

**ADDENDUM TO
MITIGATED NEGATIVE DECLARATION**
(SCH #2017081049)
(State Guidelines §15071)

CEQA Lead Agency:

South Coast Water District
PO Box 30205
Laguna Niguel, CA 92607-0205

Project Name: Modifications to the design of Capital Improvement Project RW-101 (CI Project RW-101) of the South Coast Water District Infrastructure Master Plan Update for Capital Improvement Program.

Project Location: The Infrastructure Master Plan Update for Capital Improvement Program includes the entire South Coast Water District (District) service area. The project area is located in the County of Orange.

Project Description: The District prepared an Infrastructure Master Plan (IMP) Update to provide for a comprehensive Capital Improvement Program. The IMP Update details planned improvements to water distribution, wastewater, and recycled water infrastructure in the District and identifies existing and potential system deficiencies in the District's infrastructure that will need to be addressed. The Capital Improvement Program included 32 planned projects (CI Projects) in four phases to be completed to remedy the infrastructure issues identified in the IMP.

On October 12, 2017, the District Board of Directors adopted Resolution 6-17/18 entitled "*A Resolution of the Board of Directors of South Coast Water District Certifying that an Initial Study/Proposed Mitigated Negative Declaration and a Mitigation Monitoring and Reporting Program for the South Coast Water District Infrastructure Master Plan Update was Prepared in Accordance with the California Environmental Quality Act, and Directing Staff to Execute a Notice of Determination*".

On November 16, 2017, the Board of Directors adopted Resolution 7-17/18 entitled: "*A Resolution of the Board of Directors of South Coast Water District Adopting South Coast Water District Infrastructure Master Plan Update for Capital Improvement Program*" and directed District staff to file a notice of determination under the California Environmental Quality Act ("CEQA") (Pub. Res. Code § 21000 et seq.).

New Information: District staff has begun implementing the planned CI Projects that were described in the IMP Update. One of the recycled water system projects (RW-101, Table 2-3 of the IMP Update Initial Study) has undergone some additional engineering and design review, resulting in modifications that would better optimize the District's existing recycled water distribution system.

Need for CEQA Review: The District has modified the design of CI Project RW-101 originally described in the Initial Study/Mitigated Negative Declaration (MND), to include a section of pipe in Monarch Beach Drive and a longer length of pipe in Stonehill Drive. The potential environmental impacts for the modified design of CI Project RW-101 were not completely reviewed in the MND adopted by the District on October 12, 2017, and this Addendum to the MND has been prepared to include the modified design of CI Project RW-101. The MND and its attached Mitigation Monitoring and Reporting Program, are attached and incorporated by reference in this Addendum.

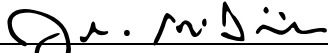
Addendum Summary: The purpose of this Addendum is to analyze the potential differences between the impacts identified in the MND for the originally described CI Project RW-101 and the impacts that would be associated with the modified design of the project. As described in the attached Environmental Review for Modifications to Capital Improvement Project RW-101 (Attachment A), there are no new significant impacts resulting from the modified design, nor are there any substantial increases in the severity of any previously identified environmental impacts. The potential impacts associated with the modified design would either be the same or less than the anticipated levels described in the previously adopted MND. No changes or additions are needed to the previously adopted Mitigation Monitoring and Reporting Program (Attachment A).

Determination: The District has prepared an environmental review of CI Project RW-101 originally described in the MND for the IMP Update. Based on the environmental review (Attachment A) and substantial evidence in the record, the District staff finds that although the revised CI Project RW-101 could have a potential significant effect on the environment, there will not be a significant effect in this case because:

- 1) There are no new significant impacts resulting from the modified design of CI Project RW-101;
- 2) There are no substantial increases in the severity of any previously identified environmental impacts;
- 3) The Mitigation Monitoring and Reporting Program adopted by the District on October 12, 2017, includes mitigation measures that, if implemented, would reduce potential impacts of CI Project RW-101 to a level that is less than significant; and,
- 4) The potential impacts associated with the proposed changes in the scope of CI Project RW-101 would either be the same or less than the anticipated levels described in the MND previously adopted by the District on October 12, 2017.

District staff also finds, based on the environmental review (Attachment A) that a subsequent EIR or subsequent negative declaration is not necessary because none of the conditions described in CEQA Guideline Section 15162 have occurred, including:

- 1) No substantial changes are proposed in the project which will require major revisions of the previous MND due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
- 2) No substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previously adopted MND due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
- 3) No new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous MND was adopted, shows any of the following:
 - a. The project will have one or more significant effects not discussed in the previous MND;
 - b. Significant effects previously examined will be substantially more severe than shown in the previous MND;
 - c. Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effect of the project, but the project proponent (District) declines to adopt the mitigation measure or alternatives;
 - d. Mitigation measures or alternatives which are considerably different from those analyzed in the previous MND would substantially reduce one or more significant effects on the environment, but the project proponent (District) declines to adopt the mitigation measure or alternative.


