

North Coast County Water District
Water Recycling Storage Tank
Location Project

Draft Supplemental Initial Study/
Mitigated Negative Declaration

Prepared for
North Coast County Water District
Pacifica, CA

July 2007

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DATE: July 10, 2007
SUBJECT: Supplemental Initial Study/Mitigated Negative Declaration (SIS/MND)

Pursuant to the California State Public Resources Code and the California Environmental Quality Act (CEQA) Guidelines, as amended to date, the North Coast County Water District (NCCWD) submits a Supplemental Initial Study/ Mitigated Negative Declaration (SIS/MND) for the North Coast County Water District Water Recycling Storage Tank Location Project (Project).

PROJECT OVERVIEW

The NCCWD's Water Recycling Project (WRP) will provide tertiary treated wastewater that meets the California Department of Health Services standards for the production and use of recycled water (Title 22 standards) from the City of Pacifica's Calera Creek Water Recycling Plant (CCWRP) to irrigation sites within the City of Pacifica. The CCWRP has been producing tertiary treated wastewater since 2000.

In 2004, the North Coast County Water District (NCCWD) prepared a Draft Initial Study/Mitigated Negative Declaration (WRP IS/MND) for the project. A Final Initial Study/Responses to Comments was adopted in November 2004 with Conditions of Approval by the NCCWD (State Clearinghouse No.2004042138). The NCCWD has not started construction on any elements of the project. The WRP studied in the 2004 IS/MND included a pipeline routed from the CCWRP to a storage tank in Sharp Park, a primary distribution pipeline, and a pump station including chemical and electrical buildings at the CCWRP. The WRP IS/MND also analyzed the effects of using the recycled water at various locations within the City of Pacifica.

Following adoption of the WRP IS/MND, and in response to public concerns over the location of a recycled water storage tank within Sharp Park, the NCCWD decided to pursue an alternative location for the tank site. The NCCWD has identified two alternative locations for the tank: one on their property on Gypsy Hill and the other at the CCWRP site where the recycled water originates (see Figure 2-1). These alternative tank locations are the subject of this document. The selection of the tank location will be determined by the NCCWD Board of Directors (as Lead Agency) and the final selection will take into account the potential environmental impacts associated with the alternative sites as described in this document, and also the construction and operational costs of the Project.

The NCCWD has prepared this SIS/MND in accordance with the requirements of the Public Resources Code Section 33000 et seq. and State CEQA Guidelines Section 15163, subsections (a) and (b). Subsection (a) states that "the Lead Agency can prepare a supplement to an EIR if only minor additions or changes are necessary" to make the previous document apply. Subsection (b) states that "the supplement...need contain only the information necessary to make the previous EIR adequate for the project as revised." Note that is document is not an EIR, but an Initial Study (IS); this section is applicable to preparation of an IS as well.

The NCCWD determined that only minor modification of the original document would be necessary to make the original document adequately address the impacts associated with the Project. Therefore, the NCCWD has prepared this SIS/MND and all BMPs, avoidance protocol, and mitigation measures from the WRP Draft IS/MND and Responses to Comments are

incorporated by reference. The Mitigation, Monitoring and Reporting Plan of the WRP Final IS/MND is included as Appendix A.

FINDINGS

The NCCWD, which has prepared the attached Supplemental Initial Study/Mitigated Negative Declaration on alternative water tank locations, finds that:

Based on the environmental evaluation presented in both Initial Studies, the Project will not cause significant adverse effects related to aesthetics, air quality, agricultural resources, hazards and hazardous materials, hydrology/water quality, land use/planning, mineral resources, noise, population/housing, public services, recreation, transportation/traffic, and utilities/service systems. In addition, substantial adverse effects on humans, either direct or indirect, will not occur. The Project does not affect any important examples of the major periods of California prehistory or history. Nor will the project: cause a fish or wildlife population to drop below self-sustaining levels; threaten to eliminate a plant or animal community; or reduce the number or restrict the range of a rare or endangered plant or animal.

Engineering design of individual activities, Best Management Practices (BMPs) and all mitigation measures incorporated from the 2004 project (WRP IS/MND) will ensure that all impacts remain less than significant. In addition, the following measures specific to the storage tank location project have been included to insure that impacts of the construction of the storage tank at either tank site will remain less than significant.

Impact BIO-1 (CCWRP Site): Storage tank construction activities at the CCWRP have the potential to impact the California red-legged (CRLF) population adjacent to the CCWRP through sedimentation and erosion during construction. In addition, CRLF have been known to migrate through the CCWRP.

Mitigation Measure BIO-1: The following take avoidance measures apply specifically to CRLF, which has confirmed presence at the CCWRP, but also will apply to the San Francisco garter snake (SFSG) should they occur in Calera Creek. These measures only apply to project construction activities that take place in within the CCWRP property.

All contractors and work crew in the project area will be trained by a qualified biologist to identify CRLF and SFSG, to understand their habitat requirements, and instructed to halt construction if either of these species are observed in the construction zone of the project, and contact CDFG and USFWS for guidance on how to proceed.

- 1) A qualified biologist shall conduct a pre-construction survey of the project area to determine if CRLF or SFSG are present. The survey shall include all areas that will be directly impacted by project activities. In the event that any individuals are found, the CDFG and USFWS shall be contacted for guidance on how to proceed.
- 2) Just prior to the pre-construction survey, a barrier shall be installed around the disturbance area to prevent any CRLF or SFSG from entering the construction area. The qualified biologist in consultation with CDFG and USFWS shall determine the design, location, and extent of the required barrier.
- 3) Construction equipment shall avoid disturbance of the Calera Creek watercourse. The staging area for construction equipment shall be at least 100 feet away from the Calera Creek watercourse.

- 4) A qualified biologist shall be on site to monitor activities during all trench work at the CCWRP.

Effectiveness: Implementation of this measure will ensure that significant adverse impacts to CRLF and SFGS do not occur
 Implementation: NCCWD shall contract with qualified biologist
 Timing: Prior to and during construction
 Monitoring: The biological monitor shall provide a report of monitoring results to the NCCWD and the City of Pacifica (as Responsible Agency)

Impact BIO-2 (Gypsy Hill Pipeline Route and Tank Site): Potential nesting trees for raptor and passerine species occur within and adjacent to the pipeline segment from Clarendon Road to Gypsy Hill and at the Gypsy Hill tank site. These birds could be adversely affected if construction occurs during nesting season (February 1 through August 31 of any given year).

Mitigation Measure BIO-2: If construction activities along the Clarendon Road to Gypsy Hill pipeline segment or at the Gypsy Hill tank site cannot occur outside of the nesting season (February 1 through August 31 of any given year), the NCCWD shall retain a qualified biologist to conduct a pre-construction survey for nesting birds not more than 14 days prior to the start of construction activities. Surveys shall be conducted within the trees that have potential habitat (those that are located within 250 feet of the pipeline segment and at the Gypsy Hill tank site). If nesting birds are found, the project could be delayed until after nesting is completed. Work may occur if an adequate buffer, as determined by a qualified biologist in consultation with California Department of Fish and Game (CDFG), can be established between the construction activity and the nest. Typically CDFG requires a 50 foot buffer for passerine nests and a 250 foot buffer for raptor nests.

Effectiveness: Implementation of this measure will ensure that significant adverse impacts to nesting birds do not occur
 Implementation: NCCWD shall contract with qualified biologist
 Timing: Prior to and during construction
 Monitoring: The qualified biologist shall provide a report of monitoring results to the NCCWD and the City of Pacifica (as Responsible Agency)

Impact BIO-3 (Gypsy Hill Pipeline Route): The San Francisco dusky-footed woodrat habitat exists within this corridor. If San Francisco dusky-footed woodrat nests are within 250 feet of the project site, construction activities may adversely affect this species.

Mitigation Measure BIO-3: A preconstruction survey for woodrat nests shall be conducted by a qualified biologist. If nests are found within 250 feet of the project site, the biologist shall determine if the nest is active and consult CDFG to determine the currently approved measures to avoid disturbance or relocate an active nest. The contractor for the NCCWD shall implement the recommendations of the biologist.

Effectiveness: Implementation of this measure will ensure that significant adverse impacts to San Francisco dusky-footed woodrats do not occur
 Implementation: NCCWD shall contract with a qualified biologist
 Timing: Prior to and during construction

Monitoring: NCCWD; the qualified biologist shall provide a report of monitoring results to the NCCWD and the City of Pacifica (as Responsible Agency)

Impact CUL-1 (All sites): Construction of the proposed project could reveal as yet unknown prehistoric or historic archaeological resources along the Gypsy Hill pipeline route, at the Gypsy Hill tank site, or at the CCWRP tank site.

Mitigation Measure CUL-1: Prior to the initiation of construction or ground-disturbing activities, the NCCWD Project Manager shall conduct a tailgate meeting to inform all construction personnel of the potential for exposing subsurface cultural resources and to recognize possible buried cultural resources.

Personnel shall be informed of the procedures that will be followed upon the discovery or suspected discovery of archaeological materials, including Native American remains and their treatment.

Effectiveness: Implementation of this measure will ensure that significant adverse impacts to cultural resources do not occur.
 Implementation: NCCWD
 Timing: During a pre-construction field meeting with contractors
 Monitoring: NCCWD, sign-off in the Mitigation Monitoring and Reporting plan once the meeting has been conducted

Mitigation Measure CUL-2: Construction documents shall contain a “stop work provision” stating that upon discovery of possible buried prehistoric and historic cultural materials (including potential Native American skeletal remains)¹, work within 10 meters (30 feet) of the find shall be halted and the NCCWD Project Manager shall be notified.

The Project Manager shall then retain a qualified archaeologist to review and evaluate the find. Construction work shall not begin again until the archaeological or cultural resources consultant has been allowed to examine the cultural materials, assess their significance, and offer proposals for any additional exploratory measures deemed necessary for the further

1 Significant prehistoric cultural resources may include:

- a. Human bone – either isolated or intact burials
- b. Habitation (occupation or ceremonial structures as interpreted from rock rings/features, distinct ground depressions, differences in compaction (e.g., house floors)
- c. Artifacts including chipped stone objects such as projectile points and bifaces; groundstone artifacts such as manos, metates, mortars, pestles, grinding stones, pitted hammerstones; and shell and bone artifacts including ornaments and beads.
- d. Various features and samples including hearths (fire-cracked rock; baked and vitrified clay), artifact caches, faunal and shellfish remains (which permit dietary reconstruction), distinctive changes in soil stratigraphy indicative of prehistoric activities.
- e. Isolated artifacts

Historic cultural materials may include finds from the late 19th through early 20th centuries. Objects and features associated with the historic period can include:

- a. Structural remains or portions of foundations (bricks, cobbles/boulders, stacked fieldstone, postholes, etc.).
- b. Trash pits, privies, wells and associated artifacts
- c. Isolated artifacts or isolated clusters of manufactured artifacts (e.g., glass bottles, metal cans, manufactured wood items, etc.
- d. Human remains

In addition, cultural materials including both artifacts and structures that can be attributed to Hispanic, Asian, and other ethnic or racial groups are potentially significant. Such features or clusters of artifacts and samples include remains of structures, trash pits, and privies.

evaluation of, and/or mitigation of adverse impacts to, any potential historical resources or unique archaeological resources that have been exposed.

If the discovery is determined to be a unique archaeological or historical resource, and if avoidance of the resource is not possible, the archaeologist shall inform the Project Manager of the necessary plans for treatment of the find(s) and mitigation of impacts. The treatment plan shall be designed to result in the extraction of sufficient non-redundant archaeological data to address important regional research considerations. The Project Manager shall insure that the treatment program is completed. The work shall be performed by the archaeologist, and shall result in a detailed technical report that shall be filed with the California Historical Resources Information System, Northwest Information Center, CSU Rohnert Park. Construction in the immediate vicinity of the find shall not recommence until treatment has been completed.

If human remains are discovered, they shall be handled in accordance with State law including immediate notification of the County Medical Examiner/Coroner.

In addition, the contract documents shall recognize the need to implement any mitigation conditions required by to comply with Section 106 regulations. In general, the appropriate construction conditions should be included within the General Conditions section of any contract that has the potential for ground disturbing operations.

Effectiveness:	Implementation of monitoring during construction will prevent significant impacts by halting construction before damage is done and allowing the resources to be documented
Implementation:	NCCWD shall include this measure in project plans and specifications. This measure shall be incorporated into building permit plans and construction contracts; NCCWD shall implement these measures
Timing:	Measures shall be in evidence in project plans prior to issuance of the Coastal Development Permit. Actual monitoring shall occur during ground disturbing activities.
Monitoring:	NCCWD by inclusion in project plans and construction documents; the archaeological monitor shall provide a report of monitoring results to the North Coast County Water District and the City of Pacifica (as Responsible Agency)

Mitigation Measure CUL-3: Archaeological monitoring on a full-time basis shall be undertaken during subsurface construction near the Sharp Park Golf Course area (for the distribution pipeline alignment), and other sites, as listed by the National Historic Preservation Act Section 106 Compliance Report currently being prepared for this project.

Actions that potentially require monitoring are any ground disturbing activities including, but not limited to, pipeline installation and construction staging areas.

Effectiveness:	Implementation of monitoring during construction will prevent significant impacts by halting construction before damage is done and allowing the resources to be documented
Implementation:	NCCWD shall include this measure in project plans and specifications. This measure shall be incorporated into building permit plans and construction contracts; NCCWD shall implement these measures.

Timing: During any subsurface construction activities as designated by the National Historic Preservation Act Section 106 Compliance Report

Monitoring: NCCWD; the archaeological monitor shall provide a report of monitoring results to the NCCWD and the City of Pacifica (as Responsible Agency)

Impacts to cultural resources will be reduced to a less-than-significant level with the implementation the above mentioned mitigation measures.

BASIS OF FINDINGS

Based on the Supplemental Initial Study/MND, the project design (including incorporated BMPs) will avoid, minimize, and reduce impacts to biological resources, cultural resources, and geology to a less-than significant level.

Attached is the Supplemental Initial Study prepared for the Project. The public can review documents used in preparation of the Initial Study online at www.nccwd.com, or at the North Coast County Water District Office, located at 2400 Francisco Boulevard, Pacifica, CA 94044-6039. All written requests should be addressed to the attention of Cari Lemke.

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Appendix B: Holman and Associates Cultural Resources Survey, North Coast Water District Recycled Water Project, Redesign for Gypsy Hill Line. June 15, 2007.

Appendix C: Geotechnical Exploration: Calera Creek Water Recycling Pump Station. November 2006. Prepared by Engeo Incorporated, Project No. 7443.1.001.01

Appendix D: Geotechnical Investigation, North Coast County Water District Gypsy Hill Tank Pacifica, California. October 14, 2005. Prepared by Land/Marine Geotechnics. Project No. 105.005.

Appendix E: Revised California Natural Diversity Database (CNDDDB) List and Plant Species Observed on Site, May 2007

Appendix F: Mitigation Monitoring and Reporting Plan (MMRP)

1.0 Introduction

1.1 Project Background

In 2004, the North Coast County Water District (NCCWD) prepared a Draft Initial Study/Mitigated Negative Declaration (WRP IS/MND) for the project. A Final Initial Study/Responses to Comments was adopted in November 2004 with Conditions of Approval by the NCCWD (State Clearinghouse No.2004042138). The NCCWD has not started construction on any elements of the project. The WRP studied in the 2004 IS/MND included a pipeline routed from the CCWRP to a storage tank in Sharp Park, a primary distribution pipeline, and a pump station including chemical and electrical buildings at the CCWRP. This WRP IS/MND also analyzed the effects of using the water at various locations within the City of Pacifica.

Following adoption of the WRP IS/MND, the NCCWD determined that the proposed location of the water storage tank located at the City of San Francisco's Sharp Park was not practical for various reasons. Two alternative locations for the tank are proposed: one on NCCWD property on Gypsy Hill and the other at the Calera Creek Water Recycling Plant (CCWRP) where the recycled water originates. The selection of the tank location will be determined by the NCCWD Board of Directors (as Lead Agency) and the final selection will take into account the potential environmental impacts associated with the alternative sites as described in this document, and on the construction and operational costs of the Project.

Therefore, this document has been prepared to assess changes in the WRP IS/MND. The NCCWD has prepared this SIS/MND in accordance with the requirements of the Public Resources Code Section 33000 et seq. and State CEQA Guidelines Section 15163(a). Although there is a change in the project description, the NCCWD determined that only minor modification of the original document would be necessary to make the original document adequately address the impacts of the currently revised project. All BMPs, avoidance protocol, and mitigation measures from the WRP Draft IS/MND and Responses to Comments are incorporated by reference. The Mitigation Monitoring and Reporting Plan (MMRP) from the WRP Final IS/MND is included as Appendix A of this document.

1.2 Purpose of this Supplemental Initial Study/Mitigated Negative Declaration

The environmental analysis of the WRP that was conducted in the 2004 IS/MND is still valid for all aspects of the project except for the elements related to the location of the tank and the tank feed pipeline and changes to the pump station design as analyzed in the 2004 document. Only these aspects of the project will be analyzed in this IS/SMND.

1.3 Purpose and Document Organization

The purpose of this document is to evaluate the potential environmental effects of the change in recycled water tank location and pump station design for the previously approved North Coast County Water District WRP.

- Chapter II – Project Description
This chapter describes the changes to the project description that will be evaluated by this Supplemental Initial Study. This chapter also contains descriptions of mitigation incorporated into the project, including BMPs.

- Chapter III – Environmental Checklist and Responses
This chapter contains the Environmental Checklist that identifies the degree of project impact under each environmental discipline, and a brief discussion of each checklist response. This chapter also contains the Mandatory Findings of Significance.
- Chapter IV – References
This chapter identifies the references and sources used in the preparation of this IS/ND.

Appendix A: Water Recycling Project, Final Initial Study Mitigation Monitoring and Reporting Plan (MMRP), Nov. 2004

Appendix B: Holman and Associates Cultural Resources Survey, North Coast Water District Recycled Water Project, Redesign for Gypsy Hill Line. June 15, 2007.

Appendix C: Geotechnical Exploration: Calera Creek Water Recycling Pump Station. November 2006. Prepared by Engeo Incorporated, Project No. 7443.1.001.01

Appendix D: Geotechnical Investigation, North Coast County Water District Gypsy Hill Tank Pacifica, California. October 14, 2005. Prepared by Land/Marine Geotechnics. Project No. 105.005.

Appendix E: Revised California Natural Diversity Database (CNDDDB) List and Plant Species Observed on Site, May 2007

Appendix F: Mitigation Monitoring and Reporting Plan (MMRP)

2.0 Project Description

The North Coast County Water District Water Recycling Project (WRP) will supply recycled water to the central portion of the City of Pacifica. As stated in Chapter 1, an IS/MND was adopted for the Project in 2004 (hereinafter known as the WRP IS/MND). However, changes to the project description require additional environmental review which is provided in this SIS/MND. Any new impacts related to the change in project description will have mitigation measures to reduce all impacts to below CEQA thresholds of significance; all other mitigation measures, Best Management Practices (BMPs) and other avoidance protocol listed in the WRP IS/MND to mitigate impacts identified in that document are incorporated by reference.

