

SUPPLEMENTAL AGENDA

BOARD OF DIRECTORS ORANGE COUNTY SANITATION DISTRICT

ADMINISTRATIVE OFFICE

REGULAR MEETING

September 22, 2010 – 6:30 P.M.

Agenda Posting: In accordance with the requirements of California Government Code Section 54954.2, this agenda has been posted in the main lobby of the District's Administrative offices not less than 72 hours prior to the meeting date and time above. All public records relating to each agenda item, including any public records distributed less than 72 hours prior to the meeting to all, or a majority of all, of the members of District's Board, are available for public inspection in the office of the Clerk of the Board, located at 10844 Ellis Avenue, Fountain Valley, California.

Items Not Posted: In the event any matter not listed on this agenda is proposed to be submitted to the Board for discussion and/or action, it will be done in compliance with Section 54954.2(b) as an emergency item or because there is a need to take immediate action, which need came to the attention of the Board subsequent to the posting of agenda, or as set forth on a supplemental agenda posted in the manner as above, not less than 72 hours prior to the meeting date.

Public Comments: Any member of the public may address the Board of Directors on specific agenda items or matters of general interest. As determined by the Chair, speakers may be deferred until the specific item is taken for discussion and remarks may be limited to three minutes.

Matters of interest addressed by a member of the public and not listed on this agenda cannot have action taken by the Board of Directors except as authorized by Section 54954.2(b). If you wish to speak, please complete a Speaker's Form (located at the table outside of the Board Room) and give it to the Clerk of the Board.

Consent Calendar: All matters placed on the Consent Calendar are considered as not requiring discussion or further explanation and unless any particular item is requested to be removed from the Consent Calendar by a Director, staff member or member of the public in attendance, there will be no separate discussion of these items. All items on the Consent Calendar will be enacted by one action approving all motions, and casting a unanimous ballot for resolutions included on the consent calendar. All items removed from the Consent Calendar shall be considered in the regular order of business.

Members of the public who wish to remove an item from the Consent Calendar shall, upon recognition by the Chair, state their name, address and designate by number the item to be removed from the Consent Calendar.

The Chair will determine if any items are to be deleted from the Consent Calendar.

Items Continued: Items may be continued from this meeting without further notice to a Committee or Board meeting held within five (5) days of this meeting per Government Code Section 54954.2(b)(3).

Meeting Adjournment: This meeting may be adjourned to a later time and items of business from this agenda may be considered at the later meeting by Order of Adjournment and Notice in accordance with Government Code Section 54955 (posted within 24 hours).

Accommodations for the Disabled: The Board of Directors Meeting Room is wheelchair accessible. If you require any special disability related accommodations, please contact the Orange County Sanitation District Clerk of the Board's office at (714) 593-7130 at least 72 hours prior to the scheduled meeting. Requests must specify the nature of the disability and the type of accommodation requested.

Other business and communications or supplemental agenda items, if any.

13. A) Receive and file Addendum No. 1 to the Final Environmental Impact Report for the Newport Trunk Sewer and Force Mains Replacement Project prepared by Environmental Science Associates;

- B) Approve a project budget increase of \$5,506,800 to Newport Sewer and Force Mains, Bitter Point to Coast Trunk Sewer, Contract No. 5-58, for a total budget of \$31,389,800.

- C) Adopt Resolution No. OCSD 10-16, Authorizing Emergency Repairs to the Santa Ana River Levees and Ratifying the General Manager's Use of Emergency Purchasing Authority Pursuant to Delegation of Authority Resolution 07-04 Section 6.03(J), and finding a continuing need to:
 - 1) Negotiate and award a contract to Geo-Solutions, Inc. to provide soil remediation services for said project, for an amount not to exceed \$2,038,000;
 - 2) Approve a contingency of \$407,600 (20%);
 - 3) Negotiate and award a contract to Jamison Engineering Contractors, Inc. to provide supporting construction services for said project, for an amount not to exceed \$670,000;
 - 4) Approve a contingency of \$134,000 (20%);
 - 5) Negotiate and award a professional design services agreement to Black and Veatch to provide engineering services for said project, for an amount not to exceed \$1,200,000; and,
 - 6) Approve a contingency of \$120,000 (10%).

BOARD OF DIRECTORS

AGENDA REPORT

Meeting Date	To Bd. of Dir. 09/22/10
Item Number	Item Number 13

Orange County Sanitation District

FROM: James D. Ruth, General Manager
Originator: Jim Herberg, Director of Engineering
CIP Project Manager: Alberto Acevedo

GENERAL MANAGER'S RECOMMENDATION

1. Receive and file Addendum No. 1 to the Final Environmental Impact Report for the Newport Trunk Sewer and Force Mains Replacement Project prepared by Environmental Science Associates;
2. Approve a project budget increase of \$5,506,800 to Newport Sewer and Force Mains, Bitter Point to Coast Trunk Sewer, Contract No. 5-58, for a total budget of \$31,389,800; and,
3. Adopt Resolution No. OCSD 10-16, Authorizing Emergency Repairs to the Santa Ana River Levees and Ratifying the General Manager's Use of Emergency Purchasing Authority Pursuant to Delegation of Authority Resolution 07-04 Section 6.03(J), and finding a continuing need to:
 - A. Negotiate and award a contract to Geo-Solutions, Inc. to provide soil remediation services for said project, for an amount not to exceed \$2,038,000;
 - B. Approve a contingency of \$407,600 (20%);
 - C. Negotiate and award a contract to Jamison Engineering Contractors, Inc. to provide supporting construction services for said project, for an amount not to exceed \$670,000;
 - D. Approve a contingency of \$134,000 (20%);
 - E. Negotiate and award a professional design services agreement to Black and Veatch to provide engineering services for said project, for an amount not to exceed \$1,200,000; and,
 - F. Approve a contingency of \$120,000 (10%).

SUMMARY

This project installed an additional pipeline connection from the Bitter Point Pump Station to Plant No. 2 in order to improve the reliability of the Sanitation District's force main systems in the City of Newport Beach. A construction contract for this work was awarded to Mladen Buntich Construction Co., Inc. and the contract work is substantially complete.

