

NCTD

810 Mission Avenue
Oceanide, CA 92054
760/967-2828
Fax: 760/967-2001
www.gonctd.com

November 7, 2007

Mr. John H. Robertus
Executive Officer
Attn: Ben Neil
California Regional Water Quality Control Board,
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123

2007 NOV - 7 P 2:53
SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD

Re: Required Technical Report in Response Notice of Violation NO. R9-2007-0208, reference number CWU:10-3022900.02:neilb

Dear Mr. Robertus:

The North County Transit District ("NCTD") respectfully submits this letter, and attached Required Technical Report ("RTR") in response to the October 26, 2007 Notice of Violation and Request for Technical Report ("NOV") issued to NCTD by the California Regional Water Quality Control Board, San Diego Region ("Regional Board"). This letter and its attachments address violations of NCTD's NPDES Storm Water Permit for Discharges Associated with Construction Activity ("Construction General Permit") alleged in the NOV and identified during an inspection of NCTD's Sprinter Mainline Project ("Sprinter") construction site on October 5, 2007.

The NOV requests that the RTR include "a detailed explanation describing reasons for the continual noncompliance" at the Sprinter site. It further requests a description of the measures taken to prevent future violations at the site, and copies of all site storm water inspection reports since October 1, 2007. All of the requested information is included in this letter and in the attached RTR, as is documentation of current conditions at the Sprinter site.

As detailed in the attached RTR, NCTD either has already or will be taking steps to ensure that its construction sites remain in full compliance with the terms of the Construction General Permit. These steps include, but are not limited to:

- 1) Installing silt fences and other BMPs to prevent sediment discharges to Loma Alta Creek.
- 2) Replacing fiber rolls along the Sprinter site perimeter.
- 3) Installing new gravel bags or filter fabric around storm drain inlets.



SPRINTER



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- 2) Replacing fiber rolls along the Sprinter site perimeter.
- 3) Installing new gravel bags or filter fabric around storm drain inlets.

The word "SPRINTER" is written in a large, bold, black, sans-serif font. Above the letters, there is a decorative horizontal band featuring a series of small, stylized icons or silhouettes of people and structures, possibly representing a transit system or community.

- 4) Replacing tracking control BMPs at the identified construction site entrance/exits and adding additional aggregate and rumble strips where necessary.
- 5) Replacing silt fencing around the stockpiles at NCTD's Mar Vista Drive storage yard.

In previous correspondence to the Regional Board, NCTD stated that it views the site inspection process and any other feedback it receives from the Regional Board as an opportunity to improve its storm water management program. NCTD maintains that position. Although it is often difficult to ensure that all of its contractors and subcontractors are abiding by both the letter and spirit of the Construction General Permit, it is NCTD's goal to continually improve storm water compliance at the Sprinter site.

To a large extent, NCTD has achieved that goal. NCTD conducts routine inspections, and has spent hundreds of thousands of dollars maintaining storm water and sediment control BMPs throughout the 22 mile-long Sprinter site. When deficiencies have been brought to NCTD's attention, it has remedied them, and taken the measures necessary to maintain compliance. The fact that the Regional Board found what can only be described as minimal, superficial violations on any part of the site previously identified by the Regional Board as non-compliant is indicative of NCTD's efforts.

While the NOV alleges that the Sprinter site is continually non-compliant, many of the alleged violations are either beyond the boundaries of the Sprinter site, are not attributable to activities at the Sprinter site, or involve inaccurate assessments of site conditions. Many of these oversights could have been avoided had the Regional Board contacted NCTD prior to conducting the October 5, 2007 inspection. Maintaining a 22 mile-long construction site is not without its challenges, and NCTD's best efforts at compliance may occasionally be insufficient to fully maintain all BMPs on the Sprinter site. However, back up systems are in place to ensure that even on these rare occasions, the Sprinter's impacts on water quality are kept to a minimum.

NCTD views the Regional Board as a partner in NCTD's ongoing efforts to limit any impacts that the Sprinter site may have on local water quality conditions. In light of NCTD's goals, and concerns, NCTD would like to continue to work with the Regional Board to assess compliance at the Sprinter site. To that end, NCTD respectfully requests that the Regional Board contact NCTD before inspecting the Sprinter site. This will allow NCTD staff to accompany the Regional Board inspectors, and ensure that they are provided with an accurate (both positive, and where applicable, negative) depiction of compliance at the Sprinter site.

Prior contact and consultation was in fact the practice of the RWQCB at the commencement of the Sprinter project, and NCTD believes that this type of communication furthers the goal of permit compliance. We also believe this approach will actually reduce the amount of time and level of effort expended by your staff while on inspections.

Our staff looks forward to working with you to discuss and resolve any further issues as we consider iterative improvements to NCTD's water quality program. If you should have any questions, or wish to inspect our site at any time, please do not hesitate to contact me directly at (760) 737-8625 ext 257.

Lastly, per the Regional Board's request, I submit the following statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possibility of fine and imprisonment for knowing violations.

Very Truly Yours,



Don Bullock
Sprinter Project Manager
North County Transit District

cc: Karen King, Executive Officer, NCTD
Tom Lichterman, Director of Rail Services

**REQUIRED TECHNICAL REPORT IN RESPONSE TO SAN DIEGO
REGIONAL WATER QUALITY CONTROL BOARD NOTICE OF VIOLATION
R9-2007-208**

I. RESPONSE TO VIOLATIONS WITHIN THE CITY OF ESCONDIDO, SAN MARCOS, AND OCEANSIDE

Pursuant to Water Quality Order No. 99-08, Special Provision C.2, Section A.8:

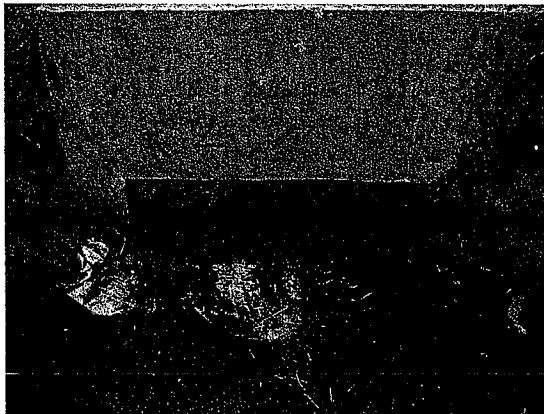
Observation 1: Your site lacked sediment controls along the site perimeter and at the storm drain inlets. Several inlets had insufficient numbers of gravel bags or other inlet protection practices. Other inlets had gravel bags that were not maintained properly. Silt fences in several places were not maintained to provide perimeter protection. This violation was observed within the Cities of Escondido, San Marcos, and Oceanside.

Immediate Actions: NCTD Contractors performed maintenance to the existing Best Management Practices (BMPs) at the respective inlets. The broken gravel bags were replaced, more gravel bags were placed around the drainage inlet to provide the necessary level of protection for the inlet and trash accumulated near the inlets were removed.

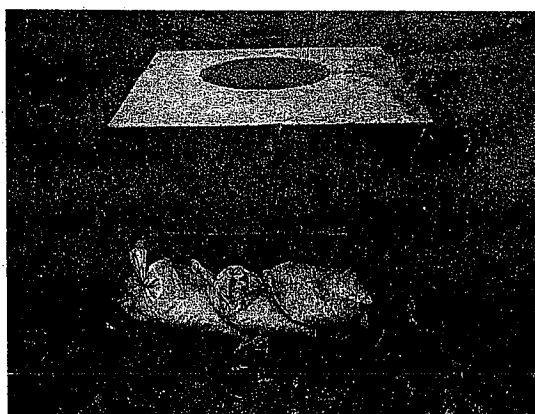
NOV Photo 2

The inlet shown in report had several gravel bags at the opening during the inspection although they were in need of maintenance. The “white trash” mentioned in the report is actually an exposed portion of an existing gravel bag. Also included is a photo of the inlet after being maintained on October 30th.

BEFORE:



AFTER:



NOV Photos 3& 4

The headwall inlet show in NOV Photos 3 and 4 appears to be the same inlet just taken at different angles. This inlet was also mentioned as being “without sediment controls” although there were gravel bags at the opening in need of maintenance. Also included is a photo of the inlet after being maintained on October 30th.