2.1 Water Recycling Project Tank Site Description

The following describes the location of the water tank and the primary distribution pipeline to the tank as was listed in the WRP IS/MND:

Water Storage Tank at Sharp Park. The above-ground water storage tank will be located in the vicinity of the existing Sharp Park Archery Range (see Figure II-7 in 2004 MND). This tank will be circular and will be approximately 28 feet high by 55 feet in diameter. A below-ground storage tank containing potable water from the SFPUC system already exists at this site, and will be removed. A temporary pipeline will be installed to bypass the existing tank so that it can be taken out of service. The tank will then be abandoned and portions of the structure removed as required to facilitate site grading and construction of the new tank. The temporary pipeline will remain in service to provide irrigation water to the golf course until the recycled water system commences operation. The temporary pipeline will be less than 50 feet long. The existing pipeline from the San Francisco Jail will be abandoned (drained and left in place). The grading to install the new water tank is estimated to be about 250 cubic yards. The new water tank will be made of welded steel and will sit on a concrete foundation. A maximum of 5 new emergency lights will be at the water tank site; this lighting will be manually controlled (as opposed to motion-sensitive).

Primary Distribution Pipeline to Water Tank. From the pump station to the Pacifica Beach Promenade, the reclaimed water pipeline will be installed in street and highway rights-of-way. As shown in Figures II-7, the route will be from the Calera Creek Water Recycling Plant (CCWRP) out to Highway 1, then north on the west side of Highway 1 to Bradford Way, then to Francisco Boulevard, under the Highway 1 at the golf cart tunnel, north on Lundy Way and then east on Archery Range Road up to the new above-ground reservoir site (also the site of the existing below ground water tank, to be removed). About 3,000 feet of new pipeline will be installed in the existing Archery Range road that goes up to the reservoir site. The pipeline will "T" from Francisco Boulevard at the golf cart tunnel that runs under Highway 1. At the golf cart tunnel the pipeline will either be buried or will be jack and bored under the highway. The pipeline will be 12" in diameter and will be either high density Polyethylene or Ductile Iron pipe.

Minimal natural lands will be disturbed in the pipeline installation, as all of the proposed pipeline will be installed in existing road rights-of-way in to the recycled water storage tank. No gradient is needed on the pipeline as it will be connected to the new pump station. Because this is a pipeline installation, the trench will either be backfilled or plated in traffic areas at the close of each workday, to ensure no evening interruption of vehicle travel during the construction process.

2.2 Alternative Tank Storage Locations

The following paragraphs replace the paragraphs above describing the water tank location and primary distribution pipeline line to the water tank. All of project features are located within the City of Pacifica, San Mateo County. The Gypsy Hill site is located on the San Francisco South United States Geologic Survey (USGS) 7.5 minute quadrangle, and the Calera Creek Water Recycling Plant locations are shown on the Montara Mountain 7.5 min USGS quadrangle. The new site descriptions are as follows. See also Table 2-1 for a comparison between these tank descriptions and the tank description as analyzed in the WRP IS/MND.

Water Tank Alternatives A1 and A2: Calera Creek Water Recycling Plant. The CCWRP is located at 700 Coast Highway, in the City of Pacifica. There are two alternatives for the tank at the CCWRP, including a below-ground tank and an above ground tank.

Tank A1 is the below ground option. It will be installed adjacent to the existing filter building in a paved area underlain by engineered fill (see Photo 1 and Figures 2-1 and 2-2). Tank A1 will be built with reinforced concrete. This tank will be positioned adjacent to the existing road that circles the filter building. The tank will be approximately 60 feet long by 36 feet wide by 22 feet high, with a capacity of 300,000 gallons. Construction of the underground tank will require removal of approximately 3,800 cubic yards of dirt from the site which will be trucked from the site and disposed of at the Ox Mountain landfill in Half Moon Bay for use as daily cover over landfilled waste. A limited amount of repaving will be required in the construction zone following tank installation.

Tank A2, the above ground alternative, will also be built with reinforced concrete and will be located next to the existing filter building (Figure 2-3: Above Ground Tank Location, CCWRP). It will measure 40 feet long, by 38 feet wide, by 32 feet high, with a capacity of 300,000 gallons. Under this option, approximately 800 cubic yards of dirt will be removed from the site and hauled to the Ox Mountain landfill in Half Moon Bay for use as daily cover.

Water Tank Alternative Location B: Gypsy Hill. The above-ground recycled water storage tank will be located on the same property as the NCCWD's Gypsy Hill potable water tank, currently being built on the site (and replacing the previous NCCWD tank at this site). This site is at the end of Gypsy Hill Road (APN 016-460-030) (Figure 2-1: Project Location and Figure 2-4: Gypsy Hill Tank Location). As with the potable water tank, the recycled water tank will be circular and will be made of welded steel on a concrete foundation. It will be approximately 28 feet high by 55 feet in diameter with a capacity of 400,000 gallons. This tank will be considerably smaller than the potable water tank (Photos 2 and 3). Placement of the tank requires grading to provide a platform. The grading will remove 100 cubic yards of dirt that will be hauled to the Ox Mountain landfill to be used as daily cover. A maximum of five new emergency lights will be at the water tank site; this lighting will be manually controlled (as opposed to motion-sensitive).

The NCCWD, as Lead Agency, will decide on the best alternative based on both environmental and economic considerations. Please refer to Table 2-1 for a comparison of the new alternatives and the original location at Sharp Park. Figure 2-1 shows the locations of all alternatives as well as the distribution pipeline alignment for each alternative.

Pipelines

If either Tank Locations A1 or A2 (at the CCWRP) are selected, the recycled water tank will tie into the primary distribution pipeline at the CCWRP. The distribution pipeline route has not changed from the route proposed in the WRP IS/MND. It will begin at the CCWRP, then go north and then east out to Highway 1, then north on the west side of Highway 1 to Bradford Way, then to Francisco Boulevard, Oceana Boulevard and Clarendon Road (See Figure 2-1). The pipeline will be connected to the new pump station, described below. As listed and analyzed in the WRP IS/MND, the pipeline installation trench will either be backfilled or plated in traffic areas at the close of each workday to prevent interruption of commuter vehicle travel during the construction process. The pipeline to the Archery Range as described in the WRP IS/MND will no longer be part of the project.

If Tank Location B (Gypsy Hill) is selected, the distribution pipeline will follow the same route as that for Tank Locations A1 and A2 (and as analyzed in the WRP IS/MND). A tank feed pipeline will be required to connect the Gypsy Hill tank with the primary distribution pipeline. This tank feed pipeline will be installed in street and highway rights-of-way and in the NCCWD right-of-way to Gypsy Hill (shown in Figure 2-5). The tank feed pipeline will connect to the distribution pipeline at Clarendon Road then will traverse a section of open space land from the eastern end of Clarendon Road to Gypsy Hill. As listed and analyzed in 2004, the pipeline will be designed to enable flow in both directions and water from the storage tank to the irrigation sites will also travel through this pipeline. From Clarendon Road to the Gypsy Hill site, the pipeline will run parallel to the NCCWD's existing potable water pipeline and will share that easement. The NCCWD's potable water pipeline will be replaced as part of the project requiring trenching for the removal and replacement of the old potable water pipeline. Both pipelines will likely be either high density polyethylene, PVC or ductile iron, the same materials as those analyzed in the WRP IS/MND. The tank feed pipeline to Gypsy Hill and replacement of the existing potable water pipeline is expected to require an additional 10 foot wide temporary construction easement on each side of NCCWD's foot wide permanent easement, for a total of 30 feet. If this alignment is chosen, appropriate methods will be taken to work with the resident(s) adjacent to the existing pipeline easement to minimize disturbance related to the construction of this pipeline. Once construction is completed, all construction areas will be revegetated and erosion control planting will be added as necessary. The pipeline to the Archery Range as described in the WRP IS/MND will no longer be part of the project.

Recycled Water Pump Station

The Recycled Water Pump Station will be located adjacent to the existing filter structure at the CCWRP, but it will be located on the south east side of the structure instead of the south west side, as was analyzed in the WRP IS/MND (see Figure 2-6, CCWRP Pump Station Location). The general location of the pump station at the plant is the same for all tank site alternatives; however, the configuration of the buildings will vary between alternatives as shown in Figures 2-2, 2-3, and 2-6. The size of the pump station and utility buildings (electrical and chemical rooms) will also vary depending on the choice of the water tank location. The building dimensions for each alternative location are listed in Table 2-1. In every case, the buildings are slightly larger than those analyzed in the WRP IS/MND, however, the changes are minor and will not affect the overall appearance or utility of the structures.

For the Gypsy Hill tank alternative, the pump station includes two approximately 700 gallon-per-minute pumps. This equipment will occupy an area of 234 square feet (18 feet long by 13 feet wide) (see Figure 2-4).

For the CCWRP tank alternatives, there will be two pumping facilities; one to pump from the clearwell in the CCWRP to the tank and a second booster pump station to pump from the tank to the recycled water distribution system. There will be two submersible pumps in the clearwell and the booster pump station will include 4 main pumps of approximately 400 gpm capacity, 2 jockey pumps at approximately 75 gpm capacity and one above ground 5,000 gallon hydropneumatic tank. The equipment will occupy an area of about 700 square feet.

For all alternatives, the pump station includes a chemical building and an electrical building. The chemical building will contain facilities to feed a sodium hypochlorite solution, which is a disinfectant, into the recycled water and the electrical building will house electrical equipment for the control and operation of the pumping facilities. The chemical building will be between 100 and 200 square feet in size.



Photo 1: CCWRP tank and pump station location. The tanks and pump station will be located on the asphalt pavement in the foreground (TRA, July 2007).

Figure 2-1: Project Location

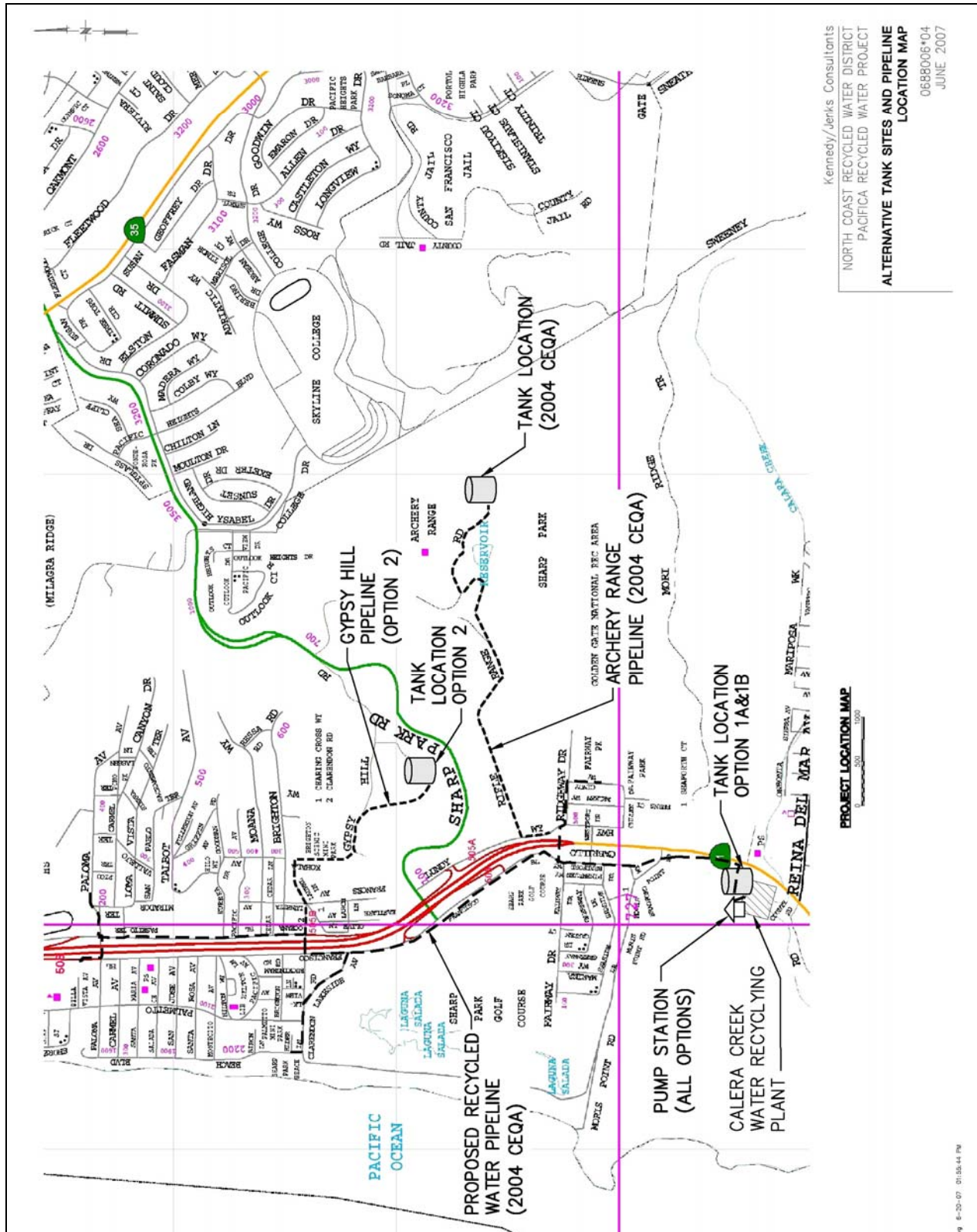


Figure 2-4: Gypsy Hill Tank Location

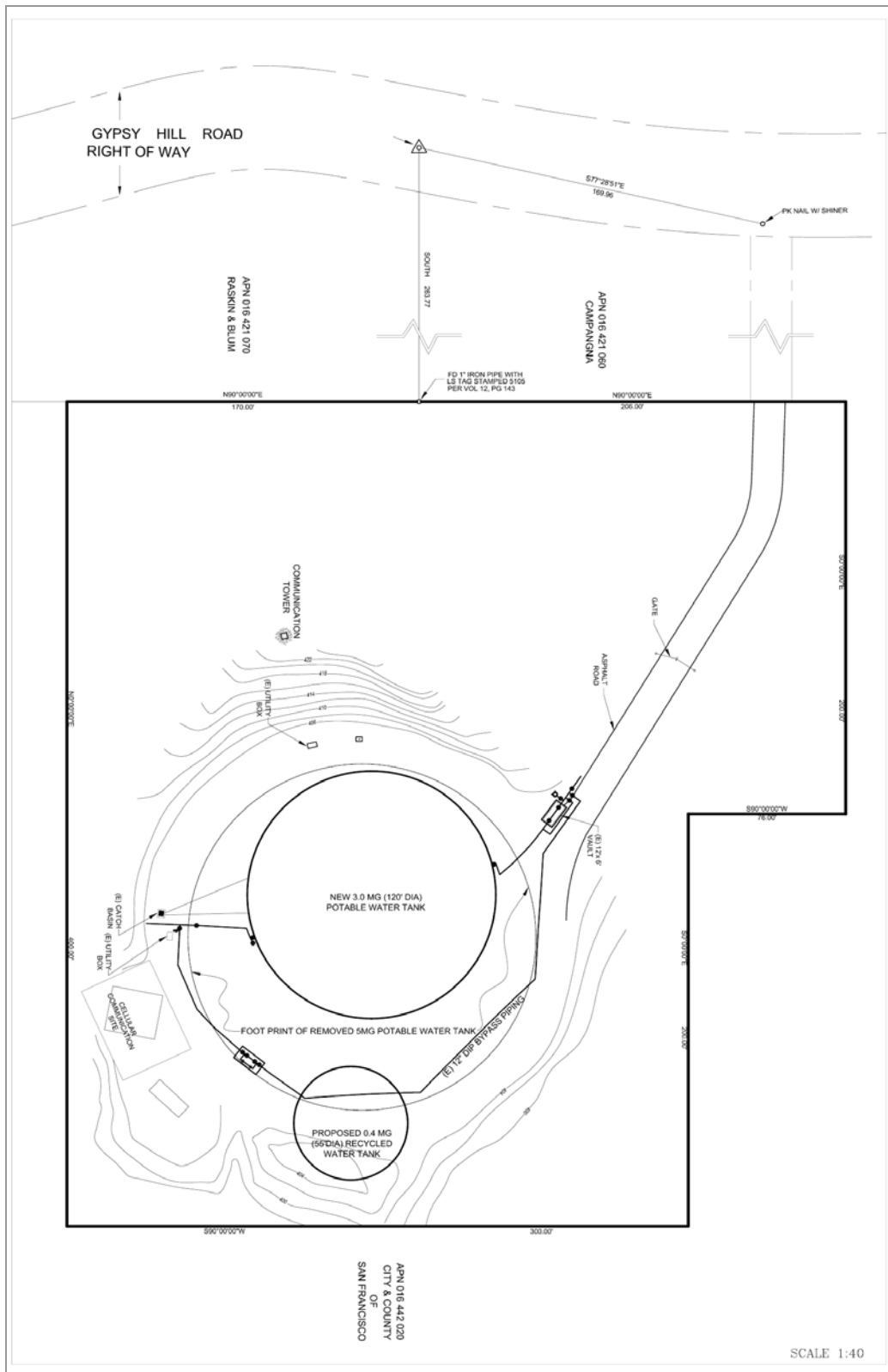




Photo 2: New three million gallon potable water tank at NCCWD's Gypsy Hill site (TRA, June 2007)



Photo 3: Gypsy Hill recycled water tank site. This site is just adjacent to the new potable water tank (TRA, May 2007)

Table 2-1. Comparison of Tank Alternatives

Comparison of Alternatives	WRP IS/MND (2004 project)	Alternative A1 (Current project)	Alternative A2 (Current project)	Alternative B (Current project)
Tank Location	Sharp Park	CCWRP	CCWRP	Gypsy Hill
Aboveground or Underground	Above ground	Underground	Above ground	Above ground
Tank Size (Gallons) Gross / Useable	498,000 / 400,000	355,000 / 300,000	364,000 / 300,000	498,000 / 400,000
Tank Dimensions	28 feet high by 55 feet in diameter (round)	60 feet long by 36 feet wide by 22 feet high (rectangular)	40 feet long by 38 feet wide by 32 feet high (rectangular)	28 feet high by 55 feet in diameter (round)
Tank Materials	Welded Steel	Reinforced Concrete	Reinforced Concrete	Welded Steel
Reduction in length of transmission/ distribution pipeline compared to 2004 design	Baseline Case = 0	Reduction of 5500 feet	Reduction of 5500 feet	Reduction of 2300 feet
Project elements not common to all options	Storage tank at Sharp Park; Tank feed line from Lundy Way	Storage tank at CCWRP; No tank feed line	Storage tank at CCWRP; No tank feed line	Storage tank at Gypsy Hill; Tank feed line connects to distribution pipeline at Clarendon Road
Pumping requirement	Pump to storage tank; Gravity feed to customers	Pump to storage tank and then pump to customers	Pump to storage tank and then pump to customers	Pump to storage tank; Gravity feed to customers
Pump house size/dimensions	18 feet long by 13 feet wide by 8 feet high	34 feet long by 20 feet wide by 13 feet high	34 feet long by 21 feet wide by 13 feet high	18 feet long by 13 feet wide by 8 feet high
Electrical building size/dimensions	14 feet long by 9 feet wide by 8 feet high	20 feet long by 8 feet wide by 13 feet high	21 feet long by 9 feet wide by 13 feet high	14 feet long by 9 feet wide by 8 feet high
Chemical building size/dimensions	12 feet long by 8 feet wide by 8 feet high	15 feet long by 10 feet wide by 13 feet high	16 feet long by 11 feet wide by 13 feet high	12 feet long by 8 feet wide by 8 feet high
Addition or Reduction in Volume of soil offhauled to Ox Mtn. Landfill and number of truck trips ¹	Baseline Case = 0	+500 cubic yards 25 Trips	-1,400 cubic yards -70 Trips	-300 cubic yards -15 Trips

¹ Including offhaul volume at tank site, pump station, and along feed line to storage tank only. Truck trips are one way and are based on 20 cubic yard dump trucks.