A portion of the contract work included a tunnel section of pipeline. The soil above this tunneled section of pipeline has settled and created voids in the soil along the alignment including the Santa Ana River.

Responsibility to repair the affected soils is under dispute. The Sanitation District has also notified the District's Owner Controlled Insurance Program (OCIP) insurance carrier that the property damage has occurred, but there has been no determination. The District will pursue cost recovery for these incurred costs.

The soil settlement poses a risk to the levee system that must be repaired as soon as possible to mitigate these risks prior to the coming rainy season. A levee repair method has been designed using a phased approach with the most critical work (Phase 1) emergency repairs to the Santa Ana River Levees being implemented at this time.

The limited schedule to perform the work will not allow for a typical procurement process. In order to expedite these repairs, Staff is requesting emergency authorization for agreements with three separate contracting parties using an emergency procurement authority.

The requested budget increase includes contract costs as well as providing for an increase in staffing costs to support the extended project schedule during the implementation of this Phase 1 work.

Additional repairs beyond the scope of this action are needed and are planned for a second project phase. The Sanitation District is planning to work with the tunneling contractor to complete these repairs. A plan will be developed to repair these areas, but these are not considered an emergency. Costs for these future repairs are not included in this action.

Some changes and additions are required to the previously certified EIR to address modifications for the levee repairs. The modifications, however, do not result in any new or significant impacts that were not previously considered or addressed in the 2005 EIR. An Addendum to the EIR was prepared pursuant to CEQA Guideline.

PRIOR COMMITTEE/BOARD ACTIONS

August 2008 – Awarded a contract with Mladen Buntich Construction Co. for the construction of the Newport Trunk Sewer and Force Mains, Bitter Point Pump Station to Coast Trunk Sewer, Contract 5-58, for a total amount not to exceed \$18,512,931.

July 2008 – Approved a Professional Consultant Services Agreement with Black & Veatch Corporation for Construction Support Services for an amount not to exceed \$973,463.

April 2007 - Approved Amendment No. 1 to the Professional Design Services Agreement with Black & Veatch Corporation for an additional amount of \$120,082, increasing the total PSA contract amount not to exceed \$1,138,989.

April 2007 - Authorized staff to commence negotiations with Black & Veatch Corporation for support services during the construction, commissioning, and closeout phases of Contract No. 5-58.

December 2003 - Approved Professional Design Services Agreement with Black & Veatch Corporation for an amount not to exceed \$1,018,907.

ADDITIONAL INFORMATION

This project installed an additional pipeline connection from the Bitter Point Pump Station to Plant No. 2 in order to improve the reliability of the Sanitation District's force main systems in the City of Newport Beach. A construction contract for this work was awarded to Mladen Buntich Construction Co., Inc. and the contract work is substantially complete.

A portion of the contract work included a tunnel section of pipeline beginning inside Plant No. 2 and routed under the Santa Ana River to the east side. The soil above this tunneled section of pipeline has settled and created voids in the soil along the alignment including the Santa Ana River.

The Sanitation District's design consultants have concluded that the Contractor over excavated during the tunneling operations. The Contractor maintains that there were differing site conditions that caused the soil settlement. Responsibility to repair the affected soils is under dispute. In addition, the Sanitation District has notified the District's Owner Controlled Insurance Program (OCIP) insurance carrier that the property damage has occurred. The OCIP Insurance carrier has not yet determined if the damage is covered under the policy. The Districts will pursue cost recovery for these incurred costs.

The soil settlement poses a risk to the levee system that must be repaired as soon as possible to mitigate these risks prior to the coming rainy season. A levee repair method has been designed using a phased approach with the most critical work (Phase 1) emergency repairs to the Santa Ana River Levees being implemented at this time. This work involves soil remediation to improve the soil density of the east and west Santa Ana River Levee in the vicinity of the pipeline installation. This must be completed by a specialty contractor using soil mixing techniques with the addition of grout to the soil.

The limited schedule to perform the work will not allow for a typical procurement process. In order to expedite these repairs, Staff is requesting emergency authorization for agreements with three separate contracting parties using an emergency procurement authority. There will be two construction contracts, one to retain the prime soil remediation construction work and a second for supporting construction work. A new Professional Design Services Agreement (PDSA) is necessary for engineering oversight to verify the installation and certify the work.

The requested budget increase includes contract costs as well as providing for an increase in staffing costs to support the implementation of this Phase 1 work. Cost recovery for this work will be sought for this contracted work. These are being explored by risk management staff and counsel's office.

Additional repairs beyond the scope of this action are needed and are planned for a second project phase. The Phase 2 repairs include work from inside the Santa Ana River as well as a portion of the Sanitation District's Ocean Outfall pipeline and adjacent areas inside Plant 2. The Sanitation District is planning to work with the tunneling contractor to complete these repairs. A plan will be developed to repair these areas in the future, but these are not considered an emergency. Costs for these repairs are not determined at this time and are not included in this action.

Pursuant to the provision of the California Environmental Quality Act (CEQA), the Orange County Sanitation District (Sanitation District) Board of Directors (Board), as the lead agency and decision-making body, is required to consider Addendum No. 1 to the Final Environmental Impact Report (EIR) for the Replacement of Newport Trunk Sewer and Force Mains in compliance with CEQA. As a result of this action, the Board can proceed with approval and implementation of the project as presented herein.

CEQA

The Final Environmental Impact Report (EIR) for the Replacement of Newport Trunk Sewer and Force Mains, Contract No. 5-58, was certified by the Sanitation District's Board of Directors on April 27, 2005. The Notice of Determination was filed with the State Clearinghouse on April 28, 2005. Addendum No. 1 to the Newport Sewer and Force Mains EIR, as described herein, will be retained in the Sanitation District's official files for internal reference.

Some changes and additions are required to the previously certified EIR to address modifications in the Newport Trunk Sewer Project. The modifications, however, do not result in any new or substantially more severe significant impacts that were not previously considered or addressed in the 2005 EIR. In addition, no new information of substantial importance, that was not known or could not have been known at the time the EIR was certified, shows that the project would have any new or more severe impacts. None of the conditions described in Public Resources Code Section 21166 or CEQA Guideline Section 15162 requiring preparation of a subsequent EIR or negative declaration have occurred. On that basis, an Addendum to the EIR was prepared pursuant to CEQA Guideline Section 15164. The Addendum and related resolution and findings are attached hereto as Exhibit A.