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7-31-18
Date:

Title: Acting General Manager, South Coast
Water District



**South Coast Water District
PO Box 30205
Laguna Niguel, CA 92607-0205**

Environmental Review for Modifications to Capital Improvement Project RW-101

July 2018

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South Coast Water District
Environmental Review for
Modifications to Capital Improvement Project RW-101

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Environmental Review for Modifications to CI Project RW-101

1.0 PROJECT SUMMARY

South Coast Water District (District) prepared an Infrastructure Master Plan Update (“IMP Update”) to provide for a comprehensive Capital Improvement Program. The IMP Update details planned improvements to water distribution, wastewater, and recycled water infrastructure in the District and identifies existing and potential system deficiencies in the District’s infrastructure that will need to be addressed. The Capital Improvement Program included 32 planned projects (“CI Projects”) to be completed in four phases to be completed over the next 11+ years to remedy the infrastructure issues identified in the IMP Update.

On October 12, 2017, the District Board of Directors adopted Resolution 6-17/18 entitled,

“A Resolution of the Board of Directors of South Coast Water District Certifying that an Initial Study/Proposed Mitigated Negative Declaration [MND] and a Mitigation Monitoring and Reporting Program for the South Coast Water District Infrastructure Master Plan Update was Prepared in Accordance with the California Environmental Quality Act, and Directing Staff to Execute a Notice of Determination”.

On November 16, 2017, the District Board of Directors adopted Resolution 7-17/18 entitled:

“A Resolution of the Board of Directors of South Coast Water District Adopting South Coast Water District Infrastructure Master Plan Update for Capital Improvement Program” and directed District staff to file a notice of determination under the California Environmental Quality Act (“CEQA”) (Pub. Res. Code § 21000 et seq.).”

The IMP Update Initial Study and MND provided a description of all of the CI Projects, most of which are extensions, replacements, or improvements to water distribution, wastewater, and recycled water pipelines.

2.0 NEW INFORMATION

District staff has begun implementing the planned CI Projects that were described in the IMP Update. One of the recycled water system projects (RW-101, Table 2-3 of the IMP Update Initial Study) has undergone some additional engineering and design review, resulting in modifications that would better optimize the District’s existing recycled water distribution system (Figure 1-1). The original and revised descriptions are provided below.

Original Description

CIP #	Proposed Projects	Phase	Length (Feet)	City	Roads Affected (Length in Feet)
RW-101	Stonehill Drive between Monarch Beach Drive and Intera Way - Remove approximately 1,900 feet of existing 6-inch pipe and replace with 8-inch pipe. Adjust PRV at RPS#3 to approximately 80 psi.	I	1,900	Dana Point	Stonehill Drive (1900-ft)

Revised Description

CIP #	Proposed Projects	Phase	Length (Feet)	City	Roads Affected (Length in Feet)
RW-101	Stonehill Drive & Monarch Beach Drive between Golden Lantern and Reservoir #2 - Abandon approximately 5,700 feet of existing 6-inch, 8-inch, and 12-inch pipe, and install approximately 5,700 feet of 14-inch pipe. Adjust PRV at RPS#3 to approximately 80 psi.	I	5,700	Dana Point	Stonehill Drive (3600-ft) Monarch Beach Drive (800-feet)

3.0 PROJECT PLANS, WORKFORCE, AND EQUIPMENT

The CI Projects address improvements to the water distribution, wastewater, and recycled water systems and have been prioritized in four phases (within one year, five years, ten years, and beyond ten years). The projects anticipated by the IMP Update primarily involve pipeline projects as well as other projects such as pressure reducing valves and lift station improvements. For the purpose of evaluating potential construction impacts, construction of the proposed CI Projects were assumed to be evenly spread over the course of each of the prioritized phases identified in the IMP Update as shown in Table 3-1, below.