Figure 2-5: Gypsy Hill Pipeline Alignment



2.3 BMPs or Mitigation Measures Incorporated Into the Project

The following measures are incorporated into the project, either as part of the approved WRP IS/MND, the program EIR prepared for the City of Pacifica Waste Water Facilities Plan (PWWFP EIR) for the CCWRP tank site (1994), or as standard BMPs/construction protocols for construction and operations at the CCWRP (for the CCWRP tank site). These measures will continue to apply to all aspects of the storage tank location project, and with the Mitigation, Monitoring and Reporting Plan (MMRP) will be included in the Conditions of Approval for the Project. In addition, relevant regulatory agencies, including the City of Pacifica, have BMPs to avoid or reduce both construction and operation-related impacts. These measures are described below and except where stated otherwise are applicable to both tank locations.

Aesthetics

No BMPs, WRP IS/MND Mitigation Measures or PWWFP Plan EIR Mitigation Measures are applicable to the alternative water tank sites presented in this IS/SMND. No new aesthetics impacts from visual or odor issues exceeding established CEQA thresholds will occur as a result of the changes in the Project Description. The CCWRP alternative tank locations place the tank among existing facilities at the Plant and the facilities are visually separated from Highway 1 by a large berm. Recreationalists along the quarry bike path will not be able to see the tank sites. The tank site at Gypsy Hill is surrounded by tall eucalyptus trees and the site's topography blocks this site from motorists along Sharp Park Road and residents in the area viewing it.

Air Quality

Standard Bay Area Air Quality Management District (BAAQMD) BMPs for construction sites were included in the WRP IS/MND, and will be implemented in this project to ensure that the construction-related emissions of particulate material do not exceed established CEQA or agency thresholds.

Applicable Best Management Practices include:

- Water all active construction areas at least twice daily and more often during windy periods and less often during rainy periods.
- Cover all trucks hauling soil, sand and other loose materials and require all trucks to maintain at least two feet of freeboard.
- Pave, apply water twice daily and less often during rainy periods, or apply non-toxic soil stabilizers on all unpaved access roads, parking areas and staging areas at construction sites.
- Sweep all paved access roads, parking areas and staging areas at construction sites daily with water sweepers.
- Sweep streets daily if visible soil material is carried onto adjacent public streets. Use water sweepers.

Biology

No BMPs or PWWFP EIR Mitigation Measures are applicable. Applicable WRP IS/MND Mitigation Measures are as follows:

- Implement take avoidance measures for California Red-legged frog (CRLF) (*Rana aurora draytonii*).
- Conduct preconstruction surveys for nesting birds
- Conduct preconstruction surveys for San Francisco dusky-footed woodrat
- Maintain special status species habitat and develop a monitoring plan

Mitigation Measures Bio-1 through Bio-3 contained in this document update the mitigation measures found in the WRP IS/MND to allow the measures to apply to the new tank sites and pipeline alignment.

Cultural Resources

The WRP IS/MND did not identify impacts to cultural resources, so there are no applicable mitigation measures from that document. No BMPs are applicable. However, the PWWFP EIR lists an applicable mitigation measure:

Measure CULT-1: Site avoidance is recommended. If avoidance is impossible, then implement testing program, and analysis pursuant to Section 106 of the Antiquities Act. Implement data recovery if the site is determined by the USACE to be eligible for nomination to the NRHP.

Geology and Soils

No BMPs or PWWFP EIR Mitigation Measures are applicable to the CCWRP tank site. Applicable mitigation from the WRP IS/MND requires the preparation of geotechnical reports. This mitigation has been updated to include the preparation of a complete geotechnical report for the CCWRP site, and the Gypsy Hill Tank site and tank feed pipeline. The recommendations in these reports, including measures to reduce the effects from a large seismic event and slope failure during the construction, will be incorporated into the project plans and specifications.

Hazards, Hazardous Materials, Public Health and Safety

Standard BMPs for fueling of vehicles used in project construction were included in the WRP IS/MND. Also included were standard construction BMPs as specified in the “Blueprint for a Clean Bay” (Bay Area Stormwater Management Agencies Association [BASMAA]). All BMPs from the WRP IS/MND are incorporated by reference.

Hydrology

The SMP IS/MND listed applicable BMPs that are incorporated by reference into this document. Because the project disturbs more than 1 acre of ground, the project is required to obtain a permit for stormwater discharges from the Regional Water Quality Control Board. The permit requires the preparation of a Storm Water Pollution Prevention Plan (SWPPP) that includes the implementation of BMPs to protect water quality. In addition, the following Standard Operational BMPs apply:

- Locate and protect storm drains in the vicinity of the site with berms or filters during wet weather periods. Make sure all subcontractors are aware of the locations of the storm drains to prevent pollutants from entering them.

- Control the amount of runoff crossing the site (especially during excavation) by using berms or temporary or permanent drainage ditches to divert water flow around the site. Reduce stormwater runoff velocities by constructing temporary check dams or berms where appropriate.
- Train employees and subcontractors in using best management practices.
- Keep all liquid paint products and wastes away from the gutter, street, and storm drains.
- Designate one completely contained area for auto parking, vehicle refueling, and routine equipment maintenance. The designated area should be well away from streams or storm drain inlets, and bermed if necessary. Make major repairs and wash vehicles at an appropriate off site facility.
- Keep materials out of the rain – prevent runoff contamination at the source. Cover exposed piles of soil or construction materials with plastic sheeting or temporary roofs.
- Keep pollutants off exposed surfaces. Place trashcans and recycling receptacles around the site to minimize litter.
- Dry sweep paved surfaces that drain to storm drains, creeks, or channels. If pavement flushing is necessary, use silt ponds or other techniques to trap sediment and other pollutants.
- Clean up leaks, drips and other spills immediately so they do not contaminate soil or groundwater or leave residue on paved surfaces. Use dry cleanup methods whenever possible. If you must use water, use just enough to keep the dust down.
- Cover and maintain dumpsters. Check frequently for leaks. Place dumpsters under roofs or cover with tarps or plastic sheeting secured around the outside of the dumpster. A plastic liner is recommended to prevent leakage of liquids. Never clean out a dumpster by hosing it down on the construction site.
- Make sure portable toilets are maintained in good working order by the leasing company and that wastes are disposed of properly. Check toilets frequently for leaks.
- Use recyclable materials whenever possible. Recycle materials such as concrete, asphalt, scrap metal, solvents, degreasers, cleared vegetation, paper, rock, and vehicle maintenance materials such as used oil, antifreeze, batteries and tires.
- Dispose of all wastes and demolition debris properly. Many construction materials can be recycled. Materials and debris that cannot be recycled must be taken to an appropriate landfill or disposed of as hazardous waste. Never bury waste materials or leave them in the street or near a creek or stream bed.

Land Use and Planning

No BMPs, WRP IS/MND Mitigation Measures or PWWFP Plan EIR Mitigation Measures are applicable. Construction of the storage tanks at either location will not conflict with existing land use and planning policies. The recycled water distribution system will mostly be installed within existing underground rights-of-way and/or easements. The new underground tank feed pipeline segment to the recycled water tank on Gypsy Hill will be underground within City of Pacifica streets and NCCWD rights-of-way. .

Noise

No BMPs, WRP IS/MND Mitigation Measures or PWWFP Plan EIR Mitigation Measures are applicable. The project will not expose people in the community to permanently excessive noise levels. Residents that live near the pipeline project site will be subjected to temporary construction noise, for a period of up to one month. Most of the noise will be generated by heavy machinery which will have the standard noise muffling devices and construction will be limited to weekdays (M-F) from 8:00 a.m. to 6:00 pm in areas near residences.

Public Services

No BMPs, WRP IS/MND Mitigation Measures or PWWFP Plan EIR Mitigation Measures are applicable. No public service providers or other public facilities will be adversely affected by the proposed project.

Recreation

No BMPs, WRP IS/MND Mitigation Measures or PWWFP Plan EIR Mitigation Measures are applicable. The project does not propose the construction or expansion of any recreational facilities nor will it result in increased population that could impact existing recreational facilities.

Transportation/Traffic

No BMPs are applicable. WRP IS/MND does not list mitigation measures. The following applicable mitigation measure is from the PWWFP Plan EIR:

Measure TRA-1: Prohibit lane closure during peak traffic hours.

Utilities and Service Systems

No BMPs, WRP IS/MND Mitigation Measures or PWWFP Plan EIR Mitigation Measures are applicable. The project does not require or result in the construction or expansion of new or existing public utility facilities service systems.

2.4 “CEQA Plus” Issues for State Revolving Fund Applicants

The project has received a Water Recycling Facilities Planning Grant from the State Water Resources Control Board (SWRCB), which requires that an environmental review be consistent with the SWRCB’s State Revolving Fund (SRF) Grant Regulations. The SRF Program is partially funded by the Environmental Protection Agency (EPA) and is therefore subject to federal regulations. To comply with applicable federal statutes and authorities, the

EPA established specific “CEQA-Plus” requirements for environmental review of projects receiving SRF grants.

Therefore, in addition to the Initial Study Checklist in the CEQA Guidelines, this Supplemental Initial Study includes the SWRCB’s “Basic Outline for Environmental Documents”. The SWRCB Outline (Table 2-2) lists project-specific information that must be disclosed, when applicable, in all environmental documents, including Initial Studies. The following table lists all outline items for the Project Description, with a determination of applicability for each in this project and a summary of either why the item is not applicable, or where the item can be found in this document.

Because this document supplements the 2004 NCCWD project, the following table has been updated to address only the issues related to the construction of the water storage tank at either tank location. A summary of the applicable SRF requirements for the water recycling project is contained in Chapter 2 of the WRP IS/MND.

Table 2-2. State Revolving Funds (SRF) Outline Listing and SRF Project Description Requirements

SRF Outline Project Description	Applicable For This Project?	Location In This Document	Summary, as applicable
A. Describe Project Objectives that Qualify the Project for SRF Funding			
1. Correction of any water quality problems associated with wastewater treatment or disposal facilities a) Public health hazards b) Pollution of impaired water bodies	No	N/A	a-b) Not applicable for the storage tank location project.
2. Compliance with water quality regulations a) Waste Discharge Requirements b) NPDES permits c) Cease and Desist orders	Yes	N/A	a-c) Water Quality regulation compliance is not affected by the storage tank location project.
3. Preventative measures for impaired and unimpaired water bodies	No	N/A	Not applicable for the storage tank location project.
4. Capacity increase	No	N/A	No increase in capacity is proposed by the storage tank

SRF Outline Project Description	Applicable For This Project?	Location In This Document	Summary, as applicable
			location project (no change from the 2004 document).
5. Wastewater recycling	Yes	Description contained in this Chapter	The storage tank location project will enable the wastewater recycling project addressed in the WRP IS/MND to proceed.
B. Explain How Objectives will be accomplished			
1. New facilities	Yes	Description contained in this Chapter	The water storage tank will be a new facility at the CCWRP site or at the Gypsy Hill site depending on which alternative is ultimately chosen. The alternative tank site is needed as the original tank location was abandoned.
2. Upgrading existing facilities	No	N/A	Not applicable for the storage tank location project.
3. Correction of inflow and infiltration problems	No	N/A	Not applicable for the storage tank location project.
C. Describe Any Existing Facilities			
1. Facilities (give physical dimensions and area of existing site) a) Treatment facilities b) Collection and/or Conveyance systems c) Storage d) Appurtenant structures e) Effluent discharge facilities f) Sludge disposal facilities	Yes	Description of existing irrigation facilities is contained in Section II of the WRP IS/MND, brief summary of the CCWRP is described here	The SBR tanks, filter building and equalization storage reservoir at the CCWRP are located on 4 acres at the North Quarry site in Pacifica, CA. There is a newly constructed three million gallon potable water storage tank at the Gypsy Hill site as well as water distribution lines.
2. Condition of facilities	Yes	Description of existing irrigation facilities is contained in Section II of the WRP	Excellent. The CCWRP is described as "state-of-the-art". The Gypsy Hill potable water storage tank will be new and will meet all water storage tank code requirements.

SRF Outline Project Description	Applicable For This Project?	Location In This Document	Summary, as applicable
		IS/MND, brief summary of the CCWRP is described here	
3. Level of treatment	No	Description contained in Section II of the WRP IS/MND	Not applicable for the storage tank location project.
4. Present effluent quality	No	Description contained in Section II of the WRP IS/MND	Not applicable for the storage tank location project.
5. Present capacity of facilities a) Average Dry Weather Flow (ADWF) capacity b) Peak Wet Weather Flow (PWWF) capacity	No	Description contained in Section II of the WRP IS/MND	Not applicable for the storage tank location project.
6. Present inflow of wastewater (ADWF and PWWF)	No	N/A	Not applicable for the storage tank location project.
D. New Facilities (describe any facilities that will be constructed, removed or modified and facility operations)			
1. Facilities (give physical dimensions and area of project site) a) Treatment facilities b) Collection and/or Conveyance systems c) Storage d) Appurtenant structures e) Effluent discharge facilities f) Sludge disposal facilities	Yes	Description contained in this Section	The approximate dimensions of the below ground tank at the CCWRP will be 60 feet long, by 36 feet wide, by 22 feet high, with a capacity of 300,000 gallons. The above ground tank at the CCWRP will measure 40 feet long, by 38 feet wide, by 32 feet high, with a capacity of 300,000 gallons. The Gypsy Hill tank will be approximately 28 feet high by 55

SRF Outline Project Description	Applicable For This Project?	Location In This Document	Summary, as applicable
			feet in diameter with a capacity of 400,000 gallons.
2. Proposed treatment level	No	N/A	Not applicable for the storage tank location project.
3. Proposed effluent quality (describe qualitatively and quantitatively)	No	N/A	Not applicable for the storage tank location project.
4. Capacities (give in terms of ADWF and PWWF) a) Design capacity (show how capacity was calculated) b) Any increase needed to serve existing development c) Population basis for capacity determination (include year) (1) Current population (2) Projected population	Yes	Description contained in this Section	The below ground tank at the CCWRP will have a capacity of 300,000 gallons. The above ground tank at the CCWRP will have a capacity of 300,000 gallons. The Gypsy Hill tank will have a capacity of 400,000 gallons.
E. Project Approvals (discuss the roles of planning and regulatory agencies which have permit or funding authority over the proposed project)	Yes	Description contained in Chapter 3 of this document.	City of Pacifica Development Permit (for project areas east of Highway 1), City of Pacifica, Coastal Development Permit (for project areas west of Highway 1, Regional Water Quality Control Board General Construction permit and Storm Water Pollution Prevention Plan, California Department of Fish and Game, California Department of Transportation (Caltrans)
F. Project Location (description of the precise location and boundaries, preferably topographic. and detail map)			
1. Existing facilities	Yes	Contained in Section II of the WRP Draft IS/MND.	The CCWRP is located at 700 Coast Highway, in the City of Pacifica. The NCCWD Gypsy Hill potable water tank is located at the end of Gypsy Hill Road in the City of Pacifica.

SRF Outline Project Description	Applicable For This Project?	Location In This Document	Summary, as applicable
2. New facilities	Yes	Contained in this Chapter	The CCWRP storage tank will be located at 700 Coast Highway in the City of Pacifica. The Gypsy Hill tank site will be located on the NCCWD property at the end of Gypsy Hill in the City of Pacifica.
3. Storage sites	Yes	Contained in this Chapter.	For the CCWRP tank site, the existing plant environs will be used for storage. For the Gypsy Hill tank site, the NCCWD property will be used for storage.
4. Staging Areas	Yes	Contained in this Chapter.	For the CCWRP tank site, the existing plant environs will be used as the staging area. For the Gypsy Hill tank site, the NCCWD property will be used as a staging area.
5. Effluent discharge sites	No	N/A	Not applicable for the storage tank location project.
6. Disposal sites	Yes	Contained in this Section.	Cut material needed to construct either water tank alternative will be off-hauled to the Ox Mountain Landfill in Half Moon Bay.
7. Affected service area	No	N/A	Not applicable for the storage tank location project.
8. Reuse sites (for water recycling)	No	N/A	Not applicable for the storage tank location project.

In addition to the SWRCB Outline, the “CEQA Plus” process requires detailed information for nine additional issues. This documentation is located within this document in the following pages:

CEQA Plus Issue	Location in document
Species protected under the Federal Endangered Species Act	Pages 36-45
Wetlands	Pages 36-45
Wild and Scenic Rivers	Pages 36-45
Coastal Zone Areas	Pages 63-65
Floodplains	Pages 60-62
Important agricultural land	Pages 31-32
Cultural Resources	Pages 45-49
Non-attainment areas for air quality	Pages 33-35
Noise and nuisance, if endangered species are affected	Pages 67-69

3.0 Environmental Checklist Form and Responses

1. Project Title: North Coast County Water District Water Recycling Storage Tank Location Project

2. Lead Agency Name and Address:

North Coast County Water District
2400 Francisco Boulevard
P.O. Box 1039
Pacifica, CA 94044-6039

3. Contact Person and Phone Number:

Kevin O'Connell, General Manager, (650) 355-3462

4. Project Location: City of Pacifica

5. Project Sponsor's Name and Address: Same as Lead Agency

6. General Plan Designation: Various

7. Zoning: Various

8. Description of the Project: See Chapter 2, Project Description

9. Surrounding Land Uses and Setting: Various, See Chapter 2, Project Description

10. Other public agencies whose approval is required:

City of Pacifica, Development Permit (for project areas east of Highway 1)
City of Pacifica, Coastal Development Permit (for project areas west of Highway 1)
Regional Water Quality Control Board General Construction permit and Storm Water
Pollution Prevention Plan
California Department of Fish and Game
California Department of Transportation (Caltrans)

In addition, there will need to be water supply agreements between NCCWD, San Francisco Public Utilities Commission (SFPUC), and the San Francisco Recreation and Park Department (SFRPD).

Environmental Factors Potentially Affected

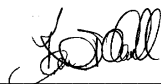
The environmental factors checked below would be potentially affected by this project, involving at least one impact that is "Less than Significant with Mitigation" as indicated by the checklist on the following pages.

	Aesthetics		Agriculture Resources		Air Quality
X	Biological Resources	X	Cultural Resources	X	Geology /Soils
	Hazards & Hazardous Materials		Hydrology / Water Quality		Land Use / Planning
	Mineral Resources		Noise		Population / Housing
	Public Services		Recreation		Transportation/Traffic
	Utilities / Service Systems		Mandatory Findings of Significance		

Determination

On the basis of this initial evaluation:

I find that the proposed Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.	
I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.	X
I find that the proposed project MAY have a significant effect on the environment and an ENVIRONMENTAL IMPACT REPORT is required.	
I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.	
I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.	



Kevin O'Connell, General Manager, NCCWD

July 9, 2007

Date

3.1 AESTHETICS	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Have a substantial adverse effect on a scenic vista?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially degrade the existing visual character or quality of the site and its surroundings?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Environmental Setting

Highway 1 is not a designated State Scenic Highway in the project area. The Scenic Highway designation for Highway 1 in San Mateo County is limited to the portion located south of Half Moon Bay to the Santa Cruz County line, a distance of at least 12 miles from the project site. No portion of the project area is visible from any section of a designated state scenic highway. However, Highway 1 is designated as a scenic resource in the City of Pacifica's General Plan/Local Coastal Plan.