Pursuant to CEQA, an Addendum is the appropriate document to describe the minor modifications to the proposed projects. According to CEQA, no public circulation or review period is required for an Addendum prepared for a previously circulated and certified EIR.

BUDGET/DELEGATION OF AUTHORITY COMPLIANCE

This request complies with authority levels of the Sanitation District’s Delegation of Authority. This item has been budgeted, but the budget is insufficient for the recommended action (Line item 05-58: Section 8, Page 8). The District will pursue cost recovery for the incurred costs. In the interim, required funds will be taken from anticipated savings from existing CIP projects.

<u>Date of Approval</u>	<u>Contract Amount</u>	<u>Contingency</u>
09/22/10	\$2,038,000	\$407,600 (20%)
09/22/10	\$ 670,000	\$134,000 (20%)
09/22/10	\$1,200,000	\$120,000 (10%)

ATTACHMENTS

1. Addendum No. 1 to the Final Environmental Impact Report for the Newport Trunk Sewer and Force Mains Replacement Project prepared by Environmental Science Associates.
2. Resolution No. OCSD 10-16, Authorizing Emergency Repairs to the Santa Ana River Levees and Ratifying the General Manager’s Use of Emergency Purchasing Authority Pursuant to Delegation of Authority Resolution 07-04 Section 6.03(J)

JH:DF:BRH

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OCSD NEWPORT TRUNK SEWER

Addendum to the Newport Trunk Sewer And Force Mains
Replacement Project EIR 20305116

Prepared for
Black & Veatch Corporation

September 2010



OCSD NEWPORT TRUNK SEWER

Addendum to the Newport Trunk Sewer And Force Mains
Replacement Project EIR

Prepared for
Black & Veatch Corporation

September 2010



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Introduction

The Orange County Sanitation District (OCSD) certified the Final Environmental Impact Report (EIR) for the Newport Trunk Sewer and Force Mains Replacement Project (SCH# 203051126) on April 27, 2005. The project began construction in October 6, 2008 and was substantially complete on July 30, 2010. Following installation of this sewer pipeline under the Santa Ana River, subsidence was observed on both river levees. OCSD has designed a remediation project to re-stabilize the levees. The purpose of this Addendum is to evaluate potential environmental impacts associated with the proposed project description modifications pursuant to the California Environmental Quality Act (CEQA) (Public Resources Code Sections 21000 et seq.) and *State CEQA Guidelines* (California Code of Regulations Sections 15000 et seq., hereinafter referred to as *Guidelines*).

OCSD's proposed remediation of the levees is to occur in two phases. This Addendum covers Phase 1 (including both Phases 1A and 1B). Phase 2 is not covered in this Addendum but may be needed in the future. This Addendum describes the CEQA compliance requirements for an Addendum, provides the project description, and summarizes potential impacts of the project. The analysis concludes that no new environmental impacts would occur as a result of the modifications and an Addendum to the original Newport Trunk Sewer EIR is the appropriate CEQA compliance document for the proposed modifications.

Regulatory Background

According to Section 15164(a) of the *Guidelines*, the lead agency or responsible agency shall prepare an addendum to a previously certified EIR if some changes or additions are necessary but none of the conditions described in Section 15162 calling for preparation of a subsequent EIR have occurred. Section 15162 of the *Guidelines* lists the conditions that would require the preparation of a subsequent EIR rather than an addendum. These include the following:

- (1) Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
- (2) Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
- (3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time of the previous EIR was certified as complete or the negative declaration was adopted, shows any of the following:
 - (A) The project will have one or more significant effects not discussed in the previous EIR or negative declaration;
 - (B) Significant effects previously examined will be substantially more severe than shown in the previous EIR;

- (C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or
- (D) Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

OCS&D has evaluated the environmental impacts of the proposed modifications, which are described in this Addendum, in light of the requirements defined under CEQA and the *Guidelines*. OCS&D, acting as the Lead Agency, has determined that none of the above conditions apply and an Addendum to the certified EIR is the appropriate environmental documentation for the proposed modifications.

Summary of Effects

The proposed project modifications would generate concrete slurry spoils. Water quality control best management practices (BMPs) described in the project description would ensure that construction runoff would not enter the SAR or SAR Marsh and would not adversely affect water quality. Compliance with these County-approved BMPs would ensure that no new impacts to water quality would result from the project.

The proposed project modifications would result in the need to temporarily divert bike path traffic during the construction activities. As a part of the project description modifications, bike traffic would be diverted to the opposite side of the river during construction activities. Both levee bike paths may be closed simultaneously for brief periods. During these periods, bike detours would be employed around the construction areas. As described in the project description below, OCS&D would place signage to notify bike path users of the temporary detours. Following construction, the bike paths would be returned to pre-construction conditions. Implementation of the detour plans described in the project description would ensure that impacts to bike paths would not be significant.

No new significant impacts would occur as a result of the proposed modifications. Nor would the project significantly increase the severity of previously identified impacts. As a result, an Addendum to the Newport Trunk Sewer EIR is the appropriate CEQA compliance document.

Project Description

The Orange County Sanitation District (OCS&D) is proposing Phase 1A and 1B of the Santa Ana River (SAR) Levee Stabilization Project in Huntington Beach and Newport Beach California. The levee stabilization is required to repair damages to the levees experienced from microtunneling of the Newport Trunk sewer pipeline. Phase 2 of this project is not covered by this Addendum.

Construction for Phase 1A and 1B is anticipated on the West and East Levees of the Santa Ana River near Treatment Plant 2 (Figure and Figure). The objective of the construction is to stabilize levee slopes that are experiencing settling due to the effects of a microtunnelling operation.

The construction for Phase I will occur entirely on the levee above the ordinary high water mark of the river and SAR marsh area. The Orange County Flood Control District (OCFCD) owns the property to be affected by construction. OCSD will acquire an encroachment permit from OCFCD prior to construction. No additional permits will be necessary to complete Phase 1 of the project.