BEFORE:



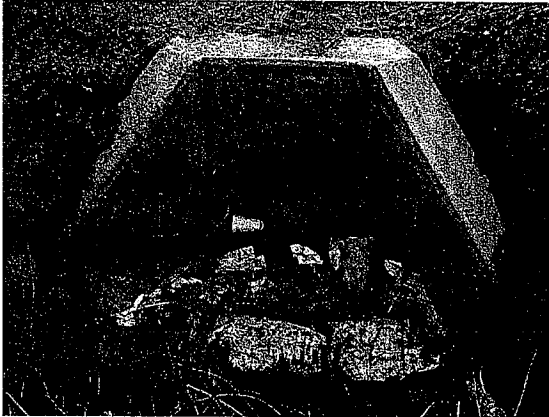
AFTER



NOV Photo 5

This inlet in NOV Photo 5 was also mentioned as being “without sediment controls” although there were gravel bags at the opening in need of maintenance. Also included is a photo of the inlet after being maintained on October 30th.

BEFORE

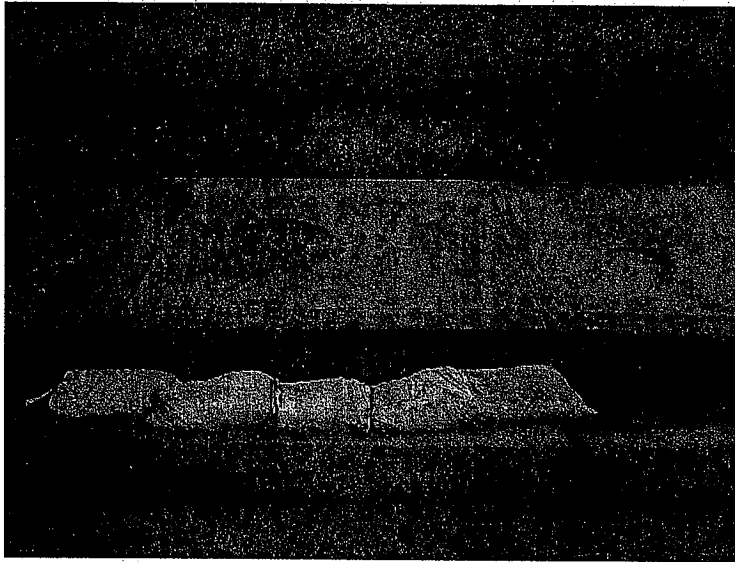


AFTER



NOV Photo 7

The inlet in NOV Photo 7 had gravel bags placed in the gutter but they had become weathered and needed replacement. Note that this inlet flows to the outlet shown in photo 9, which is further protected for sediment control by additional gravel bag check dams located in the earthen ditch. The photo below shows the inlet after being maintained on October 30th.



NOV Photo 8

The inlet shown in NOV Photo 8 shows an inlet with gravel bags that need replacement. The photo below shows the inlet after being maintained on October 30th.



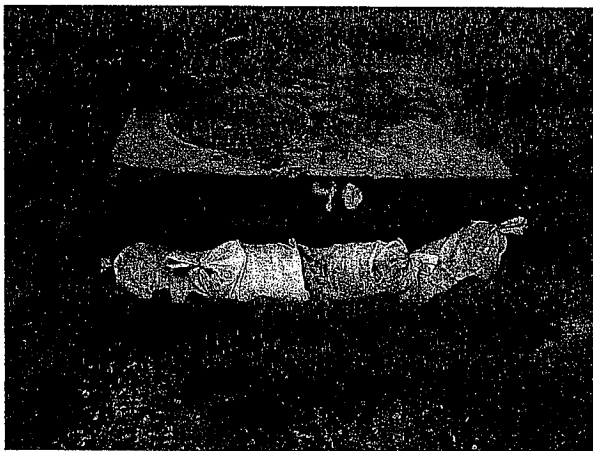
NOV Photo 9

The specified inlet in NOV Photo 9 is actually a type 'A' *outlet* structure which drains into the adjacent earthen ditch. The existing curb inlet shown in photo 7 of the NOV drains into this outlet making sediment protections not required. Silt build up at the outlet was maintained by NCTD contractor crews on October 30th.



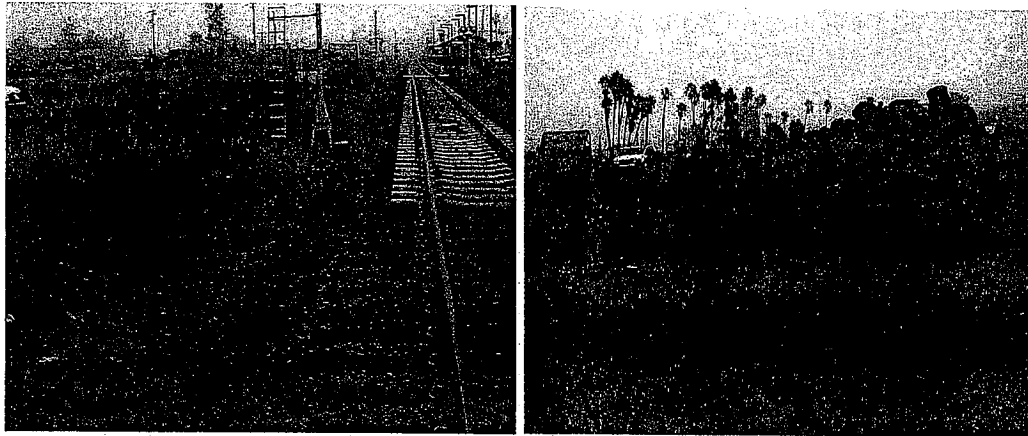
NOV Photo 11

The storm drain inlet shown in NOV Photo 11 had existing BMP's that required maintenance. A contractor for the City of Escondido was performing work throughout the Citricado intersection. This had a negative impact on the existing BMP's causing them to need maintenance. The photo below shows the inlet after being maintained on October 30th by NCTD contractor crews.



NOV Photos 12 through 15

NOV Photos 12 through 15 depict several areas of silt fence that has fallen down or been torn. The silt fence in these areas is not necessary and therefore was removed by NCTD contractors. Additionally, this parking lot is currently a staging area for jobsite debris until the grading operations begin the week of November 5th, 2007. At that time, all debris from this lot will be loaded into dump trucks and hauled to the nearest disposal facility. No permanent drainage structures have been constructed in this parking lot which could potentially carry the run off into the adjacent storm drain systems. In this region the run off from a potential rain event would simply travel to the low lying areas on the side of the track bed. The photos below shows the site after the silt fence had been removed on October 30th.



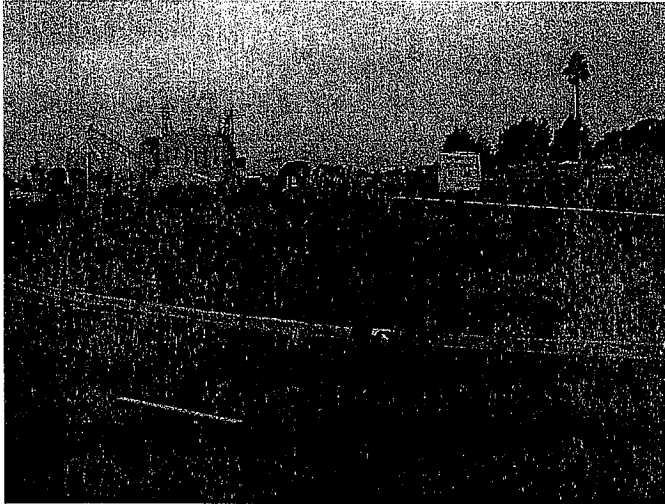
NOV Photos 18 & 19

The area depicted in NOV Photos 18 & 19 belong to the City of San Marcos, and are not part of the Sprinter Project site. Nonetheless, as shown in the photo below the old silt fence has been replaced with new fiber roll along the edge of the traveled way. The fiber roll placed by NCTD contractors will help to contain sediment from leaving the site in the event of rainfall.



