

Appendix J

C.3 and C.6 Development Review Checklist

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Municipal Regional Stormwater Permit (MRP)
Stormwater Controls for Development Projects

Applicants: This form should be filled out by the Project Civil Engineer, if one is associated with the project.
Office Use: Planners, scan and upload to Accela Case and provide hard copy to EC Team; Building Techs, forward to DPW

Project Information

I.A Enter Project Data (For "C.3 Regulated Projects," data will be reported in the municipality's stormwater Annual Report.)

Project Name: Rockaway Quarry in The City of Pacifica Case Number: _____
Project Address & Cross St.: Nearest cross street: San Marlo Way & Pacific Coast Highway (SR 1)
Project APN: 018-150-110,120,150 Project Watershed: Calera Creek Watershed
Applicant Name: The Preserve at Pacifica LLC (Agent: Walsh Engineering) I.A.4 Slope on Site: _____ %
Applicant Phone: (616) 530-5500 Applicant Email Address: pcheule@eenhoorn.com

Development type: (check all that apply)

Single Family Residential: A stand-alone home that is not part of a larger project.
 Single Family Residential: Two or more lot residential development.¹ # of units: _____
 Multi-Family Residential # of units: _____
 Commercial
 Industrial, Manufacturing
 Mixed-Use # of units: _____
 Streets, Roads², etc.
 'Redevelopment' as defined by MRP: creating, adding and/or replacing exterior existing impervious surface on a site where past development has occurred.

I.A.1

'Special land use categories' as defined by MRP: (1) auto service facilities³, (2) retail gasoline outlets, (3) restaurants, (4) uncovered parking area (stand-alone or part of a larger project)
 Institutions: schools, libraries, jails, etc.
 Parks and trails, camp grounds, other recreational
 Agricultural, wineries
 Kennels, Ranches
 Other, Please specify Quarry Reclamation

Project Description⁴: (Also note any past or future phases of the project.)
This project consists of grading, excavation, remedial mitigation, and installation of drainage improvements in accordance with Surface Mining and Reclamation Act (SMARA) Standards for reclamation of the abandoned Rockaway Quarry.

I.A.2 Total Area of Site: 86.2 acres

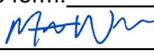
I.A.3 Total Area of land disturbed during construction (include clearing, grading, excavating and stockpile area): 23.3 acres.

I.A.5 Certification:

I certify that the information provided on this form is correct and acknowledge that, should the project exceed the amount of new and/or replaced impervious surface provided in this form, the as-built project may be subject to additional improvements.

Attach Preliminary Calculations Attach Final Calculations Attach copy of site plan showing areas

Name of person completing the form: Matt Walsh Title: Principal

Signature:  Date: 06/14/19

Phone number: (805) 319-4948 Email address: matt@walshengineering.net

¹ Common Plans of Development (subdivisions or contiguous, commonly owned lots, for the construction of two or more homes developed within 1 year of each other) are not considered single family projects by the MRP.

² Roadway projects creating 10,000 sq.ft. or more of contiguous impervious surface are subject to C.3 requirements if the roadway is new or being widened with additional traffic lanes.

³ See Standard Industrial Classification (SIC) codes [here](#)

⁴ Project description examples: 5-story office building, industrial warehouse, residential with five 4-story buildings for 200 condominiums, etc.

I.B Is the project a “C.3 Regulated Project” per MRP Provision C.3.b?**I.B.1 Enter the amount of impervious surface⁵ Retained, Replaced and/or Created by the project:****Table I.B.1 Impervious and Pervious Surfaces**

Type of Impervious Surface	I.B.1.a	I.B.1.b	I.B.1.c	I.B.1.d	I.B.1.e
	Pre-Project Impervious Surface (sq.ft.)	Existing Impervious Surface to be Retained ⁶ (sq.ft.)	Existing Impervious Surface to be Replaced ⁶ (sq.ft.)	New Impervious Surface to be Created ⁶ (sq.ft.)	Post-Project Impervious Surface (sq.ft.) (=b+c+d)
Roof area(s)	0	0	0	0	0
Impervious ⁵ sidewalks, patios, paths, driveways, streets	0	0	0	0	0
Impervious ⁵ uncovered parking ⁷	0	0	0	0	0
Totals of Impervious Surfaces:	0	0	0	0	0
I.B.1.f - Total Impervious Surface Replaced and Created (sum of totals for columns I.B.1.c and I.B.1.d):				0	
Type of Pervious Surface	Pre-Project Pervious Surface (sq.ft.)				Post-project Pervious Surface (sq.ft.)
Landscaping	1,014,950				1,014,950
Pervious Paving	0				0
Green Roof	0				0
Totals of Pervious Surfaces:	1,014,950				1,014,950
Total Site Area (Total Impervious+Total Pervious=I.A.1)	1,014,950				1,014,950

