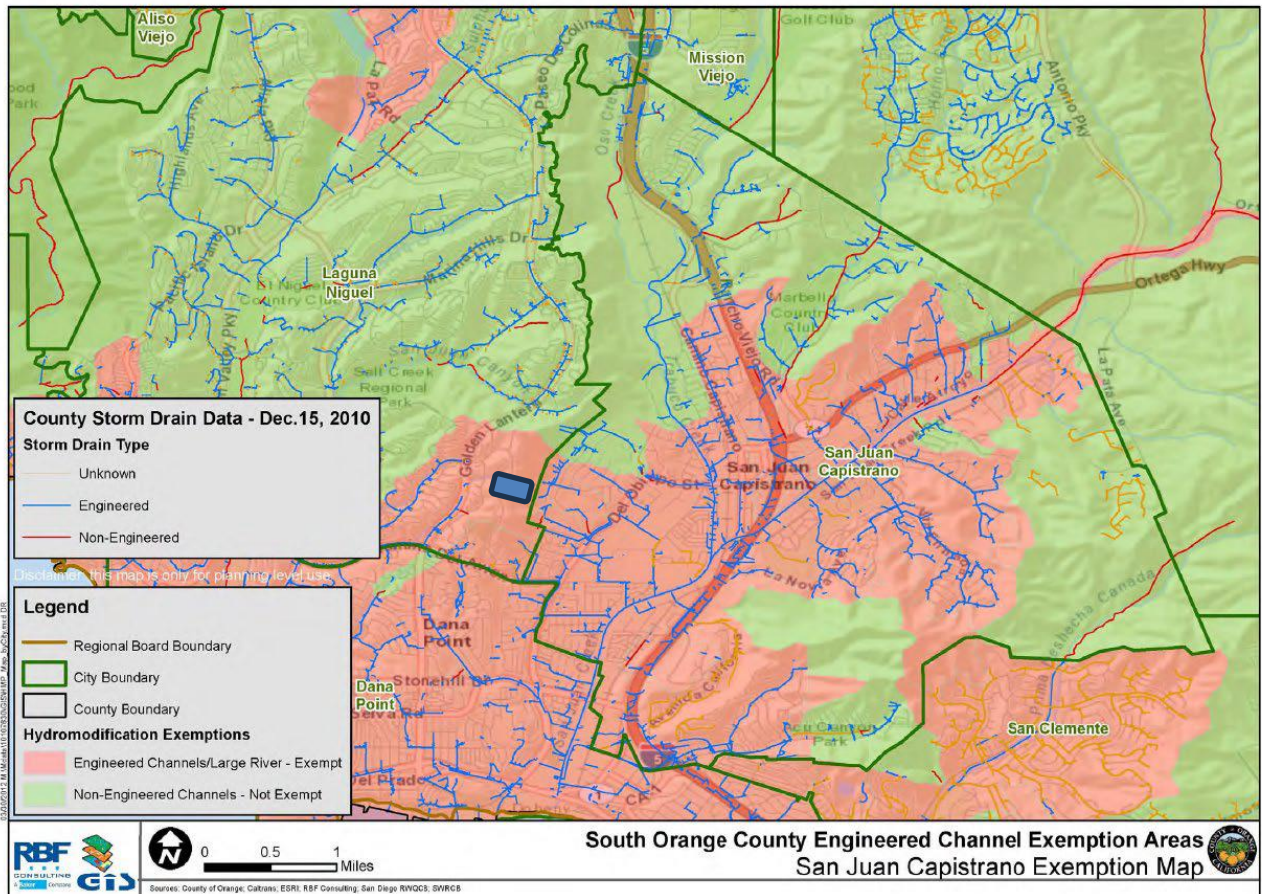
3.5 Hydrologic Conditions of Concern

The project lies within a Hydromodification Exempt Area per the San Juan Capistrano Exemption Map in Appendix N.7 of the TGD. See exemption map excerpt on the following page.

☒ No - An HCOC does not exist for this receiving water because:

☐ Project discharges directly to a protected conveyance (bed and bank are concrete lined the entire way from the point(s) of discharge to a receiving lake, reservoir, embayment, or the Ocean

- ☒ Project discharges directly to storm drains which discharge directly to a reservoir, lake, embayment, ocean or protected conveyance (as described above)
- ☐ The project discharges to an area identified in the WMAA as exempt from hydromodification concerns
- ☐ Yes - An HCOC does exist for this receiving water because none of the above are applicable.



