
Proposed Mitigated Negative Declaration

Yorba Linda Pump Station Abandonment Project

Fullerton, California

Prepared for



Orange County Sanitation District

Prepared by
JACOBS

December 2014

Proposed Mitigated Negative Declaration

Project Proponent: Orange County Sanitation District (Sanitation District)
10844 Ellis Avenue, Fountain Valley, California 92708

Project Description: The Sanitation District proposes to abandon the existing Yorba Linda Pump Station Project (Project) by demolishing it and its associated infrastructure and abandoning two gravity sewer lines and a force main. Wastewater that currently flows to the pump station would be conveyed by gravity to the Newhope-Placentia Trunk, located in State College Boulevard, west of the project site.

Project Location: 2600 East Yorba Linda Boulevard, Fullerton, California. Corner of Yorba Linda Boulevard and Campus Drive (Associated Road)

Finding: Pursuant to the provisions of the California Environmental Quality Act (CEQA), the Sanitation District has determined that the proposed Project will not have a significant effect on the environment. Following an Initial Study and assessment of possible adverse impacts, the proposed Project was determined not to have a significant impact on the environment. Therefore, the Sanitation District has prepared a Mitigated Negative Declaration in accordance with the provisions of CEQA.

The Initial Study is available at www.ocsd.com. Copies are also available for viewing at:

- Orange County Sanitation District, Administrative Office Bldg., Engineering Department, 10844 Ellis Avenue, Fountain Valley, CA 92708
- Fullerton Public Library, 353 W. Commonwealth Ave., Fullerton, CA 92832
- Placentia Library District, 411 E Chapman Ave., Placentia, CA 92870

Staff: Kathleen Milica

Signature: 

Date: 12-16-2014

Initial Study

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Acronyms and Abbreviations

APE	Area of Potential Effect
AQMP	Air Quality Management Plan
BMP	best management practice
CEQA	California Environmental Quality Act
CO	carbon monoxide
EIR	Environmental Impact Report
lb/day	pounds per day
NO _x	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
PM ₁₀	particulate matter less than 10-microns
Project	Yorba Linda Pump Station Abandonment Project
ROC	reactive organic compounds
Sanitation District	Orange County Sanitation District
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SO _x	sulfur oxides
SWPPP	Storm Water Pollution Prevention Plan

1.0 Introduction

1.1 Background

This Initial Study has been prepared in accordance with the California Environmental Quality Act (CEQA) guidelines and regulations. The Initial Study examines the direct, indirect, growth-inducing, irreversible, short- and long-term, and cumulative environmental effects associated with the demolition of the proposed Yorba Linda Pump Station Abandonment Project (proposed Project).

1.2 Purpose

In accordance with Section 15367 of the California Code of Regulations, the Orange County Sanitation District (Sanitation District) is identified as the Lead Agency for the proposed project. Pursuant to Section 15063(a) of CEQA Guidelines, the Sanitation District is required to undertake the preparation of an Initial Study to determine if the proposed action will have a significant effect on the environment. The purposes of this Initial Study are to: (1) identify potential environmental impacts, (2) provide the Lead Agency with information to use as the basis for deciding whether to prepare an Environmental Impact Report (EIR) or Negative Declaration, (3) enable the Lead Agency to modify the proposed Project (through mitigation of adverse impacts), (4) facilitate assessment of potential environmental impacts early in the design of the proposed Project, and (5) provide documentation for the potential finding that the proposed Project will not have a significant effect on the environment or can be mitigated to a level of insignificance. This Initial Study is an informational document providing an environmental basis for subsequent discretionary actions that could be required from other Responsible Agencies.

1.3 Statutory Requirements and Authority

In the State of California CEQA Guidelines, Section 15063 identifies specific disclosure requirements for inclusion in an Initial Study. Pursuant to those requirements, an Initial Study shall include: (1) a description of the proposed Project, including the location of the Project site; (2) an identification of the environmental setting; (3) an identification of environmental effects by use of a checklist, matrix, or other method, provided that entries on a checklist or other form are briefly explained to indicate that some evidence exists to support the entries; (4) a discussion of ways to mitigate significant effects identified, if any; (5) an examination of whether the proposed Project is compatible with existing zoning, plans, and other applicable land-use controls; and (6) the name(s) of the person or persons who prepared or participated in the preparation of the Initial Study.

The Sanitation District will hold a public meeting on January 8, 2015 at 6:00 p.m. at the City of Fullerton City Council Chambers, located at 303 West Commonwealth Avenue Fullerton, CA 92832. Written comments will be considered before action is taken to approve, approve with amendments, or deny the proposed Project. **All comments must be received by January 16, 2015.**

Submit comments via postal mail or email to:

Daisy Covarrubias, Senior Staff Analyst
 Orange County Sanitation District, Planning Division
 10844 Ellis Ave, Fountain Valley, CA 92708-7018
 Email: dcovarrubias@ocsd.com

1.4 Permits and Approvals

Public agencies could use this Initial Study as the basis for their decisions to issue approvals and/or permits that could be applicable to the proposed Project. Table 1-1 provides a list of those entitlements and permits that could be required for the proposed Project.

Table 1-1: Project Permits and Approvals

Agency Name	Permit or Approval
Caltrans District 12	Encroachment Permit
California State University Fullerton	Construction Permit
South Coast Air Quality Management District	Permit to Construct
City of Fullerton	Building Division Permit/Approval of Traffic Control Plan
City of Placentia	Building Permit/Approval of Traffic Control Plan

1.5 Agency Consultation and Coordination

The agencies listed in Table 1-1 could require the Sanitation District to obtain approvals for the proposed Project. Coordination with other agencies may be required to determine the specific nature of any future permits or approvals. Agencies would be notified pursuant to CEQA guidelines, any subsequent comments would be considered accordingly. In addition, this document is intended to provide agencies and the general public with an environmental basis under CEQA to facilitate the dissemination of information deemed necessary to the discretionary approvals process and the approval, or conditional approval, of any aspect of the proposed Project within the jurisdiction of the agency.

2.0 Project Description

2.1 Project Background and Location

The Sanitation District is proposing to demolish the existing Yorba Linda Pump Station, as well as an existing below ground force main and two gravity sewer lines located in the City of Fullerton (Figure 2-1). The existing pump station facility and gravity sewer lines are located at the corner of Yorba Linda Boulevard and Campus Drive (Associated Road) and north of California State University, Fullerton. The force main is located along Yorba Linda Boulevard, on private property (Tribeca Apartments), and Palm Drive (Figure 2-2).

The Sanitation District maintains a wastewater collection system composed of sewers and pump stations. The collection system conveys wastewater from the Sanitation District's member agencies and other local agencies to Reclamation Plant No. 1 located in Fountain Valley and Treatment Plant No. 2, located in Huntington Beach. Currently the Yorba Linda Pump Station pumps flow away from the Sanitation District gravity sewer located on State College Boulevard, the Newhope-Placentia Trunk, due to lack of capacity necessary to meet current dry weather flow conditions. The wastewater is conveyed east ultimately joining with flow in the Santa Ana River Interceptor and is treated at Treatment Plant No. 2. The Sanitation District has determined that upgrading the equipment and associated facilities at the existing Yorba Linda Pump Station is not practical due to the high costs of rehabilitating the pump station and the apparent redundancy of the facility after the Newhope-Placentia Trunk is upsized to meet additional demand for future land development projects in the area. The wastewater currently pumped away from the Newhope-Placentia Trunk will be allowed to gravity flow to the facility once it is upsized. The Sanitation District is currently in the design phase of the Newhope-Placentia Trunk Replacement Project. Construction of this project will be completed prior to the abandonment of the Yorba Linda Pump Station.

The proposed Project would be located in an area comprising primarily education (California State University, Fullerton) and commercial uses.

2.2 Project Elements

The proposed Project would consist of the following elements:

- Demolition and abandonment of Yorba Linda Pump Station
 - Removal of the existing wall, gates and berms enclosing the pump station
 - Removal and disposal of all mechanical and electrical equipment
 - Removal of the below ground dry well, wet well, and access stairwells
 - Backfill and compaction of soils
 - Rough-grading of the site
 - Landscaping to be determined in coordination with California State University, Fullerton

- Abandonment in-place of 7,270 feet of an existing below grade 30-inch force main located along Yorba Linda Boulevard, private property, and Palm Drive
 - Excavation of an estimated 15 grout injection holes (approximately 5-foot by 5-foot) located at approximately 500 foot intervals along the length of the force main
 - Restoration of road pavement and landscaping to pre-existing conditions
- Abandonment of 140 feet of 24-inch gravity pipe, located in the public right of way using grout injection
- Removal of approximately 50 feet of 24-inch gravity sewers located on the pump station site
- Abandonment of 50 feet of 15-inch gravity pipe, located in the public right of way using grout injection
- Removal of approximately 40 feet of 15-inch gravity sewer located on the pump station site
- Modification of the downstream manhole located at the intersection of Kraemer Boulevard and Palm Drive