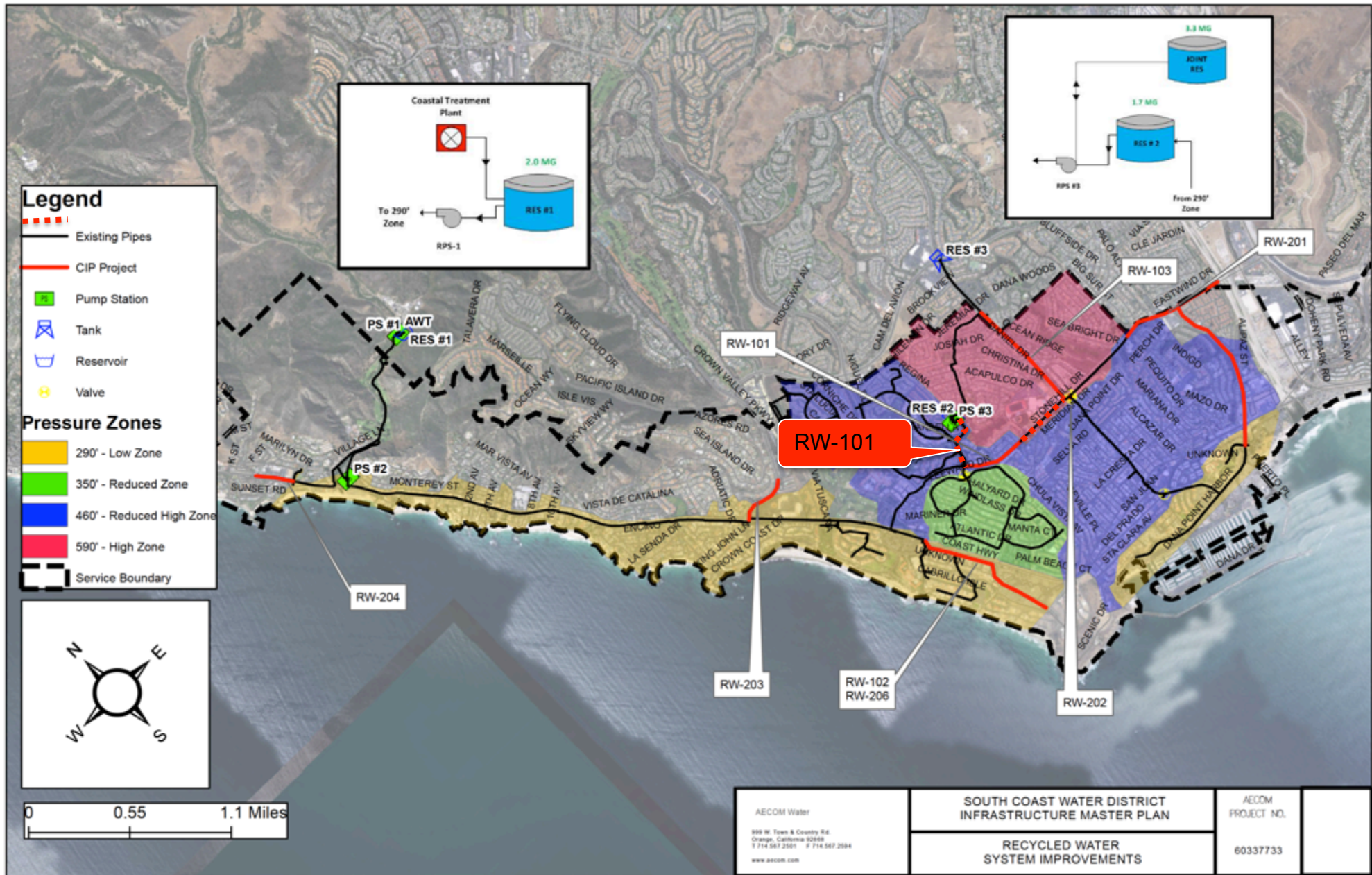
CI Project RW-101 was scheduled to occur during Phase 1, the first year of implementation of the CI Projects, however construction will not take place until Phase II. As shown in Table 3-1, construction of CI Project RW-101 is assumed to be in the 1st year of Phase II and the table has been revised to move the project from Phase I to Phase II.

Table 3-1. Summary of linear feet of pipeline constructed per year for the Capital Improvement Program.

Phase (Years)	Water (Linear Feet)	Wastewater (Linear Feet)	Recycle (Linear Feet)	Linear Feet Per year	Construction Working days per year @40 Lin. Ft./day
I (1st year)	4,030	0	3,500	7,530	188
II (years 2 to 5)	3,300	585	5,700*	6,963*	174*
III (years 6 to 10)	6,450	2,275	14,600	3,815	117
IV (years 11+)	2,170	0	0	2,170	54

* Assumes CI Project RW-101 is constructed in the 1st year of Phase II

The IMP Update Initial Study and MND provided information on construction equipment and workforce that are typical for utility construction, particularly for pipelines constructed within city streets and similar urban areas. Construction of CI Project RW-101 is expected to take approximately seven months.



AECOM Water 999 W. Town & Country Rd. Orange, California 92668 T 714.567.2500 F 714.567.2594 www.aecom.com	SOUTH COAST WATER DISTRICT INFRASTRUCTURE MASTER PLAN		AECOM PROJECT NO.
	RECYCLED WATER SYSTEM IMPROVEMENTS		60337733

4.0 EVALUATION OF POTENTIAL ENVIRONMENTAL IMPACTS

CI Project RW-101 is a 5,700-foot long, 14-inch recycled water distribution pipeline located in the City of Dana Point (Figure 4-1). RW-101 will replace existing 6-inch, 8-inch, and 12-inch recycled water lines to allow the use of recycled water on road medians, parks, and other landscaped areas. The pipeline alignment is within the same utility and District easements as the pipelines being replaced, i.e. the paved surface of two roads (Stonehill Drive and Monarch Beach Drive) and crossing a community park.