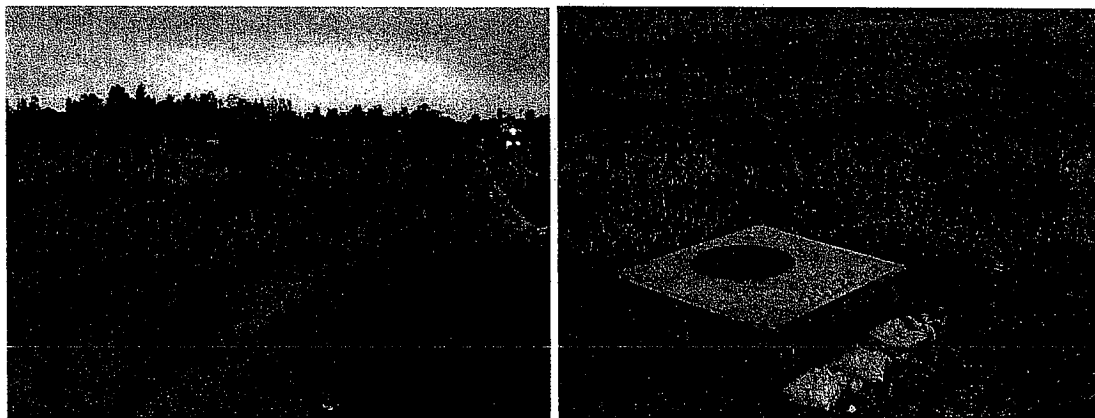
NOV Photo 20

The gravel bags shown in NOV Photo 20 were placed by a contractor working for the City of San Marcos. The area is not part of the Sprinter Project site, and NCTD is not required to maintain it. As depicted in the below photo, this area is quite a distance from the NCTD right of way fencing.



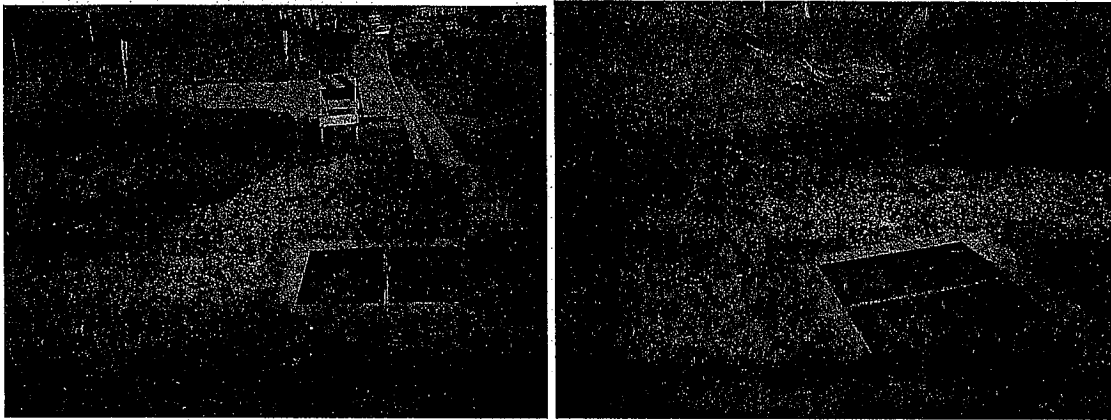
NOV Photos 21 & 22

The drainage inlet shown in NOV Photos 21 and 22 is approximately 80 feet outside of NCTD's right of way and is not part of the Sprinter Project site. This area appears to be an easement road maintained by the City of San Marcos for access to the existing storm drain and sewer manholes. However, NCTD contractors did place sediment protection around in the inlet on October 30th while performing other SWPPP activities in the area as seen in the photo below.



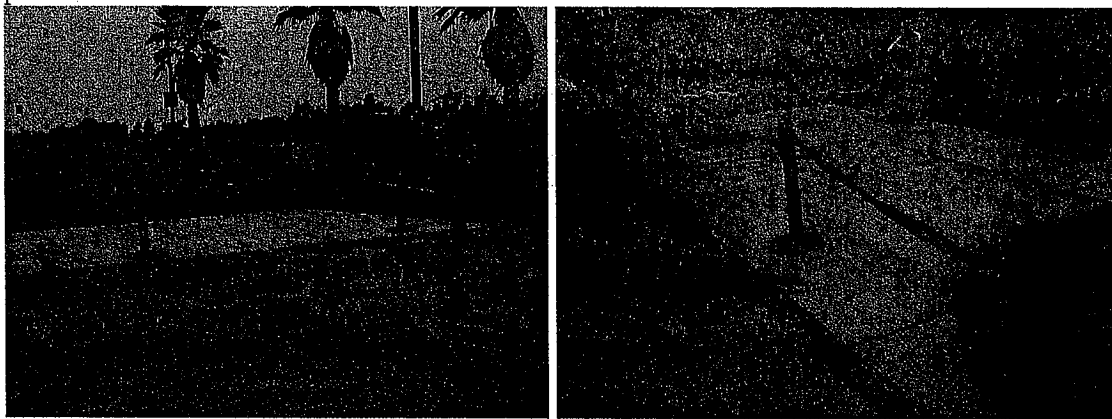
NOV Photos 23 & 24

The inlet shown in NOV Photos 23 and 24 had gravel bags around the perimeter that had been damaged by traffic and were in need of replacement. Since this is a high traffic area, NCTD contractor crews wrapped the grates with layers of filter fabric in order to keep sediment out of the inlet. The photo below shows the current status on the inlet after being maintained on October 30th.



NOV Photos 29 & 30

The inlet shown in NOV Photos 29 and 30 is at the entrance/exit at the Melrose Parking Lot. This inlet in photo 30 is abandoned and a permanent concrete driveway is completed. Current condition of this driveway as of October 30th can be seen in the photos below.



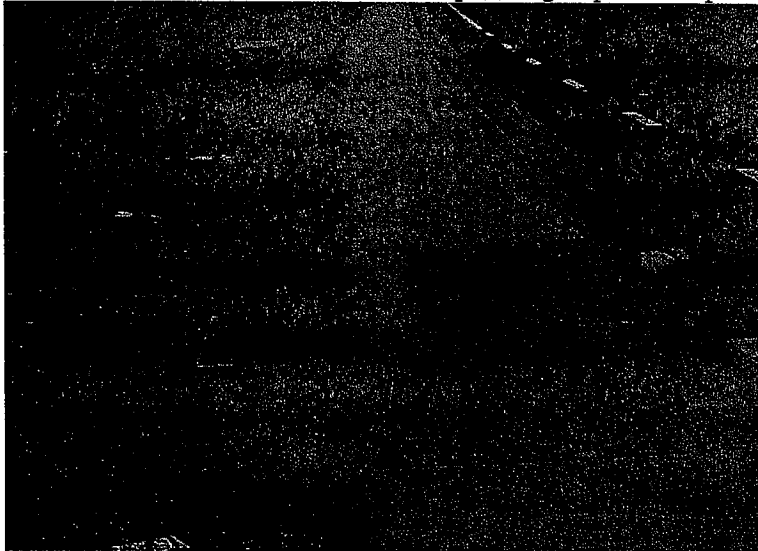
NOV Photo 34

The inlet shown in NOV Photo 34 had an existing gravel bag but was noted as being an inadequate sediment control. NCTD contractors placed additional bags at this location on October 30th as seen in the photo below.



NOV Photo 35

The fiber rolls shown in NOV Photo 35 had been run over by employees using a non-designated driveway at the Rancho del Oro parking lot. These fiber rolls were replaced with new rolls on October 30th by NCTD contractors as seen below. NCTD's contractors are going to stabilize this area with plantings upon completion of the Sprinter Project.



Site Status: NCTD contractors are continuing to monitor all the BMPs to ensure they are in good working order. The fiber rolls and gravel bags are all in good condition and working properly, and no sediment has been discharged off site.

Observation 2: At the intersection of Washington Avenue and Mission Road, a large area of soil was exposed with no sediment control BMPs or soil stabilization (Photo 6).

NOV Photo 6

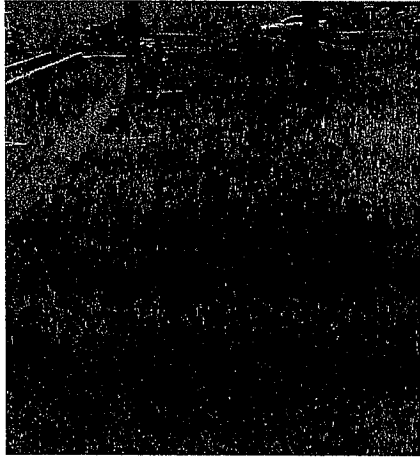
NOV Photo 6 identifies a large bare area of dirt at the intersection of Mission Rd. and Washington Ave. as having “no sediment protections or soil stabilization.” NCTD may hydroseed this area for aesthetic purposes along the bikepath, however, it should be noted that this area is not part of the Sprinter Project site, and NCTD is not required to maintain it.