I.B.2 Please review and attach additional worksheets as required below using the Total Impervious Surface Replaced and Created in cell I.B.1.f from Table I.B.1 above and other factors:

	Check all that apply:	Check If Yes	Attach Worksheet
I.B.2.a	Does this project involve any earthwork?	<input checked="" type="checkbox"/>	A
I.B.2.b	Is I.B.1.f greater than or equal to 2,500 sq.ft? <i>If YES, the Project is subject to Provision C.3.i.</i>	<input type="checkbox"/>	B, C
I.B.2.c	Is the total Existing Impervious Surface to be Replaced (column I.B.1.c) 50 percent or more of the total Pre-Project Impervious Surface (column I.B.1.a)? <i>If YES, site design, source control and treatment requirements apply to the whole site; if NO, these requirements apply only to the impervious surface created and/or replaced.</i>	<input type="checkbox"/>	
I.B.2.d	Is this project one of the Special Land Use Categories (box checked in section I.A. above) and is I.B.1.f greater than or equal to 5,000 sq.ft? <i>If YES, project is a C.3 Regulated Project.</i>	<input type="checkbox"/>	D, D-1, D-2
I.B.2.e	Is I.B.1.f greater than or equal to 10,000 sq.ft? <i>If YES, project is a C.3 Regulated Project.</i>	<input type="checkbox"/>	D, D-1, D-2
I.B.2.f	Is I.B.1.f greater than or equal to 43,560 sq.ft. (1 acre)? <i>If YES, project may be subject to Hydromodification Management requirements.</i>	<input type="checkbox"/>	E
I.B.2.g	Is I.A.2 (pg. 1) greater than or equal to 1 acre? <i>If YES, obtain coverage under the state's Construction General Permit and submit to the municipality a copy of your Notice of Intent. See: www.swrcb.ca.gov/water_issues/programs/stormwater/construction.shtml.</i>	<input checked="" type="checkbox"/>	
I.B.2.h	Is this a Special Project or does it have the potential to be a Special Project?	<input type="checkbox"/>	F
I.B.2.i	Is this project a High Priority Site? (Determined by the Permitting Jurisdiction. High Priority Sites can include those located in or within 100 feet of a sensitive habitat, ASBS, or body of water, or on sites with slopes, and are subject to monthly inspections from Oct 1 to April 30.)	<input type="checkbox"/>	G
B.2.10	For Municipal Staff Use Only (Alternative Certification, O&M Submittals, Project Close Out)	<input type="checkbox"/>	G

⁵ Per the MRP, pavement that meets the following definition of pervious pavement is NOT an impervious surface. Pervious pavement is defined as pavement that stores and infiltrates rainfall at a rate equal to immediately surrounding unpaved, landscaped areas, or that stores and infiltrates the rainfall runoff volume described in Provision C.3.

⁶ “Retained” means to leave existing impervious surfaces in place, unchanged; “Replaced” means to install new impervious surface where existing impervious surface is removed anywhere on the same property; and “Created” means the amount of new impervious surface being proposed which exceeds the total existing amount of impervious surface at the property.

⁷ Uncovered parking includes the top level of a parking structure.

Worksheet A

C6 – Construction Stormwater BMPs
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Identify Plan sheet showing the appropriate construction Best Management Practices (BMPs) used on this project:
(Applies to all projects with earthwork)