Figure 2-1: Project Vicinity Map

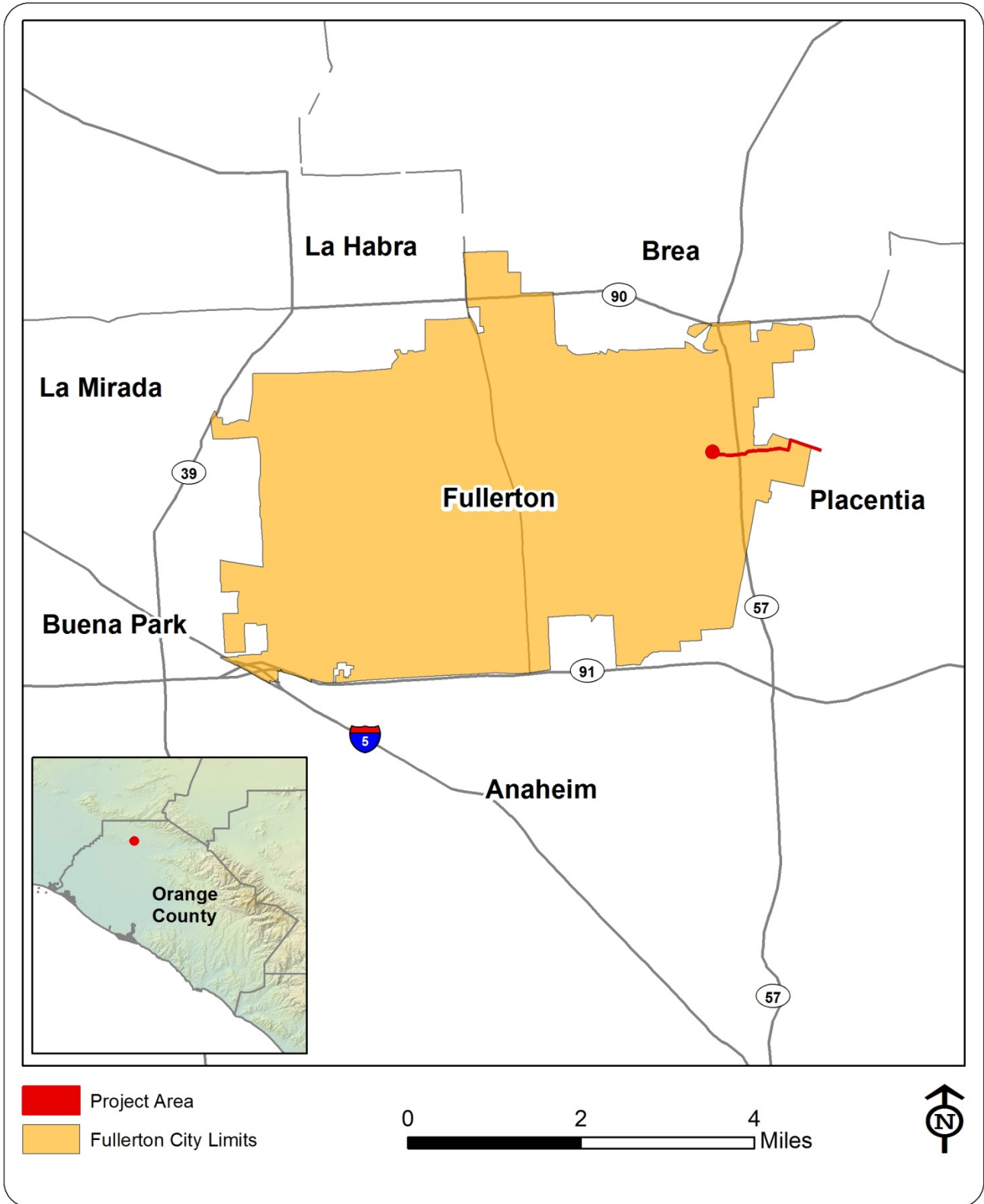
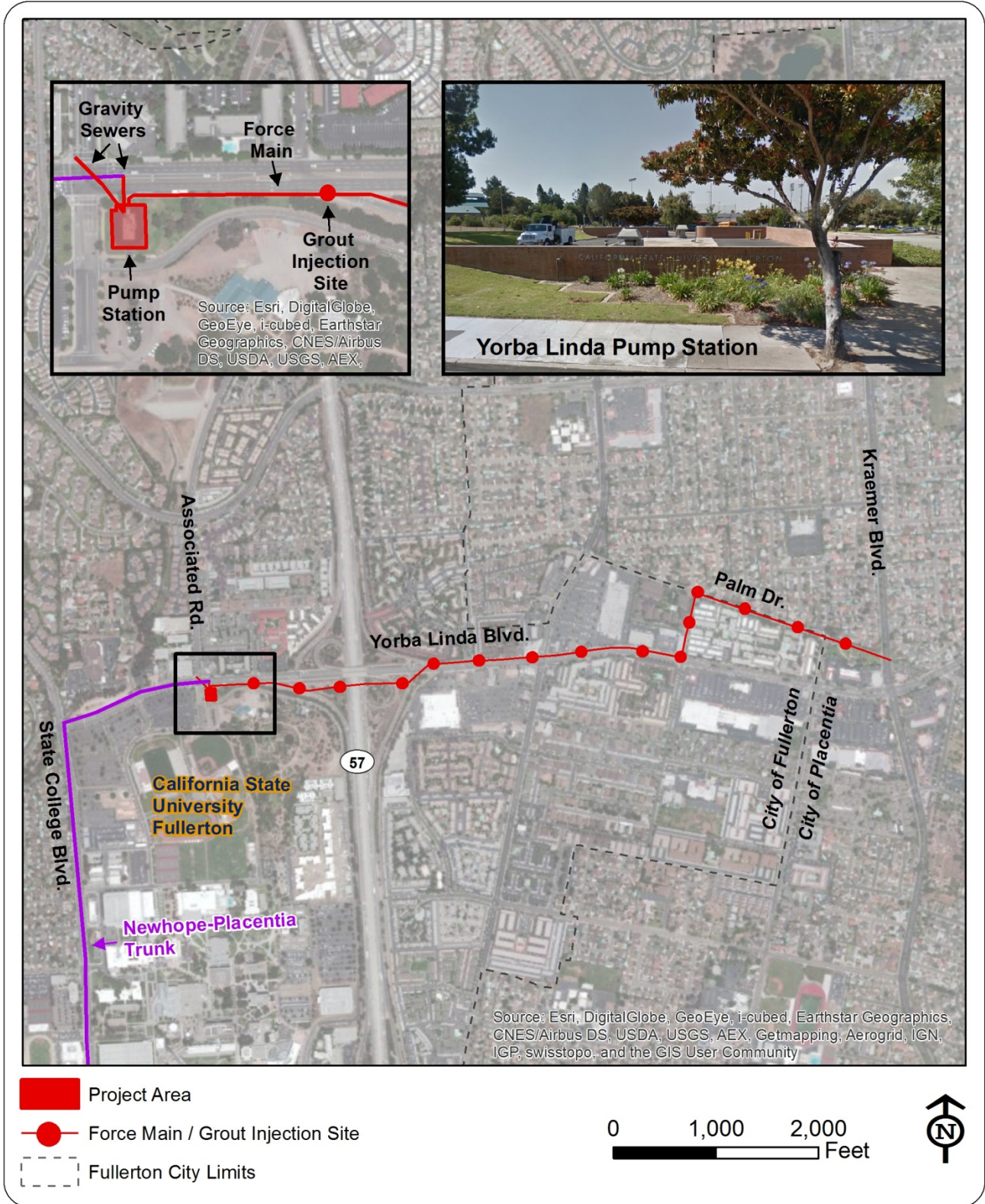


Figure 2-2: Project Area Map



2.3 Project Construction

All proposed Project construction would take place within the proposed Project areas (i.e. existing pump station site and the proposed grout injection sites). Construction access to the existing pump station would occur from Campus Drive and access to the below grade force main and gravity sewer lines would occur along Yorba Linda Blvd and Palm Drive.

Construction Schedule

Under the current schedule, demolition of the existing pump station and abandonment in-place of force main and gravity sewers would occur between 2019 and 2022. Demolition would occur during permitted hours identified in the City of Fullerton Building Code. No demolition activities would occur outside these hours, on Sundays, or federal holidays unless a temporary waiver is granted by an authorized agency representative.

Traffic Control

The proposed Project would require the demolition and removal of all above grade and below grade debris and equipment from the existing pump station site. Below ground structures, located in the public right of way, such as the existing force main and gravity sewer lines would be abandoned in place using grout injected into the piping from grout injection holes spaced at 500-foot intervals along Yorba Linda Boulevard and Palm Drive. Equipment, debris removal, and vehicle parking would be coordinated with the City of Fullerton and California State University, Fullerton to minimize impacts to local traffic. Vehicles entering and exiting the pump station site during demolition would use Campus Drive and access to the grout injection sites (total 15 sites) would occur along Yorba Linda Boulevard and Palm Drive. Use of equipment for grout injection into the force main is anticipated to encroach on one lane of traffic along Yorba Linda Boulevard and Palm Drive. Abandonment of the gravity sewer lines located in the public right away will require access to the upstream manholes located in the intersection of Yorba Linda Boulevard and Campus Drive and in Yorba Linda Boulevard northwest of the pump station site. A traffic management plan, approved by the City of Fullerton and the City of Placentia, would be implemented during demolition of the pump station and abandonment in place of the force main and gravity sewer lines. Traffic control will allow vehicle traffic to continue along Yorba Linda Boulevard and Palm Drive at all times during work activities and could include flagmen and/or signs to direct traffic. During hours when demolition does not occur, all lanes of traffic would be open along Yorba Linda Boulevard and Palm Drive. Nighttime work may be used to limit impacts to traffic along Yorba Linda Boulevard and Palm Drive.

Excavation

Demolition of the existing pump station and abandonment of the force main would include excavation at the pump station site and at approximately 15 locations along the force main. No excavation is anticipated for the abandonment of the gravity sewer lines. All excavation would be limited to the

proposed Project footprint, as depicted in Figure 2-2. Excavation spoils and all solid waste produced during demolition and grout injection activities would be disposed at a properly permitted facility in accordance with federal and state laws.

Construction Equipment

The types of equipment anticipated for use during construction activities are listed in Table 2-1.

Table 2-1: Construction Equipment for Deconstruction of Pump Station by Construction Phase

Activity	Construction Equipment Type	Hours of Operation/Day	Number of Working Days	Total Days/ Hours of Operation ¹	Total Worker Trips (per day)
Demolition/ Excavation	Excavator	6	20	185/1,100	20
	Front-end loader	8	20		
	Dump truck	8	20		
	Water truck	4	20		
	Concrete saw	4	5		
	Concrete breaker	4	20		
	Pick-up trucks (4)	6 (24)	20 (80)		
Site Prep		0	0	0	0
Grading		0	0	0	0
Building/ Construction	Dump Truck	6	5	25/150	5
	Skid-steer/mini excavator	6	5		
	Pick-up trucks (4)	6 (24)	5 (20)		
Paving/ landscape	Dump truck	4	2	2/8	2

¹ Total days equates to the sum of working days for all construction equipment types

Table 2-2: Construction Equipment for Abandonment of Force Main by Construction Phase

Activity	Construction Equipment Type	Hours of Operation/Day	Number of Working Days	Total Days/Hours of Operation ¹	Total Trips Worker (per day)
Demolition	Excavator	6	15	113/650	14
	Front-end loader	6	14		
	Dump truck	6	14		
	Concrete saw	4	14		
	Pick-up trucks (4)	6 (24)	14 (56)		
Site Prep		0	0	0	0
Grading		0	0	0	0
Building/ Construction	Concrete pump truck	4	28	140/784	28
	Pick-up trucks (4)	6 (24)	28 (112)		
Paving	Asphalt delivery truck	6	14	84/504	14
	Asphalt Wheel Roller	6	14		
	Pick-up trucks (4)	6 (24)	14 (56)		

¹Total days equates to the sum of working days for all construction equipment types

Table 2-3: Construction Equipment for Abandonment of Gravity Sewer Lines by Construction Phase

Activity	Construction Equipment Type	Hours of Operation/Day	Number of Working Days	Total Days/Hours of Operation ¹	Total Trips Worker (per day)
Demolition		0	0	0	0
Site Prep		0	0	0	0
Grading		0	0	0	0
Building/ Construction	Concrete pump truck	6	2	2/48	2
	Pick-up trucks (4)	6 (24)	2 (8)		
Paving		0	0	0	0

¹Total days equates to the sum of working days for all construction equipment types

2.4 Project Operation

Prior to the demolition of the pump station and abandonment of the gravity sewer lines and force main, wastewater will be conveyed by gravity to the Newhope-Placentia Trunk. The trunk line will be upsized to accommodate the increased flows. There will not be any operational impacts associated with the demolished pump station, and abandoned force main, or gravity sewers.