Alternatives A1, A2 and B include the installation of submersible pumps, booster pump station, electrical building and chemical building at the CCWRP adjacent to the existing filter building. The submersible pumps will be sited within the existing filter building.

Alternative A1: Underground at CCWRP – The plant facility site is located at 700 Coast Highway, in the City of Pacifica. The proposed recycled water tank will be placed underground adjacent to the existing filter building (see Figure 2-2 and Photo 1). The tank will not be visible

from any above ground location. These proposed improvements will not be visible from the highway, nor will they be visible from any adjoining properties.

Alternative A2: Above ground at CCWRP – The tank will be located above ground and adjacent to the existing filter building (see Figure 2-3 and Photo1). It will not be visible from the highway as an earthen berm separates the CCWRP from the highway.

Alternative B: Above ground at Gypsy Hill – The water tank will be located on NCCWD property adjacent to an existing 4.0 million gallon NCCWD water tank (120 feet in diameter) on Gypsy Hill. The tank will measure 55 feet in diameter and 28 feet in height. The tank will not require the removal of any existing vegetation or trees as the site is currently devoid of vegetation. The entire Gypsy Hill site is surrounded by mature stands of eucalyptus trees which block views to and from the site. The new water tank will not be visible from any off-site areas, except perhaps from the water tank access road off Gypsy Hill Road. Pipelines to connect the water tank with the CCWRP will be located underground and once placed will not be visible. Disturbed areas will be reseeded after construction is complete (see Figure 4 and Photo 3). This tank will be fitted with five emergency lights which will be manually controlled and only used in emergency situations. The portion of the pipeline easement between Gypsy Hill Road and Clarendon is shared with an overhead power line (see Photo 4).



Photo 4: Portion of pipeline easement between Gypsy Hill Road and Clarendon Road with overhead powerline.

Discussion:

Would the project:

a) Have a substantial adverse effect on a scenic vista?

Alternatives A1 and A2: Less than Significant Impact. The proposed recycled water tanks at the CCWRP would have no substantial adverse effect on a scenic vista as the tanks and above ground buildings (pump station and associate chemical and electrical buildings would be in and amongst existing CCWRP buildings and not within a scenic vista. The placement of these facilities at the CCWRP presents a slight change in the existing visual environment, because new facilities would exist. However, this change would not result in an adverse change in the existing visual character.

Alternative B: Less than Significant Impact. The Gypsy Hill pipeline would not affect a scenic vista as the pipeline would be installed underground within existing NCCWD easements and road rights-of-way. Gypsy Hill is not a scenic vista. The new water tank would not be visible from any off-site areas. However, the installation of the pipeline requires vegetation clearing of the easement and an additional 10 feet on either side to allow construction equipment access. The additional 10 feet could result in the removal or trimming of branches or roots of up to 30 trees, four of which qualify as heritage trees according to the City of Pacifica's Heritage Tree Ordinance. The project requires a Development permit from the City, which will include the preparation of a Tree Protection Plan (for more information on the contents of the Tree Protection Plan, please see Chapter 3.4 (Biology) of this document. The City will determine whether additional trees will need to be planted as part of the Tree Protection Plan required by the Heritage Tree Ordinance. Since portions of the pipeline alignment can be seen from adjacent residences, tree removal or trimming of branches or roots would result in a visual change. However, the change is not considered significant as an existing overhead powerline detracts from the visual character in the easement area and the majority of the affected trees are interspersed along the pipeline route between Gypsy Hill Road and Clarendon Road, a distance of about 500 feet (there are four trees considered Heritage by the City of Pacifica's Heritage Tree Ordinance along this distance.)

The Gypsy Hill tank site has been used by the NCCWD as a tank site for years. The new recycled tank would be sited adjacent to a recently constructed larger potable water tank (to replace an older tank). There would be no significant change in existing visual character at the site. The tank site is hidden by a dense forest of mature eucalyptus trees and therefore is not visible from any off-site areas. Therefore, the impact would be less than significant.

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

All Alternatives: No Impact. Highway 1 is not a State Scenic Highway in this area. The State Scenic highway designation in San Mateo County is from the Santa Cruz County line to South City limits of Half Moon Bay and does not extend further north beyond Half Moon Bay (<http://www.dot.ca.gov/hq/LandArch/scenic/schwy1.html>). No part of the proposed recycled water distribution system will be viewable from a state scenic highway.

As stated above, up to four trees considered Heritage under the City of Pacifica's Heritage Tree Ordinance may be removed in the pipeline easement as a result of this project.

These trees are not considered scenic resources, since they are not within the viewshed of a state scenic highway.

c) Substantially degrade the existing visual character or quality of the site and its surroundings?

Alternatives A1 and A2: Less than Significant Impact. The recycled water tank at the CCWRP will be placed among existing buildings and facilities and will not substantially degrade the existing visual character or quality of the area and its surroundings.

Alternative B: Less than Significant Impact. The recycled water tank on top of Gypsy Hill would not be visible to areas outside of the property. As stated above, the site is surrounded by a thick stand of mature eucalyptus trees and the existing topography shields the site from sensitive receptors traveling along Sharp Park Road. Because of the topography and the eucalyptus forest, the neighboring residents do not have views of the tank site area. The loss of trees in the temporary construction easement along the pipeline alignment may be visible to downslope properties. However, this does not represent a significant change in existing visual character as much of the pipeline alignment in corridor-like in appearance as it is already cleared of vegetation or has been cleared within the last five years. As stated above, a Tree Protection Plan will be prepared to comply with the City's Heritage Tree Ordinance as part of the Development permit process which will ensure that loss of any Heritage trees will be replaced. Therefore, the impact will be less than significant.

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Alternatives A1 and A2: No Impact. The CCWRP site is not within view of any sensitive receptors and does not require special lighting. The buildings proposed at the CCWRP would not be visible from Highway 1 as the view is blocked by the berm located between the plant and the highway. Therefore, visual effects from light and glare at the CCWRP would not be significant.

Alternative B: Less than Significant. Emergency lighting is required at the Gypsy Hill water tank site, but the lights would only be used when needed by workers during emergency conditions. Views to the tank from off-site locations would be blocked by topography, the thick stand of eucalyptus and the newly constructed three-million gallon potable water tank. Therefore, the project would not result in a permanent change in daytime or nighttime views.

3.2 AGRICULTURE RESOURCES	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Would the project*:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

*In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland.

Environmental Setting

None of the alternatives proposed contain areas designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Natural Resources Conservation Service 2007).

Discussion:

Would the project:

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

All Alternatives: No Impact. None of the areas proposed to be either part of the pipeline alignment or the tank location are on agricultural lands or can be classified as Farmland of any of the above types.

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?

All Alternatives: No Impact. As indicated above, the site is not located on or adjacent to agricultural lands. According to the City of Pacifica General Plan, there are no known Williamson Act contracts in the City of Pacifica.

c) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use?

All Alternatives: No Impact. As indicated above, the site is not located on or adjacent to agricultural lands and the project will not affect existing agricultural operations, as none exist in the vicinity.

3.3 AIR QUALITY	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Create objectionable odors affecting a substantial number of people?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Expose sensitive receptors to substantial pollutant concentrations?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Create objectionable odors affecting a substantial number of people?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Setting

Regulatory Setting

The California Air Resources Board (CARB) is responsible for air pollution control and setting State ambient air quality standards and allowable emission levels for motor vehicles. The State is divided into air basins governed by districts. The project site is located in the Bay Area Air Quality Management District (BAAQMD). BAAQMD monitors and enforces District, State of California, and Federal air quality standards. Monitored pollutants include Ozone (O₃), Nitrogen Oxides (NO and NO₂, collectively "NOx") Carbon Monoxide (CO), Sulfur Dioxide (SO₂), Hydrogen sulfide (H₂S), particulate matter (PM₁₀ and PM_{2.5}), hydrocarbons, elemental and organic carbon, and various hazardous air pollutant compounds.

The project is located in the San Francisco Bay Air Basin. This Air Basin is an attainment area for all national pollutant standards set forth in the Federal Clean Air Act with the exception of ozone. In June 2004, the Bay Area was designated a marginal nonattainment area for the national 8-hour ozone standard. The region also exceeds State ambient air quality standards for ozone and particulate matter (PM₁₀ and PM_{2.5}). The state standards for these pollutants are more stringent than the national standards. All other pollutants are designated as "attainment" or "unclassified" for federal and state standards.

Existing Ambient Air Quality

BAAQMD operates a network of monitoring sites in the area and maintains a database of air quality data collected from these monitoring locations. The closest monitoring sites are in Redwood City, about 13 miles away from the site, and in San Francisco on Arkansas Street, about 19 miles away from the site. Ambient air quality tends to be better along the coast in Pacifica than either of these other sites, as prevailing winds carry pollutants inland.

Discussion

Would the project:

a) Conflict with or obstruct implementation of the applicable air quality plan?

All Alternatives: Less than Significant Impact. Alternative A1, the underground construction of the recycled water tank, will require removal of 500 cubic yards of soil, involving an additional 25 truck trips (over a one month period) over what was previously evaluated in the WRP IS/MND (see Table 2-1). Alternatives A2 and B will require 70 and 15 more trips respectively, than was previously evaluated in the WRP IS/MND (see Table 2-1). Activities such as trenching will be required for the Project on a temporary basis during construction only. The Project will not result in new population or growth or inconsistencies with the existing air quality management plan for the region, or in any long-term impacts to air quality. The project will not produce long-term vehicular transportation impacts or stationary source emissions that could impede implementation of the California Clean Air Act.

b) Violate any air quality standard or contribute to an existing or projected air quality violation?

All Alternatives: Less Than Significant Impact. Construction equipment emits carbon monoxide and ozone precursors, which may affect localized air quality on a short-term basis

during construction. However, because the project is small, construction emissions will not significantly contribute to violation of any air quality standard or significantly contribute to an existing or projected air quality violation. Construction emissions have been included in the emission inventory that is the basis for the regional air quality plans and are not expected to impede attainment or maintenance of ozone and carbon monoxide standards in the Bay Area (BAAQMD 1999).

Dust (PM₁₀) is the other air quality issue related to construction. The BAAQMD has identified a set of feasible PM₁₀ control measures for construction activities. These measures are incorporated into the project (see Section 2.3 of this document.) These BMPs, if properly implemented, will ensure that construction-related air quality emissions adhere to BAAQMD requirements.

c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

All Alternatives: Less Than Significant Impact. The project will cause carbon monoxide and dust emissions during construction, which are already included in the emission inventory that is the basis for the regional air quality plans within the Bay Area Air Quality Management District. The project will not result in urban growth or introduce new sources of air pollutants; therefore the project will not result in cumulative air quality impacts.

d) Expose sensitive receptors to substantial pollutant concentrations?

All Alternatives: Less Than Significant Impact. The project will not result in an increase in population or result in a new source of stationary or ongoing permanent mobile emissions. Given the short duration, the nature of construction activities and implementation of BMPs to control dust that are consistent with BAAQMD requirements (as listed above in Section 2.3), the project will not expose sensitive receptors to substantial pollutant concentrations.

e) Create objectionable odors affecting a substantial number of people?

All Alternatives: No Impact. The recycled water pipeline project and new water tank will not result in the generation of odors. There are homes adjacent to the Gypsy Hill Tank site and tank feed pipeline alignment. The CCWRP uses UV light for disinfection in the tertiary stage of treatment, rather than chlorination. This use of UV light does not have an appreciable odor that would be detectable.

3.4 BIOLOGICAL RESOURCES	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?				
Alternative A1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3.4 BIOLOGICAL RESOURCES	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Alternative B f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Setting

Tank Location Alternatives A1 and A2: These alternatives are located at the Calera Creek Water Recycling Plant (CCWRP). This site is located immediately upstream of the Calera Creek Wetland and Riparian Ecosystem Restoration and Water Recycling Site (restoration site that mitigated the impacts of CCWRP construction). The Restoration Site provides habitat for California red-legged frog (CRLF) (*Rana aurora draytonii*), a species listed as "Threatened" under the Federal Endangered Species Act of 1973 and a California State "species of special concern." The CCWRP and the Restoration Site is bound by Mori Point Ridge on the northwest, Cabrillo Highway (Highway 1) on the east and north, the Rockaway Beach District on the south, and the Pacific Ocean on the west.

Tank Location Alternative B: This site is located just north and west of Sharp Park Road and Clarendon Road to the north and Cabrillo Highway to the west. As stated elsewhere in this document, the site also contains a three million gallon potable water storage tank. The site is characterized as flat, and is surrounded by mature nonnative eucalyptus trees (*Eucalyptus globulus*) on the south and eastern side slopes and a small hill on the northwestern side (see Photos 2 and 3.)

A reconnaissance site visit of Alternative B's project vicinity was conducted by a TRA biologist on May 25, 2007. The site visit was conducted on foot and all areas of the project site were evaluated for the potential to support regionally occurring special-status species and the presence of any other biologically sensitive resources. Descriptions of the sites are provided below.

Site Description

All of the alternatives are located within the City of Pacifica, in San Mateo County. The sites are located on coastal alluvial and marine terraces, and portions occur along city and private roadways. Major hydrologic features in and around the project area include Laguna Salada and the lower portion of Calera Creek. The climate is characterized by dry, mild summers (often foggy) and wet, cool winters. Annual precipitation in the Pacifica area averages 23 inches (Worldclimate, 2007). Elevations range from sea level to 330 feet and the soils include fine sandy loams and very gravelly sandy loams (NRCS, 2007).

Prior to conducting the May 2007 field visit for Alternative B, a search of the California Department of Fish and Game's (CDFG) Natural Diversity Database (CNDDDB) was done for this site and surrounding area. This CNDDDB search provided a list of special status species with potential to occur in the area. Appendix E provides a list of the species that pertain to the Gypsy Hill site. It supplements the list contained in Appendix A of the 2004 WRP IS/MND because that document did not include any facilities on Gypsy Hill and several additional species are associated with that area. A walking survey of the entire project area of Alternative B was done to assess the plant communities, wildlife habitats, and potential for special status species to be present.

Tank Location Alternatives A1 and A2. The land surrounding the CCWRP supports a variety of upland and wetland communities, mixed willow stands, disturbed roadsides and trails and California annual grasslands. To accommodate the proposed development at the CCWRP, the proposed facilities do not require expansion of the existing property boundaries into these habitats. The facilities will be placed in an existing developed area.

The flora and fauna of Calera Creek downstream of the CCWRP have been extensively surveyed as part of the previously mentioned monitoring program. This creek and its wetlands are important habitat for a population of the federally threatened and California species of concern, CRLF. There have been no sightings of the endangered San Francisco garter snake (*Thamnophis sirtalis tetrataenia*) in lower Calera Creek, but they do occur about 1100 yards away at Laguna Salada. For a discussion of the hydrological impacts to CRFL and SFGS habitat at Laguna Salada please refer to Impact Bio-1c and Mitigation Measure Bio-1c1 of the 2004 WRP Draft IS/MND.

Tank Location Alternative B. The main portion of the site is flat and currently devoid of vegetation, with the abovementioned eucalyptus trees on the slope below the site and above Sharp Park Road. This alternative requires a pipeline installed adjacent to an already existing potable water pipeline. This pipeline will be trenched within a 10-foot wide easement along that part of the Gypsy Hill pipeline not in Clarendon Road. An additional 10-foot wide temporary construction easement will be required on either side of the existing easement for equipment access, for a total width of 30 feet.

No sensitive plants or wildlife were observed along any portion of the proposed project alignment. The habitat along the pipeline easement running from the water tank to Gypsy Hill Road is comprised mostly of ruderal vegetation, such as French broom (*Genista monspessulana*), Himalayan blackberry (*Rubus discolor*), bedstraw (*Galium aparine*), curly dock (*Rumex crispus*), fennel (*Foeniculum vulgare*), and nonnative annual grasses. Native plants such as soap plant (*Chlorogalum pomeridianum*), yarrow (*Achillea millefolium*), California aster (*Aster chilensis*), coast onion (*Allium dichlamydeum*), hedge nettle (*Stachys ajugoides*), Ithurial's spear (*Triteleia laxa*) and poison oak (*Toxicodendron diversilobum*) are mixed in with the nonnatives.

Habitat along Gypsy Hill Road consists primarily of nonnative annual grasses such as ripgut brome (*Bromus diandrus*) and foxtail barley (*Hordeum murinum*), pampas grass (*Cortaderia selloana*); and herbs such as poison hemlock (*Conium maculatum*), and field mustard (*Brassica rapa*).

The alignment from Gypsy Hill Road to Clarendon Road through the easement passes through a power line corridor dominated by poison oak. Adjacent to the corridor in the area that will be affected by temporary construction are native California coffeeberry (*Rhamnus*

californica), and nonnatives such as cotoneaster (*Cotoneaster pannosa*), Portuguese broom (*Cytisus striatus*), bracken fern (*Pteridium aquilinum* var. *pubescens*), and Monterey pine (*Pinus radiata*). Poison oak dominates much of the easement. This area provides the habitat necessary for foraging and nesting for both raptor and passerine birds, such as bushtits (*Psaltriparus minimus*), lesser goldfinch (*Carduelis psaltria*), house finch (*Carpodacus mexicanus*), wrentits (*Chamaea fasciata*), spotted towhee (*Pipilo maculatus*), red-tailed hawk (*Buteo jamaicensis*), barn owl (*Tyta alba*) and great horned owl (*Bubo virginianus*).

Special Status Species

Special status species are plants and animals that are legally protected under state and federal Endangered Species Acts or other regulations and species that are considered sufficiently rare by the scientific community to qualify for such listing.

No sensitive plant or animal species contained on the CNDDDB list were observed during the survey at the Gypsy Hill and pipeline site. Habitat supporting these species was also absent. No sensitive plant or animal species were observed during the survey at the Gypsy Hill and pipeline site. The tank location and pipeline for this alternative has foraging and nesting habitat for the white tailed kite (*Elanus leucurus*) and the San Francisco dusky-footed woodrat (*Neotoma fuscipes annectens*). No raptor nests were observed during the field survey. The wetlands within the riparian corridor adjacent to the CCWRP and tank location alternatives A1 and A2 provide habitat for CRLF, the San Francisco garter snake (SFGS) and the fork-tailed damselfly (*Ishnura gemina*) (City of Pacifica, 1994). There have been no reports of the SFGS and the fork-tailed damselfly at the CCWRP or within the adjacent riparian corridor.

Discussion

Would the project:

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

Alternatives A1 and A2: Less than Significant with Mitigation. The proposed alternatives do not alter any of the conclusions drawn in the WRP IS/MND document. Habitats with potential to support or be used by sensitive status species, such as the CRLF, occur adjacent to the CCWRP. The change in tank locations that is the subject of this document has the potential to impact CRLF because they are present at the site.

Impact BIO-1 (CCWRP Site): Storage tank construction activities at the CCWRP have the potential to impact the California red-legged (CRLF) population adjacent to the CCWRP through sedimentation and erosion during construction. In addition, CRLF have been known to migrate through the CCWRP.

Mitigation Measure BIO-1: The following take avoidance measures apply specifically to CRLF, which has confirmed presence at the CCWRP, but also will apply to the San Francisco garter snake (SFGS) should they occur in Calera Creek. These measures only apply to project construction activities that take place in within the CCWRP property.

All contractors and work crew in the project area will be trained by a qualified biologist to identify CRLF and SFGS, to understand their habitat requirements, and instructed to halt construction if either of these species are observed in the construction zone of the project, and contact CDFG and USFWS for guidance on how to proceed.