Observation 3: At the Nordahl Road Station, bare soil north of the tracks does not have sediment controls or soil stabilization.

NOV Photo 16

The location shown in NOV Photo 16 was an active grading area in which NCTD contractor crews were excavating soil in preparation for a concrete bike path. This area had previously been fine graded with class II base. However, a contractor working for the City left spoils behind when they completed work at the intersection. A current photo of the area is provided below showing the final preparations before concrete placement which is scheduled for the week of November 5th



II. RESPONSE TO VIOLATIONS WITHIN THE CITY OF ESCONDIDO AND CITY OF OCEANSIDE

Pursuant to Water Quality Order No. 00-08, Special Provision C.2, Section A.8

Observation 1: Construction site exits had inadequate BMPs to effectively reduce the tracking of sediment onto paved roads. Significant sediment tracking was observed onto North Citracado Parkway, Rancho Del Oro Road, and onto private parking lots. This violation was observed within the Cities of Escondido and Oceanside.

Immediate Action: NCTD Contractors added additional aggregate to the tracking control BMPs at North Citracado Parkway. In order to eliminate the tracking, NCTD contractors placed rumble plates and additional ballast to levels that met the required BMP specifications for length width and depth.

NOV Photo 10

The construction entrance/exit shown in NOV Photo 10 has ballast spread out for approximately 50 feet before the entrance however; there is a short gap of dirt just behind the sidewalk. NCTD contractors did place a construction entrance which was removed by a City contractor performing work at the Citricado intersection. Rumble plates and

additional ballast were replaced at this location on October 30th as seen in the photo below. The jobsite street sweeper also makes multiple passes through this area on a daily basis.



NOV Photo 32

The entrance/exit at Rancho del Oro shown in NOV Photo 32 is actually a permanent driveway under construction and was not designated as an entrance/exit point but, was used incorrectly by site crews. The current condition of this driveway as of October 30th can be seen in the photo below. This driveway and adjoining sidewalk are scheduled to be poured on November 7th.



NOV Photo 37

The construction entrance/exit at the College Station parking lot was cited for sediment tracking. Since the College storage yard is on existing pavement a typical construction entrance is not well suited for this application. Therefore our street sweeper focuses on this area of the job on a daily basis ensuring that the sediment tracking is controlled on an hourly basis.



Site Status 1: NCTD contractors are continuing to monitor all of the BMPs to ensure they are in good working order. The tracking control BMPs are all in good condition and working properly, and no sediment has been discharged off site.

III. RESPONSE TO VIOLATIONS WITHIN THE CITY OF OCEANSIDE

Pursuant to Water Quality Order No. 00-08, Special Provision C.2, Section A.6

Observation: Your site lacked erosion control such as bonded fiber matrix, mulch, hydroseed, or blankets for several slopes, including slopes directly adjacent to Loma Alta Creek. This violation was observed within the City of Oceanside.

Immediate Action 1: NCTD Contractors installed silt fences and other sediment control BMPs to provide the proper level of protection for Loma Alta Creek.

NOV Photos 26, 27 & 28

The slopes shown in NOV Photos 26 through 28 were cited for incorrect installation of fiber roll and lack of erosion controls. With regard to the slope depicted in NOV Photo 26, the week of November 5, 2007, an NCTD contractor is scheduled to recompact the slope on the north side of the tracks, reinstall fiber rolls and spray permanent hydroseed. The slopes depicted in Photos 27 and 28 are scheduled to be stabilized with fiber rolls and permanent hydroseed.

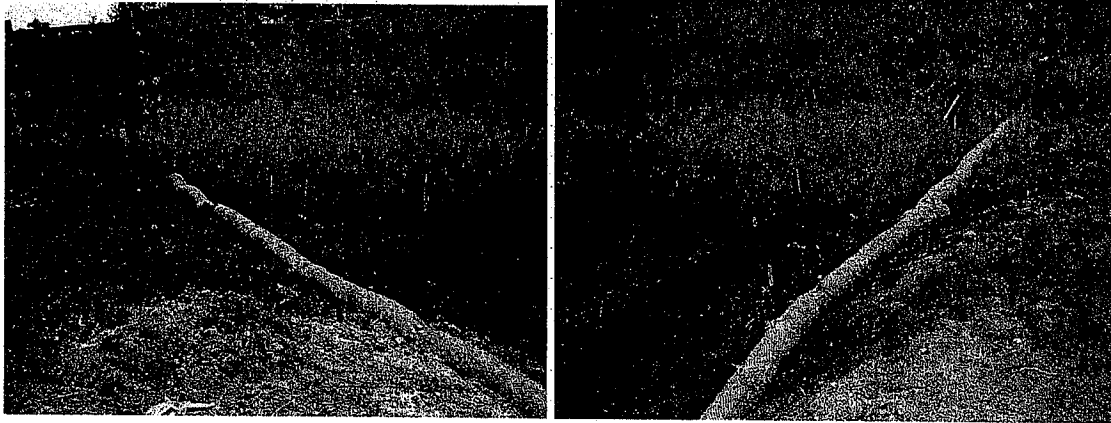
NOV Photo 33

The slope shown adjacent to the Loma Alta Creek in NOV Photo 33 was cited for having missing silt fence near the vicinity of the pedestrian bridge. The silt fence was actually removed in this area in order to allow for re-vegetation and planting. In the photo below taken on October 30th, lathe and ribbons can be seen designating the areas that had been re-vegetated. The silt fence was re-installed at this location after the planting was complete.



NOV Photos 36 & 39

The slope shown in NOV photos 36 and 39 was cited for not having erosion controls implemented. In the time frame of the NOV there was significant work occurring in this area. The primary Sprinter contractor and several subcontractors were working to connect the utility lines running underneath the bridge as well as re-vegetation work being completed along the slope. NCTD contractors had silt fence installed at the base of the slope and was awaiting the surrounding work to be completed on the slope before implementing further erosion and sediment controls. NCTD contractors installed an additional row of fiber roll on October 30th & plans to have the slope hydroseeded by the week of November 5th.



Site Status 1: Recognizing that sediment is an ongoing problem for the creek, NCTD contractors will pay extra attention to ensure that the recently upgraded BMPs are diligently maintained.

IV. RESPONSE TO VIOLATIONS WITHIN THE CITY OF ESCONDIDO AND CITY OF OCEANSIDE

Pursuant to Water Quality Order No. 00-08, Special Provision C.2, Section A.5b.4 & b.5

Observation 1: Your site had inadequate BMPs to minimize or eliminate the exposure of storm water to construction waste, trash, and materials. Trash containment was nonexistent in most areas of the construction site. Soil stockpiles at the Mar Vista Drive storage yard and at the College Boulevard Station lacked containment and coverage to minimize contact with storm water runoff. This violation was observed within the Cities of Escondido and Oceanside.

Immediate Action 1: All areas where trash and other construction waste is stored will be protected in the event of rain by implementation of fiber rolls, gravel bag check dams, or plastic covers to eliminate the possibility of erosion or storm water contamination and construction trash will continue to be deposited into the trash containers on site.

NOV Photo 17

The debris shown in NOV Photo 17 is a combination of both NCTD contractors and a public utility company who had performed work in the area. A current photo of the area after NCTD contractors cleaned the area up is shown below.