3.0 Environmental Checklist Form

3.1 Project Description and Background

1. Project Title

Yorba Linda Pump Station Abandonment Project

2. Lead Agency Name and Address:

Orange County Sanitation District, 10844 Ellis Avenue, Fountain Valley, CA 92708

3. Contact Person and Phone Number:

Daisy Covarrubias, (714) 593-7119

4. Project Location:

The project is located in the City of Fullerton and the City of Placentia. The existing pump station and gravity sewer lines are located at the corner of Yorba Linda Boulevard/Campus Drive. The force main is located east along Yorba Linda Boulevard, on private property (Tribeca Apartments), and in Palm Drive.

5. Project Sponsor's Name and Address:

Orange County Sanitation District, 10844 Ellis Avenue, Fountain Valley, CA 92708

6. General Plan Designation:

The proposed Project site is designated as Education and Mixed Use under the City of Fullerton General Plan.

7. Zoning:

The proposed Project site is zoned as Public Land, General Commercial, and Residential.

8. Description of Project:

The proposed Project would deconstruct the existing Yorba Linda Pump Station and abandon the associated underground sewer lines and force main.

9. Surrounding Land Uses and Setting:

Land use surrounding the Project site is mainly educational, commercial, residential, and mixed use.

10. Other public agencies whose approval is required:

The Sanitation District could be required to obtain approval from Caltrans District 12, the cities of Fullerton and Placentia, and California State University, Fullerton.

11. Environmental Factors Potentially Affected:

The environmental factors checked below potentially would be affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages. Please see the Environmental Checklist for additional information.

<input type="checkbox"/>	Aesthetics	<input type="checkbox"/>	Agriculture and Forestry	<input type="checkbox"/>	Air Quality
<input type="checkbox"/>	Biological Resources	<input type="checkbox"/>	Cultural Resources	<input type="checkbox"/>	Geology/Soils
<input type="checkbox"/>	Greenhouse Gas Emissions	<input type="checkbox"/>	Hazards and Hazardous Materials	<input type="checkbox"/>	Hydrology/Water Quality
<input type="checkbox"/>	Land Use/Planning	<input type="checkbox"/>	Mineral Resources	<input type="checkbox"/>	Noise
<input type="checkbox"/>	Population/Housing	<input type="checkbox"/>	Public Services	<input type="checkbox"/>	Recreation
<input type="checkbox"/>	Transportation/Traffic	<input type="checkbox"/>	Utilities/Service Systems	<input type="checkbox"/>	Mandatory Findings of Significance

3.2 Determination

On the basis of this initial evaluation:

<input type="checkbox"/>	I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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

Signature: Kathleen Miller Date: 12-16-2014
 Printed name: Kathleen Miller For: OCS

3.3 Evaluation of Environmental Impacts

- 1) A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including offsite as well as onsite, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the Lead Agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an EIR is required.
- 4) “Negative Declaration: Less Than Significant with Mitigation Incorporation” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less Than Significant Impact.” The Lead Agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section XVII, “Earlier Analyses,” may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a. Earlier Analysis Used. Identify and state where they are available for review.
 - b. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c. Mitigation Measures. For effects that are “Less than Significant with Mitigation Incorporation,” describe the mitigation measures that were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared

or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

- 7) **Supporting Information Sources:** A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9) The explanation of each issue should identify:
 - a. the significance criteria or threshold, if any, used to evaluate each question; and
 - b. The mitigation measure identified, if any, to reduce the impact to less than significance.

3.4 CEQA Checklist

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
I.	AESTHETICS: Would the project:				
a)	Have a substantial adverse effect on a scenic vista	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b)	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway	<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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d)	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
II.	AGRICULTURE AND FOREST RESOURCES: 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. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and the forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. 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?	<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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c)	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
	(as defined by Government Code section 51104(g))?				
d)	Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e)	Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
III.	AIR QUALITY: Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:				
a)	Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b)	Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d)	Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e)	Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IV.	BIOLOGICAL RESOURCES: 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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?	<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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e)	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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 type="checkbox"/>	<input checked="" type="checkbox"/>
V.	CULTURAL RESOURCES: Would the project:				
a)	Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	<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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c)	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d)	Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
VI.	GEOLOGY AND SOILS: 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii)	Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iii)	Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv)	Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b)	Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d)	Be located on expansive soil (Table 18-1-B of the Uniform Building Code), creating substantial risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VII.	GREENHOUSE GAS EMISSIONS: Would the project:				
a)	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b)	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing greenhouse gas emissions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
VIII.	HAZARDS AND HAZARDOUS MATERIALS: Would the project:				
a)	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 result in a safety hazard for people residing or working in the project area?	<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?	<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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
IX.	HYDROLOGY AND WATER QUALITY: Would the project:				
a)	Violate any water quality standards or waste discharge requirements?	<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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f)	Otherwise substantially degrade water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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?	<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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i)	Expose people or structures to a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
	significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?				
j)	Inundation by seiche, tsunami, or mudflow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
X.	LAND USE AND PLANNING: Would the project:				
a)	Physically divide an established community?	<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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c)	Conflict with any applicable habitat conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XI.	MINERAL RESOURCES: Would the project:				
a)	Result in the loss of availability of a known mineral resource of value to the region and the residents of the state?	<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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XII.	NOISE: 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b)	Generation of excessive groundborne vibration or groundborne noise levels?	<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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
d)	A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<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?	<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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XIII.	POPULATION AND HOUSING: 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)?	<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?	<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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XIV.	PUBLIC SERVICES:				
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:				
	Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
	Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XV.	RECREATION:				
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?	<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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XVI.	TRANSPORTATION/TRAFFIC: Would the project:				
a)	Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance a circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b)	Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
e)	Result in inadequate emergency access?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f)	Conflict with adopted policies, plans or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
XVII.	UTILITIES AND SERVICE SYSTEMS: Would the project:				
a)	Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<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?	<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?	<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?	<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?	<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?	<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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
XVIII.	MANDATORY FINDINGS OF SIGNIFICANCE				
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, substantially 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b)	Does the project 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 past projects, the effects of other current projects, and the effects of probable future projects)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4.0 Environmental Evaluation

The following evaluation provides responses to the questions in the Environmental Checklist. A brief explanation for each question in the Environmental Checklist is provided to adequately support each impact determination. All responses consider the whole of the action involved including construction and operational impacts as well as direct and indirect impacts. Environmental factors potentially affected by the proposed Project are presented below and organized according to the format of the Checklist.

4.1 Aesthetics

Would the project:

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

No Impact - No scenic vista is located within the vicinity of the proposed Project.

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

No Impact – Although the proposed Project is located within a landscaped area that includes trees, no trees will be removed. There are no other scenic resources within the project area. Thus, no impacts to scenic resources will occur as a result of this project.

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

No Impact – Demolition of the pump station and grout injection into the force main and gravity sewer lines would result in a temporary visual impact at the Project site due to the presence of heavy machinery and demolition activities. However, the level of activity is minor in scope and duration. Thus, demolition activity related to the proposed Project would not substantially degrade the existing visual character or quality of the site and its surroundings. Landscaping of the pump station site after demolition is completed will improve the visual quality of the site.

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

Less Than Significant Impact – Temporary construction activities would generally occur during daytime hours, but may occur during nighttime hours, which would require additional lighting. The proposed Project could temporarily create a new source of light and glare from the nighttime construction activities but it would be short in duration. Furthermore, light

would be directed downward on the pump station site and the grout injection sites along Yorba Linda Boulevard and Palm Avenue.

Mitigation Measures

The proposed Project would not result in a significant adverse impact to Aesthetics. Therefore, no mitigation measures are proposed.

4.2 Agricultural Resources

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 Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland.

- a-e) **No Impact** – The project site does not contain any farmlands, parcels encumbered under the Williamson Act, forested, or timberland production zones. Thus, no impacts to these resources would occur as a result of this Project.

Mitigation Measures

The proposed Project would not result in a significant adverse impact to Agricultural Resources. Therefore, no mitigation measures are proposed.

4.3 Air Quality

Criteria for determining the significance of air quality impacts are based on Federal, State, and Local air pollution standards and regulations. Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make significance determinations.

Significance Criteria

The proposed Project is located within the South Coast Air Basin (SCAB). Construction and operation activities associated with the proposed Project must be consistent with the Air Quality Management Plan (AQMP) that is managed by the South Coast Air Quality Management District (SCAQMD).

Thresholds of significance for allowable construction and operational air emissions have been established by the SCAQMD and are provided below.

Thresholds of Significance for Construction Emissions:

- 75 pounds per day of reactive organic compounds (ROC)
- 100 pounds per day of nitrogen oxides (NO_x)
- 550 pounds per day of carbon monoxide (CO)
- 150 pounds per day of particulate matter less than 10 microns in diameter (PM₁₀)
- 150 pounds per day of sulfur oxides (SO_x)

Projects in the South Coast Air Basin with construction-related emissions that exceed any of the emissions thresholds may be considered to have significant air quality impacts.