- 1) A qualified biologist shall conduct a pre-construction survey of the project area to determine if CRLF or SFGS are present. The survey shall include all areas that will be directly impacted by project activities. In the event that any individuals are found, the CDFG and USFWS shall be contacted for guidance on how to proceed.
- 2) Just prior to the pre-construction survey, a barrier shall be installed around the disturbance area to prevent any CRLF or SFGS from entering the construction area. The qualified biologist in consultation with CDFG and USFWS shall determine the design, location, and extent of the required barrier.
- 3) Construction equipment shall avoid disturbance of the Calera Creek watercourse. The staging area for construction equipment shall be at least 100 feet away from the Calera Creek watercourse.
- 4) A qualified biologist shall be on site to monitor activities during all trench work at the CCWRP.

Effectiveness:	Implementation of this measure will ensure that significant adverse impacts to CRLF and SFGS do not occur
Implementation:	NCCWD shall contract with qualified biologist
Timing:	Prior to and during construction
Monitoring:	The biological monitor shall provide a report of monitoring results to the NCCWD and the City of Pacifica (as Responsible Agency)

Alternative B: Less than Significant with Mitigation. The Alternative B tank location will be primarily located along a NCCWD easement and residential streets. The project vicinity provides a mosaic of medium and low quality habitat for sensitive status wildlife species due to the surrounding urban development, land uses and the nature of the habitats present. Due to the fact that construction activities will occur in a previously disturbed NCCWD easement and within an additional 10 foot easement, the potential for adverse affects to sensitive status plant species is low. The areas identified where construction activities will take place are disturbed and ruderal and are not considered suitable habitat for any candidate, sensitive, or special status species in local or regional plans, policies, or regulations or by the California Department of Fish and Game or the U.S. Fish and Wildlife Service. The project will not impact special-status plant species.

However, the pipeline route and portions of the tank site are heavily wooded and thus could support nesting birds, including raptors. These species are protected by the California Department of Fish and Game Code 3503, which reads, "It is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto." Passerines and non-passerine land birds are further protected under the Federal Migratory Bird Treaty Act (16 U.S.C., scc. 703, Supp. I, 1989) which prohibits killing, possessing, or trading in migratory birds, except in accordance with regulations prescribed by the Secretary of the Interior. This Act encompasses whole birds, parts of birds, and bird nests and eggs.

Impact BIO-2 (Gypsy Hill Pipeline Route and Tank Site): Potential nesting trees for raptor and passerine species occur within and adjacent to the pipeline segment from Clarendon Road to Gypsy Hill and at the Gypsy Hill tank site. These birds could be adversely affected if construction occurs during nesting season (February 1 through August 31 of any given year).

Mitigation Measure BIO-2: If construction activities along the Clarendon Road to Gypsy Hill pipeline segment or at the Gypsy Hill tank site cannot occur outside of the nesting season (February 1 through August 31 of any given year), the NCCWD shall retain a qualified biologist to conduct a pre-construction survey for nesting birds not more than 14 days prior to the start of construction activities. Surveys shall be conducted within the trees that have potential habitat (those that are located within 250 feet of the pipeline segment and at the Gypsy Hill tank site). If nesting birds are found, the project could be delayed until after nesting is completed. Work may occur if an adequate buffer, as determined by a qualified biologist in consultation with California Department of Fish and Game (CDFG), can be established between the construction activity and the nest. Typically CDFG requires a 50 foot buffer for passerine nests and a 250 foot buffer for raptor nests.

Effectiveness:	Implementation of this measure will ensure that significant adverse impacts to nesting birds do not occur
Implementation:	NCCWD shall contract with qualified biologist
Timing:	Prior to and during construction
Monitoring:	The qualified biologist shall provide a report of monitoring results to the NCCWD and the City of Pacifica (as Responsible Agency)

The San Francisco dusky-footed woodrat (*Neotoma fuscipes*) is a Species of Special Concern pursuant to the California Endangered Species Act. This animal is a subspecies that occurs on the San Francisco peninsula from south of the Golden Gate to the northern edge of Santa Cruz County, and into portions of the East Bay. The dusky-footed woodrat is a generally nocturnal mammal that occurs in a variety of brushy and wooded areas. The woodrat builds stick structures up to 2 meters long and a meter in height for nesting. These elaborate dwellings help protect the woodrat from seasonal temperature extremes and predators. The dusky-footed woodrat eats primarily woody plants, including leaves, flowers, nuts and berries.

This species is known to exist in the Alternative B site area and habitat exists within the portion of the proposed Alternative B pipeline from the Gypsy Hill Tank to Clarendon Road

Impact BIO-3 (Gypsy Hill Pipeline Route): The San Francisco dusky-footed woodrat habitat exists within this corridor. If San Francisco dusky-footed woodrat nests are within 250 feet of the project site, construction activities may adversely affect this species.

Mitigation Measure BIO-3: A preconstruction survey for woodrat nests shall be conducted by a qualified biologist. If nests are found within 250 feet of the project site, the biologist shall determine if the nest is active and consult CDFG to determine the currently approved measures to avoid disturbance or relocate an active nest. The contractor for the NCCWD shall implement the recommendations of the biologist.

Effectiveness:	Implementation of this measure will ensure that significant adverse impacts to San Francisco dusky-footed woodrats do not occur
Implementation:	NCCWD shall contract with a qualified biologist
Timing:	Prior to and during construction

Monitoring: NCCWD; the qualified biologist shall provide a report of monitoring results to the NCCWD and the City of Pacifica (as Responsible Agency)

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?

Alternatives A1 and A2: Less than Significant Impact. The project will not alter existing drainage patterns such that substantial erosion or siltation will occur on or off-site. The recycled water will be piped from the CCWRP directly into the distribution pipeline or to a water tank on Gypsy Hill for storage and then eventually into a piped irrigation system. The BMPs listed in Section 2.3 of this document will ensure that excavation for construction will not cause substantial offsite siltation nor exceed CEQA significance thresholds. A construction general permit which includes preparation of a Storm Water Pollution Prevention Plan (SWPPP) incorporating BMPs is also required from the Regional Water Quality Control Board. This SWPPP will contain measures to ensure that project-related amounts of stormwater do not cause siltation or erosion downstream that would affect riparian or sensitive species.

Alternative B: Less than Significant Impact. The pipeline alignment does not support any sensitive natural communities such as riparian habitat. It follows an existing potable water pipeline, and portions of the alignment follow existing streets (Gypsy Hill and Clarendon Roads).

Erosion and water quality control mitigation measures to ensure that storm water runoff from the project does not cause significant environmental impacts are listed in Section 2.3 of this document.

c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

Alternatives A1 and A2: Less than Significant Impact. Implementation of the BMPs as listed in Section 2.3 of this document will ensure that the project will not affect federally protected wetlands or discharge dredged or fill material into waters of the United States. No Section 404 permit is required from the U.S. Army Corps of Engineers for this project.

Alternative B: No Impact. There are no federally protected wetlands on or near the Gypsy Hill project site where construction activities will take place. Therefore, no federally protected wetlands will be affected by the implementation of this Alternative.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Alternatives A1, A2 and B: Less than Significant Impact. The proposed alternatives do not alter any of the conclusions drawn in the WRP IS/MND. While a wildlife corridor exists at the CCWRP alternative location (Calera Creek), the project does not involve work in the creek. No work will occur in established migratory, nursery, or wildlife corridor sites.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Alternatives A1, A2 and B: Less than Significant Impact. The proposed alternatives do not alter any of the conclusions drawn in the WRP IS/MND. The proposed project will be in conformance with relevant City of Pacifica Zoning Codes, both for areas within the City's Local Coastal Plan (LCP) and in non-LCP areas. The project will contain a Tree Protection Plan, pursuant to the City's Heritage Tree Ordinance, for the recycled water pipeline from Gypsy Hill Road to Clarendon Road.

The City of Pacifica's Heritage Tree criteria is any tree with a circumference over 50 inches (approximately 16 inches in diameter) measured at 24 inches above the natural grade. Tree removal is required for trenching of the pipeline for Alternative Tank Location B. At a maximum, thirty trees will be impacted (either completely removed or construction has the potential to take place within their driplines). Twenty-nine Monterey pine (*Pinus radiata*) trees and one Eucalyptus tree along the proposed pipeline for Alternative Tank Location B will be removed or impacted (work takes place within their driplines). Four of these thirty trees meet the criteria for heritage trees according to the City of Pacifica's Heritage Tree Ordinance. This is not considered a significant impact for the following two reasons: 1) the project will require a Development Permit from the City and must provide a Tree Protection Plan pursuant to Section 4-12.07 of the Heritage Tree Ordinance, and 2) this site is heavily forested with Monterey pine trees already and planting additional trees will not be necessary. The City will determine whether additional trees will need to be planted as part of the Tree Protection Plan required by the Heritage Tree Ordinance.

The relevant sections of the Heritage Tree Ordinance are as follows. The project will comply with all sections of the Heritage Tree Ordinance.

Chapter 12. Preservation of Heritage Trees.

Sec. 4-12.04

No person shall cut down, destroy, remove, or move a heritage tree, or engage in new construction within the dripline of a heritage tree growing on private property or City-owned property, without a permit. As used in this section, "destroy" shall include substantial trimming which threatens the healthy growth and development of the tree.

Sec. 4-12.05 (e)

In order to mitigate the adverse effects of tree removal, a tree removal permit may be conditioned upon tree relocation on-site, planting of replacement trees or payment of fees in lieu thereof if on-site replacement is not feasible. No applicant shall be required to expend more on the replacement trees than the appraised value of the trees for which a permit is required. The Director shall determine the replacement value of the trees. If a fee in lieu thereof is imposed, the Director shall determine the value of the number and size of trees necessary to offset the loss of the heritage tree. If on-site replacement plantings are not feasible, the Director may condition the permit on payment of such a fee in order to mitigate the tree loss without replacement plantings off-site. The applicant may be required to submit an evaluation, appraisal or replacement plan prepared by a qualified horticulturalist, arborist, or licensed landscape architect.

Section. 4-12.07 (a)

Tree protection plan required. Any development proposal which requires a discretionary permit or other land use approval as set forth in Title 9 of this Code, and which includes a proposal to cut down, destroy, remove, move, or engage in construction within the dripline of a heritage tree, must be accompanied by a tree protection plan which shall insure the preservation of trees where possible and the protection of trees during construction so as to maximize chances for their survival.”

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

Alternatives A1, A2 and B: No Impact. The proposed alternatives do not alter any of the conclusions drawn in the WRP IS/MND. The proposed project will not conflict with any Habitat Conservation Plan or Natural Community Conservation Plan (HCP/NCCP). There are no HCP/NCCPs in effect covering the project area.

3.5 CULTURAL RESOURCES	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?				
Alternative A1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				
Alternative A1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Disturb any human remains, including those interred outside of formal cemeteries?				
Alternative A1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Environmental Setting

Alternatives A1 and A2: The presence of cultural resources at the CCWRP was evaluated for the WRP IS/MND. One known archaeological site, SMA-268 was identified near the entrance of the CCWRP off Highway 1. The proposed tank locations for Alternatives A1 and A2 and pump station are not located within the known boundaries of this site.

Alternative B: On May 30, 2007, Matthew Clark of Holman and Associates conducted a walking survey of the new tank feed pipeline route to the proposed tank location on Gypsy Hill to determine the potential for presence of cultural resources. No historical resources were noted. The results of the survey are attached in Appendix B.

The Holman Associates report states that the proposed pipeline route is of very low archaeological sensitivity, except possibly for the western-most portion on Clarendon Road. Most of the route is both already disturbed, on thin topsoils, or on steep and thickly vegetated slopes where archaeological resources are not expected. The western end of the pipeline route

is on existing, paved Clarendon Road from Charing Cross to Oceana Boulevard. The surface survey in this area focused on landscaped residential yards and the paved road, finding no evidence of archaeological materials, but clearly native soil visibility here is greatly hindered. The entire area is of very low archaeological sensitivity.

The project includes installing a new 55-foot diameter round tank for the recycled water line within the existing graded and fenced zone around the potable water tank, at the south side of the existing potable water tank. Installation of the new recycled water tank will cause no impacts to the undisturbed hillside. The chances that construction of the potable water tank impacted cultural resources is very low, given the previous disturbance of the area (a 3 million gallon potable water tank is being replaced at the site), the slope, and the mostly eucalyptus tree cover of the location.

A document to comply with Section 106 of the National Historic Preservation Act consultation is currently in preparation, as required by the SRF Program.

Discussion

Would the project:

a) Cause a substantial adverse change in the significance of a historical resource as defined in § 15064.5;

Alternatives A1 and A2: No Impact. The recycled water tanks and pump station will be installed at the existing CCWRP. This site was excavated during the construction of the CCWRP in 1996. Therefore no impacts are anticipated to historical resources as a result of the project.

Alternative B: No Impact. The tank feed pipeline to the Gypsy Hill will be located within existing road rights-of-way and within NCCWD easements and NCCWD owned property. No historical resources were identified in the cultural resources survey (attached as Appendix B); therefore, no impacts to historical resources are anticipated as a result of the project.

The Holman report states that the new Gypsy Hill Tank for potable water is already in place in a graded pad/terrace on the south-facing slope of the hill. A new 55-foot diameter round tank for the recycled water line will be constructed within the existing graded and fenced zone around the new potable water tank, at the south side of the larger potable water tank; installation of the new recycled tank will cause no additional impacts to undisturbed hillside. The chances that construction of the potable water tank impacting cultural resources is vanishingly low, given the previous disturbance of the area (a previous larger potable water tank was removed), the slope, and the mostly eucalyptus tree cover of the location.

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant § 15064.5;

c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature; or,

d) Disturb any human remains, including those interred outside of formal cemeteries?

(b-d) All Alternatives: Less than Significant with Mitigation.

As stated above in the Environmental Setting portion of this section, no significant archaeological resources were recovered in the geoprobe testing along the distribution pipeline and a walking archaeological survey along the tank feed pipeline alignment and at the Gypsy Hill tank location. With the exception of the westernmost portion of Clarendon Road, the proposed pipeline route to the Gypsy Hill Tank is of very low archaeological sensitivity. However, construction of the proposed project, involves trenching so could reveal as yet unknown prehistoric or historic archaeological resources along the Gypsy Hill pipeline route. Therefore, the following mitigation measures are proposed.

Impact CUL-1 (All sites): Construction of the proposed project could reveal as yet unknown prehistoric or historic archaeological resources along the Gypsy Hill pipeline route, at the Gypsy Hill tank site, or at the CCWRP tank site.

Mitigation Measure CUL-1: Prior to the initiation of construction or ground-disturbing activities, the NCCWD Project Manager shall conduct a tailgate meeting to inform all construction personnel of the potential for exposing subsurface cultural resources and to recognize possible buried cultural resources.

Personnel shall be informed of the procedures that will be followed upon the discovery or suspected discovery of archaeological materials, including Native American remains and their treatment.

Effectiveness:	Implementation of this measure will ensure that significant adverse impacts to cultural resources do not occur.
Implementation:	NCCWD
Timing:	During a pre-construction field meeting with contractors
Monitoring:	NCCWD, sign-off in the Mitigation Monitoring and Reporting plan once the meeting has been conducted.

Mitigation Measure CUL-2: Construction documents shall contain a “stop work provision” stating that upon discovery of possible buried prehistoric and historic cultural materials (including potential Native American skeletal remains)², work within 10 meters (30 feet) of the find shall be halted and the NCCWD Project Manager shall be notified.

² Significant prehistoric cultural resources may include:

- Human bone – either isolated or intact burials
- Habitation (occupation or ceremonial structures as interpreted from rock rings/features, distinct ground depressions, differences in compaction (e.g., house floors)
- Artifacts including chipped stone objects such as projectile points and bifaces; groundstone artifacts such as manos, metates, mortars, pestles, grinding stones, pitted hammerstones; and shell and bone artifacts including ornaments and beads.
- Various features and samples including hearths (fire-cracked rock; baked and vitrified clay), artifact caches, faunal and shellfish remains (which permit dietary reconstruction), distinctive changes in soil stratigraphy indicative of prehistoric activities.
- Isolated artifacts

Historic cultural materials may include finds from the late 19th through early 20th centuries. Objects and features associated with the historic period can include:

- Structural remains or portions of foundations (bricks, cobbles/boulders, stacked fieldstone, postholes, etc.).
- Trash pits, privies, wells and associated artifacts
- Isolated artifacts or isolated clusters of manufactured artifacts (e.g., glass bottles, metal cans, manufactured wood items, etc.
- Human remains

The Project Manager shall then retain a qualified archaeologist to review and evaluate the find. Construction work shall not begin again until the archaeological or cultural resources consultant has been allowed to examine the cultural materials, assess their significance, and offer proposals for any additional exploratory measures deemed necessary for the further evaluation of, and/or mitigation of adverse impacts to, any potential historical resources or unique archaeological resources that have been exposed.

If the discovery is determined to be a unique archaeological or historical resource, and if avoidance of the resource is not possible, the archaeologist shall inform the Project Manager of the necessary plans for treatment of the find(s) and mitigation of impacts. The treatment plan shall be designed to result in the extraction of sufficient non-redundant archaeological data to address important regional research considerations. The Project Manager shall insure that the treatment program is completed. The work shall be performed by the archaeologist, and shall result in a detailed technical report that shall be filed with the California Historical Resources Information System, Northwest Information Center, CSU Rohnert Park. Construction in the immediate vicinity of the find shall not recommence until treatment has been completed.

If human remains are discovered, they shall be handled in accordance with State law including immediate notification of the County Medical Examiner/Coroner.

In addition, the contract documents shall recognize the need to implement any mitigation conditions required by to comply with Section 106 regulations. In general, the appropriate construction conditions should be included within the General Conditions section of any contract that has the potential for ground disturbing operations.

Effectiveness:	Implementation of monitoring during construction will prevent significant impacts by halting construction before damage is done and allowing the resources to be documented
Implementation:	NCCWD shall include this measure in project plans and specifications. This measure shall be incorporated into building permit plans and construction contracts; NCCWD shall implement these measures
Timing:	Measures shall be in evidence in project plans prior to issuance of the Coastal Development Permit. Actual monitoring shall occur during ground disturbing activities.
Monitoring:	NCCWD by inclusion in project plans and construction documents; the archaeological monitor shall provide a report of monitoring results to the North Coast County Water District and the City of Pacifica (as Responsible Agency)

Mitigation Measure CUL-3: Archaeological monitoring on a full-time basis shall be undertaken during subsurface construction near the Sharp Park Golf Course area (for the distribution pipeline alignment), and other sites, as listed by the National Historic Preservation Act Section 106 Compliance Report currently being prepared for this project.

Actions that potentially require monitoring are any ground disturbing activities including, but not limited to, pipeline installation and construction staging areas.

In addition, cultural materials including both artifacts and structures that can be attributed to Hispanic, Asian, and other ethnic or racial groups are potentially significant. Such features or clusters of artifacts and samples include remains of structures, trash pits, and privies.

Effectiveness: Implementation of monitoring during construction will prevent significant impacts by halting construction before damage is done and allowing the resources to be documented Implementation: NCCWD shall include this measure in project plans and specifications. This measure shall be incorporated into building permit plans and construction contracts; NCCWD shall implement these measures.

Timing: During any subsurface construction activities as designated by the National Historic Preservation Act Section 106 Compliance Report

Monitoring: NCCWD; the archaeological monitor shall provide a report of monitoring results to the NCCWD and the City of Pacifica (as Responsible Agency)

Impacts to cultural resources will be reduced to a less-than-significant level with the implementation the above mentioned mitigation measures.