Phase 1A is the first phase of the remediation. This phase needs to be installed immediately to ensure that the river levees maintain flood protection this winter (2010-2011). Phase 1B will follow after completion of Phase 1A in accordance with the Construction Sequence section below.

Construction Methods

The construction method of Phases 1A and 1B consists of in-situ mixing of soil with a cement and water mixture added (“soil mixing”) in and near the settling zone. Soil mixing will be accomplished with an auger-type mixer mounted on a rig, producing a column of mixed soil 3 feet in diameter to 9-feet in diameter, depending on the contractor retained to complete the work. The rig will be a vehicle between 20 and 30 feet long. A series of these columns will be constructed overlapping each other and covering the construction area, as shown on the construction drawings. It is anticipated that these cured soil/cement columns will prevent further settling. The areas affected by soil mixing on the East and West Levees are shown in **Figure 1** and **Figure 2**. The areas shaded green are where the actual soil mixing will occur. Areas within the boundary for “limit of work area” include space for the rig to maneuver. The areas designated Phase 1A are entirely within the level areas on the top of the two levees. These will be given the first priority for construction. The portion of Phase 1B will be constructed on the water side of the levees is well above the high water line. Construction on the East Levee will also avoid the adjacent marsh area.

Rip rap in the construction area will be removed prior to soil mixing and then replaced after soil mixing is completed. Rip rap removal will leave a depression approximately 18 inches deep which will aid in containing debris and runoff. Sediment controls shall be implemented. Other than limited benching for installing sediment control, the slope of the levees will not be benched for the soil mixing process.

The soil mixing process produces spoil that is approximately 20 percent of the volume of soil mixed. Plans are presented for preventing spoil from entering the Santa Ana River either as debris during construction or as sediment in runoff due to rain.

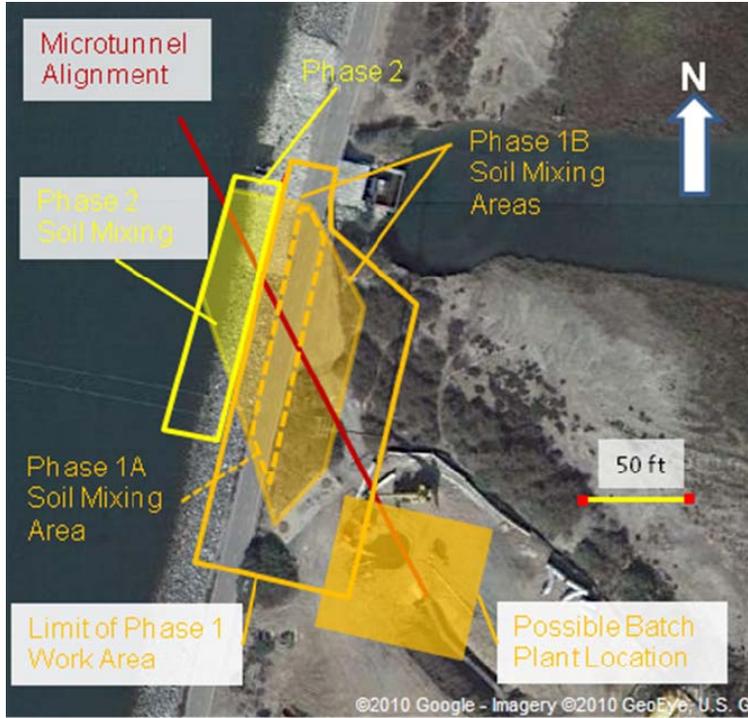


Figure 1: Construction Site on the East Levee

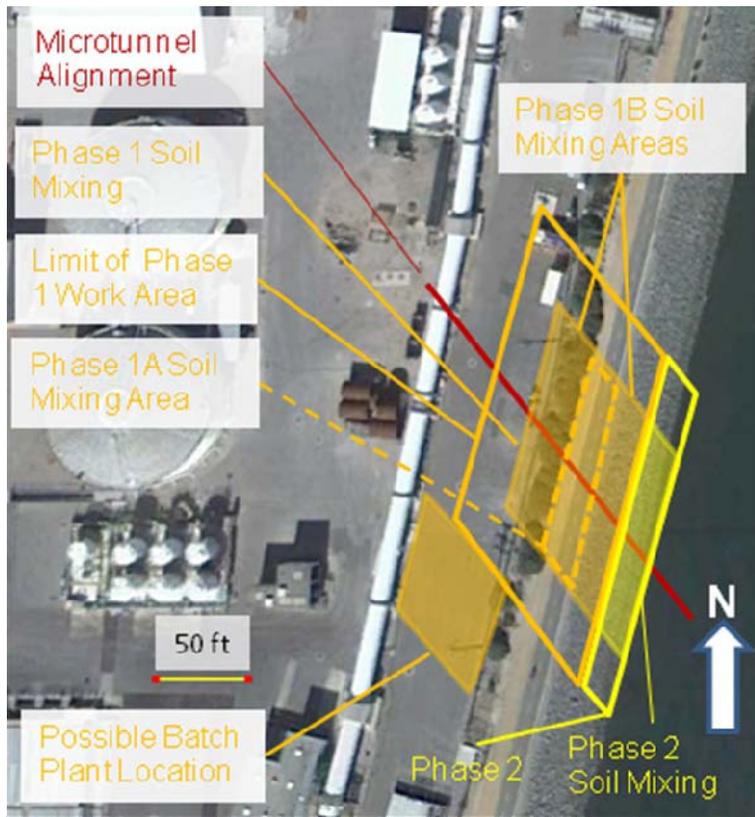


Figure 2 Construction Site on West Levee

Construction Sequence / Schedule

Construction for Phases 1A and 1B will be conducted over approximately total of 12 weeks (6 working days per week, 10-hour workdays), during which access to the levees will be restricted and through traffic diverted. Phase 1A will be completed first on the East Levee. Then work will shift to Phase 1A on the West Levee. Work will then be conducted on Phase 1B on the West Levee, and when completed, work will then move to Phase 1B on the East Levee. Plans for traffic diversion and separation of construction-related vehicles from non-construction vehicles are presented below. Also presented is the estimated number of truckloads for transporting supplies and equipment and for removing and disposing of excess spoil from the soil mixing operation.