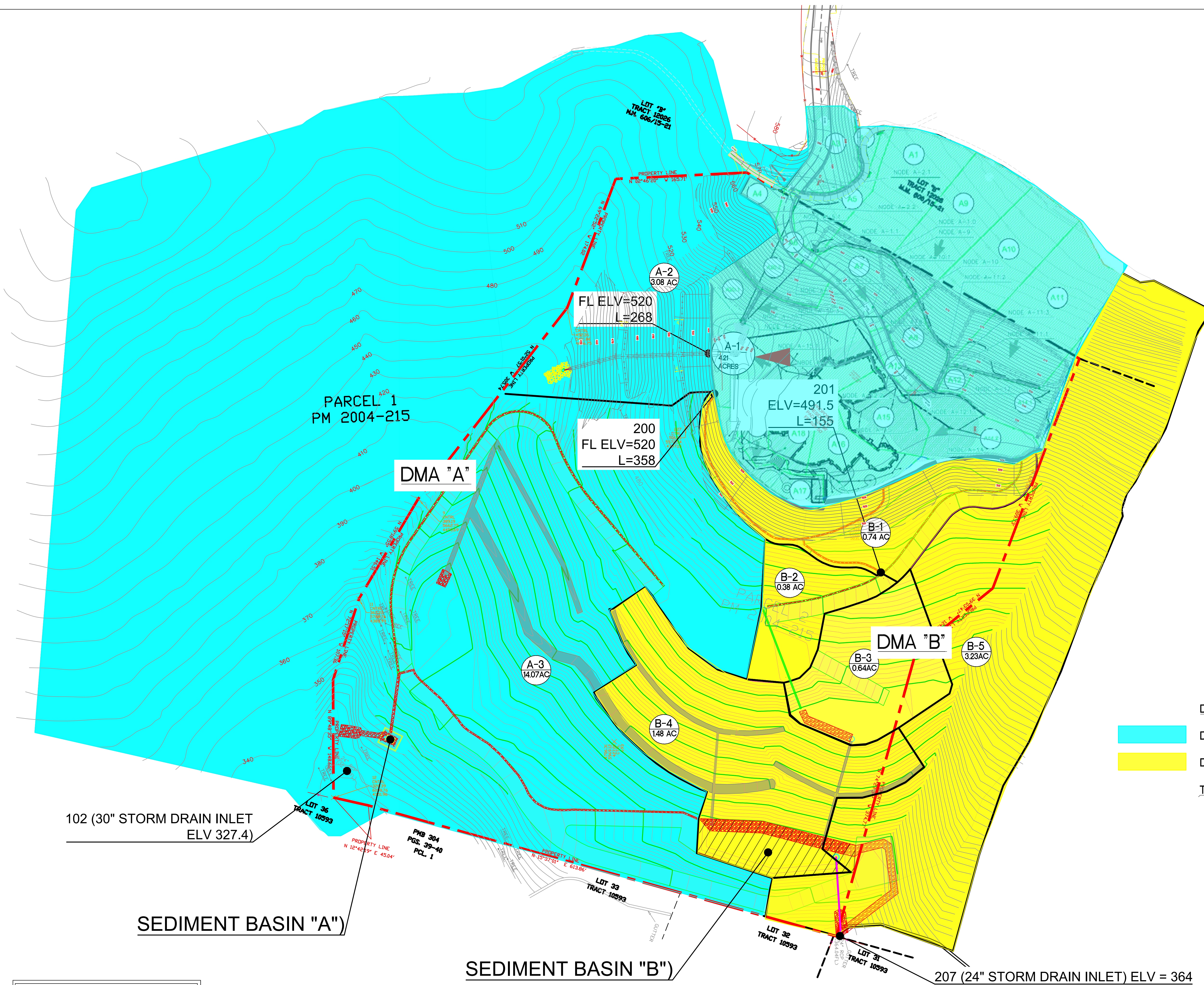
3.6 Critical Course Sediment Yield Areas

Per Figure 5 in Appendix N.8 of the TGD, the project is not located within a Potential critical coarse sediment area.