The Holman report concludes by stating that the changes in the project to bring the recycled water pipeline to the Gypsy Hill Tank will lower the chances of encountering heretofore undetected archaeological resources, in that less work will be done in the sensitive Sharp Park Golf Course/SF Archery Club area. Recommendations made in [the] previous report for federal National Historic Preservation Act Section 106 Compliance will not be changed by this redesign, except that less extensive monitoring will be called for near the golf course and archery range because less pipeline will be installed there. A revised Section 106 compliance report will be completed when more detailed project information [is available, after project approval] and the revised Area of Potential Effects (APE) maps can be produced.

3.6 GEOLOGY AND SOILS	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ii) Strong seismic ground shaking?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iv) Landslides?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3.6 GEOLOGY AND SOILS	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Setting

A geotechnical report was prepared for the CCWRP recycled water pump station by Engco Inc. in November 2006 (attached as Appendix C). The soils at the CCWRP site are described as artificial fill and colluvium over Franciscan greenstone. The colluvium appears to have been removed during grading during construction of the CCWRP and artificial fill was placed on top of the underlying greenstone. The artificial fill under the pump station at the CCWRP is approximately 35 feet deep.

A geotechnical report at the NCCWD's Gypsy Hill property was prepared by Land/Marine Geotechnics in 2005 for the newly built three million gallon potable water tank which is located adjacent to the proposed recycled water tank site (attached as Appendix D.) It is expected that the same general seismic hazards and soil conditions will exist for the new recycled water tank. The site encompasses a bench cut at Elevation 404 (North Coast County Water District, undated) approximately 50 feet below the crest of an east-west striking ridge. The materials mapped on the site include bedrock overlain by colluvium and fill. The tank pad has been cut into Franciscan Complex sandstone and fill has been placed to level the bench.

A geotechnical report for the new recycled water tank site at the NCCWD's Gypsy Hill property will be prepared after project approval, if this site is chosen by the NCCWD Board of Directors.

The City of Pacifica is located in a region that contains numerous active earthquake faults. The nearest active fault is the San Andreas Fault, located about 3 kilometers northeast of all sites. The Seal Cove/San Gregorio fault is located 5 kilometers northwest from the sites and the Hayward fault is 33 kilometers east of the sites. The sites will likely be subject to strong ground shaking because of its proximity to several active faults.

Discussion

Would the project:

a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

Alternatives A1 and A2: Less than Significant Impact. The Engeo geologic report states that the potential for ground rupture at the site is considered low because there are no mapped faults at the CCWRP pump station site. Therefore, the impact is considered less than significant.

Alternative B: Less than Significant Impact. The Land/Marine Geotechnics geologic report states that there are no mapped faults on the Gypsy Hill site or along the pipeline alignment; therefore the potential for ground rupture is low. Therefore, the impact is considered less than significant.

ii) Strong seismic ground shaking?

Alternatives A1 and A2: Less than Significant Impact. The Engeo geologic report states that an earthquake of moderate to high magnitude generated in the San Francisco Bay Area could result in considerable ground-shaking at the site. All structures will be engineered according to the latest Uniform Building Code (UBC) requirements, at a minimum. The Engeo report also states that it is reasonable to expect that a well-designed, well-constructed structure will not collapse or cause loss of life in a major earthquake. The results and recommendations of the Engeo report have been incorporated into project plans and specifications; however, the project requires an additional geotechnical report to obtain recommendations for the siting of the proposed recycled water tanks at the CCWRP. See Mitigation Measure GEO-1 below.

Alternative B: Less than Significant Impact. The Gypsy Hill site is also located in Pacifica, and as mentioned above, is an area subject to active seismic activity. It is reasonable to expect that a moderate to high magnitude earthquake in the San Francisco Bay Area will result in considerable ground shaking at the site. The Land/Marine Geotechnics geotechnical report prepared to address the seismic and other hazards (such as soil instability) for the placement of the potable water tank at the Gypsy Hill location concluded that the risk of surface faulting and consequent secondary ground failure is very low.

A geotechnical report for pipeline alignments was required by Mitigation Measure GEO-1 in the WRP Final IS/Response to Comments. New reports will be completed for the new section of pipeline and the Gypsy Hill tank site. An amendment will be made to the existing CCWRP pump station report and all recommendations will be incorporated into the construction plans and specifications (Steve Wallner, Kennedy Jenks, personal communication 2007.)

iii) Seismic-related ground failure, including liquefaction?

Alternatives A1 and A2: Less than Significant Impact. Soil most susceptible to liquefaction is loose, clean, saturated, uniformly graded fine-grained sand. The Engeo geologic report for the CCWRP found that the site's margins are designated as potentially liquefiable. Results of the boring drilled at the location of the proposed pump station show that the existing fill material is predominantly sandy clay and is stiff below the groundwater table. The Engeo report states the potential for on-site liquefaction is low; therefore the impact is considered less than significant.

Alternative B: Less than Significant Impact. Land/Marine Geotechnics evaluated the liquefaction potential of soil layers encountered in our boring and concluded that they are not susceptible to liquefaction. Bedrock exists at shallow depth and the overlying soils are generally stiff clays. In addition, the site is located at the top of a hill and groundwater was not encountered within the test borings. As a result, Land/Marine Geotechnics concluded that the potential for lateral spreading and for sand boils and lurch cracking at the ground surface are nil.

iv) Landslides?

Alternatives A1 and A2: Less than Significant Impact. The pump station site at the CCWRP is flat, is not near an open slope, and is not susceptible to landslides. Therefore, the impact is considered less than significant.

Alternative B: Less than Significant Impact. The Land/Marine Geotechnics report states that the Gypsy Hill site is currently blanketed by a layer of drain rock which consists of $\frac{3}{4}$ to 1 inch diameter gravel. The drain rock layer is about $\frac{3}{4}$ to 1 foot thick is underlain by stiff to very stiff clays and bedrock. The drain rock is suitable for reuse as a base for the new tank provided that the rock is densified using a vibratory drum compactor prior to tank construction. If grades need to be raised, additional drain rock can be added following compaction of the existing layer. It is anticipated that the soil and rock at the site can be excavated with a conventional backhoe or excavator.

b) Result in substantial soil erosion or the loss of topsoil?

Alternatives A1 and A2: Less than Significant Impact. The pump station site at the CCWRP is currently covered with paved surfaces. BMPs incorporated into the project include protecting drainage ways to divert, trap or filter runoff, covering stockpiles to protect from rainfall and prevent runoff.

Because the project disturbs more than 1 acre of ground, the project is required to obtain a permit for stormwater discharges from the Regional Water Quality Control Board. The permit requires the preparation of a Storm Water Pollution Prevention Plan (SWPPP) that includes the implementation of BMPs to protect water quality. Examples of applicable BMPs include, but are not limited to, installation of fiber rolls, protection of storm drain inlets, stockpile management, spill control, hydroseeding, and dust control. With these measures incorporated into the project, the impact is considered less than significant.

Alternative B: Less than Significant Impact. As stated above, the Land/Marine Geotechnics report states that the Gypsy Hill site is currently blanketed by a layer of drain rock which consists of $\frac{3}{4}$ to 1 inch diameter gravel. The drain rock layer is about $\frac{3}{4}$ to 1 foot thick is underlain by stiff to very stiff clays and bedrock (Photo 3.) No erosion from the construction

activities of this alternative are expected to occur. In addition, this alternative will require a construction permit from the Regional Water Quality Control Board and preparation of a SWPPP. This construction permit and SWPPP will contain measures to ensure that no erosion exceeding CEQA thresholds will occur.

c) Be located on strata or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?

Alternatives A1 and A2: Less than Significant Impact. The pump station site is flat and is not near an open slope; therefore the geotechnical report concluded that the risk of on- or off-site landslide and lateral spreading is low. The impact is considered less than significant. The report also determined that settlement due to an earthquake will be insignificant, therefore the impact is considered less than significant.

Alternative B: Less than Significant Impact. As stated above, the Land/Marine Geotechnics report states that the Gypsy Hill site is currently blanketed by a layer of drain rock which consists of $\frac{3}{4}$ to 1 inch diameter gravel. The drain rock layer is about $\frac{3}{4}$ to 1 foot thick is underlain by stiff to very stiff clays and bedrock. Bedrock exists at shallow depth and the overlying soils are generally stiff clays. In addition the site is located at the top of a hill and groundwater was not encountered within the test borings. No landslides, lateral spreading, subsidence or liquefaction are expected to occur.

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code, creating substantial risks to life or property?

Alternatives A1 and A2: No Impact. The soils found at the site do not appear on Table 18-1-B of the Uniform Building Code. Therefore, the impact from expansive soils is considered no impact.

Alternative B: Less than Significant Impact. It is expected that soils at the site are the same as those found in the Land/Marine Geotechnics report prepared for the adjacent newly built three million gallon potable water tank. The Land/Marine Geotechnics report states that the tank will be underlain by stiff clayey soils and bedrock which has moderate to low compressibility, respectively under the anticipated tank loads. The clayey fill and colluvial soils which underlie the west side of the tank pad are stiff to very stiff and have been consolidated under the load of the existing tank for many years. As a result, it is anticipated that future site settlement under the new tank loads will be small i.e. less than 1 inch. No special measures are recommended to mitigate tank settlement.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

All Alternatives: No Impact. The project does not propose the installation of septic tanks or alternative wastewater disposal systems, therefore there is no impact.

3.7 HAZARDS AND HAZARDOUS MATERIALS	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3.7 HAZARDS AND HAZARDOUS MATERIALS	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Setting

Regulatory Definition

A material is considered hazardous if it appears on a list of hazardous materials prepared by a federal, state or local agency, or if it has characteristics defined as hazardous by such an agency. Chemical and physical properties such as toxicity, ignitability, corrosivity and reactivity, cause a substance to be considered hazardous. These properties are defined in the California Code of Regulations (CCR), Title 22, Sections 6621.20-6621.24. A "hazardous waste" is any hazardous material that is discarded, abandoned, or to be recycled. The criteria that render a material hazardous also make a waste hazardous (California Health and Safety Code, Section 25117).

According to this definition, fuels, motor oil, and lubricants in use at a typical construction site and lead built up along roadways could be considered hazardous. Excavation may expose buried hazardous materials resulting from prior use of the proposed site or adjacent property.

A search of the California Department of Toxic Substances Control EnviroStor Database (Cortese List) (http://www.dtsc.ca.gov/SiteCleanup/Cortese_List.cfm) revealed that there are no toxic waste sites within the City of Pacifica.

Discussion:

Would the project:

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

All Alternatives: Less than Significant Impact. The construction of recycled water tanks at the CCWRP and/or the construction of a recycled water tank and tank feed pipeline to the NCCWD's Gypsy Hill property will not result in the transportation of hazardous materials. BMPs and mitigation incorporated into the project including the use of fuels, oils and lubricants in typical construction equipment are listed in Chapter 2.3 of this document.

The recycled water from the CCWRP wastewater treatment plant is subject to strict criteria to ensure that it will not contain measurable levels of pathogenic microorganisms. Therefore, the construction of tanks and pipelines to carry recycled water does not represent the routine transport, use, or disposal of a hazardous material.

No unusual hazardous materials are to be employed during trench excavation or assembly of the pipeline or storage tank. Fuels and lubricants used by equipment in the construction process are handled using BMPs to prevent soil and water contamination.

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

All Alternatives: Less than Significant Impact. Neither the construction nor operation of the water tanks and pipeline will create significant hazards to the public from the release of hazardous materials. The tertiary treated water is not considered a hazardous substance and in fact is safe for aquatic organisms to live in.

No unusual hazardous materials are to be employed during trench excavation or assembly of the pipeline or storage tank. Fuels and lubricants used by equipment in the construction process are handled using BMPs to prevent soil and water contamination (listed in Chapter 2.3 of this document).

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one quarter mile of an existing or proposed school?

All Alternatives: No Impact. This project involves locating and constructing recycled water tanks at the CCWRP or the NCCWD's Gypsy Hill property and associated tank feed pipeline. The project will not result in the use of any hazardous materials, substances or waste, except those used during construction. Proper handling of these materials is addressed through the use of BMPs as outlined in Chapter 2.3 of this document. The closest schools to the sites are Ingrid B Lacy Middle School/ Sharp Park Elementary School, at 1427 Palmetto Avenue, Ocean Shore School, at 411 Oceana Blvd., and Oceana High School at 401 Paloma Avenue. Ocean Shore School is located approximately 3.0 miles from the Gypsy Hill site (which is closer to the school than the CCWRP site); Ingrid B. Lacy Middle School/Sharp Park Elementary School is located approximately 2.0 miles from the Gypsy Hill site (which is closer to the school than the CCWRP site), and Oceana High School is located approximately 1.5 miles north of the CCWRP and about 0.5 miles north of the Gypsy Hill tank and pipeline location.

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

All Alternatives: No Impact. Neither the water tank sites nor the pipeline alignment are located on a hazardous material site (California Department of Toxic Substances Control EnviroStor Database (Cortese List) (http://www.dtsc.ca.gov/SiteCleanup/Cortese_List.cfm)).

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?

All Alternatives: No Impact. There are no airports within two miles of the project sites. The nearest public airport is San Francisco International Airport, approximately five miles to the west from either site. The nearest private airport is Half Moon Bay Airport, approximately seven miles to the south from the CCWRP (the site closer to Half Moon Bay). This project will not have any impact on these airports and will not alter safety hazards for people associated with them.

f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

All Alternatives: No Impact. There are no private airports within the vicinity of the project site.

g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

All Alternatives: No Impact. The project will not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan as the physical structures proposed to be built will be located underground (including pipeline) or at the NCCWD property on Gypsy Hill.

h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

All Alternatives: No Impact. This project will not result in increased wildfire threat and will not change exposure to wildland fires because it will not increase the amount of brush for fuel or place housing near such areas.

3.8 HYDROLOGY AND WATER QUALITY	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Violate any water quality standards or waste discharge requirements?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3.8 HYDROLOGY AND WATER QUALITY	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
f) Otherwise substantially degrade water quality?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j) Inundation by seiche, tsunami, or mudflow?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Setting

Construction of Alternatives A1 and A2 will be located within already paved areas of the CCWRP. Overall site drainage and amount of impermeable surfaces will not change. Construction of Alternative B will be on flat ground that is devoid of vegetation. Construction of the pipeline to the NCCWD Gypsy Hill property will place the pipeline underground. In areas where the pipeline will be located under pavement, that pavement will be replaced as part of the construction process. In areas where the pipeline will traverse vegetated areas (between Clarendon Road and the tank site) the areas will be revegetated to prevent erosion as necessary. Because the entire project (cumulatively, including the WRP IS/MND and this

project) disturbs over one acre of land, it requires a general construction permit from the Regional Water Quality Control Board. This permit requires preparation of a Storm Water Pollution Prevention Plan which will outline required measures to protect water quality.

Discussion:

Would the project:

- a) Violate any water quality standards or waste discharge requirements; or**
- f) Otherwise substantially degrade water quality?**

All Alternatives: Less than Significant Impact. BMPs incorporated into the project will ensure that construction-related impacts to water quality do not exceed standards of significance. A construction general permit which includes preparation of a Storm Water Pollution Prevention Plan (SWPPP) incorporating BMPs is also required from the Regional Water Quality Control Board.

b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local ground water table level (for example, the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?

All Alternatives: Less Than Significant Impact. The placement of the recycled water tank at Gypsy Hill (and tank feed pipeline) or the CCWRP location will not deplete groundwater supplies as these areas are not locations where groundwater recharge occurs (the Gypsy Hill tank location is on a portion of a larger ridge.) The pipeline installation will not prevent groundwater from percolating below it.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?

All Alternatives: Less than Significant Impact. The project will not alter existing drainage patterns such that substantial erosion or siltation will occur on or off-site. The recycled water will be piped from the CCWRP directly into the distribution pipeline or to a water tank on Gypsy Hill for storage and then into the piped irrigation system. The BMPs employed during the construction phase of the project will ensure that excavation for construction will not cause substantial offsite siltation. These BMPs are listed in Chapter 2.3 of this document.

d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?

All Alternatives: Less than Significant Impact. Construction of any of the tank site alternatives will not involve substantial alterations of the existing drainage pattern of the site or area. All trenched areas and areas of ground disturbance will be restored to original grade, maintaining pre-construction drainage characteristics. No additional impermeable surfaces are proposed that will result in flooding, on- or off-site. Alternative B will increase the amount of impermeable surfaces for the actual footprint of the tank, however, this area is small (55 feet in diameter, or approximately 3,000 square feet) and will not result in on-or off-site flooding.

e) Create or contribute runoff water which would exceed the capacity of existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff?

All Alternatives: Less Than Significant Impact. BMPs to prevent erosion during construction and preparation of a SWPPP (as required for the Regional Water Quality Control Board Construction Permit) of any of the alternatives will prevent impacts from polluted runoff. Normal operation of the tanks and pipeline will not result in polluted runoff. .

f) Otherwise substantially degrade water quality?

All Alternatives: Less than Significant Impact. See discussion with a) above.

g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?

All Alternatives: No Impact. The project is not a housing project.

h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?

All Alternatives: No Impact. The proposed project will not place housing or structures that will impede or redirect flood flows within a 100-year flood hazard area.

i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?

All Alternatives: No Impact. There are no levees or dams proposed.

j) Expose people or structures to inundation by seiche, tsunami, or mudflow?

All Alternatives: No Impact. The proposed project will not result in construction of permanent habitable structures or development and will not place housing or expose people or structures to flood hazards.

3.9 LAND USE AND PLANNING	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Physically divide an established community?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion:

Would the project:

a) Physically divide an established community?

All Alternatives: No Impact. The project does not have any components or characteristics (such as a highway) that would physically divide an established community. The recycled water distribution system will mostly be installed within existing underground facilities. The new underground tank feed pipeline segment to the recycled water tank on Gypsy Hill will be underground within street and NCCWD rights-of-way. The tank is located on NCCWD property where a potable water tank is already located.

b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

All Alternatives: Less than Significant Impact.

City of Pacifica General Plan and Local Coastal Plan

There are no General Plan or Coastal Act policies which directly address the proposed project of a recycled water pipeline and water tank installation and use of recycled water in public landscaping projects, including Sharp Park Golf Course. One of the Local Coastal Plan policies addresses the protection of biological and coastal resources that is related to the wetlands at Calera Creek (within the City's Local Coastal Plan jurisdiction)(LCP Policy 12, see also Section III-4, Biology, above), and one of the Community Design Element Policies addresses the City's scenic and visual amenities, which include Highway 1. These policies and conformance of the proposed project with them are discussed below.

LCP Policy 12

The biological productivity and the quality of coastal waters, streams, wetlands, estuaries, and lakes appropriate to maintain optimum populations of marine organisms and for the protection of human health shall be maintained and, where feasible, restored through, among other means, minimizing adverse effects of wastewater discharge and entrainment, controlling runoff, preventing depletion of ground water supplies and substantial interference with surface waterflow, encouraging wastewater reclamation, maintaining natural vegetation buffer areas that protect riparian habitats, and minimizing alteration of natural streams.