Figure 4-1. Recycled water pipeline route on Stonehill Drive and Monarch Beach Drive.

4.1 Environmental Factors

The environmental factors determined in the IMP Update MND to be potentially affected by CI Projects are checked below (“X”). Impacts that are “Potentially Significant Impact” or “Less than Significant Impact with Mitigation Incorporated” were identified.

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

CI Project RW-101 was evaluated by comparing the original and revised project scope and it was determined that there would continue to be no impact or less than significant impact for the following environmental factors:

- ∞ Aesthetics
- ∞ Agricultural Resources
- ∞ Land Use/Planning
- ∞ Mineral Resources
- ∞ Population/Housing
- ∞ Public Services
- ∞ Recreation

The following environmental factors determined in the IMP Update MND to have “Less than Significant Impact with Mitigation Incorporated” would have a similar impact with the modified design of CI Project RW-101. The additional length of the installed pipeline would not change the potential for significant effects previously examined or be substantially more severe than was identified in the IMP Update MND. The Mitigation and Monitoring Program adopted by the District (see Appendix A) would eliminate or reduce impacts to the following environmental factors to Less Than Significant.

- ∞ Geology/Soils
- ∞ Hazards & Hazardous Materials
- ∞ Hydrology/Water Quality
- ∞ Noise
- ∞ Transportation/Traffic
- ∞ Utilities/Service Systems

Potential impacts to the following environmental factors could be different or have an increased severity in comparison with the CI Project RW-101 as described in the IMP Update Initial Study and MND, and are further reviewed in the following sections.

- ∞ Air Quality
- ∞ Biological Resources
- ∞ Cultural Resources

4.2 Air Quality

4.2.1 Setting

This section focuses on potential short-term air quality impacts associated with Project construction activity, in addition to long-term local and regional air quality impacts associated with Project operation. The modified design of CI Project RW-101 that includes a longer pipeline and different construction period could lead to air quality impacts that requires a revised environmental assessment of potential impacts.

The IMP Update Initial Study and MND includes background information on the air quality setting, regulatory oversight, and regional management plans, all of which similarly apply to the modified design of CI Project RW-101.

4.2.2 Impact Assessment

Air Quality	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project 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) Would the project violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Would the project 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) Would the project expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Would the project create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

a) *Would the project conflict with or obstruct implementation of the applicable air quality plan?*

No Impact. According to the SCAQMD’s Air Quality Handbook, only significant projects or those requiring a General Plan Amendment or a Specific Plan would require review for AQMP consistency. The proposed CI Projects, including CI Project RW-101, would not require a General Plan Amendment or a Specific Plan or be considered a “significant project.” The proposed Project would include temporary construction activities during pipeline and other construction activities. The proposed CI Project RW-101 does not have an operational component that would produce emissions that are substantially different than current conditions.

b) *Would the project violate any air quality standard or contribute substantially to an existing or projected air quality violation?*

Less than Significant Impact With Mitigation Measures Incorporated. Emissions from the Project will be limited to the vehicles and equipment shown in IMP Update Initial Study Table 3-2 that will be typically used by the District or its contractors during Project construction. CI Project RW-101 would use these same types of equipment. The potential to exceed air-quality standards is very low given the limited number of vehicles and other equipment required for construction. The *SCAQMD CEQA Handbook* provides significance thresholds for criteria pollutants for both construction and operation of projects within its jurisdictional boundaries. Exceedance of the SCAQMD thresholds could result in a potentially significant impact. If the project proposes

development in excess of the established thresholds, as illustrated in Table 4-1 (SCAQMD Air Emission Thresholds), a significant air quality impact may occur and additional analysis would be warranted to fully assess the significance of impacts.

Table 4-1 SCAQMD Air Emissions Thresholds

Phase	Reactive Organic Gases (ROG)	Pollutant (lbs/day)		Particulate Matter ~10 microns (PM ₁₀)
		Nitrogen Oxides (NO _x)	Carbon Monoxide (CO)	
Construction	75	100	550	150
Operation	55	55	550	150

Source: SCAQMD CEQA Handbook, Page 6-1, April 1993.

Estimates of daily construction emissions were calculated (Appendix B) using the Roadway Construction Emissions Model (Version 5.1) developed by the Sacramento Metropolitan AQMD¹ and compared to SCAQMD thresholds as shown in Table 4-1. CI Project RW-101 construction impacts occurs in the 1st year of Phase II when, with the inclusion of the modified design of CI Project RW-101, when 6,963 linear feet of pipeline will be constructed in one year (see Table 3-1, above). Based on the construction tasks, equipment used, and workforce outlined in the IMP Update Initial Study, daily construction emissions are estimated as shown in Table 4-2, below. The emission of criteria pollutants during construction will not exceed the SCAQMD thresholds for project construction for any of the criteria pollutants and are therefore considered to have a less than significant impact to air quality.