Sediment Control

The goal of sediment control is to effectively minimize discharge of sediment and runoff from construction sites by application of relatively simple and cost effective Best Management Practices (BMPs). Sediment controls will be provided for the purpose of controlling erosion and containing sediment until construction is complete. General objectives for erosion and sediment controls are listed below:

- Minimize the area disturbed by construction at any given time. Disturbed areas should be within the work limits shown on the drawings.
- Contain exposed spoil within the disturbed areas and prevent spoil from spilling into the river and adjacent properties.
- Contain any runoff within construction areas that results from construction activities or from rain. Prevent runoff from entering the river or adjacent property.
- Trap eroded sediment within construction areas using temporary barriers.

Soil Mixing Volume

In Phase 1 of the project, an approximate total of 13,900 cubic yards of soil will be treated in-situ at the East and West Levee construction sites. **Table 1** provides estimates of amount of soil will be treated in each section of the levee in the Phase 1 of the project. Only approximately 20 percent of that treated soil volume will become spoil that will be removed from the site for disposal.

TABLE 1
APPROXIMATE IN-SITU SOIL MIXING VOLUME FOR PHASE 1.

	Phase 1: East Levee (cubic yards)	Phase 1: West Levee (cubic yards)
Phase 1A: Top of Levee	2,100	3,500
Phase 1B: Land Side Slope	2,700	2,400
Phase 1B: Water Side Slope	1,200	1,700
Total Soil Mix Volume	6,000	7,600
Spoil Produced	1,200	1,520

Proposed Sediment Control Methods

Three alternate methods of sediment controls are proposed. These methods are k-rail, silt fences, and soil berm. Hay bales are used in all three methods to control runoff from construction sites during rain events.

The following sections describe alternatives of sediment control barriers. Sediment control barriers will be installed in two configurations. The first configuration will be used for sediment control during work on top and land side of the levee. Sediment control barriers will be installed on top and along edge of levee on the water side. The second configuration will be used for work on water side of the levee. Sediment control barriers will be installed five feet from the work limit in Phase 1 but above high water mark. In both configurations, sediment control barriers will be installed on the land side and along the bottom of the levee. In addition, hay bales will be installed along all sediment control barriers to control runoff from construction site.

Silt Fence Barrier. Silt fences (Error! Not a valid bookmark self-reference.) will be a minimum 14 inches high and will not exceed 36 inches in height measured from the installed ground elevation. A silt fence barrier consists of 4-foot posts installed every 3 feet along the barrier limit. The bottom of silt fence will be buried 12 inches below ground surface when installed on flat ground. Where a silt fence is installed on an incline, the bottom of the silt fence will be buried 24 inches below ground surface. The ends of the fence will be extended upslope to prevent water from flowing around the ends of the fence into the river. **Error! Not a valid bookmark self-reference.** illustrates installation of silt fences in the two configurations.

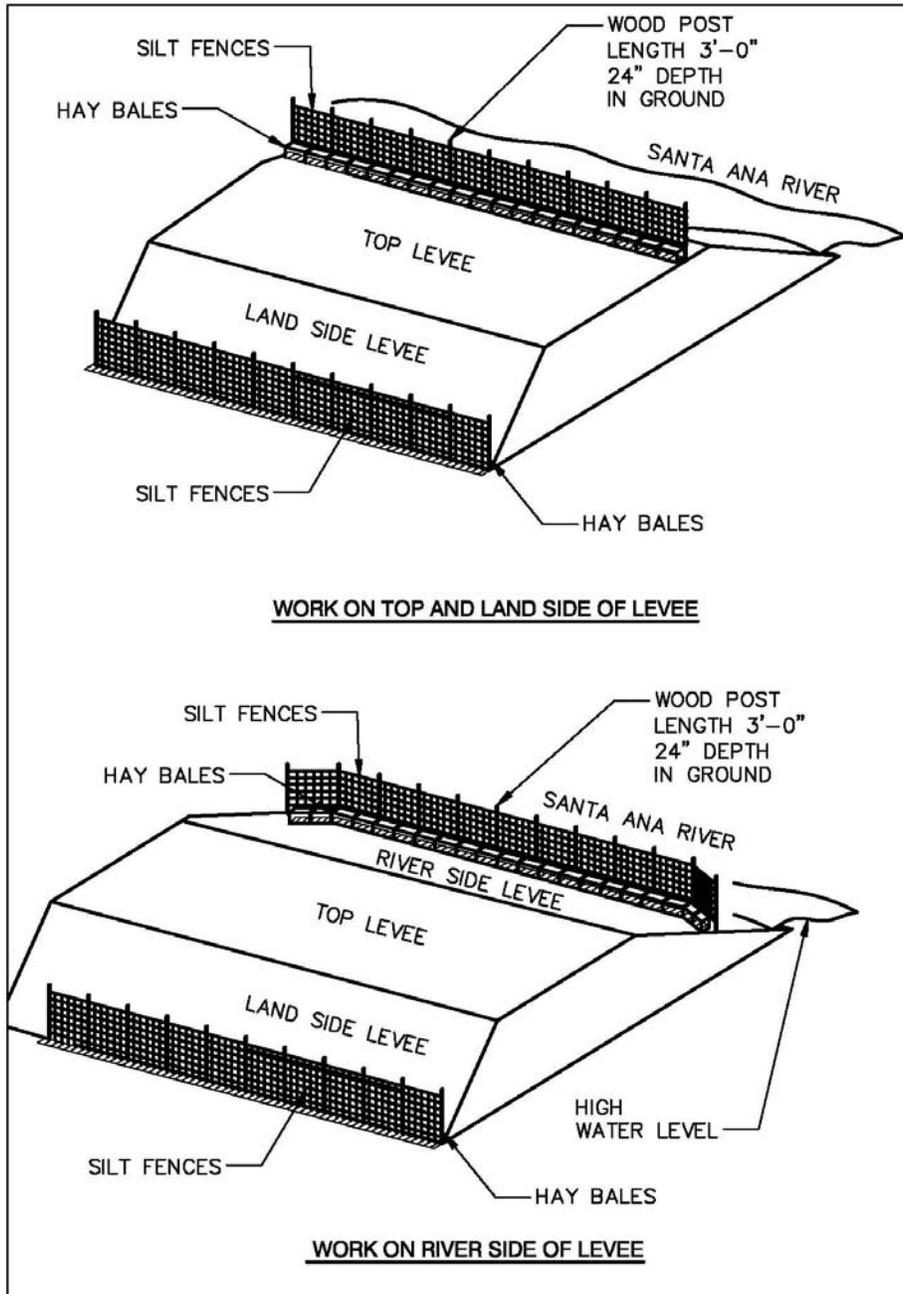


Figure 3: Silt Fence

Concrete K-Rail Barrier. Concrete k-rail barrier will be 32 inches high with 24 inches base. Ground at bottom of k-rail shall be benched to secured the k-rail in place. In addition, k-rail will also be secured with two anchors at each end. Where k-rails installed on an inclined surface, k-rail will have a slanted base or the k-rail will be placement will be on a benched portion of the slope. **Figure 4** illustrates installation of concrete k-rails in two configurations.