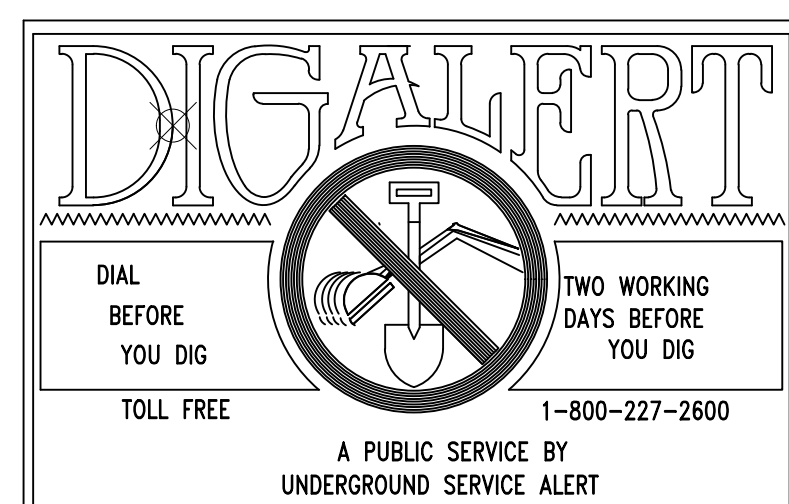
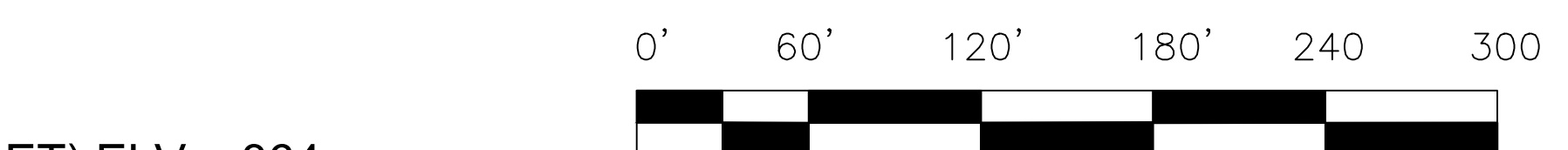
Section 4 Site Plan and Drainage Plan

4.1 Drainage Management Area Delineation

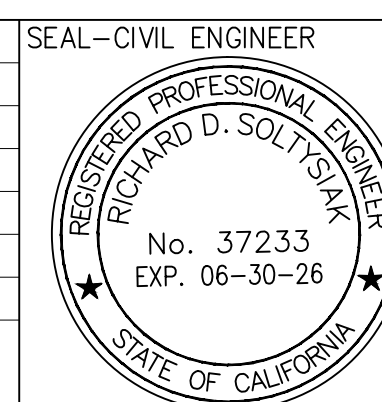
As illustrated on the following Drainage Plan, two basins (Basins A and Basin B) are designed for the purpose of sediment control.



	<u>DRAINAGE AREA</u>	<u>SQFT</u>	<u>DISCHARGE TO</u>
	DMA "A"	930,441	EXISTING 30" STORM DRAIN
	DMA "B"	277,041	EXISTING 24" STORM DRAIN
	<u>TOTAL DRAINAGE AREA 1,207,482 SQFT (27.7 ACRES)</u>		



MARK	BY			
		DATE		
ENGINEER				



PREPARED BY:

BENCHMARK: COUNTY OF ORANGE BENCH MARK #3MM279.1 ELEV. 517.847 NAVD 88 DATUM	20 OLD RANCH ROAD LANDSLIDE GRADING			SHEET NO. <div style="font-size: 2em; text-align: center;">2</div>
	POST DEVELOPMENT DRAINAGE AREA PLAN			2 OF 2 SHTS
DATE: NOV 13, 2024	FOR: RON AND HEATHER BUREK	W.O.	FILE NO.	
SCALE: 1" = 60'				

4.2 Overall Site Design BMPs

Minimize Impervious Area – No impervious areas added.

Maximize Natural Infiltration Capacity- N/A due to the soil type and geotechnical hazards related to infiltration for the project site.

Preserve Existing Drainage Patterns and Time of Concentration – The pre and post development drainage patterns and time of concentration is maintained or increased as a result of topographic changes resulting from the design.

Disconnect Impervious Areas – No impervious areas added in the post development.

Protect Existing Vegetation and Sensitive Areas- Areas requiring no contour or landslide remediation will remain untouched.