Table 4-2. CI Projects Daily Construction Emissions (lbs/day), 1st year of Phase II

Construction Activity	NO _x	CO	ROG	SO _x	PM ₁₀	PM _{2.5}
Water, Sewer, & Recycled Water Pipelines	14.4	15.4	2.0	0.1	0.4	0.4
SCAQMD Thresholds	100	550	75	–	150	–

Although emissions of criteria pollutants are not expected to exceed the SCAQMD thresholds, mitigation measures AQ-1, AQ-2, and AQ-3 presented Appendix A were adopted by the District to further reduce exhaust emissions from construction equipment. Construction activities will result in particulate (fugitive dust) emissions and emissions from the exhaust of construction equipment, motor vehicles of the construction crew, and delivery vehicles. These emissions will be produced only during the construction phase. Implementation of Mitigation Measure AQ-4 to control fugitive dust emissions would reduce the impacts to air quality to a level that is less than significant.

¹ South Coast AQMD Air Quality Modeling <http://www.aqmd.gov/home/regulations/ceqa/air-quality-modeling> (accessed July 2017)

Following construction, CI Project RW-101 would not generate air emissions. The Project would not violate air quality standards or contribute substantially to an existing or projected air quality violation.

c) *Would the project 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)?*

Less than Significant Impact. CI Project RW-101 would not result in long-term emissions of criteria air pollutants or toxic air contaminants because it does not include an operational component. As noted above, the emission of criteria pollutants during construction will not exceed the SCAQMD thresholds for project construction for any of the criteria pollutants, therefore the project is not expected to result in a cumulatively considerable net increase in any criteria pollutant for which the Project region is non-attainment.

d) *Would the project expose sensitive receptors to substantial pollutant concentrations?*

Less than Significant Impact. Construction activities for any individual CI Project generally would be of short and temporary duration, lasting from a few days to a few weeks. For CI Project RW-101, construction activities would normally be at one location only for a very short period, usually a few days, as construction progresses down the pipeline route.

Potential impacts to sensitive receptors from CI Project RW-101 are expected to be less than significant because few construction vehicles are required and the construction vehicle emissions would be intermittent and short-term.

e) *Would the project create objectionable odors affecting a substantial number of people?*

Less than Significant Impact. Minor odors from exposed soils could be expected during construction but these would likely be brief and would not affect a substantial number of people.

4.2.3 Mitigation Measures

Four mitigation measures (AQ-1 through AQ-4) were adopted by the District in the IMP Update MND. These mitigation measures, described in Appendix A, are applicable to CI Project RW-101 and would reduce the potential impacts to air quality to a level that is Less Than Significant Impact with Mitigation Incorporated.

4.3 Biological Resources

4.3.1 Setting

Biological resources include natural habitats, state- and federally- endangered or threatened species, species of special concern, marine parks and preserves, and other areas of critical biological concern. The California Department of Fish and Wildlife (CDFW), the US Fish and Wildlife Service (USFWS), the California Native Plant Society (CNPS) maintain databases of special-status species for the project area. Special-status species are “listed” plant and animal groups with regulatory protection under either the federal Endangered Species Act or the endangered species program of the CDFW. Within the District’s service area, biological resources include state- and federally-listed endangered or threatened species, species of special concern, nesting migratory birds, riparian habitat, and aquatic habitats.

The project is located within an urban area of the City of Dana Point that includes residences and public facilities (Dana Hills High School). The project area has been urbanized and landscaped with non-native vegetation. The attached *Biological Resources & Habitat Evaluation* for the CI Project RW-101 (Appendix C) contains background information on watersheds, vegetation and habitat, special-status species, and other relevant information on the biological resources of the project area.

4.3.2 Impact Assessment

Biological Resources	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project 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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Would the project 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 Wildlife or US Fish and Wildlife Service?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Would the project 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) Would the proposal 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) Would the proposal 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"/>

Biological Resources	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
f) Would the project 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"/>

a) *Would the project 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?*

Less Than Significant Impact with Mitigation Incorporated. CI Project RW-101 is located in an urbanized area, and for most of the alignment it is within the paved surface of Stonehill Drive and Monarch Beach Drive that does not contain sensitive biological resources. Approximately 175 feet of the pipeline alignment is within the fuel modification landscape vegetation maintained by a homeowner’s association.

Project construction of CI Project RW-101 will be completed in approximately seven months and there are no operational activities that could impact biological resources. Special-status species records from CDFW or USFWS indicate that it is unlikely that special-status species would occur in the project area because preferred habitat does not exist or the species has been extirpated from the project area.