Thresholds of Significance for Operational Emissions:

- 55 pounds per day of ROC
- 55 pounds per day of NO_x
- 550 pounds per day of CO
- 150 pounds per day of PM₁₀
- 150 pounds per day of SO_x

Projects in the South Coast Air Basin with operation-related emissions that exceed any of the emissions thresholds may be considered to have significant air quality impacts.

Methodology

An air quality analysis was conducted using the SCAQMD air quality analysis model, CalEEMod Version 2013.2.2. In addition, emission factors were obtained from SCAQMD for years 2007 – 2026. The complete analysis is contained in Appendix A of this document.

Would the project:

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

No Impact - Deconstruction-related emissions primarily would be dust generated from excavation and grading, exhaust emissions from equipment, and motor vehicle emissions associated with deconstruction activities. Deconstruction of the proposed Project would not result in a significant air quality impact (see Table 4-1). Project deconstruction activities would not conflict with or obstruct implementation of the SCAQMD Air Quality Plan.

To evaluate potential deconstruction-related air quality impacts, anticipated deconstruction emissions were determined and compared to the thresholds of significance

for construction emissions listed above. Deconstruction emissions were evaluated based on projected 2007 data from SCAQMD (see Appendix A). Table 4-1 below summarizes the deconstruction emissions of criteria pollutants (NO_x, CO, PM₁₀, ROC, and SO_x) that would occur from the operation of construction vehicles for all phases of construction (deconstruction of pump station, abandonment of force main, and abandonment of gravity sewer lines). Emissions associated with deconstruction of the proposed Project would be below thresholds of significance for construction. Therefore, the deconstruction emissions impacts would be less than significant.

Table 4-1: Projected Deconstruction Emissions by Phase

Attribute	Emissions				
Criteria Pollutant	NO _x	CO	PM ₁₀	ROC	SO _x
Deconstruction of Pump Station					
Max Project, pounds per day (lb/day)	1.6816	0.2804	2.9438	0.0041	0.1259
SCAQMD Significance Threshold (lb/day)	100	550	150	75	150
Project Significance	No	No	No	No	No
Abandonment of Force Main					
Max Project, pounds per day (lb/day)	3.5801	0.5673	6.4023	0.0100	0.2300
SCAQMD Significance Threshold (lb/day)	100	550	150	75	150
Project Significance	No	No	No	No	No
Abandonment of Gravity Sewer Lines					
Max Project, pounds per day (lb/day)	0.5465	0.0597	0.8088	0.0020	0.0179
SCAQMD Significance Threshold (lb/day)	100	550	150	75	150
Project Significance	No	No	No	No	No

Source: Orange County Sanitation District 2006

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

Less Than Significant Impact – The proposed Project site is located within the South Coast Air Basin. The SCAQMD regulates stationary mobile air emission sources within

the South Coast Air Basin. Potential air quality impacts associated with the proposed Project could result from temporary deconstruction activities. As discussed in Section 4.3.a, the proposed Project is not anticipated to result in the exceedance of SCAQMD-established air quality standards during deconstruction.

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

Less Than Significant Impact – New emissions associated with the proposed Project would be limited to temporary construction activities. As described in Response 4.3.a above, the proposed Project would not result in the exceedance of SCAQMD-established air quality standards during deconstruction. For this reason, the proposed Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the South Coast Air Basin is in nonattainment.

- d) Expose sensitive receptors to substantial pollutant concentrations?

No Impact – Sensitive receptors include schools, hospitals and convalescent homes. Children, elderly people and the infirm are considered to be more sensitive than others to criteria air pollutants. Criteria air pollutants are those that are associated with numerous effects on human health. The proposed Project site is in the City of Fullerton and the surrounding area is mainly public land and commercial and professional businesses. As described in Response 4.3.b, above, temporary increased emissions of criteria air pollutants during deconstruction are not anticipated to exceed SCAQMD-established air quality standards. Because the proposed Project is not within a residential area and because of its low-level of emissions, the proposed Project is not anticipated to have any impacts on sensitive receptors during deconstruction.

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

Less Than Significant Impact – Project activities may create a small amount of objectionable odors during deconstruction from exhaust emissions from the operation of heavy machinery. However, the amount of odor from machinery exhaust is anticipated to be minor. Therefore, the proposed Project would have a less than significant impact associated with the creation of objectionable odors affecting a substantial number of people.

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Air Quality. No mitigation measures are proposed.

4.4 Biological Resources

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 Wildlife or U.S. Fish and Wildlife Service?

No Impact – The proposed Project site is located in an area zoned Public Land, General Commercial, and Residential and is located within a developed urban area north of the California State University Fullerton campus. It does not support native habitat of any identified species. No impacts to any species are anticipated.

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

No Impact – The proposed Project site is located in an area zoned Public Land, General Commercial, and Residential and is located within a developed urban area north of the California State University Fullerton campus. It does not support any riparian habitat or other sensitive natural communities identified in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or US Fish and Wildlife Service. No impact to these resources is anticipated.

- 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?

No Impact – The proposed Project site is located in an area zoned Public Land, General Commercial, and Residential and is located within a developed urban area north of the California State University Fullerton campus . It does not contain any federally protected wetlands nor is it located near any federally protected wetlands. No federally protected wetlands would be affected.

- 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?

No Impact – The proposed Project site is located in an area zoned Public Land, General Commercial, and Residential and is located within a developed urban area north of the California State University Fullerton campus. It does not support native habitat or any migratory fish or wildlife species. Furthermore, the proposed project site is not located

within a migratory wildlife corridor or native wildlife nursery site. No impacts to these resources are anticipated as a result of the proposed Project.

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

No Impact – No local policies or ordinances have been enacted to protect biological resources for the area surrounding the proposed Project site. No impact with any local policies or ordinances protecting biological resources would occur.

- 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?

No Impact – The proposed Project is outside of the Coyote Hills (East and West) Habitat Conservation Plan. The proposed Project would not conflict with the provisions of an adopted Habitat Conservation Plan; Natural Community Conservation Plan; or other approved local, regional, or state habitat conservation plan.

Mitigation Measures

The proposed Project would not result in a significant adverse impact to Biological Resources. No mitigation measures are proposed.

4.5 Cultural Resources

Would the project:

- a) Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?

No Impact – Results from a 2014 record search conducted at the California Historical Resources Information System (CHRIS), South Central Coastal Information Center (SCCIC) at California State University, Fullerton, indicated that the proposed Project site does not contain any cultural resources within the Area of Potential Effects (APE). Construction and operation of the proposed Project would have no impacts on historic resources as defined in Section 15064.5.

Four cultural resources, all historic structures, have been identified within the ½ mile search radius of the proposed Project site (indirect APE). None of these resources would be affected by the proposed Project. In addition, 15 cultural resource studies have been conducted within the ½ mile search radius, as identified in the Table 4-2.

Table 4-2: Historic Resources within Direct and Indirect Area of Potential Effects

Site Number or Report Number	Resources Identified	Within Direct Area of Potential Effects?	Within Indirect Area of Potential Effects?	Impacts to Cultural Resources?
Site P-30-157295	Historic Structure - 1931 Mahr House	No	Yes	None
Site P-30-157296	Historic Structure - 1886 Henry T. Hetebrink House	No	Yes	None
Site P-30-157297	Historic Structure - 1895 Dr. George C. Clark Home	No	Yes	None
Site P-30-177446	Historic Structure - 1964 Pollak Library	No	Yes	None
Report OR-00474	1977 Survey, 945 acres, remains of historic town of Olinda, no archaeological resources	No	Yes	None
Report OR-00678	1975 Survey, 50 acres, California State University, Fullerton, no resources	No	Yes	None
Report OR-00985	1989 Survey, 375 acres, historic building foundation, no other resources	No	Yes	None
Report OR-02256	1999 Survey, 340 square mile area; numerous resources, none in the project vicinity	No	Yes	None
Report OR-02280	2000 Survey, less than 1 acre; no resources	No	Yes	None
Report OR-02795	2002 Survey, less than 1 acre, no resources	No	Yes	None
Report OR-02799	2002 Survey, less than 1 acre, no resources	No	Yes	None
Report OR-02808	2002 Survey, less than 1 acre, no resources	No	Yes	None
Report OR-03393	2006 Survey, less than 1 acre, no resources	No	Yes	None
Report OR-03733	1999 Survey, less than 1 acre, no resources	No	Yes	None
Report OR-03822	2006 Survey, State Route 57, resources identified	No	Yes	None
Report OR-0460	2009 Survey, less than 1 acre, 3 historic resources	No	Yes	None
Report OR-04104	2002 Regional Survey, City of Placentia, resources identified	No	Yes	None
Report OR-04284	2012 Survey, 1964 Pollak Library, California State University, Fullerton	No	Yes	None
Report OR-04342	1990 Survey, 375 acres, no resources identified	No	Yes	None

Source: California Office of Historic Preservation. 2014

- b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

No Impact – The proposed Project site is located on developed land and contains a pump station. As such, the proposed Project would affect areas that already have been disturbed and would not involve any excavation into undeveloped lands. Therefore, the proposed Project would not affect archeological resources and would not cause a substantial adverse change in the significance of an archeological resource pursuant to Section 15064.5.

- c) Directly or indirectly destroy a unique paleontological resource on site or unique geologic feature?

No Impact – The proposed Project site is located on developed land and contains a pump station. As such, the proposed Project would affect areas that already have been disturbed and would not involve any excavation into undeveloped lands. Therefore, the proposed Project would not directly or indirectly destroy a unique paleontological resource on site or unique geologic feature.

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

No Impact – The proposed Project site is located on developed land and would affect areas that have already been disturbed. As such, the proposed Project would not involve any excavation into undeveloped lands. Therefore, the proposed Project would not result in a significant adverse impact related to the disturbance of human remains.

Mitigation Measures

The proposed Project would not result in a significant adverse impact to Cultural Resources. No mitigation measures are proposed.

4.6 Geology and Soils

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?

No Impact – Surface fault rupture is the offset or rupture of the ground surface by relative displacement across a fault during a seismic event or earthquake. The 2007 edition of Special Publication 42 (California Department of Conservation, Division of Mines and Geology), shows that the proposed Project is not located in an Alquist-Priolo Special Study Zone. Demolition of the pump station and abandonment of the gravity sewer lines and force main would not expose people or structures to potential substantial adverse effects from the rupture of a known earthquake fault.

- ii. Strong seismic ground shaking?