Revegetate Disturbed Areas – Slope areas within the development limits shall be revegetated with native drought -tolerant plant species in accordance with the project landscape plan. Vegetation shall comply with the City's Water Efficient Landscape Ordinance 9.55.020 (drought tolerant species with low water use).

Soil Stockpiling and Site Generated Organics Soils harvested during remedial grading shall be checked by the geotechnical engineer of record and designated for on-site use to maximum extent feasible for revegetation purposes.

Firescaping – Proposed landscape plant palette shall incorporate plants appropriate for the zone(s) around the development in an effort to mitigate fire risk to the maximum extent practicable.

Water Efficient Landscaping – Plant material on the disturbed slope areas shall consist of drought-tolerant species with limited to no irrigation requirements.

Slopes and Channel Buffers – For planting, see Water Efficient Landscaping above. Further, drainage devices throughout the development area will capture storm runoff and avoid water flowing uncontrolled over slopes.

4.3 DMA Characteristics and Site Design BMPs

4.3.1 DMA "A"

Location:

DMA-"A" includes the southern drainage discharging into the 30" San Juan Capistrano storm drain sewer system.

Area:

DMA-A measures 930,441 sq. ft. (21.36 ac) with an impervious percentage of 0%.

Topographic Features and Drainage Pattern:

Runoff within DMA-"A" is collected by a series of terrace drains, down drains, rock rip rap swales and sheet flow and conveyed to a dry sediment basin designed for peak storm flow control prior to off-site discharge and capture of sediment.

BMP Locations/Placement:

The dry sediment basin is placed as the final flow capture before discharging through a rip rap channel to the City of San Juan Capistrano 30" storm drain system.

Land Uses and Pollutant-Generating Activities:

Open Space / pervious access roads. See Table in Section 3.4 for expected project pollutants for this type of development.

Site Design BMPs:

HSCs were considered for this DMA, but were not implemented due to infiltration infeasibility, and topography constraints related to the adjacent slopes.

Infiltration Feasibility:

As discussed earlier, infiltration is not feasible for this project.

Harvested Stormwater Demand and Feasibility:

As discussed earlier in Section 3.2.3, Harvest and Use is not feasible for this project. On-site pervious areas do not generate sufficient irrigation demand, as a bulk of these areas are to be planted with native, drought tolerant species and will not be irrigated after vegetation has been initially established.

4.3.2 DMA "B"

Location:

DMA "B" includes the northern drainage outlet into the San Juan Capistrano 24" storm drain sewer system.

Area:

DMA-2 measures 277,041 sq. ft. (6.36 ac) with an impervious percentage of 0%.

Topographic Features and Drainage Pattern:

Runoff within DMA "B" is collected by a series of terrace drains, down drains, rock rip rap swales and sheet flow and conveyed to a dry sediment basin designed for the capture of sediment prior to discharging into the 24" storm drain system..

BMP Locations/Placement:

The dry sediment basin is placed as the final flow capture before discharging through a rip rap channel to the City of San Juan Capistrano storm drain system.

Land Uses and Pollutant-Generating Activities:

Open Space / pervious access roads. See Table in Section 3.4 for expected project pollutants for this type of development.

Site Design BMPs:

HSCs were considered for this DMA, but were not implemented due to infiltration infeasibility, and topography constraints related to the adjacent slopes.

Infiltration Feasibility:

As discussed earlier, infiltration is not feasible for this project.

Harvested Stormwater Demand and Feasibility:

As discussed earlier in Section 3.2.3, Harvest and Use is not feasible for this project. On-site pervious areas do not generate sufficient irrigation demand, as a bulk of these areas are to be planted with native, drought tolerant species and will not be irrigated after vegetation has been initially established.

4.3.X DMA Summary

Drainage Management Areas				
DMA (Number/Description)	Total Area (acres)	Imperviousness (%)	Infiltration Feasibility Category (Full, Partial, or No Infiltration)	Hydrologic Source Controls Used
DMA "A", South Section	21.36	0	No Infiltration	None
DMA "B", North Section	6.36	0	No Infiltration	None