Yes	Plan Sheet	Best Management Practice (BMP)
<input checked="" type="checkbox"/>	Reclamation Plan Sheet 6	Control and prevent the discharge of all potential pollutants, including pavement cutting wastes, paints, concrete, petroleum products, chemicals, wash water or sediments, rinse water from architectural copper, and non-stormwater discharges to storm drains and watercourses.
<input checked="" type="checkbox"/>	Sheet 6	Store, handle, and dispose of construction materials/wastes properly to prevent contact with stormwater.
<input checked="" type="checkbox"/>	Sheet 6	Do not clean, fuel, or maintain vehicles on-site, except in a designated area where wash water is contained and treated.
<input checked="" type="checkbox"/>	Sheet 6	Train and provide instruction to all employees/subcontractors re: construction BMPs.
<input checked="" type="checkbox"/>	Sheet 5	Protect all storm drain inlets in vicinity of site using sediment controls such as berms, fiber rolls, or filters.
<input checked="" type="checkbox"/>	Sheet 5	Limit construction access routes and stabilize designated access points.
<input checked="" type="checkbox"/>	Sheet 4	Attach the San Mateo Countywide Water Pollution Prevention Program's construction BMP plan sheet to project plans and require contractor to implement the applicable BMPs on the plan sheet.
<input checked="" type="checkbox"/>	Sheet 6	Use temporary erosion controls to stabilize all denuded areas until permanent erosion controls are established.
<input checked="" type="checkbox"/>	Sheet 6	Delineate with field markers clearing limits, easements, setbacks, sensitive or critical areas, buffer zones, trees, and drainage courses.
<input checked="" type="checkbox"/>	Revegetation Section of the written Reclamation Plan Report by Zentner & Zentner	Provide notes, specifications, or attachments describing the following: <ul style="list-style-type: none"> ▪ Construction, operation and maintenance of erosion and sediment controls, include inspection frequency; ▪ Methods and schedule for grading, excavation, filling, clearing of vegetation, and storage and disposal of excavated or cleared material; ▪ Specifications for vegetative cover & mulch, include methods and schedules for planting and fertilization; ▪ Provisions for temporary and/or permanent irrigation.
<input checked="" type="checkbox"/>	Sheet 6	Perform clearing and earth moving activities only during dry weather.
<input checked="" type="checkbox"/>	Sheet 6	Use sediment controls or filtration to remove sediment when dewatering and obtain all necessary permits.
<input checked="" type="checkbox"/>	Sheet 5	Trap sediment on-site, using BMPs such as sediment basins or traps, earthen dikes or berms, silt fences, check dams, soil blankets or mats, covers for soil stock piles, etc.
<input checked="" type="checkbox"/>	Sheet 5	Divert on-site runoff around exposed areas; divert off-site runoff around the site (e.g., swales and dikes).
<input checked="" type="checkbox"/>	Sheet 5	Protect adjacent properties and undisturbed areas from construction impacts using vegetative buffer strips, sediment barriers or filters, dikes, mulching, or other measures as appropriate.

Worksheet B

C3 - Source Controls

Select appropriate source controls and identify the detail/plan sheet where these elements are shown.

Yes	Detail/Plan Sheet No.	Features that require source control measures	Source Control Measures (Refer to Local Source Control List for detailed requirements)
<input checked="" type="checkbox"/>	Recl. Plan, Sheet 2	Storm Drain	Mark on-site inlets with the words "No Dumping! Flows to Bay" or equivalent.
<input type="checkbox"/>		Floor Drains	Plumb interior floor drains to sanitary sewer ⁸ [or prohibit].
<input type="checkbox"/>		Parking garage	Plumb interior parking garage floor drains to sanitary sewer. ⁸
<input type="checkbox"/>		Landscaping	<ul style="list-style-type: none"> ▪ Retain existing vegetation as practicable. ▪ Select diverse species appropriate to the site. Include plants that are pest- and/or disease-resistant, drought-tolerant, and/or attract beneficial insects. ▪ Minimize use of pesticides and quick-release fertilizers. ▪ Use efficient irrigation system; design to minimize runoff.
<input type="checkbox"/>		Pool/Spa/Fountain	Provide connection to the sanitary sewer to facilitate draining. ⁸
<input type="checkbox"/>		Food Service Equipment (non-residential)	Provide sink or other area for equipment cleaning, which is: <ul style="list-style-type: none"> ▪ Connected to a grease interceptor prior to sanitary sewer discharge.⁸ ▪ Large enough for the largest mat or piece of equipment to be cleaned. ▪ Indoors or in an outdoor roofed area designed to prevent stormwater run-on and run-off, and signed to require equipment washing in this area.
<input type="checkbox"/>		Refuse Areas	<ul style="list-style-type: none"> ▪ Provide a roofed and enclosed area for dumpsters, recycling containers, etc., designed to prevent stormwater run-on and runoff. ▪ Connect any drains in or beneath dumpsters, compactors, and tallow bin areas serving food service facilities to the sanitary sewer.⁸
<input type="checkbox"/>		Outdoor Process Activities ⁹	Perform process activities either indoors or in roofed outdoor area, designed to prevent stormwater run-on and runoff, and to drain to the sanitary sewer. ⁸
<input type="checkbox"/>		Outdoor Equipment/ Materials Storage	<ul style="list-style-type: none"> ▪ Cover the area or design to avoid pollutant contact with stormwater runoff. ▪ Locate area only on paved and contained areas. ▪ Roof storage areas that will contain non-hazardous liquids, drain to sanitary sewer⁸, and contain by berms or similar.
<input type="checkbox"/>		Vehicle/ Equipment Cleaning	<ul style="list-style-type: none"> ▪ Roofed, pave and berm wash area to prevent stormwater run-on and runoff, plumb to the sanitary sewer⁸, and sign as a designated wash area. ▪ Commercial car wash facilities shall discharge to the sanitary sewer.⁸
<input type="checkbox"/>		Vehicle/ Equipment Repair and Maintenance	<ul style="list-style-type: none"> ▪ Designate repair/maintenance area indoors, or an outdoors area designed to prevent stormwater run-on and runoff and provide secondary containment. Do not install drains in the secondary containment areas. ▪ No floor drains unless pretreated prior to discharge to the sanitary sewer.⁸ ▪ Connect containers or sinks used for parts cleaning to the sanitary sewer.⁸
<input type="checkbox"/>		Fuel Dispensing Areas	<ul style="list-style-type: none"> ▪ Fueling areas shall have impermeable surface that is a) minimally graded to prevent ponding and b) separated from the rest of the site by a grade break. ▪ Canopy shall extend at least 10 ft. in each direction from each pump and drain away from fueling area.
<input type="checkbox"/>		Loading Docks	<ul style="list-style-type: none"> ▪ Cover and/or grade to minimize run-on to and runoff from the loading area. ▪ Position downspouts to direct stormwater away from the loading area. ▪ Drain water from loading dock areas to the sanitary sewer.⁸ ▪ Install door skirts between the trailers and the building.
<input type="checkbox"/>		Fire Sprinklers	Design for discharge of fire sprinkler test water to landscape or sanitary sewer. ⁸
<input type="checkbox"/>		Miscellaneous Drain or Wash Water	<ul style="list-style-type: none"> ▪ Drain condensate of air conditioning units to landscaping. Large air conditioning units may connect to the sanitary sewer.⁸ ▪ Roof drains from equipment drain to landscaped area where practicable. ▪ Drain boiler drain lines, roof top equipment, all wash water to sanitary sewer.⁸
<input type="checkbox"/>		Architectural Copper Rinse Water	Drain rinse water to landscaping, discharge to sanitary sewer ⁸ , or collect and dispose properly offsite. See flyer "Requirements for Architectural Copper."