Mitigation measures BIO-1 and BIO-2 have been adopted by the District (see Appendix A) to mitigate potential impacts during the avian breeding season and avoid disturbance of natural habitat. These mitigation measures will reduce potential impacts to species identified as a candidate, sensitive, special-status, or migratory birds to levels that are less than significant.

b) *Would the project 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 Wildlife or US Fish and Wildlife Service?*

Less Than Significant Impact with Mitigation Incorporated. CI Project RW-101 is not within or near riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the CDFW or US Fish and Wildlife Service (USFWS)². Some temporary disturbance to fuel modification landscape vegetation maintained by a homeowner’s association will occur during construction of

² City of Dana Point Environmentally Sensitive Areas.
<http://maps.digitalmapcentral.com/production/VECommunityView/cities/danapoint/index.aspx> Accessed June 2018.

approximately 175 feet of the pipeline within the existing pipeline easement. Implementation of mitigation measure BIO-2 will prevent significant impacts to riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the CDFW or USFWS.

c) Would the project 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 entire length of the proposed route has been examined and the off-road areas have been surveyed by foot. CI Project RW-101 is not located within any wetland area and would not have a substantial adverse effect on federally protected wetlands through direct removal, filling, hydrological interruption, or other means.

d) Would the proposal 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. CI Project RW-101 is located mostly within paved road surfaces and construction or operation of the project would not substantially interfere 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.

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

No Impact. CI Project RW-101 does not include tree removal and would not conflict with any local policies or ordinances protecting biological resources.

f) Would the project 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. CI Project RW-101 is located mostly within paved road surfaces and within an existing pipeline easement. Construction or operation of the 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.

4.3.3 Mitigation Measures

Two mitigation measures to protect biological resources (BIO-1 and BIO-2) were adopted by the District in the IMP MND for the CI Projects. These mitigation measures, described in Appendix A, are applicable to CI Project RW-101 and would reduce the potential impacts to biological resources to a level that is Less Than Significant Impact with Mitigation Incorporated.

4.4 Cultural and Paleontological Resources

4.4.1 Setting

The general area of the proposed CI Projects are considered potentially sensitive for cultural and/or paleontological resources; however, proposed CI Project areas are located within roads and within an existing pipeline easement that have been previously excavated, graded and otherwise disturbed.

A Cultural Resources Assessment was undertaken by BCR Consulting LLC that included: a records search of recorded cultural resources within one mile of the Project site; field survey along the Project alignment; and, Native American Consultation (see Appendix D). The Cultural Resources Assessment found there were no recorded cultural resources within the Project Area of Potential Effect (APE). Potential project impacts are discussed further in the following section.

4.4.2 Impact Assessment

Cultural and Paleontological Resources	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Would the project disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a/b/c) Would the project cause a substantial adverse change in the significance of a historical resource as defined in §15064.5? Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5? Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less than Significant Impact. The general area of the proposed CI Projects are considered potentially sensitive for cultural and/or paleontological resources; however, CI Project RW-101 is located within roads and within an existing pipeline easement which have been previously excavated, graded and otherwise disturbed. The Cultural Resources Assessment found there were no recorded cultural resources within the Project Area of Potential Effect (APE) (see Appendix D). Based on this, the chances of uncovering previously unidentified or undisturbed cultural, paleontological and/or historical resources are minimal and CI Project RW-101 is not likely to impact cultural and paleontological resources.

d) *Would the project disturb any human remains, including those interred outside of formal cemeteries?*

Less than Significant Impact with Mitigation Incorporated. Since the CI Project RW-101 is located within existing roadways and within an existing pipeline easement, the potential for buried human remains to be encountered or disturbed during the project work is minimal. State and local laws require that if human remains are encountered, the local law enforcement agency with appropriate jurisdiction must be notified. Based on this, Mitigation Measure CULT-1, discussed in the following section, is proposed to reduce potential impacts to a level that is less than significant.

4.4.3 Mitigation Measures

One mitigation measure (CULT-1) was adopted by the District in the MND for the CI Projects. Mitigation Measure CULT-1, described in Appendix A, is applicable to CI Project RW-101 and would reduce the potential impacts to cultural resources to a level that is Less Than Significant Impact with Mitigation Incorporated.

4.5 MANDATORY FINDINGS OF SIGNIFICANCE

Mandatory Findings of Significance	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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?*

Less than Significant Impact with Mitigation Incorporated. Nearly all of the CI Projects identified in the IMP Update are located within urbanized areas, usually within the paved surfaces of area roads that do not contain sensitive biological resources. Several CI Projects including CI Project RW-101 are located close to areas where impacts to vegetation and associated habitats are possible. Mitigation measures are proposed that will reduce potential impacts to a level that is less than significant.

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)?*

Less than Significant Impact with Mitigation Incorporated. With implementation of the proposed mitigation measures, the CI Projects including the proposed modifications to CI Project RW-101 have been found to have less than significant environmental effects. No cumulatively considerable impacts would be realized when viewed in connection with the effects of existing or future proposed projects.

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

Less Than Significant Impact. With implementation of mitigation measures proposed the CI Projects including the proposed modifications to CI Project RW-101 have been found to have less than significant environmental effects. The proposed Project does not have environmental effects that would cause substantial adverse effects on human beings, either directly or indirectly.