4.4 Source Control BMPs

Non-Structural Source Control BMPs				
Identifier	Name	Check One		Reason Source Control is Not Applicable
		Included	Not Applicable	
N1	Education for Property Owners, Tenants and Occupants	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
N2	Activity Restrictions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
N3	Common Area Landscape Management	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
N4	BMP Maintenance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
N5	Title 22 CCR Compliance (How development will comply)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No hazardous materials on site
N6	Local Industrial Permit Compliance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not an industrial project
N7	Spill Contingency Plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No bulk storage of chemicals
N8	Underground Storage Tank Compliance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No underground storage tanks
N9	Hazardous Materials Disclosure Compliance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No bulk storage of hazardous materials onsite
N10	Uniform Fire Code Implementation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No bulk storage of hazardous materials onsite
N11	Common Area Litter Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
N12	Employee Training	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
N13	Housekeeping of Loading Docks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No loading dock
N14	Common Area Catch Basin Inspection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
N15	Street Sweeping Private Streets and Parking Lots	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No street
N16	Retail Gasoline Outlets	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not a retail gasoline outlet

N1 - Education for Property Owners, Tenants, and Occupants

Property owner(s) shall read and be familiar with this WQMP. The owner and occupants shall take an active role in promoting water quality (i.e. proper disposal of trash/waste, avoiding nonstormwater discharges, etc.). For more information, visit: <http://ocwatersheds.com/publiced>

N2 – Activity Restrictions

Outdoor activities are anticipated to be limited at this residential site, but the following items shall be taken into consideration:

- Avoid hosing down driveways and walkways; sweep the surfaces and properly dispose of collected debris, as needed.
- Wash water from any cleaning activities shall be contained and not directed to the storm drain.

N3 - Common Area Landscape Management

Property landscape management will be done under the supervision of the Owner. Plant material shall be selected with consideration taken for minimizing water and fertilizer requirements. Maintenance personnel shall be instructed to minimize irrigation, maintain the irrigation system in

proper working condition, and keep inlet grates clear of debris. Maintenance shall be consistent with provisions of the Conservation Resolution and County Management Guidelines, EPA Preventing Pollution through Efficient Water Use, and Proper Use of Fertilizer and Pesticides.

N4-BMP Maintenance

See Inspection and Maintenance Responsibility & Frequency Plan in Attachment B.

N11 - Litter Control

Litter within the boundaries of the subject property will be cleaned up by the owner or contracted maintenance company under the supervision of the property owner. Collected debris shall be placed in the appropriate waste container for off-site disposal or recycling.

N12 – Employee Training

All contracted landscape and maintenance personnel shall read and be familiar with this WQMP. A copy should be made available at time of hire, and subsequently accessible for the duration of the service contract. Discussions between property owner and maintenance personnel, regarding onsite water quality expectations, shall take place on an annual basis. See also link in N1 above.

N14 - Catch Basin Inspection

Drain inlets, catch basins, surface gutters, and outlets shall be inspected and cleaned prior to the rainy season (October 1st) each year.

Structural Source Control BMPs				
Identifier	Name	Check One		Reason Source Control is Not Applicable
		Included	Not Applicable	
S1	Provide storm drain system stenciling and signage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A
S2	Design and construct outdoor material storage areas to reduce pollution introduction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No storage of material required
S3	Design and construct trash and waste storage areas to reduce pollution introduction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
S4	Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
S5	Protect slopes and channels and provide energy dissipation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Incorporate requirements applicable to individual priority project categories (from SDRWQCB NPDES Permit)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
S6	Dock areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No docks
S7	Maintenance bays	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No maintenance bay
S8	Vehicle wash areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No vehicle wash area
S9	Outdoor processing areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No outdoor processing area
S10	Equipment wash areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No equipment wash area
S11	Fueling areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No fueling area
S12	Hillside landscaping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
S13	Wash water control for food preparation areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No food preparation area
S14	Community car wash racks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not a community car wash

S3

The trash area is located within the existing garage. The ground around the trash area shall be kept clear of loose debris, and the lids to all containers shall remain closed when not in use.

S4

The irrigation system is to be designed and constructed to facilitate irrigation and avoid overwatering. The use of an automated timer system will control valve run times, and low precipitation heads will minimize the amount of water entering the landscape areas. The system shall be

equipped with a moisture detection system and/or rain shut-off trigger(s) to avoid unnecessary irrigation. The use of drought-tolerant plant materials, and the grouping of different species with similar watering requirements, will help to reduce the amount of irrigation needed to maintain healthy vegetation on-site. The property owner shall refer to the "Water Quality Guidelines for Landscaping and Gardening" (See Educational Materials attachments) for additional information.