Conformance: This project conforms to LCP Policy 12. The project removes no native or wetland vegetation, while removing only heavily disturbed habitats dominated by nonnative herbaceous species. These habitats are judged to have low function and value and hence do not meet LCP criteria. The project area does have wetlands meeting LCP criteria. There are no natural streams, estuaries, or lakes affected by the project. All surface storm water runoff from the project area within the LCP will be directed to the City's storm water drainage system. This water is discharged through the CCWRP which treats the water prior to discharge to the ocean. Implementation of Mitigation Measure BIO-1 and BIO-1c1 in the WRP IS/MND will ensure compliance to this LCP policy.

Community Design Element Policy 3

Protect the City's irreplaceable scenic and visual amenities.

Conformance: The project pipeline that will traverse Highway 1 will be completely underground. Thus, the project pipeline is in conformance with this policy.

As stated in Section 3.1, Aesthetics, above, the remainder of the pipeline will also be underground and water tank will not be seen by any sensitive receptors. The City's development permit process requires the submission of a Tree Protection Plan to protect the four affected trees classified as Heritage under the City's Heritage Tree Ordinance, or provide compensation for their loss.

City of Pacifica Zoning Codes--all

Conformance: Public facilities such as pipelines are permitted in each district that the pipeline traverses. The project pipeline alignment and water tank site will require a building permit and a Conditional Use Permit for the pipeline and water tank at Gypsy Hill pursuant to Section 9-4.2101 (b)(3). The project pipeline from the pump station to the 20-inch abandoned force main sleeve will require a Coastal Development Permit from the Coastal Commission.

c) Conflict with any applicable Habitat Conservation Plan or Natural Community Conservation Plan?

All Alternatives: No Impact. No Habitat Conservation Plan or Natural Community Conservation Plan is applicable for any of the sites analyzed in this document.

3.10 MINERAL RESOURCES	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local -general plan, specific plan or other land use plan?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion:

Would the project:

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

All Alternatives: No Impact. Since the project involves the installation of a water-transmission pipeline, booster pumps and a storage tank, no known mineral resources will be mined or used in any phase of this project. Therefore, there will be no loss of availability of a known mineral resource. A portion of the pipeline route is in engineered fill and the entire alignment does not go through any known mineral resources as shown in the City of Pacifica's General Plan that could be disrupted. There are no important mineral resources at the storage tank site or along the pipeline alignment.

b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?

All Alternatives: No Impact. In 1987, the State of California's Mining and Geology Board identified Pacifica Quarry and Mori Point in Pacifica as "construction aggregate resource areas of regional significance" due to their potential to produce mineral aggregate materials, and the City of Pacifica's General Plan acknowledges the Board's designation of these sites.

Neither of the tank sites will be sited in the Quarry or Mori Point area, not do these sites support active mineral extraction activities. Therefore, the project will not result in the loss of availability of any locally important mineral resource recovery sites.

3.11 NOISE	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Would the project result in:				
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3.11 NOISE	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Environmental Setting

The City of Pacifica is characterized as relatively quiet, with the major noise sources along the pipeline route being the vehicles that traverse Highway 1. Ambient noise is also produced from overflights from San Francisco International Airport, about five miles to the east.

Regulatory Environment

The City of Pacifica has adopted standards for evaluating the compatibility of new land uses with the existing on-site noise environment. According to the 1997 General Plan, 60 dB CNEL defines Noise Impact Areas. The noise standards are the basis for the development of land use compatibility guidelines.

If the noise level of a project falls within “Normally Acceptable” or “Conditionally Acceptable” the project is considered compatible with the noise environment. “Normally Acceptable” implies that no mitigation will be needed. “Conditionally Acceptable” implies that minor soundproofing of the structure (as appropriate) may be needed to meet the City noise standards. If the noise level of a project falls within “Normally Unacceptable,” substantial noise mitigation will be necessary to meet the noise standards. If the noise levels fall within “Clearly Unacceptable,” the project is considered clearly incompatible with the noise environment and should not be approved. The City compatibility standards can serve as criteria for measuring project impact if the noise produced by the project will raise a surrounding area above an acceptable CNEL.

Table 3-1 shows typical noise levels of construction equipment at a distance of 25 feet. As is shown from the typical noise levels, no individual piece of equipment is expected to exceed 110 dBA at a distance of 25 feet.

Table 3-1. Typical Noise Levels of Construction Equipment

Equipment	decibel (db) at 25 Feet
Backhoes/Grade-all	78-99
Loaders	78-90
Dump Trucks	89-100
Cement Trucks	89-100
Chain Saws	90-100
Pavement Breakers	82-92
Jackhammers	88-103
Pile Drivers	100-110
Pumps*	75-77
Generators*	77-89

Source: Santa Clara Valley Water District, Matadero/Barron Creeks
Remediation Project, Screen Check DEIR, August 2001.

*Source: USEPA, 1971, 50 foot estimates (db) + 6 db for distance halving.

Discussion

a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?; Or

d) A substantial temporary or periodic increase in ambient noise levels in the project above levels existing without the project?

All Alternatives: Less Than Significant Impact. The projects will only produce substantial noise during the construction phase; thus will not expose people in the community to permanently excessive noise levels. Residents that live near the pipeline project site will be subjected to construction noise for a period of up to one month. Most of the noise will be generated by heavy machinery (a backhoe) that will be used in the construction process. The machinery will have the standard noise muffling devices and construction will be limited to weekdays (M-F) from 8:00 a.m. to 6:00 pm in areas near residences.

b) Exposure of persons to or generation of excessive ground borne vibration or ground borne noise levels?

All Alternatives: No Impact. The water transmission lines, pumps at the CCWRP, or water tank at Gypsy Hill or CCWRP will not be a source of ground borne vibration or ground borne noise levels. None of the construction activities will use equipment that will generate excessive ground borne vibration or noise levels.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

All Alternatives: No Impact. The proposed project is not within the area of any Airport Land Use Plan. The site is approximately five miles west of San Francisco International Airport and seven miles north of Half Moon Bay Airport. The project site is not significantly affected by noise from aircraft over flights.

f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?

All Alternatives: No Impact. The proposed project is not within the vicinity of a private airstrip.

3.12 POPULATION AND HOUSING	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion:

Would the project:

a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

All Alternatives: No Impact. The proposed project, which consists of installing a water-transmission pipeline, booster pumps and a storage tank, involves short-term construction work. The project does not include any new residential or commercial development that would result in substantial population growth. The renovation and extension of the existing pipeline infrastructure will provide non-potable irrigation water to existing facilities and will not induce new development.

b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?

All Alternatives: No Impact. The trenching activities associated with the proposed project are temporary and will not displace existing housing or necessitate the construction of replacement housing. The permanent pipeline and storage tank will not displace any housing.

c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?

All Alternatives: No Impact. The project will be built in existing public rights-of-way and on public land, and will not displace any people.

3.13 PUBLIC SERVICES	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
i) Fire protection?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii) Police protection?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iii) Schools?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv) Parks?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
v) Other public facilities?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion:

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or need for new or physical altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:

i) Fire protection;

All Alternatives: No Impact. The proposed project will not require the provision or alteration of any facilities or the need for new facilities. The specific street routing of the pipeline and its underground placement are not expected to have any impact on service ratios, response times or other performance objectives for the provision of fire protection services, nor will the project increase the need for fire protection services. There is no element in the project that will produce an incremental fire hazard. Therefore, there will be no impact on City of Pacifica fire protection services.

During construction, it is possible that the proposed project might temporarily adversely affect fire department response times to a fire or other emergency by an unknown factor, but it is not considered to be significant, because of the application of BMPs as listed in Section 2.3 of this document and the temporary nature of the construction activities. Construction hours will be on weekdays (M-F) from 8:00 a.m. to 6:00 pm in areas near residences, and will not occur on weekends. Because of the nature of the project, the pipeline installation in City streets will proceed fairly quickly, and it is estimated that the construction duration at any one location will be less than 1 week. Construction activities will allow emergency vehicle access at all times.

ii) Police protection;

All Alternatives: Less Than Significant Impact. The City of Pacifica's police department recently relocated to a new facility, so the proposed project will not require the provision or alteration of any facilities or the need for new facilities. In responding to service and emergency calls, the police department frequently must accommodate street closures or re-routings due to street repair or construction. It is possible that the proposed project might temporarily adversely affect police response times by an unknown factor, but it is not considered to be significant, because of the temporary nature of the construction activities. As stated above, construction hours will be on weekdays (M-F) from 8:00 a.m. to 6:00 pm in areas near residences, and will not occur on weekends. The pipeline installation in City streets will proceed fairly quickly, and it is estimated that the construction duration at any one location will be less than 1 week. Construction activities will not prevent police access in the project area.

iii) Schools;

All Alternatives: No Impact. The proposed project does not include the construction of any new housing units and will not result in any increase in Pacifica's population or increased numbers of students served by local schools. The project will therefore have no impact on City of Pacifica schools.

iv) Parks;

All Alternatives: No Impact: The proposed project will not require the provision or alteration of any recreational facilities or the need for new facilities. The project will not cause an increase in population, or result in a decrease in existing recreational opportunities. Therefore, the project will have no impact on City of Pacifica Parks.

v) Other public facilities?

All Alternatives: No Impact. No other public facilities will be adversely affected by the proposed project.

3.14 RECREATION	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion:

Would the project:

a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

All Alternatives: No Impact. The project will result in the construction of a new recycled water tank and pipelines to provide recycled water to facilities within the City of Pacifica. It will not cause an increase in population or in the use of existing neighborhood or regional parks or recreational facilities, nor result in substantial physical deterioration to any recreational facilities. Therefore, the project will have no impact on these recreational resources.

b) Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

All Alternatives: No Impact. The project does not propose the construction or expansion of any recreational facilities. As a result, there will be no adverse physical effect on the environment resulting from the alteration or creation of any new or existing facilities.

3.15 TRANSPORTATION/TRAFFIC	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in inadequate emergency access?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Result in inadequate parking capacity?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3.15 TRANSPORTATION/TRAFFIC	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Alternative B g) Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Discussion:

Would the project:

a) Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system (for example, result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections); or,

b) Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways?

(a-b) All Alternatives: Less than Significant Impact. The project is a public works project and will not increase or decrease traffic or otherwise affect vehicle trips after construction. As shown in Table 2-1, all alternatives will create new volumes of soil to be offhauled to the Ox Mountain Landfill in Half Moon Bay. Alternative A1, the underground construction of the recycled water tank, will require removal of 500 cubic yards of soil, involving an additional 25 truck trips (over a one month period) over what was previously evaluated in the WRP IS/MND (see Table 2-1). Alternatives A2 and B will require 70 and 15 more trips respectively, than was previously evaluated in the WRP IS/MND (see Table 2-1). The addition of 70 new truck trips over a month period is not substantial (probably no more than five new truck trips per day), thus will not cause a change in any level of service standard established by the San Mateo County Congestion Management Agency.

In addition, there may be a short-term local impact on traffic during construction if construction of a segment of new pipeline requires traffic controls. In such a case, a traffic management plan will be prepared by the contractor hired to install the pipe. There will be no impact on Highway 1 during construction, so the current LOS D would not be exceeded. Emergency and police vehicle access will be allowed during construction.

c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?

All Alternatives: Less Than Significant Impact. The proposed project will result in temporary and very minor traffic increases associated with workers traveling to and from the worksite over the duration of the construction period as well as construction related trucks going to and from sites. The primary construction areas include the NCCWD Gypsy Hill property

where the new water tank will be constructed, and the local roadways where a pipeline will be installed between Clarendon Road and the NCCWD Gypsy Hill property and the CCWRP where the pump station or tanks will be constructed. These are not congested areas that will be impacted by the small number of construction workers and vehicles involved in the construction project.

The project will result in limited increases in traffic on vicinity roads for approximately one year construction period. A traffic management plan will be prepared by the construction contractor to deal with possible traffic reroutes and truck route (as necessary) during the construction process.

Given the temporary and short-term duration of the activities, increased traffic is not considered significant. The project does not require any changes to roadway design nor will it permanently generate increased vehicle trips or traffic congestion. The project will conform to all City of Pacifica codes and regulations governing working in the City's roadways.

d) Substantially increase hazards due to a design feature (for example, sharp curves or dangerous intersections) or incompatible uses (for example, farm equipment)?

All Alternatives: No Impact. The pipeline will be installed adjacent to the state highway and will not directly impact the highway right of way itself. No permanent incompatible uses will be added to the area.

e) Result in inadequate emergency access

All Alternatives: No Impact. The project will not result in inadequate emergency access. The project when completed will be completely underground, except for the water tank which will not prevent emergency access to the site.

f) Result in inadequate parking capacity?

All Alternatives: Less than Significant Impact. Construction workers building the tank will need to park at either the CCWRP or the Gypsy Hill site, depending upon which site is chosen. Both of these sites have adequate parking for these workers. The pipeline installation will not use more workers than what was analyzed in the WRP IS/MND, so there is no change in parking needs for the pipeline. Since the project does not need additional parking spaces after the construction phase, no changes to long-term parking capacity will occur.

g) Conflict with adopted policies, plans, or programs supporting alternative transportation (for example, bus turnouts, bicycle racks)?

All Alternatives: Less than Significant Impact. The project will not conflict with adopted alternative transportation plans. If construction to install the pipeline happens to block a bus turnout or bike lane, the traffic management plan prepared by the construction contractor will assure that an alternative turnout/bike route is provided during the construction period.

3.16 UTILITIES AND SERVICE SYSTEMS	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3.16 UTILITIES AND SERVICE SYSTEMS	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Comply with federal, state, and local statutes and regulations related to solid waste?				
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion

Would the project:

a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board;

All Alternatives: No Impact. The proposed project, involving the installation of any of the following: a water-transmission pipeline, booster pumps and a storage tank will not exceed wastewater treatment requirements of the CCWRP. The project will use treated wastewater consistent to what was analyzed in the PWWFP EIR and does not generate any additional wastewater that requires a treatment facility.

b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects;

All Alternatives: No Impact. The project is a construction of existing water supply facilities. It is not a new development that would cause the construction or expansion of new or existing water supply or wastewater treatment facilities.

c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects;

All Alternatives: No Impact. The project does not require or result in the construction of new storm water drainage facilities or the expansion of current facilities.

d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed;

All Alternatives: No Impact. Installation of water tanks and a pipeline to hold and convey recycled water do not require additional water supplies or new or expanded entitlements.

e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's demand in addition to the provider's existing commitments?

All Alternatives: No Impact. The capacity of the local wastewater treatment plant serving Pacifica is not affected by the proposed project. As stated above and in the WRP IS/MND, this project was contemplated in the PWWFP EIR. Therefore, there is no impact.

f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs; or,

All Alternatives: No Impact. Minimal solid waste will be generated by the construction phase of the proposed project. The completed project will not generate solid waste. The project will not affect the capacity of the landfill that serves the City of Pacifica. Fill removed during construction will be off-hauled and used as daily cover at the landfill.

g) Comply with federal, state, and local statutes and regulations related to solid waste?

All Alternatives: No Impact. There is minimal solid waste generated by the proposed project. The project is not affected by federal, state and local regulations related to solid waste. Fill removed during construction will be off-hauled and used as daily cover at the landfill.

3.17 MANDATORY FINDINGS OF SIGNIFICANCE	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative A1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Does the project have impacts that are individually limited, but cumulatively considerable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative A2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alternative B	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Discussion:

a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

All Alternatives: Less Than Significant Impact with Mitigation. Implementation of the mitigation measures listed in this section have updated those listed in the WRP IS/MND to include the sites listed in the Project Description of this document. These measures will avoid or reduce impacts to less than significant levels.

b) Have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of the past, current, and probable future projects.)

All Alternatives: Less Than Significant Impact. The project is not related to any other proposed or foreseeable future projects that would have a cumulatively significant impact. The project and its impacts were foreseen in the PWWFP EIR in 1994. No impacts in either the

PWWFP EIR or the WRP IS/MND were found to be significant after mitigation, therefore, there are no cumulatively considerable impacts from this project. No probable future projects within the City of Pacifica will be negatively affected by this project. In addition, the project has a net public benefit and is part of the long-term objective in the State of California to reuse wastewater and reduce the demand for potable water for purposes that can satisfactorily be served by recycled wastewater.

c) Have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

All Alternatives: Less Than Significant Impact. As evaluated in this Supplemental Initial Study, the proposed project will either have no impact or less-than-significant impacts on human beings, either directly or indirectly. Short-term construction-related impacts will be minimized or avoided with implementation of Best Management Practices incorporated into the Project (Section 2.3) and additional Mitigation Measures that will be applied as a result of this environmental analysis.

4.0 CEQA Plus Issues

This section contains the “CEQA Plus” components (Tables IV-1 and IV-2) addressing the issues presented in the State Revolving Fund (SRF) Outline. The following text is from the Environmental Documentation Outline, as listed on the State Water Resources Control Board (SWRCB) website (<http://www.swrcb.ca.gov/funding/docs/envguide.doc>).

“The Outline details the steps that must be taken by applicants to comply with the environmental review requirements for the State Revolving Fund (SRF) Loan Program administered by the SWRCB, Division of Clean Water Programs (Division). Generally, the process set forth here is accomplished through compliance with the California Environmental Quality Act (CEQA). In addition, the SRF Loan Program is partially funded by the U.S. Environmental Protection Agency (EPA) and is therefore subject to federal environmental regulations. To comply with applicable federal statutes and authorities, the EPA established specific “CEQA-Plus” requirements in the Operating Agreement with the SWRCB for administering the SRF Loan Program. These requirements are clearly emphasized in these guidelines and apply to projects receiving SRF assistance.”

“The guidelines presented here are intended to supplement the CEQA Guidelines with specific requirements for environmental documents which will be acceptable to the SWRCB when reviewing applications for wastewater treatment facility loans; they are not intended to supersede or replace the CEQA Guidelines.”

“For SWRCB funded projects, the applicant is usually the “Lead Agency” as defined under CEQA and will be responsible for the preparation, circulation and consideration of the environmental document prior to approving the project. The SWRCB and other agencies having jurisdiction over the proposed project are “responsible agencies” under CEQA and are accountable for reviewing and considering the information in the environmental document prior to approving any portion of the project.”

As further stated in these guidelines “The applicant may use a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report (EIR) to comply with CEQA documentation requirements. The applicant may use a previously prepared document accompanied by a checklist used to determine if the project is adequately covered by the document.” Therefore, the following tables offer pertinent SRF information in “checklist” form.

Table 4-1
Checklist for Environmental Documentation
Submitted to the Environmental Services Unit
of the State Water Resources Control Board (SWRCB)

Item Number	Description	Comments
1.	Eight copies of the CEQA document for review and federal consultation	Eight copies of this CEQA document will be sent to the SWRCB directly.
2.	Any biological reports or documents incorporated by reference	See Appendices in document.
3.	A copy of the Notice of Completion that was circulated to the State Clearinghouse	This NOC will be included in the submittal.
4.	A copy of the Notice of Intent for the Negative Declaration	This NOI will be included in the submittal.
5.	Three copies of any cultural resources technical studies completed for the CEQA document	Three copies of Appendix B, Cultural Resources Survey will be included in the submittal.
6.	Two copies of the Adopted Mitigated Negative Declaration (MND)	Two copies of the Adopted SMND will be included in this submittal.
7.	The Adopted Mitigation, Monitoring and Reporting Plan (MMRP)	A copy of the MMRP will be included in this submittal.
8.	Any comments received on the CEQA document and the applicant's responses (as applicable)	Comments and responses to the CEQA document will be included in this submittal.
9.	The Notice of Determination (NOD) filed with the Governor's Office of Planning and Research (OPR)	A copy of the NOD filed with the OPR will be included in this submittal.
10.	The Resolution adopting the Mitigated Negative Declaration	The Resolution adopting the SMND will be included in this submittal.