No Impact – The proposed Project site is located in a seismically active area, as is the majority of southern California, and the potential exists for strong ground motion. The closest fault to the proposed Project site is the Whittier fault, which is located approximately 3 miles north of the Project site. Demolition of the pump station and abandonment of the gravity sewer lines and force main would not expose people or structures to potential substantial adverse effects from strong seismic ground shaking.

- iii. Seismic-related ground failure, including liquefaction?

No Impact - The potential for seismic-related ground failure is associated with the probability of severe ground shaking as a result of an earthquake or a nearby active fault. Liquefaction is the phenomenon that occurs when saturated granular soils develop high pore water pressures during seismic shaking and behave like a heavy fluid. This phenomenon generally occurs in areas of high seismicity where groundwater is shallow and loose granular soils or hydraulic fill soils subject to liquefaction are present. For liquefaction to develop, loose granular sediments below the groundwater table must be present; and shaking of sufficient magnitude and duration must occur.

The proposed Project is located in an area mapped as a liquefaction zone according to the maps of seismic hazard zones prepared by the California Department of Conservation, Division of Mines and Geology. However, demolition of the pump station and abandonment of the gravity sewer lines and force main would not expose people or structures to potential substantial adverse effects from liquefaction.

- iv. Landslides?

No Impact – The proposed Project is not located in an area of probable landslides. Demolition of the pump station and abandonment of the gravity sewer

lines and force main would not expose people or structures to potential substantial adverse effects from landslides.

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

No Impact – The proposed Project area includes a paved pump station and paved roadways. Demolition of the proposed Project and abandonment in place of force main and gravity sewer lines require an estimated total of 484 cubic yards. Abandonment of the force main would require an estimated total of 83 cubic yards¹ of soil. Demolition of the pump station is expected to generate an estimated total of 246 cubic yards² of soil. And removal of the gravity sewer lines is expected to generate an estimated total of 155 cubic yards³ of soil. Excavated soil not replaced as fill would be disposed at a properly permitted facility in accordance with federal and state laws. Because the proposed Project site is contained and the amount of excavation is relatively small, the proposed Project is not anticipated to result in impacts related to substantial soil erosion or loss of topsoil.

- 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?

No Impact – Evaluation of liquefaction and landslides is provided in Responses 4.6.a.iii and iv, above. No impacts due to an unstable geologic unit or soil, including onsite or offsite landslide, lateral spreading, subsidence, liquefaction, or collapse are anticipated.

- 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?

No Impact – Demolition of the pump station and abandonment of the gravity sewer lines and force main would not expose people or structures to potential substantial adverse effects from expansive soils.

- 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?

¹ Excavation volume of soil associated with the 15 grout injection sites along the force main was calculated by the following: (5 feet [width] X 5 feet [height] X 6 feet [depth] X 15 [sites])= 2,250 cubic feet [83 cubic yards]

² Excavation volume of soil associated with the pump station removal was calculated by the following: (196 feet [pump station perimeter] X 34 [depth] feet X 1 feet [width] = 6,664 cubic feet [246 cubic yards])

³ Excavation volume of soil associated with the gravity sewer lines removal was calculated by the following: (140 feet + 90 feet [length of sewer lines] X 6 [depth] feet X 3 feet [width] = 4,140 cubic feet [155 cubic yards])

No Impact – No septic tanks or alternative wastewater disposal systems would serve the proposed Project. The proposed Project would not result in impacts related to septic tanks or alternative wastewater disposal systems.

Mitigation Measures

The proposed Project would not result in a significant adverse impact to Geology and Soils. No mitigation measures are proposed.

4.7 Greenhouse gas Emissions

Would the project:

- a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less Than Significant – Emissions from demolition and abandonment activities would be short-term and within the SCAQMD’s draft thresholds (see Table 4-3 and Table 4-4 below) and would not create a significant increase in GHG emissions. Therefore, the proposed project’s impacts on greenhouse-gas emissions would be less than significant.

Table 4-3: On-Road Greenhouse Gas Emissions

Source	Emissions Factor	Parameters			CO ₂ Emissions (lbs/day)	CO ₂ Emissions (metric tons/year)	CO ₂ Emissions Threshold (metric tons/year)
		Number of Vehicles	Total Number of Trips	Distance Traveled per Trip			
Construction Workers Commuting	1.1067	16	32	20	708.288	117.3421	
Light-duty Trucks Onsite	2.7225	5	5	5	68.0625	11.27591	
Daily Delivery Trucks	2.7225	1	3	20	253.308	41.96554	
Dump Trucks	4.2218	1	7	10	295.526	48.95979	
Total					1325.185	219.5433	10,000

Table 4-4: Off-Road Greenhouse Gas Emissions

Equipment Type	Number	Hour/Day Operation	Horse power	CO ₂ Emission Factors (lbs/hr)	CO ₂ Emission (lbs/day)	CO ₂ Emission (metric tons/year)	CO ₂ Emission Threshold (metric tons/year)
Pump Station							
Concrete Saw	1	4	81	74.1	296.4	49.10459	--
Concrete Breaker	1	4	81	74.1	296.4	49.10459	--
Dump Truck	1	8	16	7.6	60.8	10.07274	--
Dump Truck	1	6	16	7.6	45.6	7.554552	--
Dump Truck	1	4	16	7.6	30.4	5.036368	--
Excavator	2	6	162	112	672	111.3302	--
Off-Highway (pick-up trucks)	8	6	400	272	1632	270.3734	--
Off-Highway (water truck)	1	4	400	272	1088	180.249	--
Front End Loader	1	8	97	51.7	413.6	68.52111	--
Total					4535.2	751.3466	10,000
Force Main							
Concrete Saw	1	4	120	74.1	296.4	49.10459	
Concrete Truck	1	4	500	272	1088	180.249	
Dump Truck	1	6	25	7.6	45.6	7.554552	
Excavator	1	6	175	112	672	111.3302	
Off-Highway (asphalt truck)	1	6	500	272	1632	270.3734	
Off-Highway (pick-up trucks)	12	6	500	272	1632	270.3734	
Roller	1	6	120	59	354	58.64718	
Front End Loader	1	6	120	51.7	310.2	51.39083	
Total					6030.2	999.0232	10,000

Equipment Type	Number	Hour/Day Operation	Horse power	CO ₂ Emission Factors (lbs/hr)	CO ₂ Emission (lbs/day)	CO ₂ Emission (metric tons/year)	CO ₂ Emission Threshold (metric tons/year)
Gravity Sewer							
Off-Highway (concrete pump trucks)	1	6	400	272	1632	270.3734	
Off-Highway (pick-up trucks)	4	6	400	272	1632	270.3734	
Total					3264	540.7469	10,000

- b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

No Impact – The Sanitation District does not have any specific plans, policies, nor regulations adopted for reducing the emissions of GHGs. SCAQMD has several programs available for reducing GHG emissions, including the Green Policy, approved in 2009. The Climate Change Policy was enacted for the purpose of assisting businesses and local government agencies with reducing carbon emissions, while the Green Policy guides SCAQMD decisions relative to reducing its own carbon emissions. The SCAQMD has adopted interim GHG significance thresholds of 10,000 metric tons per year for CO₂ equivalent. As shown in Tables 1 and 2 above, project GHG emissions would not exceed this threshold. Therefore, the proposed project would not conflict with any applicable plan, policy, or regulation adopted for reducing the emissions of greenhouse gases.

Mitigation Measures

The proposed Project would not result in a significant adverse impact to GHGs. No mitigation measures are proposed.

4.8 Hazards and Hazardous Materials

Would the project:

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

Less Than Significant with Mitigation –The proposed Project could generate hazardous materials through the demolition of the pump station, which may contain asbestos, lead paint, or polychlorinated biphenyls. Therefore, the proposed Project would require the implementation of mitigation measures (HAZ 1-9) to ensure that any potential impacts from removal of asbestos, lead paint, or polychlorinated biphenyls are less than significant.

- 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?

Less Than Significant with Mitigation – The proposed Project could require the removal of hazardous materials associated with the pump station. Therefore, the proposed Project could 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 by the removal of materials containing asbestos, lead paint, or polychlorinated biphenyls. Therefore, the proposed Project would require the implementation of mitigation measures (HAZ 1–9) to ensure that any potential impacts from the asbestos removal are less than significant.

In addition, there are two sites that pose a risk to the project:

- **Target Store T-293** – This facility is located at 2978 Yorba Linda Boulevard and is listed in the leaking underground storage tank (LUST) and historic Cortese databases. A violation was reported for this site and on-going remedial activities and investigation are being performed. Since a portion of this site currently needs to be investigated and contamination could still exist on site, this site poses a risk to the Project and would require implementation of mitigation measures (HAZ 1–9) to ensure that any potential impacts are less than significant.
- **Shell Station** – This facility is located at 2960 Yorba Linda Boulevard and is listed in the LUST and historic Cortese databases. A violation was reported for this site and on-going remedial activities are being performed. Therefore, this site poses a risk to the Project and would require implementation of mitigation measures (HAZ 1–9) to ensure that any potential impacts are less than significant.

Remedial activities may be required to ensure any potential impacts are less than significant. Although remedial activities have been conducted on the following sites and no further action has been granted, proposed activities would be conducted adjacent to these facilities that are registered as having underground storage tanks. The location of the tanks should be determined on these sites before commencement of demolition activities.

- **Tosco #5722 (Currently Service Station 76)** – This facility is located at 3001 Yorba Linda Boulevard and is listed in the LUST and historic Cortese databases. A violation was reported for this site and no further action was granted in 1991.
 - **Texaco (Currently Arco Station)** – This facility is located at 3370 Yorba Linda Boulevard and is listed in the LUST and historic Cortese databases. A violation was reported for this site and remedial activities were performed. In 2000, no further action was granted for this site.
 - **Exxon (Currently Shell Station)** – This facility is located at 3000 Yorba Linda Boulevard and is listed in the LUST and historic Cortese databases. A violation was reported for this site and soil vapor extraction was performed. In 2002, no further action was granted for this site.
 - **Chevron #9-8976** – This facility is located at 2961 Yorba Linda Boulevard and is listed in the LUST and historic Cortese databases. A violation was reported for this site and remedial activities were performed. In 1992, no further action was granted for this site.
- c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less Than Significant with Mitigation –The pump station is located on the campus of California State University Fullerton. Therefore, the proposed Project would require the implementation of mitigation measures (HAZ 1–9) to ensure that any potential impacts from the handling of hazardous materials are less than significant.