S5

Mulch to be placed on all slope areas upon completion of work. Water to be directed to temporary sediment basins during construction and to permanent sediment basins upon the completion of the work. Other erosion control products to protect slopes and channels such as fiber rolls, coconut matting and rock rip rap protection to be used.

S12

The sloped areas within the limits of this project shall be revegetated with native, drought-tolerant plant material. Temporary irrigation will be used until the vegetation on the slope has been established, at which point the irrigation system will be turned off.

Section 5 Low Impact Development BMPs

5.1 LID BMPs in DMA "A"

As a result of geological, geotechnical and topographic limitations Low impact BMP's are not suited for this site with the exception of HSC-3 Street Trees and sediment basins.

5.1.1 Hydrologic Source Controls for DMA "A"

In the non-slope areas of the project it is proposed to plant native trees at a density suitable for the species proposed and the grades allowed.

5.1.2 Structural LID BMP for DMA "A"

The proposed development remains a 100% pervious site with the majority of flow passing through a sediment basin prior to leaving the site.

5.2 LID BMPs in DMA "B"

As a result of geological, geotechnical and topographic limitations Low impact BMP's are not suited for this site with the exception of HSC-3 Street Trees and sediment basins.

5.2.1 Hydrologic Source Controls for DMA "B"

In the non-slope areas of the project it is proposed to plant native trees at a density suitable for the species proposed and the grades allowed.

5.2.2 Structural LID BMP for DMA "B"

The proposed development remains a 100% pervious site with the majority of flow passing through a sediment basin prior to leaving the site.

5.3 Summary of LID BMPs

The use of native vegetation, including trees, is proposed to both stabilize the generally steep terrain and use and filter runoff in the plant growth. Water in excess of required by plantings will enter sediment basins to be maintained on a regular basis by the property owner.

Section 6 Hydromodification BMPs

Per section 3.5 of this report, a HCOC does not exist for the receiving water. There are no Hydromodification concerns:

6.1 Points of Compliance

n/a

6.2 Pre-Development (Natural) Conditions

n/a.

6.3 Post-Development Conditions and Hydromodification BMPs

n/a

6.4 Measures for Avoidance of Critical Coarse Sediment Yield Areas

n/a

6.5 Hydrologic Modeling and Hydromodification Compliance

n/a

Section 7 Educational Materials Index

Educational Materials			
Residential Material (http://www.ocwatersheds.com)	Check If Applicable	Business Material (http://www.ocwatersheds.com)	Check If Applicable
The Ocean Begins at Your Front Door	<input checked="" type="checkbox"/>	Tips for the Automotive Industry	<input type="checkbox"/>
Tips for Car Wash Fund-raisers	<input type="checkbox"/>	Tips for Using Concrete and Mortar	<input type="checkbox"/>
Tips for the Home Mechanic	<input type="checkbox"/>	Tips for the Food Service Industry	<input type="checkbox"/>
Homeowners Guide for Sustainable Water Use	<input checked="" type="checkbox"/>	Proper Maintenance Practices for Your Business	<input type="checkbox"/>
Household Tips	<input type="checkbox"/>	Compliance BMPs for Mobile Businesses	<input type="checkbox"/>
Proper Disposal of Household Hazardous Waste	<input type="checkbox"/>	Other Material	Check If Attached
Recycle at Your Local Used Oil Collection Center (North County)	<input type="checkbox"/>		
Recycle at Your Local Used Oil Collection Center (Central County)	<input type="checkbox"/>		
Recycle at Your Local Used Oil Collection Center (South County)	<input checked="" type="checkbox"/>		
Tips for Maintaining a Septic Tank System	<input type="checkbox"/>		<input type="checkbox"/>
Responsible Pest Control	<input type="checkbox"/>		<input type="checkbox"/>
Sewer Spill	<input type="checkbox"/>		<input type="checkbox"/>
Tips for the Home Improvement Projects	<input type="checkbox"/>		<input type="checkbox"/>
Tips for Horse Care	<input type="checkbox"/>		<input type="checkbox"/>
Tips for Landscaping and Gardening	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Tips for Pet Care	<input type="checkbox"/>		<input type="checkbox"/>
Tips for Projects Using Paint	<input type="checkbox"/>		<input type="checkbox"/>

Attachment A: Educational Materials

Will be provided with Final WQMP

Attachment B: Operations and Maintenance Plan

Will be provided with final WQMP