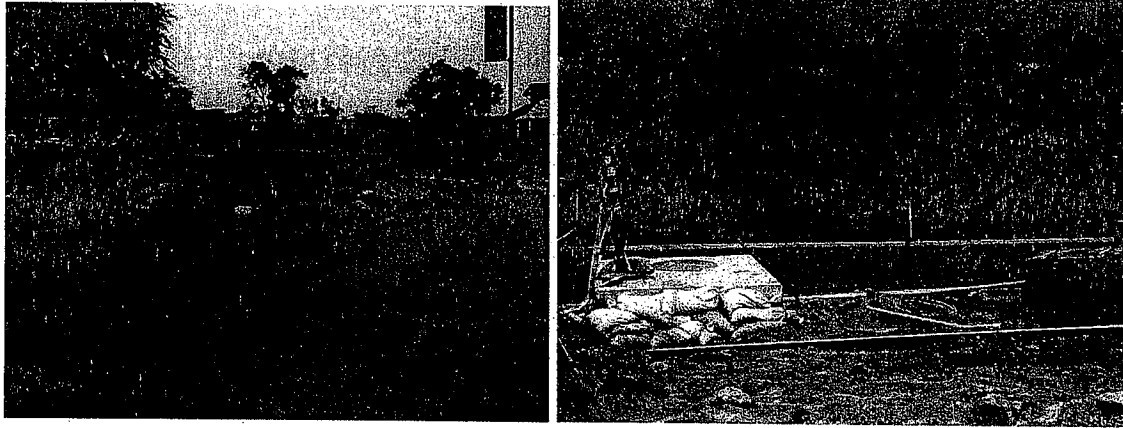
NOV Photo 25

The stockpile shown in NOV Photo 25 is an active pile located in the Mar Vista lot. There was silt fence placed around the perimeter of the pile but, a portion of the silt fence had to be removed to allow access for trucks and equipment load and haul out the material. Additionally, the photo below shows the BMP measures (foreground) in place on the downhill side of the stockpile (background). There is an initial row of silt fence along the west end of the lot and a final desilting basin and silt fence surrounding the only inlet in the area. NCTD contractors have a nearby supply of silt fence which is ready to be installed in the event of an upcoming rain event.



NOV Photo 38

The construction yard at the College Station was cited for having uncovered and/or contained stockpiles and debris piles. In the event rainfall is forecasted, NCTD contractors have material and manpower readily available to install around the perimeter of the stockpiles. Additionally, there is only one storm drain inlet in the area which is heavily bagged and blocked along with a newly constructed block wall which creates a dam for any potential run offs. The photos below show the current status of the College Station parking lot.



NOV Photo 31

The debris pile shown in photo 31 is located in the far west end of the Melrose storage yard. Debris is staged at this location until it can be loaded and hauled to a nearby disposal facility. In the event rainfall is forecasted, NCTD contractors have material and manpower readily available to install around the perimeter of the stockpile. This debris hauling is scheduled for the week of November 5th.

Site Status 1: NCTD contractors are continuing to monitor all of the BMPs to ensure they are in good working order. The sediment fences and other sediment control BMPs are all in good condition and working properly, and no sediment has been discharged off site.

Attachment H

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION			
Project Name	NCTD Sprinter Mainline Construction Project		
Project N ^o	CU-01, IFB 04032		
Contractor	West Coast Rail Constructors		
Inspector's Name	Rick Felkins		
Inspector's Title	Engineer		
Signature	<i>RJ Felkins</i>		
Date of Inspection	10/4/07		
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event		<input type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other: Weekly Inspection
Season (Check Applicable)	<input checked="" type="checkbox"/> Rainy <input type="checkbox"/> Non-Rainy		
Storm Data	Storm Start Date & Time:	N/A <i>e</i>	Storm Duration (hrs): N/A <i>e</i>
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. <i>e</i>	Approximate Rainfall Amount (inches) N/A <i>e</i>

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE	
Total Project Area	<u>281.2</u> Acres
Field Estimate of Active DSAs	<u>270</u> Acres
Field Estimate of Non-Active DSAs	<u>281.2</u> Acres

Notes:

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			X	PERMANENT FENCING HAS BEEN INSTALLED / BEING INSTALLED
Location: CROUCH X-ING TO RDO X-ING	X			A FEW THOUSAND FEET OF WETLAND FENCE REMAINS.
Location:				
Location:				
Location:				
Erosion Control				
Does the applied temporary erosion control provide 100% coverage for the affected areas?	X			
Are any non-vegetated areas that may require temporary erosion control?		X		HYDROSEEDER IS WORKING WAY EAST THROUGH PROJECT.
Is the area where erosion controls are used required free from visible erosion?				
Location: CROUCH X-ING TO RDO X-ING		X		GULLIES HAVE DEVELOPED ON SOUTH SIDE OF TRACKS DUE TO OFFSITE FLOW.
Location: UNDER I-15 NEAR J.W. X-ING		X		RUTS HAVE DEVELOPED FROM BRIDGE RUNOFF.
Location: MAR VISTA X-ING TO SANTA FE		X		VARIOUS LOCATIONS OF OFFSITE DRAINAGE HAVE ERODED SLOPES.
Location: WEST OF BUENA CREEK X-ING		X		RUNOFF FROM ADJACENT HOMES HAVE CUTTED SLOPE.
Temporary Linear Sediment Barriers (Silt Fence, Fiber Rolls, Sandbag Barriers, etc.)				
Are temporary linear sediment barriers properly installed, functional and maintained?	X			
Are temporary linear sediment barriers free of accumulated litter?	X			SOME AREAS IN NEED OF MAINTENANCE.
Is the built-up sediment less than 1/3 the height of the barrier?		X		
Are cross barriers installed where necessary and properly spaced?	X			
Location: EAST OF GUADALUPE X-ING	X			BAGS, FIBER ROLL IN PLACE BUT MAINT. NEEDED DUE TO OFFSITE FLOW.
Location: BUENA CREEK X-ING TO WEST	X			BUT KEEP AN EYE ON DUE TO OFFSITE FLOWS.
Location: ESCOBADO AVE. LOT	X			CONFIRM PERIMETER SILT FENCE IS IN OK CONDITION
Location: OTC	X			SILT FENCE ALONG CURB IN POOR SHAPE AND NOT NEEDED. PLEASE REMOVE.
Location: RDO TO BUR	X			MAINT. AND RESTATE FIBER ROLL ALONG DITCHES.
Location:				
Location:				
Location:				
Storm Drain Inlet Protection				
Are storm drain inlets internal to the project properly protected?	X			
Are storm drain inlet protection devices in working order and being properly maintained?		X		SOME INLETS BETWEEN ESCO. AVE AND MAR VISTA NEED FRESH BAGS.
Location: COLLEGE WEST APPROX. 200 FT	X			ADD BAGS TO INLET / BOTH SIDES
Location: ESCO. AVE LOT.	X			REPLACE BROKEN BAGS ALONG N/B #2 LANE @ INLET.
Location:				

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Sediment Basins				
Are basins designed in accordance with the requirements of the General Permit?	X			
Are basins maintained to provide the required retention/detention?	X			
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?	X			
Location:				
Location:				
Location:				
Location:				
Stockpiles				
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?	X			
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?		X		MOST STOCKPILES ARE ACTIVELY BEING USED.
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?	X			
Are required covers and/or perimeter controls in place?				
Location: MAR VISTA	X			PERIMETER SILT FENCE IN PLACE @ BOTTOM OF PILE - OPENINGS TO ALLOW FOR TRUCKS ARE PRESENT ON EAST SIDE.
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?				
Location: VARIOUS LOCATIONS PROJECT WIDE	X			EXCEPTION WOULD BE OFFSITE DRAINAGE.
Location: L -> CURRENTLY QUANTIFYING LOCATIONS.				
Location:				
Location:				
Tracking Control				
Is the entrance stabilized to prevent tracking	X			
Is the stabilized entrance inspected daily to ensure that it is working properly	X			
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	X			SWEEPER CONSTANTLY RUNNING PROJECT CLEANING UP AND TRACKING.
Are all paved areas free of visible sediment tracking or other particulate matter?	X			
Location: A-E, MAR VISTA ENTRANCE	X			BALLAST IS PLACED BUT IS SPILLING ONTO SIDEWALK. TALK W/ FOREMAN TO INSTALL PLATES
Location:				
Location:				
Location:				

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Wind Erosion Control				
Is dust control implemented?	X			
Location:				
Location:				
Location:				
Location:				
Dewatering Operations				
Are all one-time dewatering operations covered by the General Permit inspected before and as they occur and BMPs implemented as necessary during discharge?	X			
Is ground water dewatering handled in conformance with the dewatering permit issued by the RWQCB?	X			
Is required treatment provided for dewatering effluent?		X		NO CURRENT OPERATIONS
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	X			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?	X			
If no, are drip pans used?		X		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses and protected from run-on and runoff?	X			
Is wash water contained for infiltration/ evaporation and disposed of appropriately?	X			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?			X	NO WASHING OCCURRING
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	X			DAILY EQUIP. CHECK LISTS ARE PERFORMED ON ALL EQUIP.
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	X			