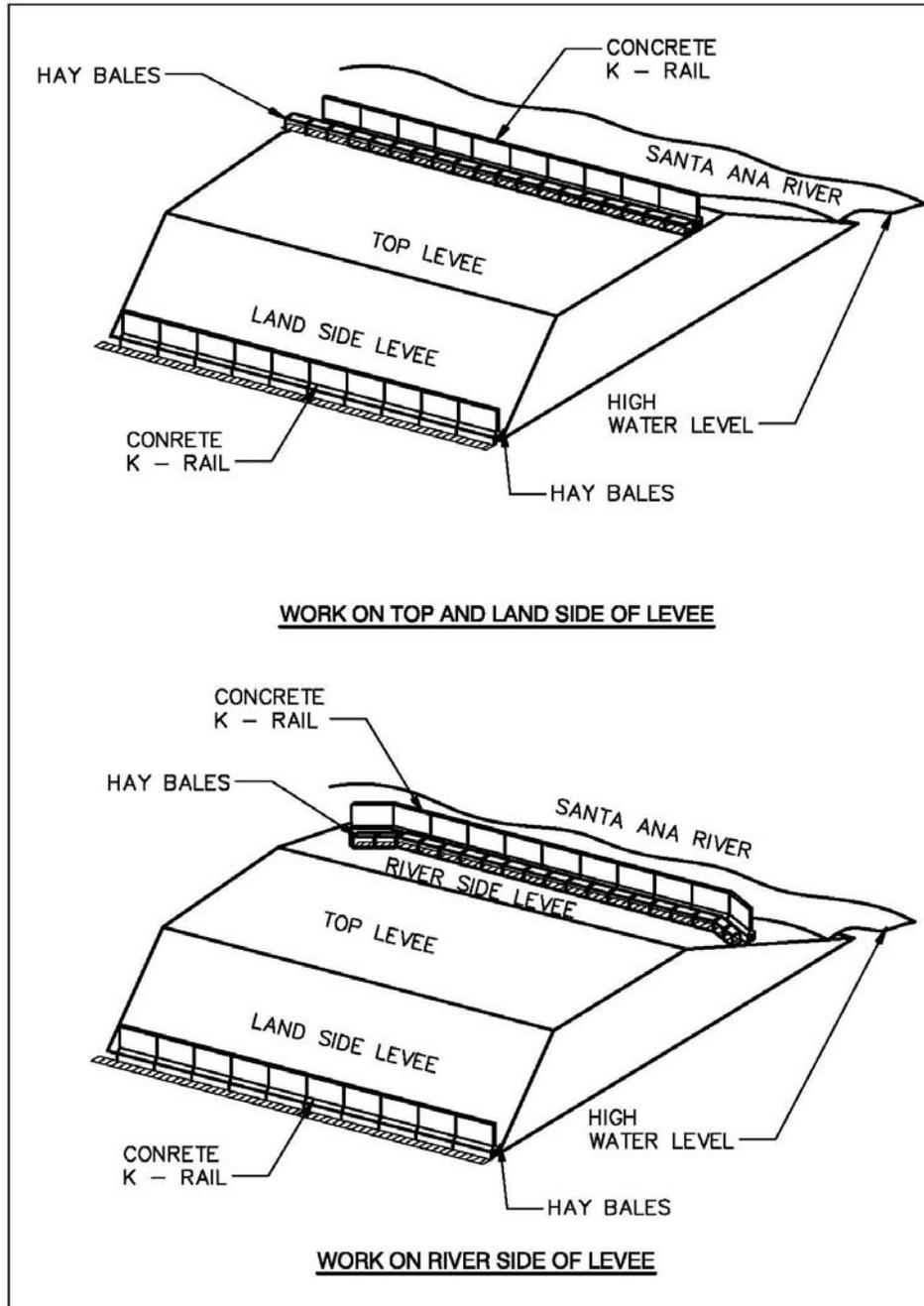


Figure 4: Concrete K-Rail

Soil Berm Barrier. Soil berm barrier will be 12 inches high with 12 inches base. Soil berm shall be well compacted and covered with plastic to prevent it from erosion during construction.

Figure 5 illustrates installation of soil berm in two configurations.