**Capital Improvement Projects
Mitigation and Monitoring Program**

Mitigation Measure	Implementing Action	Responsible Party
<p>AQ-1. The District shall include in the construction contract standard specifications requirement for the General Contractor to be in compliance with SCAQMD Rule 1113. ROG emissions from architectural coatings will be reduced by using pre-- coated/natural-colored building materials, water-based or low-ROG coating and using coating transfer or spray equipment with high transfer efficiency.</p>	Preparation of construction contract	SCWD Project Manager
<p>AQ-2. The District shall require the General Contractor to include the following measures on construction plans, to the satisfaction of the District Project Manager:</p> <ul style="list-style-type: none"> • The General Contractor shall organize construction activities so as not to interfere significantly with peak hour traffic and minimize obstruction of through traffic lanes adjacent to the site; if necessary, a flag person shall be retained to maintain safety adjacent to existing roadways; • The General Contractor shall utilize electric powered stationary equipment in lieu of gasoline powered engines where feasible; and, • The General Contractor shall state in construction plans that work crews will shut off equipment when not in use. 	Preparation of construction plans	Construction Contractor (implementation); SCWD Project Manager (approval and periodic inspections)
<p>AQ-3. The District shall include in the construction contract standard specifications requiring the General Contractor to limit vehicle idling as much as possible. On-road vehicles with a gross vehicular weight rating of 10,000 pounds or greater shall not idle for longer than five minutes at any location as required by Section 2485 of Title 13, Division 3, Chapter 10, Article 1 of the California Code of Regulations. This restriction does not apply when vehicles remain motionless during traffic or when vehicles are queuing. Off-road equipment engines shall not idle for longer than five minutes per Section 2449(d)(3) of Title 13, Division 3, Chapter 9, Article 4.8 of the California Code of Regulations. Exceptions to this rule include the following: idling when queuing; idling to verify that the vehicle is in safe operating condition; idling for testing, servicing, repairing or diagnostic purposes; idling necessary to accomplish work for which the vehicle was designed (such as operating a crane); idling required to bring the machine to operating temperature as specified by the manufacturer; and idling necessary to ensure safe operation of the vehicle.</p>	Preparation of construction contract	SCWD Project Manager
<p>AQ-4. SCWD shall include in the construction contract standard specifications that, in compliance with SCAQMD Rule 403, excessive fugitive dust emissions shall be controlled by regular watering or other dust preventive measures, as specified in the South Coast Air Quality Management District's Rules and Regulations. In addition , SCAQMD Rule 402 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off-site. Implementation of the following measures will reduce short-term fugitive dust impacts on nearby sensitive receptors:</p> <ul style="list-style-type: none"> • All active areas of the construction site shall be watered to prevent excessive amounts of dust; • On-site vehicles speed shall be limited to 15 miles per hour (mph); • All material excavated or graded shall be sufficiently watered to 	Preparation of construction contract; and, During Construction	SCWD Project Manager Construction Contractor (implementation); SCWD Project Manager (approval and periodic inspections)

Appendix A – Mitigation & Monitoring Program

<p>prevent excessive amounts of dust; watering, with complete coverage, shall occur at least twice daily, preferably in the late morning and after work is done for the day;</p> <ul style="list-style-type: none"> • If dust is visibly generated that travels beyond the site boundaries, activities that are generating dust shall cease until dust carrying winds have abated or construction methods have been changed to prevent dust traveling beyond the site boundary; and, • All material transported off site shall be either sufficiently watered or securely covered to prevent excessive amounts of dust. 		
<p>BIO-1. If construction commences during the avian breeding season, February 15 through August 31, then prior to the onset of construction activities, the District shall conduct surveys for nesting special-status and/or migratory avian species and raptors will be conducted on and within 150 feet of the construction areas following U.S. Fish and Wildlife Service (USFWS) and/or California Department of Fish and Wildlife (CDFW) guidelines. If no active avian nests are identified within a buffer (as determined by a qualified biologist) of the construction area, no further mitigation would be necessary. However, if active nests for avian species of concern, migratory species, or raptors are found within the construction footprint or a construction buffer zone, construction may be delayed within a buffer (as determined by a qualified biologist) of the identified nest until the young have fledged or appropriate mitigation measures responding to the specific situation are developed in consultation with CDFW and/or USFWS when necessary.</p>	<p>During Construction</p>	<p>Construction Contractor (implementation); SCWD Project Manager (approval and periodic inspections)</p>
<p>BIO-2. Prior to facility construction or installation, project specific biological resource surveys shall be conducted onsite when any previously undeveloped areas or natural habitats may be disturbed by project implementation. If any sensitive species or natural habitat should have the potential to occur on the site where facilities are proposed, or if previous environmental studies have not been conducted, the District shall conduct all surveys in accordance with all established biological survey protocols of CDFW and/or USFWS for each potential species or natural habitat that may be located on-site. Further, the District shall implement mitigation measures required by jurisdictional agencies if additional measures are required.</p>	<p>Prior to construction</p>	<p>Construction Contractor (implementation); SCWD Project Manager (approval and periodic inspections)</p>
<p>CULT-1. In the unlikely event that human remains are encountered during the CI Project activities, the local law enforcement agency with appropriate jurisdiction will be notified and work in the project area will temporarily cease until the appropriate authorities have cleared the area.</p>	<p>During Construction</p>	<p>Construction Contractor (implementation); SCWD Project Manager (approval and periodic inspections)</p>
<p>GEOL-1. The District shall retain a qualified geologist, soils engineer and/or engineering geologist, as appropriate, to investigate proposed structure and excavation sites. The recommendations of the geologist shall be incorporated in the design and construction of applicable CI Projects. Appropriate trenching and shoring shall be employed in excavations.</p>	<p>During Construction</p>	<p>Construction Contractor (implementation); SCWD Project Manager (approval and periodic inspections)</p>
<p>GEOL-2. The proposed CI Projects will be designed and completed consistent with the construction standards provided in the Uniform</p>	<p>During</p>	<p>Construction Contractor</p>