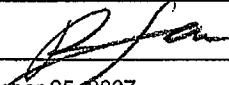
INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	X			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?	X			
Are bagged and boxed materials stored on pallets?	X			
Are hazardous materials and wastes stored in appropriate, labeled containers?	X			
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?	X			
Are temporary containment facilities free of spills and rainwater?	X			
Are temporary containment facilities and bagged/boxed materials covered?	X			
Are temporary concrete washout facilities designated and being used?	X			
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?	X			
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?	X			
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?	X			
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	X			
Is the site free of litter?	X			NO RANDOM LITTER - TRASH STOCK PILES BEING USED @ DESIGNATED AREAS.
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location: MALVERNA LOT	X			HAND OFF DEBRIS ILL@ NECESSARY.
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment				
Are temporary water body crossings and encroachments constructed appropriately?			X	
Does the project conform to the requirements of the 404 permit and/or 1601 agreement?			X	
Location:				
Location:				
Location:				

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Location:				
Illicit Connection/ Discharge				
Is there any evidence of illicit discharges or illegal dumping on the project site?		X		
If yes, has the Owner/Operator been notified?			X	
Location:				
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from visible pollutants?	X			
Are discharge points free of any significant sediment transport?	X			
Location:				
Location:				
Location:				
Location:				
SWPPP Update				
Does the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	X			
Are all BMPs shown on the water pollution control drawings installed in the proper location(s) and according to the details in the SWPPP?				
Location:				
Are there any other potential concerns at the site?				
Location: <i>NO COMPILING OFF SITE DRAINAGE LINES</i>			X	
Location:				
Storm Water Monitoring				
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?			X	
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?			X	
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			X	
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?			X	
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?			X	

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?			X	
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			X	
Were the BMPs maintained or replaced?			X	
Were soil amendments (e.g., gypsum, lime) used on the project?			X	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?			X	
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			X	
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			X	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?			X	

Attachment H

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION					
Project Name	NCTD Sprinter Mainline Rail Construction Project				
Project N ^o	CU-01, IFB 04032				
Contractor	West Coast Rail Constructors				
Inspector's Name	Rick Felkins				
Inspector's Title	Field Engineer				
Signature					
Date of Inspection	October 25, 2007				
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain		<input type="checkbox"/> After a rain event		
	<input type="checkbox"/> 24-hr intervals during extended rain		<input checked="" type="checkbox"/> Other: Weekly Report		
Season (Check Applicable)	<input checked="" type="checkbox"/> Rainy		<input type="checkbox"/> Non-Rainy		
Storm Data	Storm Start Date & Time:	N/A		Storm Duration (hrs):	N/A
	Time elapsed since last storm (Circle Applicable Units)	Min.	N/A Hr.	Days	Approximate Rainfall Amount (inches)

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE		
Total Project Area	<u>281.2 Acres</u>	Acres
Field Estimate of Active DSAs	<u>270 Acres</u>	Acres
Field Estimate of Non-Active DSAs	<u>Zero (0)</u>	Acres

Notes:

Attachment H
Storm Water Quality Construction Inspection Checklist

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			X	Permanent fencing has been installed through out the project limits
Location: Various locations between Crouch to RDO	X			A few thousand feet of wetlands fence remains in place
Location:				
Location:				
Location:				
Erosion Control				
Does the applied temporary erosion control provide 100% coverage for the affected areas?	X			
Are any non-vegetated areas that may require temporary erosion control?	X			
Is the area where erosion controls are used required free from visible erosion?	X			Waiting to implement permanent design to control these areas.
Location: Between Crouch and RDO		X		Off site run off from the hills to the south has created gullies carrying silt into ROW
Location: Between North and West Los Angeles		X		Off site run off from the church parking lot and adjacent properties has created gullies carrying silt into ROW ditches.
Location: East of Guajome Xing		X		Off site run off from property to south has created gullies depositing silt into ROW ditches
Location: Between Mar Vista and S Santa Fe Xing		X		Off site run off from property/roadway to north of ROW causing gullies to carry silt into project's ditches
Location: West of Buena Creek Xing		X		Off site run off from property to north has created gullies depositing silt into ditches
Location: West of Estrelita Xing		X		Off site run off from property to south has created gullies depositing silt into ROW ditches. Possible utility leak?
Location: Under I-15 Freeway (J&W Xing)		X		Large amounts of silt have entered ditches from under I-15 bridge
Temporary Linear Sediment Barriers (Silt Fence, Fiber Rolls, Sandbag Barriers, etc.)				
Are temporary linear sediment barriers properly installed, functional and maintained?	X			
Are temporary linear sediment barriers free of accumulated litter?	X			
Is the built-up sediment less than 1/3 the height of the barrier?	X			
Are cross barriers installed where necessary and properly spaced?	X			
• Location: West of Buena Creek Xing	X			Replace overwhelmed fiber roll at edge of ditch
• Location: Mar Vista to S. Santa Fe	X			Clean debris out of concrete ditch on north side of tracks.
• Location:				
• Location:				
• Location:				

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
• Location:				
• Location:				
• Location:				
• Location:				
• Location:				
• Location:				
Storm Drain Inlet Protection				
Are storm drain inlets internal to the project properly protected?	X			Gravelbags and/or silt fence are being used as inlet protection.
Are storm drain inlet protection devices in working order and being properly maintained?	X			
• Location: Bikepath between Mar Vista and Esco Ave	X			Finish placing filter fabric around grate inlets in middle of bike path.
• Location: Escondido Ave. N/B #2 Lane	X			Gravel bag are in need of replacement Need to constantly maintain.
• Location:				
• Location:				
• Location:				
• Location:				
Sediment Basins				
Are basins designed in accordance with the requirements of the General Permit?			X	No sediment basins constructed
Are basins maintained to provide the required retention/detention?			X	
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?			X	
Location:				
Location:				
Location:				
Stockpiles				
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?	X			
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?	X			
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?	X			
Are required covers and/or perimeter controls in place?	X			
• Location: Mar Vista Lot	X			Active stockpile can be contained upon threat of rain.
• Location: College Parking Lot	X			Complete backfill of bridge to deplete pile.
• Location:				
• Location:				
• Location:				

Attachment H
Storm Water Quality Construction Inspection Checklist

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
• Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	X			Off site drainage has caused concentrated flows at various locations
Location: Various	X			See WCRC letter for known locations
Location:				
Location:				
Location				
Tracking Control				
Is the entrance stabilized to prevent tracking	X			
Is the stabilized entrance inspected daily to ensure that it is working properly	X			
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	X			
Are all paved areas free of visible sediment tracking or other particulate matter?	X			
• Location: Mar Vista Lot – Western Entrance/Exit	X			Still need to Place rumble plates to stop ballast spilling out onto adjacent sidewalk.
• Location: College Lot	X			Keep entering yard to minimum. Patrol daily with street sweeper.
• Location:				
• Location:				
• Location:				
Wind Erosion Control				
Is dust control implemented?	x			Water trucks operate continuously
Location:				
Location:				
Dewatering Operations				
Are all one-time dewatering operations covered by the General Permit inspected before and as they occur and BMPs implemented as necessary during discharge?	X			
Is ground water dewatering handled in conformance with the dewatering permit issued by the RWQCB?	X			
Is required treatment provided for dewatering effluent?		x		
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	X			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?	X			

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
If no, are drip pans used?			X	
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses and protected from run-on and runoff?	X			
Is wash water contained for infiltration/ evaporation and disposed of appropriately?	X			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?			X	No onsite washing is taking place.
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	X			Daily equipment inspections are taking place for each piece of equipment.
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	X			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	X			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?	X			
Are bagged and boxed materials stored on pallets?	X			
Are hazardous materials and wastes stored in appropriate, labeled containers?	X			
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?	X			
Are temporary containment facilities free of spills and rainwater?	X			
Are temporary containment facilities and bagged/boxed materials covered?	X			
Are temporary concrete washout facilities designated and being used?	X			
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?	X			
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?	X			
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?	X			
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	X			
Is the site free of litter?	X			
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			

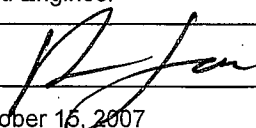
Attachment H
Storm Water Quality Construction Inspection Checklist