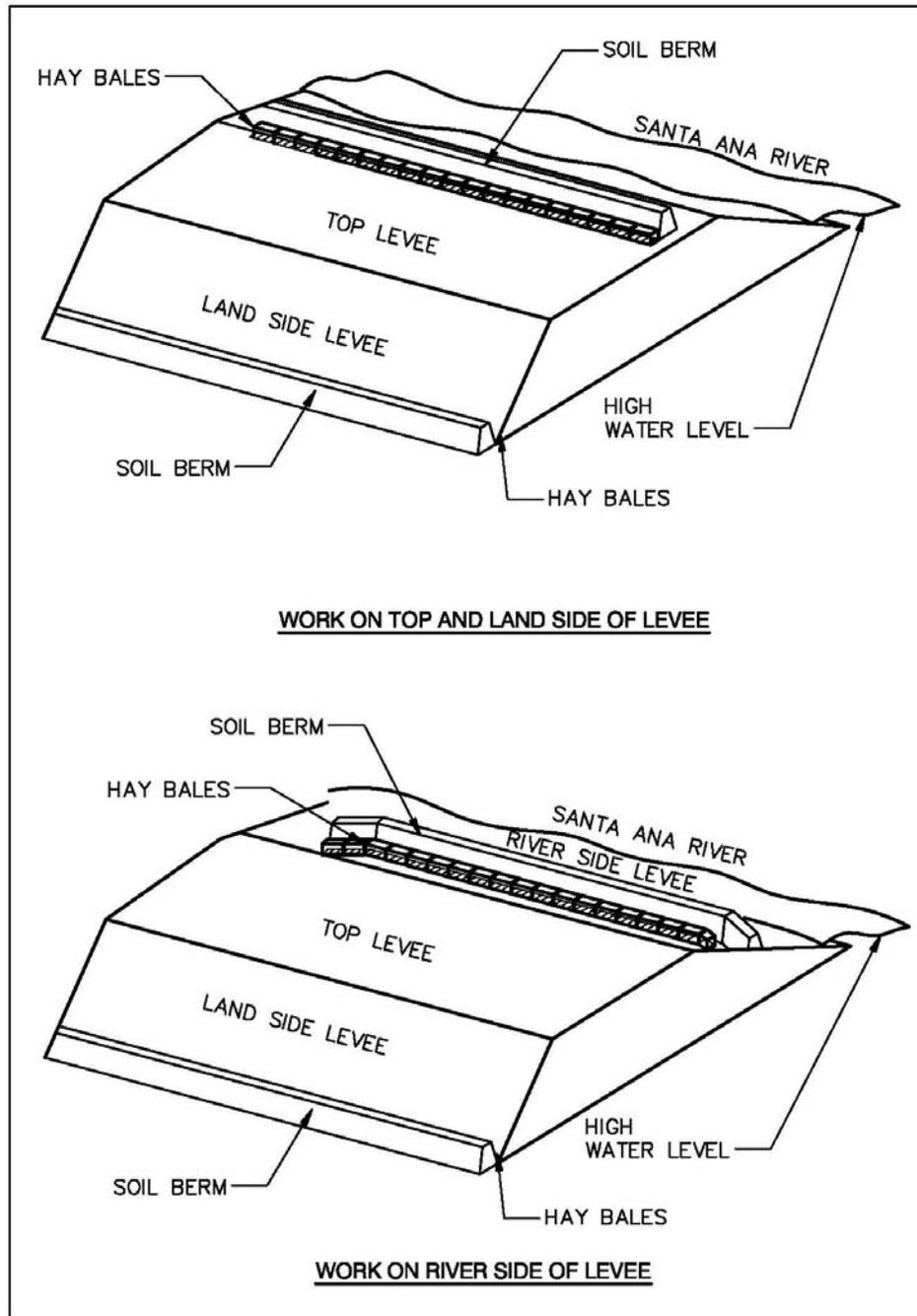


Figure 5: Soil Berm Barrier

Traffic Control

Non-construction traffic consists includes pedestrian, bicycle, levee maintenance vehicles. Only the levee maintenance vehicles will need access to the entire levee affected by the construction. Pedestrian and bicycle traffic can be detoured away from the construction. Construction traffic includes the soil mixing equipment and trucks delivering cement and water and removing spoil.

Non-Construction Traffic

Because the levees are relatively narrow and because the machinery needed for the soil mixing work is relatively large, through traffic cannot be allowed when the soil mixing is in progress. There are two bridges relatively close to the construction sites, one upstream and one downstream. Bicycle and pedestrian traffic can be detoured away from the active construction at these bridges. The soil mixing work will be conducted on only one levee at a time, starting with Phase 1A on the East Levee. This will allow levee traffic to be diverted to the West Levee as shown in **Figure 6**. Then work will shift to the West Levee, and levee traffic will be diverted to the East Levee as shown in **Figure 7**. Once Phase 1A work is completed on the West Levee, it will continue into the Phase 1B work on the West Levee. Then work will again shift to completing the remaining Phase 1B work on the East Levee with levee traffic diverted to the West Levee.



Figure 6: Traffic Detour Pattern for Construction on the East Levee



Figure 7: Traffic Detour Pattern for Construction on the West Levee

Pedestrian and bicycle traffic will be diverted at the bridge over the Santa Ana River at Hamilton Avenue and at Pacific Coast (West Coast Highway) using signs and barricades. Levee maintenance vehicles will be allowed onto the levee with construction but they will not be allowed to pass through the actual construction area and will have to turn around or carefully back up. Construction vehicles will take an access road for work on the East Levee and may have some interaction with levee maintenance vehicles. For the West Levee, they will take a path through OCS Plant 2 property. Therefore, there will be no mixing of moving construction vehicle traffic with pedestrians, bicycles, or levee maintenance vehicles on the West Levee.

Construction Vehicles

Construction vehicles will consist of a soil mixing rig (similar to a rig used for drilling piles), bulk tank trucks delivering dry cement and water, dump trucks for removing spoil, and a backhoe for loading the spoil onto the dump trucks. It is anticipated that the contractor will establish a batch plant at each of the two levees for mixing cement with water onsite for injection into the soil during soil mixing. The construction vehicles will follow the street routes shown in **Figure 8** to two possible main highways: Highway 405 (San Diego Freeway) or Highway 55 (Newport Freeway also known as the Costa Mesa Freeway).



Figure 8: Delivery and Disposal Truck Route to Main Highway

Approximately 20 per cent of the 13,900 cubic yards of soil involved in the soil mixing (Phase 1) will end up as spoil that will be removed from the site. The spoil will be loaded using a backhoe into semi-trailer dump trucks with 20 cubic yard capacity and removed from the site for disposal. Cement will be delivered in bulk tank trucks as dry solid and transferred to the batch plant. For the East Levee, river water may be too brackish for use in mixing the grout. Therefore, tank trucks will provide fresh water for mixing. On the West Levee, OCSD Plant 2 will provide water via a hydrant, eliminating tank truck traffic at that location. These trucks will follow either of the two the routes shown to the main highways in Figure . Workers will be driving to the site daily. It is anticipated that there will be a crew of approximately 4 people in separate cars driving from home to the site and then leaving at the end of the shift. It is anticipated that only be a single day shift during the day. Work will be occurring on only one levee at a time to allow for pedestrian and bicycle detours. A summary of construction vehicle traffic is shown in **Table 2**.