**Table 4-2
SRF Outline
CEQA-Plus Requirements**

<u>Subject</u>	<u>Requirements</u>	<u>Comments</u>
I. General Requirements		
1. Species protected under the Federal Endangered Species Act (item #13a in the SRF Outline)	To comply with Section 7 of the Federal Endangered Species Act (FESA), the SRF projects will be reviewed during the facilities planning process to determine if the project may affect any federally listed species. The applicant will need to provide the SWRCB Environmental Services Unit (RSU) with any species lists, biological assessments and other documents that disclose information on the project's effect on sensitive species at the earliest date. The ESU will confer informally with the US Fish and Wildlife Service and/or the National Marine Fisheries Service as appropriate.	Please see Appendix F, Species List. This listing has both Federally-listed species and State-listed species. The Biological sections of the 2004 IS/MND and this SIS/MND contains an Existing Setting section that discloses information on the project's effect on sensitive species and identifies mitigation measures that avoid impacts or reduce impacts to sensitive species to less than significant levels.
2. Cultural Resources (item # 13b in the SRF Outline)	<p>Applicants for SRF funds are required to demonstrate to the satisfaction of the SHPO that the project complies with Section 106 of the National Historic Preservation Act. The following items are required:</p> <p>1. Area of Potential Effects (APE). The project's APE includes all construction areas, borrow pits, haul roads, staging areas, etc., as well as the "built environment" in close proximity to the construction area, which may be subject to indirect effects. The APE is typically depicted on topographic maps and large-scale project plans, although aerial photographs are sometimes an effective "base map" alternative.</p> <p>The Division's CRO will consult with the SHPO to determine which of the following items are needed to ensure compliance with Section 106:</p> <p>1. A 7.5' USGS topographical map section with the APE clearly delineated, as well as a request letter that describes the proposed undertaking. A records search "buffer zone" of 1/2 mile beyond the APE limits is usually sufficient for this purpose.</p> <p>2. The applicant's designated researcher should include copies of all materials received from the Information Center, as well as all correspondence, in the documentation submitted for review to the Division's CRO.</p> <p>3. The dates of construction of all elements of the built environment in and adjacent to</p>	<p>The NCCWD will provide APE maps that show all "all construction areas, borrow pits, haul roads, staging areas, etc., as well as the "built environment" in close proximity to the storage tank construction area, which may be subject to indirect effects" and will be depicted on topographic maps and large-scale project plans.</p> <p>1, 2. Appendix B contains the Archaeological and Cultural Resources Survey. A 7.5' USGS topographical map will be prepared for submission.</p> <p>3. The dates of construction of all elements of the built environment will be determined during the pre-field</p>

<u>Subject</u>	<u>Requirements</u>	<u>Comments</u>
	<p>the APE should be determined during pre-field research.</p> <p>4. Documentation of Native American consultation is required under Section 106. This includes a letter from the applicant or their consultant to the Native American Heritage Commission (NAHC) requesting a review of its Sacred Lands Inventory files. Native American consultation should include discussion of any potential project impacts to archaeological sites or traditional cultural places known to the Native American representative or the project archaeologist.</p> <p>5. The applicant may need to submit documentation of a cultural resources field survey conducted by a qualified archaeologist throughout the APE. The survey report should conform to the outline provided in the California Office of Historic Preservation's Preservation Planning Bulletin 4(a), December 1989. A copy of the APE map depicting "area surveyed" and the boundaries of all known cultural resources relative to the project's impact area, should be included in the survey report.</p> <p>6. A Determination of Eligibility may be necessary for any cultural resource that cannot be avoided during project construction. Findings of Effect and mitigation proposals are necessary if a resource is determined to be NRHP-eligible and cannot be preserved through avoidance measures. The applicant's SRF loan contract may include special provisions for protection of cultural resources in and adjacent to the APE.</p>	<p>research.</p> <p>4. Native American consultation shall be initiated during this process.</p> <p>5. The NCCWD will submit any and all field surveys as necessary. These field surveys will be performed by Mr. Miley Holman of Holman Associates.</p> <p>6. A Determination of Eligibility will be prepared as necessary.</p>
<p>3. Public Participation (item #14 in the SRF Outline)</p>	<p>Public participation and review are essential to the CEQA process (Section 15087). Each public agency should include wide public involvement, formal and informal, consistent with its existing activities and procedures, to receive and evaluate public reactions to environmental issues related to its project. Public comments or controversies that are not addressed during the planning of a proposed project could result in the need for a subsequent environmental document at a later stage or lead to legal challenges, thus delaying the project and raising the cost significantly</p>	<p>The CEQA process allows for the public process, and a 30-day review period will occur in mid-July to mid-August.</p>
II. Environmental Setting		
<p>A. Relationship of Project to Other Planning Documents Include a discussion of all the following detailed elements as applicable: if an element is not present</p>		

<u>Subject</u>	<u>Requirements</u>	<u>Comments</u>
within the described area, give reasons or verify with investigative results. Consider all facilities; conveyance lines; storage, discharge, and disposal site(s); staging areas; affected service area; and water recycling reuse sites when applicable)		
1. Water quality control plans a) Basin Plan b) Watershed Management Plan c) Area-Wide Wastewater Treatment Plan	Include beneficial uses of the receiving waters as given in the applicable Basin Plan.	The Project complies with the Basin Plan, Watershed Management Plan and Calera Creek Wastewater Treatment Plan.
2. General Plan		The project's conformance to City of Pacifica General Plan elements is listed in Chapter 3.9
3. Regional Transportation Plan		The proposed project does not conflict with the San Mateo County Regional Transportation Plan, as it will result in the use of recycled water for irrigation of a golf course, parks, schoolyards and ballfields, and Hwy. 1 landscaping. No new temporary or permanent residents will be added in the area which would adversely affect regional transportation facilities in the area. The construction of the proposed project will not affect regional transportation facilities such as Hwy.1.
4. Regional Housing Allocation Plans		See above for a discussion regarding the generation of new residents in the area (none are expected).
5. Air Quality Management Plan		Since the project does not generate new permanent residents, and because the project is relatively small, no new air quality impacts are expected (see the Air Quality discussion in Chapter 3.3 in this document). Therefore, the proposed project will not adversely affect the Air Quality Management Plan.
6. Habitat Conservation Plans (HCPs)		There are no HCPs for the subject site.
7. Regional land use plans	The applicable Regional Land Use Plan is for the Coastal Zone.	Coastal Zone issues are discussed in Section III, of the 2004 Initial Study Checklist and in Chapter 3.9 of this document. The project is in conformance with all Local Coastal Plan policies.

<u>Subject</u>	<u>Requirements</u>	<u>Comments</u>
B. Topography of the Region		
1. Location of project area with regard to major topographical features		See Section II, Project Description, of the 2004 Initial Study Checklist.
2. Elevations and slopes on project site (for grading and excavation activities)		The majority of the site is relatively flat, as shown in Figure II-7 in the 2004 WRP IS/MND.
C. Land Use and Zoning		
1. At project site 2. Adjacent to project site 3. Along pipeline alignments 4. At reclaimed water reuse sites		Land Use and Zoning issues are discussed in Section III, of the Initial Study Checklist (2004 WRP IS/MND) and in Chapter 3.9 in this document. The project is in conformance with all City of Pacifica General Plan policies and the City's Zoning Code.
D. Geology of the Region		
1. Seismic hazards 2. Unstable substrate 3. Erosion potentials 4. Information directly relating to a water quality problem (e.g., fractured bedrock)		Geological issues are discussed in Section III, of the 2004 Initial Study Checklist and in Chapter 3.6. The project contains a discussion of all Geologic issues and contains a mitigation measure that will ensure that no geologic impacts exceeding Standards of Significance occur.
E. Climate		
1. Annual precipitation 2. Seasonal weather patterns		Climatic situations are discussed in the Air Quality responses to the Initial Study Checklist (Section III of 2004 WRP IS/MND).
F. Air Quality for construction related impacts (also see No. 5 above)		
1. Air basin 2. State and Federal attainment status for the following pollutants: a) Ozone b) Nitrogen dioxide c) Sulfur dioxide d) Particulates e) Carbon monoxide 3. Status of local air quality plan		Please see No. 5 above.
G. Major Botanical Features (plant communities or associations) and Important Fish and Wildlife (major species and economically or recreationally important species)		
		Major botanical features are discussed in the Biological subsection of Section III of the 2004 Initial Study Checklist. Appendix E of this SMND contains a list of plant species observed in the Gypsy Hill pipeline corridor and project area.

<u>Subject</u>	<u>Requirements</u>	<u>Comments</u>
H. Threatened or Endangered Species (Listed, Proposed or Candidate)		
1. U.S. Fish and Wildlife 2. National Marine Fisheries Service 3. California Department of Fish and Game 4. Private Organization Listings (e.g., California Native Plant Society)		None are affected by the proposed project. See Chapter 3.4 of the SMND.
I. Critical Habitats listed by the U.S. Fish and Wildlife Service		
1. Plant Community Type 2. Location 3. Size		None are affected by the proposed project. See Chapter 3.4 of the SMND.
J. Wetlands delineated by Army Corps of Engineers		
1. Type 2. Location 3. Size		None are affected by the proposed project. Refer to Chapter 3.4 of the SMND.
K. Designated Wild and Scenic Rivers (Include Map if Present)		
1. Name 2. Location 3. Classification		None are affected by the proposed project.
L. Water Resources		
1. Surface water features a) Lakes b) Rivers c) Estuaries d) Ocean e) Lagoons, marshes and other water features 2. Groundwater resources a) Depth b) Water quality c) Basin description 3. Receiving water quality a) Qualitative description b) Quantitative analysis c) Comparison to effluent quality d) Beneficial uses 4. Water supplies for the service area a) List of water purveyors b) Percentage of supply from each source		1. See Project Description in Chapter II of the document and Chapter 3.8. 2. See the Biology and Hydrology sections in Section III, 2004 Initial Study Checklist and Chapters 3.4 and 3.8 of this SMND. 3. See the Biology and Hydrology sections in Section III, 2004 Initial Study Checklist and Chapters 3.4 and 3.8 of this SMND. 4. The North Coast County Water District is the sole water supplier in Pacifica.
M. Agricultural Land		
1. Acres by type (e.g. prime, statewide significance, local significance) 2. Zoning 3. Present use		No agricultural lands will be affected by the proposed project. See Section 3.2 of this SMND.

<u>Subject</u>	<u>Requirements</u>	<u>Comments</u>
N. Cultural resources		
1. Archaeological resources 2. Historic architecture, landscapes, features, structures or objects 3. Traditional cultural properties 4. Paleontological resources		See Section III, 2004 Initial Study Checklist, Chapter 3.5 of this SMND and also Appendix B of this document.
O. Coastal Zone Jurisdiction		
		Coastal Zone issues are discussed in Section III, of the 2004 Initial Study Checklist and in Chapter 3.9 of this document. The project is in conformance with all Local Coastal Plan policies.
P. Floodplain Delineated by the Federal Emergency Management Agency (FEMA) or Other Agency		
		None of the areas of pipeline alignment or construction are within any floodplain defined by FEMA or any other agency (Section 3.8).
III. Primary And Secondary Impacts		
A. Water Quantity		
1. Change in point of discharge 2. Increase/ decrease in stream discharge 3. Increase in water demands		These issues are discussed in both Sections II and III of the 2004 WRP IS/MND document and Chapter 3.4 of this document.
B. Water Quality		
1. Surface water a) Contamination from construction materials b) Siltation from construction related erosion c) Effluent discharge d) Storm runoff from site e) Reclaimed water runoff 2. Groundwater a) Percolation of effluent b) Construction dewatering		1, 2. See the Biology and Hydrology sections in Section III, 2004 WRP Initial Study Checklist and Chapters 3.4 and 3.8 of this document.
C. Air Quality		
1. Project construction emission estimates for non-attainment or maintenance pollutants 2. Air basin emissions inventory for federal non-attainment or maintenance areas 3. Construction dust 4. Odors		1-4. These issues are discussed in Section III, 2004 WRP Initial Study Checklist and Chapter 3.3 of this document. No significant impacts are expected to occur.
D. Geology		
1. Slope stability 2. Seismic hazards		1, 2. These issues are discussed in Section III, 2004 WRP Initial Study Checklist and Chapter 3.6 of this document. No significant impacts are expected to occur.
E. Soils		
1. Erosion 2. Contamination		1-4. These issues are discussed in Section III. 2004 WRP Initial Study

<u>Subject</u>	<u>Requirements</u>	<u>Comments</u>
3. Compaction 4. Stability		Checklist and Chapter 3.6 of this document. Implementation of mitigation measure GEO-1 will ensure that no significant impacts occur.
F. Vegetation		
1. Grading and excavation impacts 2. Trampling 3. Effluent impacts on aquatic and riparian vegetation 4. Conflict with local policies and ordinances		1-4. These issues are discussed in Section III, 2004 WRP Initial Study Checklist and Chapter 3.4 of this document. Implementation of mitigation measures in the Biology subsection will ensure that no significant impacts occur.
G. Fish and Wildlife		
1. Construction noise and interference 2. Habitat loss 3. Interference with movement/ migration 4. Waterfowl attraction to open ponds 5. Effluent impact on aquatic biota 6. Conflict with local policies		1-6. These issues are discussed in Section III, 2004 WRP Initial Study Checklist and Chapter 3.4 of this document. Implementation of mitigation measures in the Biology subsection will ensure that no significant impacts occur.
H. Aesthetics		
1. Temporary impacts from construction 2. Visual disruption of new facilities 3. Creation of a new source of light or glare		1-3. These issues are discussed in Section III, 2004 WRP Initial Study Checklist and Chapter 3 of this document. No significant impacts are expected to occur.
I. Noise		
1. Construction 2. Operation		1, 2. These issues are discussed in Section III, 2004 WRP Initial Study Checklist and in Chapter 3.11 of this SMND. No significant impacts are expected to occur.
J. Recreation		
1. Disruptions 2. Closures		1, 2. These issues are discussed in Section III, 2004 WRP Initial Study Checklist and Chapter 3.14 of this document. No significant impacts are expected to occur.
K. Open Space		
1. Loss of 2. Construction or operation related interference 3. Conflict with local policies		1-3. These issues are discussed in Section III, 2004 WRP Initial Study Checklist and Chapter 3.14 of this document. No significant impacts are expected to occur.
L. Cultural Resources		
1. Facilities construction impacts 2. Pipeline alignment excavation impacts 3. Erosion impacts		1-5. These issues are discussed in Chapter 3.5 of this document. Implementation of mitigation measure

<u>Subject</u>	<u>Requirements</u>	<u>Comments</u>
4. Inundation from ponds 5. Impacts from land application of effluent		CUL-1, CUL-2, and CUL-3 will ensure that no significant impacts occur.
M. Threatened or Endangered Species		
1. Incidental taking of a species 2. Potential for jeopardizing the viability of the population 3. Loss of habitat 4. Harassment 5. Interference with movement/migration 6. Disruption of reproductive activities		1-6. These issues are discussed in Section III, 2004 WRP Initial Study Checklist and in Chapter 3.4 of this document. Implementation of mitigation measures in the Biology subsection will ensure that no significant impacts occur.
N. Environmentally Sensitive Areas		
1. Loss of environmentally significant agricultural land 2. Incompatible activities within the coastal zone 3. Removal, filling, hydraulic interruption, or other means of affecting wetlands as defined by Section 404 of the Clean Water Act 4. Impacts to sensitive natural communities identified by DFG or FWS 5. Impacts on wild & scenic rivers 6. Construction on floodplains that could impede floodwaters or expose structures to significant losses 7. Loss of critical habitats		1. No loss of any agricultural land will occur. 2. No activities are incompatible with the Local Coastal Plan. 3. No removal, filling, or other means of affecting wetlands pursuant to Section 404 of the Clean Water Act will occur. No Section 404 permit is needed. 4, 7. The Biological mitigation measures listed in Section III of the document will ensure that no significant impacts to sensitive natural communities or critical habitats occur. 5. No wild or scenic rivers will be affected by the proposed project. 6. No floodplains are affected; the project will not impede floodwaters or expose structures to significant losses.
O. Energy		
1. Use during construction 2. Use during operation		Since this is not a large project, a moderate amount of gas and electricity will be used during the construction process. The amount of energy used will not exceed available supplies.
P. Transportation/Circulation		
1. Traffic interference during construction 2. Traffic increases during construction and operation 3. Parking interference during construction and operation		1, 2. All construction operations shall follow applicable City of Pacifica codes to ensure that traffic flow is not significantly impacted. 3. Parking of construction vehicles will be at the staging areas at either the Calera Creek Wastewater Recycling Plant or at the Gypsy Hill property. A minimum number of construction-related vehicles will be allowed at the construction sites.

<u>Subject</u>	<u>Requirements</u>	<u>Comments</u>
		Neighbor parking may be disrupted for a few days; signs will be posted to notify residents so they can park in non-construction areas. Refer to Chapter 3.15 of this SMND.
Q. Public Services		
	<ol style="list-style-type: none"> 1. Additional public services required for facilities operation 2. Additional public services required for service area expansion 3. Construction and operation interferences on public utilities 	<ol style="list-style-type: none"> 1. No additional public services should be needed for facilities operation, besides the pump station at the Calera Creek Wastewater Recycling Plant. 2. No service area expansion is proposed. 3. No construction and operation interferences on public utilities are expected to occur. Refer to Chapter 3.13 of this SMND.
R. Public Health and Safety		
	<ol style="list-style-type: none"> 1. Use of reclaimed water 2. Excavation of contaminated soils 3. Mosquito attraction to open ponds 4. Interference with emergency operations 5. Use, storage, and disposal of hazardous materials 	<ol style="list-style-type: none"> 1. No significant public health and safety effects are expected; please see Section III, 2004 WRP Initial Study Checklist or chapter 3 of this document for details. 2. No excavation of contaminated soils is expected. 3. No new ponds are proposed. 4. The project is not expected to interfere with emergency operations—all construction areas along City of Pacifica streets shall have one lane open. 5. No use, storage and/or disposal of hazardous materials is expected.
S. Population and Housing		
	<ol style="list-style-type: none"> 1. Additional work force for construction and operation 2. Growth inducement 	<ol style="list-style-type: none"> 1. Additional work force from existing will be needed for construction, but not for operation. No new impacts are expected. 2. No new growth is expected to occur, as this project will irrigate existing facilities within Pacifica. Refer to Chapter 3.12 of this SMND.
T. Land Use and Zoning		
	<ol style="list-style-type: none"> 1. Incompatible use of project site 2. Conflict with surrounding land use or a Williamson Act contract 	<ol style="list-style-type: none"> 1, 2. The project site/alignment is not incompatible with surrounding land uses. No Williamson Act contracts exist on either the proposed alignment areas or in adjacent areas. Refer to Chapter 3.9 of this SMND.

5.0 References

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- Engeo Incorporated. Geotechnical Exploration, Calera Creek Water Recycling Pump Station, Pacifica, California. November 6, 2006. Project No. 7443.1.001.01
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- Land/Marine Geotechnics. Geotechnical Investigation, North Coast County Water District Gypsy Hill Tank, Pacifica, California. October 14, 2005. Project No. 105.005
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Persons and Organizations Consulted

- John Rayner, Kennedy/Jenks Consultants, Palo Alto, California.
- Steve Wallner, Kennedy/Jenks Consultants, Palo Alto, California.