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
• Location: Vista Village Station	X			Clean up small piles of debris still remaining.
• Location: Mar Vista Lot	X			Clean up debris located in SE corner of lot still needs to be cleaned up.
• Location: Mar Vista Lot	X			Need to load and haul off debris if pile is no longer active.
• Location:				
• Location:				
• Location:				
Temporary Water Body Crossing or Encroachment				
Are temporary water body crossings and encroachments constructed appropriately?			X	
Does the project conform to the requirements of the 404 permit and/or 1601 agreement?			X	
Location:				
Location:				
Location:				
Illicit Connection/ Discharge				
Is there any evidence of illicit discharges or illegal dumping on the project site?		X		
If yes, has the Owner/Operator been notified?				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from visible pollutants?	X			
Are discharge points free of any significant sediment transport?	X			
Location:				
Location:				
Location:				
SWPPP Update				
Does the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	X			
Are all BMPs shown on the water pollution control drawings installed in the proper location(s) and according to the details in the SWPPP?	X			
Location: See specific reference to locations above				
Location:				
General				

INSPECTION OF BMPs			
BMP	Yes	No	N/A
Location:			
Location:			
Are there any other potential concerns at the site?			
Location: Various locations	x		Permanent design off site drainage should be out to construct soon.
Location:			
Location:			
Location:			
Storm Water Monitoring			
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?			X
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?			X
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			X
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?			X
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?			X
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?			X
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			X
Were the BMPs maintained or replaced?			X
Were soil amendments (e.g., gypsum, lime) used on the project?			X
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?			X
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			X
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			X
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?			X

Attachment H

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	NCTD Sprinter Mainline Rail Construction Project			
Project N°	CU-01, IFB 04032			
Contractor	West Coast Rail Constructors			
Inspector's Name	Rick Felkins			
Inspector's Title	Field Engineer			
Signature				
Date of Inspection	October 16, 2007			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain	<input checked="" type="checkbox"/> After a rain event		
	<input type="checkbox"/> 24-hr intervals during extended rain	<input type="checkbox"/> Other: Weekly Report		
Season (Check Applicable)	<input checked="" type="checkbox"/> Rainy		<input type="checkbox"/> Non-Rainy	
Storm Data	Storm Start Date & Time:	10/13/07 4am	Storm Duration (hrs):	4
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (inches)	0.35"

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE		
Total Project Area	<u>281.2 Acres</u>	Acres
Field Estimate of Active DSAs	<u>270 Acres</u>	Acres
Field Estimate of Non-Active DSAs	<u>Zero (0)</u>	Acres

Notes:

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			X	Permanent fencing has been installed through out the project limits
Location: Various locations between Crouch to RDO	X			A few thousand feet of wetlands fence remains in place
Location:				
Location:				
Location:				
Erosion Control				
Does the applied temporary erosion control provide 100% coverage for the affected areas?	X			
Are any non-vegetated areas that may require temporary erosion control?	X			
Is the area where erosion controls are used required free from visible erosion?	X			Waiting to implement permanent design to control these areas.
Location: Between Crouch and RDO		X		Off site run off from the hills to the south has created gullies carrying silt into ROW.
Location: Between North and West Los Angeles		X		Off site run off from the church parking lot and adjacent properties has created gullies carrying silt into ROW ditches.
Location: East of Guajome Xing		X		Off site run off from property to south has created gullies depositing silt into ROW ditches
Location: Between Mar Vista and S. Santa Fe Xing		X		Off site run off from property/roadway to north of ROW causing gullies to carry silt into project's ditches
Location: West of Buena Creek Xing		X		Off site run off from property to north has created gullies depositing silt into ditches
Location: West of Estrelita Xing		X		Off site run off from property to south has created gullies depositing silt into ROW ditches. Possible utility leak?
Location: Under I-15 Freeway (J&W Xing)		X		Large amounts of silt have entered ditches from under I-15 bridge
Temporary Linear Sediment Barriers (Silt Fence, Fiber Rolls, Sandbag Barriers, etc.)				
Are temporary linear sediment barriers properly installed, functional and maintained?	X			
Are temporary linear sediment barriers free of accumulated litter?	X			
Is the built-up sediment less than 1/3 the height of the barrier?	X			
Are cross barriers installed where necessary and properly spaced?	X			
• Location: West of Vista Village Station	X			Place fiber roll along toe of newly constructed slope south of tracks
• Location: West of Vista Village Station	X			Place gravel bags as chevrons in newly constructed concrete ditch
• Location: East of Guajome Xing	X			Place additional fiber roll on southerly slope to combat off site run off.
• Location: East of Guajome Xing	X			Place additional gravel bags at gullies to combat off site drainage

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
• Location: Escondido Ave Parking Lot	X			Add additional gravel bags to protect new inlets
• Location: Buena Creek Station	X			Replace gravel bags at inlet behind east end of station
• Location: West of Buena Creek Xing	X			Replace overwhelmed fiber roll at edge of ditch
• Location:				
• Location:				
• Location:				
• Location:				
• Location:				
• Location:				
• Location:				
Storm Drain Inlet Protection				
Are storm drain inlets internal to the project properly protected?	X			Gravelbags and/or silt fence are being used as inlet protection.
Are storm drain inlet protection devices in working order and being properly maintained?	X			
• Location: Escondido Ave. Parking Lot	X			Place gravel bags to block 2 inlets at track side of parking lot.
• Location:				
• Location:				
• Location:				
• Location:				
• Location:				
Sediment Basins				
Are basins designed in accordance with the requirements of the General Permit?			X	No sediment basins constructed
Are basins maintained to provide the required retention/detention?			X	
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?			X	
Location:				
Location:				
Location:				
Stockpiles				
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?	X			
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?	X			
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?	X			
Are required covers and/or perimeter controls in place?	X			
• Location:	X			

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
• Location:	X			
• Location:				
• Location:				
• Location:				
• Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	X			Off site drainage has caused concentrated flows at various locations
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Is the entrance stabilized to prevent tracking	X			
Is the stabilized entrance inspected daily to ensure that it is working properly	X			
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	X			
Are all paved areas free of visible sediment tracking or other particulate matter?	X			
• Location: Mar Vista Lot – Western Entrance/Exit	X			Place rumble plates to stop ballast spilling out onto adjacent sidewalk
• Location:				
• Location:				
• Location:				
• Location:				
Wind Erosion Control				
Is dust control implemented?	x			Water trucks operate continuously
Location:				
Location:				
Dewatering Operations				
Are all one-time dewatering operations covered by the General Permit inspected before and as they occur and BMPs implemented as necessary during discharge?	X			
Is ground water dewatering handled in conformance with the dewatering permit issued by the RWQCB?	X			
Is required treatment provided for dewatering effluent?		x		
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	X			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?	X			
If no, are drip pans used?			X	
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses and protected from run-on and runoff?	X			
Is wash water contained for infiltration/ evaporation and disposed of appropriately?	X			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?			X	No onsite washing is taking place.
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	X			Daily equipment inspections are taking place.
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	X			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	X			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?	X			
Are bagged and boxed materials stored on pallets?	X			
Are hazardous materials and wastes stored in appropriate, labeled containers?	X			
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?	X			
Are temporary containment facilities free of spills and rainwater?	X			
Are temporary containment facilities and bagged/boxed materials covered?	X			
Are temporary concrete washout facilities designated and being used?	X			
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?	X			
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?	X			
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?	X			
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	X			
Is the site free of litter?	X			

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
• Location: North to W. Los Angeles	X			Clean up debris in concrete ditch
• Location: Vista Village Station	X			Clean up small piles of debris
• Location: Buena Creek Station	X			Clean up small piles of debris
• Location: Guajome Xing	X			Clean up small asphalt pile at Xing
• Location: Mar Vista Lot	X			Clean up debris located in SE corner of lot
• Location:				
• Location:				
Temporary Water Body Crossing or Encroachment				
Are temporary water body crossings and encroachments constructed appropriately?			X	
Does the project conform to the requirements of the 404 permit and/or 1601 agreement?			X	
Location:				
Location:				
Location:				
Illicit Connection/ Discharge				
Is there any evidence of illicit discharges or illegal dumping on the project site?		X		
If yes, has the Owner/Operator been notified?				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from visible pollutants?	X			
Are discharge points free of any significant sediment transport?	X			
Location:				
Location:				
Location:				
SWPPP Update				
Does the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	X			