TABLE 2
SUMMARY OF ANTICIPATED PHASES 1 AND 1A TRUCK TRAFFIC
(12-week total construction period, 6 weeks per levee)

Description	East Levee Total Trucks	East Levee Trucks per Work Day	West Levee Total Trucks	West Levee Trucks per Work Day
Dump Trucks for Spoil Removal, (20 cu yd. capacity)				
Phase 1A	21	0.6	35	1.0
Phase 1B	39	1.1	41	1.1
Bulk tanker (5,000 gal.) for Dry Cement Delivery				
Phase 1A	15	0.4	26	0.7
Phase 1B	29	0.8	30	0.8
Water Trucks (5,000 gal.)				
Phase 1A	15	0.4	0 ^b	0
Phase 1B	29	0.8	0 ^b	0
Total^a	148	4.1	188	5.2

^a Does not include soil mixing rig, backhoe, and batch mix plant which will be delivered once and removed once for each levee. Also does not include cars for 4 workers coming to and leaving the site.

^b Assumes water provided by hydrant at OCSD Plant 2.

RESOLUTION NO. OCSD 10-16

AUTHORIZING EMERGENCY REPAIRS TO THE SANTA ANA LEVEES
AND RATIFYING GENERAL MANAGER'S USE OF EMERGENCY
PURCHASING AUTHORITY PURSUANT TO DELEGATION OF
AUTHORITY RESOLUTION 07-04 SECTION 6.03(J)

A RESOLUTION OF THE BOARD OF DIRECTORS OF ORANGE COUNTY SANITATION DISTRICT FINDING THAT PROJECT 5-58 DAMAGED THE SANTA ANA RIVER LEVEES, AUTHORIZING EMERGENCY REPAIRS TO THE SANTA ANA LEVEES, AND RATIFYING GENERAL MANAGER'S USE OF EMERGENCY PURCHASING AUTHORITY PURSUANT TO DELEGATION OF AUTHORITY RESOLUTION 07-04 SECTION 6.03(J)

WHEREAS, damage to the Santa Ana River Levees caused by Project 5-58 must be repaired before the rainy season begins in order to protect residences, habitat, and District facilities from flooding; and

WHEREAS, the Levee damage is a sudden, unexpected occurrence that poses a clear and imminent danger to residences, habitat, and District facilities requiring immediate action to prevent or mitigate loss or impairment of life, health, property, and essential public services; and

WHEREAS, the Levee damage constitutes an emergency within the meaning of Public Contract Code Sections 22050 and 1102, and the Delegation of Authority Resolution 07-04 Section 6.03(J); and

WHEREAS, the General Manager utilized emergency purchasing authority to negotiate and award a contract to Geo-Solutions Inc. to provide Levee repair services for Newport Sewer and Force Mains, Bitter Point to Coast Trunk Sewer, Contract No. 5-58 for an amount not to exceed \$2,038,000; and

WHEREAS, the General Manager utilized emergency purchasing authority to negotiate and award a contract to Jamison Engineering Contractors, Inc. to provide supporting construction services for Newport Sewer and Force Mains, Bitter Point to Coast Trunk Sewer, Contract No. 5-58 for an amount not to exceed \$670,000; and

WHEREAS, the General Manager utilized emergency purchasing authority to negotiate and award a professional design services agreement to Black and Veatch to

provide engineering support services for Newport Sewer and Force Mains, Bitter Point to Coast Trunk Sewer, Contract No. 5-58 for an amount not to exceed \$1,200,000; and

WHEREAS, there is a need to continue proceeding with the emergency Levee repairs initiated by the General Manager; and

WHEREAS, the environmental impacts of Project 5-58 were previously studied in the Environmental Impact Report for the Replacement of Newport Trunk Sewer and Force Mains, Contract No. 5-58, certified by the District's Board of Directors on April 27, 2005 ("EIR"); and

WHEREAS, minor changes and additions are required in the previously certified EIR to address the environmental impacts of modifying Project 5-58 to include emergency repairs to the Santa Ana River Levees; and

WHEREAS, the proposed modifications of Project 5-58 do not require the preparation of a subsequent EIR or negative declaration pursuant to Public Resources Code Section 21166 or CEQA Guideline Section 15162.

NOW, THEREFORE, the Board of Directors of Orange County Sanitation District hereby resolves, determines, and orders:

Section 1. The Board finds that the Levee damage constitutes an emergency within the meaning of Public Contract Code Sections 22050 and 1102, and the Delegation of Authority Resolution 07-04 Section 6.03(J).

Section 2. The Board ratifies the General Manager's use of emergency purchasing authority to negotiate and award a contract to Geo-Solutions Inc. to provide Levee repair services for Newport Sewer and Force Mains, Bitter Point to Coast Trunk Sewer, Contract No. 5-58 for an amount not to exceed \$2,038,000.

Section 2. The Board ratifies the General Manager's use of emergency purchasing authority to negotiate and award a contract to Jamison Engineering Contractors, Inc. to provide supporting construction services for Newport Sewer and Force Mains, Bitter Point to Coast Trunk Sewer, Contract No. 5-58 for an amount not to exceed \$670,000.

Section 3. The Board ratifies the General Manager's use of emergency purchasing authority to negotiate and award a professional design services agreement to Black and Veatch to provide engineering support services for Newport Sewer and

Force Mains, Bitter Point to Coast Trunk Sewer, Contract No. 5-58 for an amount not to exceed \$1,200,000.

Section 4. The Board finds a need to continue proceeding with the emergency Levee repairs initiated by the General Manager.

Section 5. The Board finds that the modifications of Project No. 5-58 to include emergency repairs to the Santa Ana Levees do not require the preparation of a subsequent EIR or negative declaration pursuant to Public Resources Code Section 21166 and CEQA Guidelines Section 15162. The Board determines that an Addendum to the EIR is appropriate pursuant to CEQA Guideline Section 15164.

Section 6. This resolution shall take effect immediately upon its adoption.

PASSED AND ADOPTED at a regular meeting held September 22, 2010.

Chair, Orange County Sanitation District

ATTEST:

Clerk of the Board