⁸ Any connection to the sanitary sewer system is subject to sanitary district approval.

⁹ Businesses that may have outdoor process activities/equipment include machine shops, auto repair, industries with pretreatment facilities.

Worksheet C

Low Impact Development – Site Design Measures

Select Appropriate Site Design Measures (Required for C.3 Regulated Projects; all other projects are encouraged to implement site design measures, which may be required at municipality discretion.) Projects that create and/or replace 2,500 – 10,000 sq.ft. of impervious surface, and stand-alone single family homes that create/replace 2,500 sq.ft. or more of impervious surface, must include **one of Site Design Measures a through f** (Provision C.3.i requirements).¹⁰ Larger projects must also include applicable Site Design Measures g through i. Consult with municipal staff about requirements for your project.

Select appropriate site design measures and Identify the Plan Sheet where these elements are shown.

Yes	Plan Sheet Number	
<input type="checkbox"/>		a. Direct roof runoff into cisterns or rain barrels and use rainwater for irrigation or other non-potable use.
<input type="checkbox"/>		b. Direct roof runoff onto vegetated areas.
<input type="checkbox"/>		c. Direct runoff from sidewalks, walkways, and/or patios onto vegetated areas.
<input type="checkbox"/>		d. Direct runoff from driveways and/or uncovered parking lots onto vegetated areas.
<input type="checkbox"/>		e. Construct sidewalks, walkways, and/or patios with pervious or permeable surfaces. Use the specifications in the C3 Technical Guidance (Version 4.1) downloadable at www.flowstobay.org/newdevelopment .
<input type="checkbox"/>		f. Construct bike lanes, driveways, and/or uncovered parking lots with pervious surfaces. Use the specifications in the C3 Technical Guidance (Version 4.1) downloadable at www.flowstobay.org/newdevelopment .
<input checked="" type="checkbox"/>	Sheet C1.0	g. Limit disturbance of natural water bodies and drainage systems; minimize compaction of highly permeable soils; protect slopes and channels; and minimize impacts from stormwater and urban runoff on the biological integrity of natural drainage systems and water bodies.
<input checked="" type="checkbox"/>	Sheet C1.0	h. Conserve natural areas, including existing trees, other vegetation and soils.
<input checked="" type="checkbox"/>	Sheet C1.0	i. Minimize impervious surfaces.

Regulated Projects can also consider the following site design measures to reduce treatment system sizing:

Yes	Plan Sheet Number	
<input type="checkbox"/>		j. Self-treating area (see Section 4.2 of the C.3 Technical Guidance)
<input type="checkbox"/>		k. Self-retaining area (see Section 4.3 of the C.3 Technical Guidance)
<input type="checkbox"/>		l. Plant or preserve interceptor trees (Section 4.1, C.3 Technical Guidance)

¹⁰ See MRP Provision C.3.a.i.(6) for non-C.3 Regulated Projects, C.3.c.i.(2)(a) for Regulated Projects, C.3.i for projects that create/replace 2,500 to 10,000 sq.ft. of impervious surface and stand-alone single family homes that create/replace 2,500 sq.ft. or more of impervious surface.