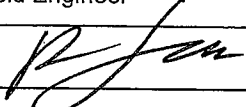
INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Are all BMPs shown on the water pollution control drawings installed in the proper location(s) and according to the details in the SWPPP?	X			
Location: See specific reference to locations above.				
Location:				
General				
Location:				
Location:				
Are there any other potential concerns at the site?				
Location:	x			
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?			X	
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?			X	
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			X	
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?			X	
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?			X	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?			X	
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			X	
Were the BMPs maintained or replaced?			X	
Were soil amendments (e.g., gypsum, lime) used on the project?			X	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?			X	
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			X	
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			X	

Attachment H
Storm Water Quality Construction Inspection Checklist

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?			X	

Attachment H

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	NCTD Sprinter Mainline Rail Construction Project			
Project N°	CU-01, IFB 04032			
Contractor	West Coast Rail Constructors			
Inspector's Name	Rick Felkins			
Inspector's Title	Field Engineer			
Signature				
Date of Inspection	October 11, 2007			
Inspection Type (Check Applicable)	<input checked="" type="checkbox"/> Prior to forecast rain		<input type="checkbox"/> After a rain event	
	<input type="checkbox"/> 24-hr intervals during extended rain		<input type="checkbox"/> Other: Weekly Report	
Season (Check Applicable)	<input checked="" type="checkbox"/> Rainy		<input type="checkbox"/> Non-Rainy	
Storm Data	Storm Start Date & Time:	10/13/07 4am	Storm Duration (hrs):	4
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (inches)	0.35"

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE		
Total Project Area	<u>281.2 Acres</u>	Acres
Field Estimate of Active DSAs	<u>270 Acres</u>	Acres
Field Estimate of Non-Active DSAs	<u>Zero (0)</u>	Acres

Notes:

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			X	Permanent fencing has been installed through out the project limits
Location: Various locations between Crouch to RDO	X			A few thousand feet of wetlands fence remains in place
Location:				
Location:				
Location:				
Erosion Control				
Does the applied temporary erosion control provide 100% coverage for the affected areas?	X			
Are any non-vegetated areas that may require temporary erosion control?	X			
Is the area where erosion controls are used required free from visible erosion?	X			Exception would be various locations of off site drainage throughout project
Location:				
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers (Silt Fence, Fiber Rolls, Sandbag Barriers, etc.)				
Are temporary linear sediment barriers properly installed, functional and maintained?	X			
Are temporary linear sediment barriers free of accumulated litter?	X			
Is the built-up sediment less than 1/3 the height of the barrier?	X			
Are cross barriers installed where necessary and properly spaced?	X			
• Location: Inlet @ N.E. corner of Mar Vista Xing behind Instrument House	X			Place additional bags at inlet and clean silt out.
• Location: Vista Village Station/Lot	X			Replace gravel bags at NW inlet
• Location: East side of ECR Xing	X			Maintain silt fence near creek
• Location: Escondido Ave. N/B #2 lane at Xing	X			Replace/reposition gravel bags @ inlet
• Location: West of S. Santa Fe Xing	X			Resecure fiber roll to edge of ditch.
• Location: East of Coast Hwy Station	X			Clean/replace broke gravel bags inside of ditch
• Location: RDO Detention Basin Wall	X			Place gravel bags in ditch as chevrons
• Location:				
• Location:				
• Location:				
• Location:				
• Location:				

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
• Location:				
• Location:				
• Location:				
• Location:				
• Location:				
Storm Drain Inlet Protection				
Are storm drain inlets internal to the project properly protected?	X			Gravelbags and/or silt fence are being used as inlet protection.
Are storm drain inlet protection devices in working order and being properly maintained?	X			
• Location: Escondido Ave. Parking Lot	X			Place gravel bags to block 2 inlets at track side of parking lot.
• Location:				
• Location:				
• Location:				
• Location:				
• Location:				
Sediment Basins				
Are basins designed in accordance with the requirements of the General Permit?			X	No sediment basins constructed
Are basins maintained to provide the required retention/detention?			X	
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?			X	
Location:				
Location:				
Location:				
Stockpiles				
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?	X			
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?	X			
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?	X			
Are required covers and/or perimeter controls in place?	X			
• Location: College Station Parking Lot	X			Dispose of overfilled washout pit
• Location: Mar Vista Lot	X			Restand a portion of silt fence that is protecting main stockpile
• Location:				
• Location:				
• Location:				
• Location:				

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	X			Off site drainage has caused concentrated flows at various locations
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Is the entrance stabilized to prevent tracking	X			
Is the stabilized entrance inspected daily to ensure that it is working properly	X			
Are points of ingress/egress to public/private roads inspected and swept and vacuumed as needed?	X			
Are all paved areas free of visible sediment tracking or other particulate matter?	X			
• Location: Escondido Ave Parking Lot	X			Construct proper entrance into parking lot
• Location:				
• Location:				
• Location:				
• Location:				
• Location:				
Wind Erosion Control				
Is dust control implemented?	x			Water trucks operate continuously
Location:				
Location:				
Dewatering Operations				
Are all one-time dewatering operations covered by the General Permit inspected before and as they occur and BMPs implemented as necessary during discharge?	X			
Is ground water dewatering handled in conformance with the dewatering permit issued by the RWQCB?	X			
Is required treatment provided for dewatering effluent?		x		
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	X			

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?	X			
If no, are drip pans used?			X	
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses and protected from run-on and runoff?	X			
Is wash water contained for infiltration/ evaporation and disposed of appropriately?	X			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?			X	No onsite washing is taking place.
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	X			Daily equipment inspections are taking place.
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	X			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	X			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?	X			
Are bagged and boxed materials stored on pallets?	X			
Are hazardous materials and wastes stored in appropriate, labeled containers?	X			
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?	X			
Are temporary containment facilities free of spills and rainwater?	X			
Are temporary containment facilities and bagged/boxed materials covered?	X			
Are temporary concrete washout facilities designated and being used?	X			
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?	X			
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?	X			
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?	X			
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?	X			
Is the site free of litter?	X			
Are trash receptacles provided in the yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Is litter from work areas collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
• Location: State Tree to Commerce	X			Clean up trash on site
• Location: Vista Village Station	X			Clean up small piles of debris
• Location: Buena Creek Station	X			Clean up small piles of debris
• Location:				
• Location:				
• Location:				
• Location:				
Temporary Water Body Crossing or Encroachment				
Are temporary water body crossings and encroachments constructed appropriately?			X	
Does the project conform to the requirements of the 404 permit and/or 1601 agreement?			X	
Location:				
Location:				
Location:				
Illicit Connection/ Discharge				
Is there any evidence of illicit discharges or illegal dumping on the project site?		X		
If yes, has the Owner/Operator been notified?				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from visible pollutants?	X			
Are discharge points free of any significant sediment transport?	X			
Location:				
Location:				
Location:				
SWPPP Update				
Does the SWPPP and Project Schedule adequately reflect the current site conditions and contractor operations?	X			
Are all BMPs shown on the water pollution control drawings installed in the proper location(s) and according to the details in the SWPPP?	X			
Location: See specific reference to locations above.				

INSPECTION OF BMPs				
BMP	Yes	No	N/A	Corrective Action
Location:				
General				
Location:				
Location:				
Are there any other potential concerns at the site?				
Location:	x			
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to a water body listed in the General Permit as impaired for sediment/sedimentation or turbidity?			X	
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan in the SWPPP?			X	
Did the sampling results indicate that the discharges are causing or contributing to further impairment?			X	
If yes, were the erosion/sediment control BMPs improved or maintained to reduce the discharge of sediment to the water body?			X	
Were there any BMPs not properly implemented or breaches, malfunctions, leakages or spills observed which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?			X	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?			X	
If sampling indicated pollution of the storm water, were the leaks, breaches, spills, etc. cleaned up and the contaminated soil properly disposed of?			X	
Were the BMPs maintained or replaced?			X	
Were soil amendments (e.g., gypsum, lime) used on the project?			X	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?			X	
If sampling indicated pollution of the storm water by the use of the soil amendments, is there a contingency plan for retention onsite of the polluted storm water?			X	
Did storm water contact stored materials or waste and run off the construction site? (Materials not in watertight containers, etc.)			X	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan in the SWPPP?			X	