- 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?

Less Than Significant with Mitigation – Refer to Response 4.8.b, above, which addresses impacts hazardous materials sites included in the Cortese List. The proposed Project is not anticipated to create a significant hazard to the public or the environment.

- 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?

No Impact – The proposed Project would not be located within two miles of a public airport. The nearest airport is the Fullerton Municipal Airport, which is located approximately five miles east of the project area. The proposed Project would not result in a safety hazard to people residing or working in the Project area.

- 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?

No Impact – The proposed Project would not be located within the vicinity of a private airport. The proposed Project would not result in a safety hazard related to a private airstrip to people residing or working in the Project area.

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

Less Than Significant with Mitigation – Demolition activities associated with abandonment of the force main and gravity sewers may create traffic delays along Yorba Linda Boulevard and Palm Drive. However, implementation of the Transportation/Traffic mitigation measures TT 1–7 (see Transportation/Traffic 4.16) would ensure that the Project would not interfere with any emergency response or evacuation plans.

- 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?

No Impact – The proposed Project is not located near wildland areas or areas where wildlands are adjacent to urbanized areas. The proposed Project is not anticipated to have an adverse impact related to the exposure of people or structures to a significant risk of loss, injury, or death involving wildland fires.

Mitigation Measures

The following avoidance and minimization measures will reduce potential impacts related to hazardous wastes and materials during construction of the project.

HAZ-1 Asbestos, lead-based paint, and polychlorinated biphenyl surveys for any structures that would be demolished as part of the project shall be conducted during the Plans, Specifications, and Estimates phase of the project by a certified consultant.

HAZ-2 If analytical results indicate building materials contain asbestos, the contractor shall prepare an Asbestos Operations and Maintenance Plan in accordance with applicable regulations. The plan will address worker training and safety measures to be taken when disturbing asbestos-containing materials during abatement activities.

- HAZ-3 The contractor shall ensure that proper removal and disposal of asbestos-containing material is conducted by a licensed contractor registered with the California Occupational Safety and Health Administration for asbestos-related work, or by a licensed and certified asbestos abatement contractor
- HAZ-4 If the analytical results indicate that lead-based paint is present, the contractor shall ensure that demolition materials are handled and disposed of in accordance with applicable regulations.
- HAZ-5 Prior to construction, the contractor shall prepare a Materials Management Plan that identifies potential recognized environmental conditions, locations, extent of impact, proposed remediation work, waste management procedures, avoidance measures, investigation measures, and a contingency plan for addressing unforeseen conditions. Documentation of completed waste profiles, manifest forms, and bill-of-lading forms for proper transportation and disposal of materials off-site will be maintained by the contractor. The plan shall include the following provisions:
- Characterization and handling of contaminated soils requiring off-site disposal,
 - Soils to be stockpiled for further characterization,
 - Process for identifying soils with waste concentrations below regulatory thresholds that can be reused without restriction,
 - Process for identifying and handling wastewater requiring off-site disposal and/or treatment, and
 - Procedures for handling asbestos-containing material potentially discovered during construction activities.
- HAZ-6 Prior to initiating demolition and abandonment activities, the contractor shall prepare a site-specific Health and Safety Plan that identifies key personnel and provides a summary risk assessment for workers, the community, and the environment. The Health and Safety Plan shall include an Air Monitoring Plan and Emergency Response Plan.
- HAZ-7 Prior to construction, the contractor shall prepare a Spill Prevention Control and Counter Measures Plan to ensure that construction best management practices are adequate for site conditions and to prevent discharge of any sediment or pollutants into any storm drains, and receiving waters.

HAZ-8 Before construction, the contractor shall notify all utility companies to ensure that the locations of underground transmission lines and facilities are marked. In addition, Underground Service Alert shall be contacted at least two working days before subsurface excavation.

HAZ-9 The contractor shall adhere to the requirements of SCAQMD during all construction activities.

4.9 Hydrology and Water Quality

Would the project:

- a) Violate any water quality standards or waste discharge requirements?

Less Than Significant Impact – Excavation would occur during demolition of the pump station and injection of grout into the force main and gravity sewer lines. No excavation is anticipated for the abandonment of the gravity sewer lines, located in the public right of way. All excavation associated with the pump station demolition would occur within the enclosed proposed Project site, thereby preventing erosion and sedimentation associated with stormwater. Minor excavation associated with the grout injection would occur at an estimated 15 locations along the force main. However, because the amount of excavated material at each location would be small (i.e., 5.6 cubic yards⁴), any potential impacts to water quality would be minor and insignificant. Additionally, groundwater is not anticipated to be encountered. In the event that groundwater is encountered during excavation, dewatering would occur; and the extracted water would be discharged to the sanitary sewer, which is part of the Sanitation District collection system, and would not affect water quality.

Equipment staging would occur on the pump station site and along Yorba Linda Boulevard and Palm Drive. Any residual oil, grease, and other fuel products from equipment on the pump station site would be contained and would not affect surface waters. Likewise, any oil, grease, or other fuel products from construction vehicles associated with the abandonment of the force main would be contained through the implementation of BMPs. Equipment would be inspected to prevent leaks and would be maintained as part of customary construction practices. Therefore, any residual oil, grease, and other fuel products from equipment would be negligible and would not affect surface or groundwater.

⁴ Total volume of excavated material determined by the following calculation: (5 feet X 5 feet X 6 feet=150 cubic feet [5.6 cubic yards])

Because of the size of the proposed Project would disturb less than one acre of soil (0.30 acre⁵) a General Construction Stormwater National Pollutant Discharge Elimination System (NPDES) Permit and Stormwater Pollution Prevention Plan would not be required. However, the Sanitation District requires that a Stormwater Pollution Control Plan be developed for any construction site not covered by the General Construction Stormwater NPDES Permit. The Stormwater Pollution Control Plan addresses the implementation of best management practices (BMPs) for construction sites when a formal Stormwater Pollution Prevention Plan is not required. Additionally, construction activities would comply with the requirements of the applicable County of Orange Drainage Area Management Plan for public works construction projects, which includes details for management of stormwater throughout Orange County and compliance with the individual NPDES permit that regulates the municipal separate storm sewer system. All public works construction contracts are governed by "Standard Specifications for Public Works Construction". Section 7 of these standard specifications imposes specific construction practices, which are included within Drainage Area Management Plan's Appendix H as structural and nonstructural BMPs for public works construction. In general, the standard specifications require the Contractor to keep informed of, observe, and comply with state and federal laws and county and municipal ordinances and regulations.

- 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)?

No Impact – Demolition of the pump station or abandonment of the gravity sewer lines and force main would not result in a depletion of groundwater supplies and demolition of the proposed Project would not interfere with groundwater recharge. The proposed Project would not result in a significant adverse impact related to groundwater supply or recharge.

- 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?

No Impact – No natural surface bodies of water, including streams, or other bodies of water, are present on the proposed Project site. Furthermore, the proposed Project would

⁵ The total area of disturbance was determined by calculating the area of disturbance for each project component.
1) Pump station [100 feet X 130 feet = 13,000 square feet (0.29 acre)].
2) Force main abandonment [5 feet X 5 feet X 15 locations= 375 square feet (<0.01 acre)]

not substantially alter the existing drainage pattern of the site or area. Therefore, the proposed Project is not anticipated to alter the existing drainage pattern of the site and would not result in substantial erosion or siltation onsite or offsite.

- 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-site or off-site?

No Impact – The proposed Project would not substantially alter the existing drainage pattern of the site or area. Therefore, the proposed Project would not alter the course of a stream or river and would not cause a substantial increase in the volume of runoff that would result in flooding on-site or off-site.

- 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?

No Impact – The proposed Project would not create or contribute to runoff water that would exceed the capacity of existing or planned stormwater drainage systems. Construction activities would include the implementation of BMPs to control erosion and sedimentation of excavated soil from stormwater runoff. This would prevent erosion and sedimentation associated with stormwater from affecting surface waters. The proposed Project is not anticipated to result in a significant adverse impact related to polluted runoff or on the capacity of stormwater drainage systems.

- f) Otherwise substantially degrade water quality?

No Impact – Refer to Response 4.9.a), above, which addresses impacts to water quality. The proposed Project is not anticipated to substantially degrade water quality.

- 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?

No Impact – No housing development associated with the proposed Project would be within a 100-year flood hazard area.

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

No Impact – The proposed Project would demolish and remove an existing pump station and associated below grade structures including a force main and gravity sewer lines. Additionally, it would not include structures that would impede or redirect flood flows. Therefore, no impacts would be associated with the placement of structures that would 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?

No Impact – No levee or dam is within the vicinity of the proposed Project. Therefore, no impacts would be associated with risk of loss, injury, or death involving flooding as a result of the failure of a levee or dam.

- j) Inundation by seiche, tsunami, or mudflow?

No Impact – Based on the location of the proposed Project site, the site is not likely to be inundated by a seiche, tsunami, or mudflow.

Mitigation Measures

The proposed Project would not result in significant adverse impacts to Hydrology and Water Quality. Therefore, no mitigation measures are proposed.

4.10 Land Use and Planning

Would the project:

- a) Physically divide an established community?

No Impact – The proposed Project would occur on the California State University Fullerton campus and along Yorba Linda Boulevard and Palm Drive. The removal of the pump station and ancillary equipment and abandonment in place of below grade force main and sewer lines would not physically divide an established community.

- 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?

No Impact – The proposed Project would not change existing land uses and would not conflict with existing general plan designations or zoning ordinances. Therefore, the proposed Project would not conflict with any applicable land use plan, policy, or regulation.

- c) Conflict with any applicable habitat conservation plan or natural community conservation plan?

No Impact – The proposed Project is not within an adopted habitat conservation plan or natural community conservation plan area. The proposed Project would not conflict with any applicable habitat conservation plan or natural community conservation plan.

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Land Use and Planning. Therefore, no mitigation measures are proposed.

4.11 Mineral Resources

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?

No Impact – The proposed Project would not use mineral resources and would not affect the availability of any known mineral resources. The proposed Project would not 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.

- 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?

No Impact – The proposed Project site is not located in a delineated mineral resource area. The proposed Project would not result in the loss of availability of a locally important mineral resource recovery site.

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Mineral Resources. Therefore, no mitigation measures are proposed.

4.12 Noise

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?

Less Than Significant Impact – Noise generated from equipment used during demolition of the pump station and abandonment of the gravity sewer lines and force main would be the primary source of noise associated with the proposed Project. Demolition would occur during permitted hours identified in the City of Fullerton Building Code, and demolition activities would comply with the City of Fullerton Noise Ordinance. Noise created by construction activities is exempt from the noise ordinance during the hours of 7 a.m. to 8 p.m. Monday through Saturday. Noise levels on Sundays

and federal holidays must conform to the City's noise standards (measured from the interior of a residence: 55 db during the hours of 7 a.m. to 10 p.m. and 45 db 10 p.m. to 7 a.m.). No construction activities would occur outside these hours or on federal holidays unless a temporary waiver is granted by an authorized representative. These same limitations would be extended to the trucks, vehicles, and equipment that are involved with material deliveries, loading, or transfer of materials, equipment service, and maintenance.

Noise measurements were conducted for the Collegetown Specific Plan Environmental Impact Report. Noise measurements were recorded to quantify the ambient background noise. A noise measurement was collected adjacent to Yorba Linda Boulevard and east of State College Boulevard. The results from the previous noise analysis concluded that ambient noise levels (approximately 73 decibels (A-weighted)) are higher than the allowable noise levels specified in the noise ordinance for the City of Fullerton primarily due to heavy traffic along Yorba Linda Boulevard.

The proposed Project would not result in the exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, and impacts would be less than significant.

- b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?

No Impact – Demolition activities associated with removal of the pump station and abandonment of the gravity sewer lines and force main would not require the substantial duration or amount of activities commonly known to produce excessive groundborne vibration or noise (e.g., pile driving). The proposed Project would not result in the exposure of persons to or generation of excessive groundborne vibrations or groundborne noise levels, and impacts would be less than significant.

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

No Impact – A substantial permanent increase in ambient noise levels would not occur because the facility will be removed.

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

Less Than Significant Impact – Refer to Response 4.12.a. above.

- 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?

No Impact – The proposed Project is not located within an airport land use plan or within two miles of a public airport. The proposed Project would remove an existing pump station and abandon two gravity sewer lines and a force main and is not anticipated to have any effect associated with an airport on people residing or working in the Project area. Therefore, the proposed Project would not result in the exposure of people residing or working in the Project area to excessive noise levels.

- 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?

No Impact – The proposed Project would not be located within the vicinity of a private airstrip. Therefore, the proposed Project would not expose people residing or working in the Project area to excessive noise levels.

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Noise. No mitigation measures are proposed.

4.13 Population and Housing

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)?

No Impact – The proposed Project would deconstruct a pump station and abandon two gravity sewer lines and a force main. It would not directly or indirectly induce substantial population growth in the area. Therefore, the proposed Project would not result in an impact related to inducing population growth.

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

No Impact – The proposed Project would have no impact associated with displacing existing housing or necessitating the construction of replacement housing.

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

No Impact – The proposed Project would have no impact associated with displacing people or necessitating the construction of replacement housing.

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Population and Housing. Therefore, no mitigation measures are proposed.

4.14 Public Services

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:

- Fire protection?
- Police protection?
- Schools?
- Parks?
- Other public facilities?

No Impact – The proposed Project would not result in an adverse impact or additional need for fire protection, police protection, schools, parks, or other public facilities. Also, refer to Response 4.16.e).

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Public Services. Therefore, no mitigation measures are proposed.

4.15 Recreation

- 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?

No Impact – The proposed Project would not increase the use of parks or other recreational facilities such that substantial physical deterioration of the facility would occur or would be accelerated. The proposed Project would have no impact on the use of existing neighborhood and regional parks or other recreational facilities.

- 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?

No Impact – The proposed Project does not include recreational facilities, and would not require the construction or expansion of recreational facilities. The proposed Project would not have an adverse physical effect on the environment related to recreational facilities.

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Recreation. Therefore, no mitigation measures are proposed.

4.16 Transportation/Traffic

Would the project:

- a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?

Less Than Significant Impact with Mitigation– The proposed Project site is located along Yorba Linda Boulevard and Palm Drive. Vehicles entering and exiting the pump station site during demolition would use Yorba Linda Boulevard. A small increase in traffic at the Yorba Linda Boulevard/Campus Drive (Associated Road) intersection could result during demolition of the pump station from the transport of workers or materials to and from the site. However, any increases in traffic associated with the pump station demolition are anticipated to be negligible. Work along Yorba Linda Boulevard and Palm Drive associated with the abandonment of the gravity sewer lines and force main would require the closure of one lane of traffic along Yorba Linda Boulevard and Palm Drive during construction. However, both streets would remain open at all times. Traffic control would allow vehicle traffic to continue during construction and could include flagmen and/or signs to direct traffic. During hours when construction does not occur, all lanes of traffic would be open along Yorba Linda Boulevard and Palm Drive. Nighttime construction may occur, when needed to reduce any impacts to traffic along Yorba Linda Boulevard and Palm Drive. The proposed Project is not anticipated to result in an adverse impact related to traffic with the implementation of Transportation/Traffic mitigation measures (TT 1–7), including the preparation of a traffic control plan.

- b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?

No Impact – The minimal increase in traffic along Yorba Linda Boulevard and Palm Drive during demolition and removal of the pump station is not expected to result in change to the existing level of service.

- 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?

No Impact – The proposed Project would have no impact on air traffic patterns.

- d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

No Impact – The proposed Project would not increase hazards due to design features or incompatible uses.

- e) Result in inadequate emergency access?

Less Than Significant with Mitigation – Adequate emergency access will be maintained throughout the duration of the project construction. Although, the proposed Project could cause traffic delays in the project area, which could delay emergency services, the implementation of Transportation/Traffic mitigation measures (TT 1–7) would ensure that any potential impacts to emergency access would be less than significant. Therefore, the proposed Project is not anticipated to result in a significant adverse impact related to emergency access.

- f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

Less than Significant With Mitigation – The proposed Project may impact the Orange County Transportation Authority bus route along Yorba Linda Boulevard, but access to the transit system will be maintained at all times. Impacts may include the temporary relocation of the Yorba Linda-Campus and Yorba Linda-Deerpark stops and delays due to traffic. However, the implementation of Transportation/Traffic mitigation measures (TT-1 through TT-7) would ensure that any potential impacts to the transit system would be less than significant.

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Transportation/Traffic. Therefore, no mitigation measures are proposed.

- TT-1 Traffic control plans will be prepared by a qualified professional engineer as required prior to construction of the Project.
- TT-2 Traffic control plans will consider the ability of alternative routes to carry additional traffic and will identify the least disruptive hours of construction, site truck access routes, and the type and location of warning signs, lights, and other traffic control devices. Consideration will be given to maintaining access to commercial parking lots and sidewalks to the greatest extent feasible.
- TT-3 Traffic control plans will comply with the Work Area Traffic Control Handbook and/or the Manual on Uniform Traffic Control Devices, as determined by each affected local agency, to minimize any traffic and pedestrian hazards that exist during project construction.
- TT-4 Public roadways will be restored to their pre-existing condition after project construction is completed.
- TT-5 The Sanitation District will attempt to schedule construction of relief facilities to occur jointly with other public works projects already planned in the affected locations, through careful coordination with all local agencies involved.
- TT-6 Emergency service purveyors will be contacted and consulted to preclude the creation of unnecessary traffic bottlenecks that will seriously impede response times. Additionally, measures to provide an adequate level of access to private properties will be maintained to allow delivery of emergency services.
- TT-7 Orange County Transportation Authority will be contacted when construction affects roadways that are part of the OCTA bus transit network. Adequate procedures will be implemented to keep bus routes and station accessible to users.

4.17 Utilities and Service Systems

Would the project:

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

No Impact – The proposed Project would remove the existing Yorba Linda Pump Station and abandon two gravity sewer lines at the Yorba Linda Boulevard/Campus Drive

intersection and a force main along Yorba Linda Boulevard and Palm Drive. It would not exceed the existing wastewater treatment requirements of the Regional Water Quality Control Board.

- 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?

No Impact –The proposed Project would not require or result in the construction of new water or wastewater treatment facilities or in the expansion of existing facilities. However, this project requires the reconstruction of the Newhope-Placentia Trunk to increase the size of the sewer from 18 inches to 30 inches to accommodate projected flows from planned developments in the surrounding area. The Newhope-Placentia Trunk Replacement project is included in the Sanitation District’s 2007 Collection System Improvement Plan Programmatic Environmental Impact Report.

- 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?

No Impact – No new stormwater drainage facilities or expansion of existing facilities would result or be required as part of the proposed Project.

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

No Impact – The proposed Project would not require the provision of new water supplies. Water entitlements and resources would not be impacted by the proposed Project.

- 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?

No Impact –The proposed Project would not have a significant effect on the wastewater treatment capacity of the Sanitation District.

- f) Be served by a landfill with sufficient permitted capacity to accommodate the project’s solid waste disposal needs?

No Impact – Debris or solid waste generated during demolition of the pump station and abandonment of the gravity sewer lines and force main would be transported to an

approved solid waste disposal facility. Based on the anticipated quantity of solid waste material (estimated to be 700 cubic yards⁶), the proposed Project is not expected to affect the capacity of existing landfills. The proposed Project would not generate solid waste following completion of the proposed Project.

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

No Impact – Solid waste produced by the proposed Project would be disposed at a properly permitted facility in accordance with federal and state laws.

Mitigation Measures

The proposed Project would not result in a significant adverse impact related to Utilities and Service Systems. Therefore, no mitigation measures are necessary.

4.18 Mandatory Findings of Significance

- 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?

No Impact – The proposed Project is located in a developed area. The proposed Project would not result in a significant adverse impact on the environment including biological and cultural resources, nor would the proposed Project eliminate important examples of major periods of California history or prehistory.

- b) Does the project 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 past projects, the effects of other current projects, and the effects of probable future projects)?

No Impact – The proposed Project would not result in any significant adverse cumulative impacts.

- c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

⁶ Volume of debris estimated by the following: (33 feet [width] X 65 feet [height] X 34 feet [depth] X 0.10 [density factor]) = 270 cubic yards (rounded to 300 cubic yards)

Less Than Significant with Mitigation – The proposed Project could have environmental effects that would cause substantial adverse effects on human beings, either directly or indirectly. However, these impacts would be reduced to a less than significant level with the implementation of mitigation measures, previously described in Chapter 4.

5.0 Preparers and Contributors

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Appendix A

Deconstruction Emission Calculations

EMISSIONS FROM THE YORBA LINDA PUMP STATION ABANDONMENT PROJECT

Maximum Daily Deconstruction Emissions for the Pump Station

Attribute	Emissions						
Phase	CO (lb/day)	ROG (lb/day)	NO _x (lb/day)	SO _x (lb/day)	Combustion PM ₁₀ (lb/day)	Fugitive PM ₁₀ (lb/day)	Total PM ₁₀ (lb/day)
Excavation	1.6816	0.2804	2.9438	0.0041	0.1259	0.0134	0.1396
SCAQMD Threshold (lb/day)	550	75	100	150	--	--	150
Significant	No	No	No	No			No

Maximum Daily Deconstruction Emissions for the Abandonment of the Force Main

Attribute	Emissions						
Phase	CO (lb/day)	ROG (lb/day)	NO _x (lb/day)	SO _x (lb/day)	Combustion PM ₁₀ (lb/day)	Fugitive PM ₁₀ (lb/day)	Total PM ₁₀ (lb/day)
Excavation	3.5801	0.5673	6.4023	0.0100	0.2300	0.0871	0.3170
SCAQMD Threshold (lb/day)	550	75	100	150	--	--	150
Significant	No	No	No	No			No

Maximum Daily Deconstruction Emissions for the Abandonment of Gravity Sewer Lines

Attribute	Emissions						
Phase	CO (lb/day)	ROG (lb/day)	NOx (lb/day)	SOx (lb/day)	Combustion PM10 (lb/day)	Fugitive PM10 (lb/day)	Total PM10 (lb/day)
Excavation	0.5465	0.0597	0.8088	0.0020	0.0179	0.0534	0.0712
SCAQMD Threshold (lb/day)	550	75	100	150	--	--	150
Significant	No	No	No	No			No

Table 1-1: Heavy Construction Equipment Exhaust Emission Factors

Equipment Type	Fuel	CO (lb/day)	ROG (lb/day)	NOx (lb/day)	SOx (lb/day)	PM₁₀ (lb/hr)
Concrete Saws/Breakers	Diesel	0.5152	0.1654	1.0187	0.0009	0.083
Dumpers/Tenders	Diesel	0.0383	0.0137	0.0709	0.0001	0.0049
Excavators	Diesel	0.6758	0.1792	1.3897	0.0013	0.0794
Off-Highway Trucks (asphalt trucks)	Diesel	0.9451	0.287	2.853	0.0027	0.1051
Off-Highway Trucks (concrete trucks)	Diesel	0.9451	0.287	2.853	0.0027	0.1051
Off-Highway Trucks (pick- up trucks)	Diesel	0.9451	0.287	2.853	0.0027	0.1051
Off-Highway Trucks (water truck)	Diesel	0.9451	0.287	2.853	0.0027	0.1051
Roller	Diesel	0.4326	0.145	0.865	0.0007	0.0734
Tractors/Loaders/Backhoes	Diesel	0.3748	0.1179	0.6979	0.0006	0.0635

Source: SCAQMD. Off-Road Mobile Source Emission Factors Scenario Year 2007.

Table 1-2: On-Road Mobile Emission Factors from California ARB EMFAC2007 Scenario Year: 2007 -- Model Years: 1965 to 2007

Vehicle Type	CO Emissions Factor (lb/mile)	ROG Emission Factor (lb/mile)	NOx Emissions (lb/mile)	SOx Emissions (lb/mile)	PM ₁₀ Emissions (lb/mile)
Construction Workers Commuting	0.01155	0.00118	0.00121	0.00001	0.00008
Light-duty Trucks	0.02407	0.00323	0.02508	0.000026	0.00091
Heavy Diesel Trucks	0.01446	0.00372	0.04718	0.000039	0.00230

Source: SCAQMD. On-Road Mobile Source Emission Factors Scenario Year 2007.

Table 1-3: Fugitive Emission Factors for Construction Activities

Activity	PM ₁₀ Emissions (lbs/ton)
Storage Pile Filling/Truck Dumping	0.009075

Source: SCAQMD CEQA Air Quality Handbook, November 1993. Table 9-9

Table 1-4: Fugitive Emission Factors for On-Road Trucks and Employee Vehicles

Source Type	Emission Factor (lb/vmt)
Passenger Vehicle/On Paved Roadways	0.018
Trucks on Paved Roadways	0.214
Light Duty Trucks on Unpaved Roads*	1.45

Source: SCAQMD CEQA Air Quality Handbook, November 1993. Table A9-9 & Table A9-9C

* Emissions calculated from SCAQMD CEQA Air Quality Handbook, November 1993. Table A9-9-D. G=14. H=15, J=4 tons, I=4 and K=10.

HEAVY CONSTRUCTION EQUIPMENT COMBUSTION CALCULATIONS FOR DECONSTRUCTION OF PUMP STATION

Table 2-1: Excavation

Equipment Type	Number	Fuel	Hour/day Operation	CO (lb/day)	ROG (lb/day)	NOx (lb/day)	SOx (lb/day)	Combustion PM ₁₀ (lb/hr)
Concrete Saw	1	Diesel	4	2.0608	0.6616	4.0748	0.0036	0.332
Concrete Breaker	1	Diesel	4	2.0608	0.6616	4.0748	0.0036	0.332
Dump Truck	1	Diesel	8	0.3064	0.1096	0.5672	0.0008	0.0392
Dump Truck	1	Diesel	6	0.2298	0.0822	0.4254	0.0006	0.0294
Dump Truck	1	Diesel	4	0.1532	0.0548	0.2836	0.0004	0.0196
Excavator	2	Diesel	6	4.0548	1.0752	8.3382	0.0078	0.4764
Off-Highway Trucks (pick-up trucks)	8	Diesel	6	5.6706	1.722	17.118	0.0162	0.6306
Off-Highway Trucks (water truck)	1	Diesel	4	3.7804	1.148	11.412	0.0108	0.4204
Front End Loader	1	Diesel	8	2.9984	0.9432	5.5832	0.0048	0.508
Total				21.3152	6.4582	51.8772	0.0486	2.7876

Source: SCAQMD. Off-Road Mobile Source Emission Factors Scenario Year 2007.

HEAVY CONSTRUCTION EQUIPMENT COMBUSTION CALCULATIONS FOR ABANDONMENT OF FORCE MAIN

Table 2-2: Excavation

Equipment Type	Number	Fuel	Hour/day Operation	CO (lb/day)	ROG (lb/day)	NOx (lb/day)	SOx (lb/day)	Combustion PM ₁₀ (lb/day)
Concrete Saw	1	Diesel	4	2.0608	0.6616	4.0748	0.0036	0.332
Concrete Truck	1	Diesel	4	3.7804	1.148	11.412	0.0108	0.4204
Dump Truck	1	Diesel	6	0.2298	0.0822	0.4254	0.0006	0.0294
Excavator	1	Diesel	6	4.0548	1.0752	8.3382	0.0078	0.4764
Off-Highway Trucks (asphalt truck)	1	Diesel	6	5.6706	1.722	17.118	0.0162	0.6306
Off-Highway Trucks (pick-up trucks)	12	Diesel	6	5.6706	1.722	17.118	0.0162	0.6306
Roller	1	Diesel	6	2.5956	0.87	5.19	0.0042	0.4404
Front End Loader	1	Diesel	6	2.2488	0.7074	4.1874	0.0036	0.381
Total				24.2506	7.3268	63.789	0.0594	3.0088

Source: SCAQMD. Off-Road Mobile Source Emission Factors Scenario Year 2007.

HEAVY CONSTRUCTION EQUIPMENT COMBUSTION CALCULATIONS FOR ABANDONMENT OF GRAVITY SEWER LINES

Table 2-3: Excavation

Equipment Type	Number	Fuel	Hour/day Operation	CO (lb/day)	ROG (lb/day)	NOx (lb/day)	SOx (lb/day)	Combustion PM ₁₀ (lb/day)
Off-Highway Trucks (concrete pump trucks)	1	Diesel	6	5.6706	1.722	17.118	0.0162	0.6306
Off-Highway Trucks (pick-up trucks)	4	Diesel	6	5.6706	1.722	17.118	0.0162	0.6306
Total				11.3412	3.444	34.236	0.0324	1.2612

Source: SCAQMD. Off-Road Mobile Source Emission Factors Scenario Year 2007.

VEHICLE EMISSIONS

Table 3-1: Excavation

Source	Parameters			Peak Day Emissions, lbs/day					
	Number of Vehicles	Total Number of Trips	Distance Traveled per Trip	CO Emissions	ROG Emissions	NOx Emissions	SOx Emissions	Combustion PM ₁₀ Emissions	Fugitive PM ₁₀ Emissions
Construction Workers Commuting	16	32	20	7.392	0.7552	0.7744	0.0064	0.0512	n/a
Light-duty Trucks Onsite	5	5	5	0.60175	0.08075	0.627	0.00065	0.02275	n/a
Daily Delivery Trucks	1	3	20	1.4442	0.1938	1.5048	0.00156	0.0546	n/a
Dump Trucks	1	7	10	1.0122	0.2604	3.3026	0.00273	0.161	0.147
Totals				10.45015	1.29015	6.2088	0.01134	0.28955	0.147

Emission calculations assume that all construction phases overlap.

Worker commute is assumed to be 20 miles per trip.

Daily Delivery Truck trip distance is assumed to be 20 miles trip.

Fugitive PM10 is from paved roads for commuters, dump trucks, and delivery trucks and unpaved road for onsite trucks.

SOIL HAULING

Table 4-1: Soil Hauling

Export Material	Total Amount
Soil	5.57 cubic yards

Table 4-2: Soil Hauling and Pile Filling by Phase

Phase	Cubic Yards Exported	Tons Exported	Average Tons Exported per Day
Excavation	5.57	4.64	4.64

Calculation assumes a soil density of 1.45 g/cubic cm

Calculation assumes that all soil hauling occurs during a single day (worst case)

Table 4-3: Soil Hauling and Pile Filling Daily PM₁₀ Emissions by Phase

Phase	Emissions (lb/day)
Excavation	0.051