Appendix A – Mitigation & Monitoring Program

<p>Building Code to reduce the potential for adverse effects to structures associated with ground shaking and ground failure to a less than significant level.</p>	<p>Construction</p>	<p>(implementation); SCWD Project Manager (approval and periodic inspections)</p>
<p>GEOL-3. Where appropriate, construction plans shall include the preparation and implementation of landscape and erosion control plans for manufactured slopes and other disturbed areas.</p>	<p>During Construction</p>	<p>Construction Contractor (implementation); SCWD Project Manager (approval and periodic inspections)</p>
<p>GEOL-4. Disturbed surfaces shall be returned to the general pre-project condition following the completion of the CI Projects. This includes repaving areas following construction.</p>	<p>During Construction</p>	<p>Construction Contractor (implementation); SCWD Project Manager (approval and periodic inspections)</p>
<p>HAZMAT-1. In addition to adhering to applicable federal, state and local guidelines regarding hazardous materials, the existing District Hazardous Material Business Plan (HMBP) will be followed during the construction activities. Additionally, Material Safety Data Sheets will be made available for applicable hazardous materials and, consistent with the HMBP, employees using or in the vicinity of hazardous materials shall be appropriately trained and will employ the appropriate storage, transportation, and handling methods for hazardous materials.</p>	<p>During Construction</p>	<p>Construction Contractor (implementation); SCWD Project Manager (approval and periodic inspections)</p>
<p>WATER-1. A Storm Water Pollution Prevention Plan (SWPPP) will be prepared and implemented for any CI Project that meets the general construction permit requirements of the California Water Resources Control Board. The plan shall identify the best management practices (BMPs) for managing storm water and/or construction water run-off. The SWPPP shall detail practices for preventing construction water from entering the municipal storm water system and the implementation of applicable construction erosion control measures.</p>	<p>During Construction</p>	<p>Construction Contractor (implementation); SCWD Project Manager (approval and periodic inspections)</p>
<p>NOISE-1. Project work hours will be 7 AM to 5 PM in Dana Point and 7 AM to 6 PM in Laguna Beach, Monday through Friday. There will be no construction on Saturday, Sunday, or on federal holidays. Compliance with these work hours would reduce potential short-term noise impacts to a level considered less than significant. Nighttime construction is possible and is sometimes necessary to mitigate other, more disruptive, impacts such as to traffic or public safety. If nighttime construction were to be considered for a specific CI Project the District will consult with the affected city and local residents to develop specific construction plans, construction methods, and identify mitigation measures to reduce or control nighttime construction noise impacts.</p>	<p>During Construction</p>	<p>Construction Contractor (implementation); SCWD Project Manager (approval and periodic inspections)</p>
<p>NOISE-2. The nearest impacted residences shall be notified of the construction schedule in writing, prior to construction. The District shall require that a noise disturbance coordinator be designated who would be responsible for responding to complaints regarding</p>	<p>During Construction</p>	<p>Construction Contractor (implementation); SCWD Project Manager (approval</p>

Appendix A – Mitigation & Monitoring Program

<p>construction noise. The coordinator shall determine the cause of the complaint and ensure that reasonable measures are implemented to correct the problem. A contact number for the noise disturbance coordinator shall be conspicuously placed on the construction site and written into the construction notification schedule sent to nearby residences</p>		<p>and periodic inspections)</p>
<p>TRAF-1. The District shall require that a construction traffic management plan for work in public roads be prepared that complies with the Work Area Traffic Control Handbook or other applicable City standards to provide adequate traffic control and safety during construction activities. At a minimum this plan shall define: how to minimize the amount of time spent on construction activities; how to minimize disruption of vehicle and alternative modes of traffic at all times, but particularly during periods of high traffic volumes; adequate signage and other controls, including flag persons, to ensure that traffic can flow adequately during construction; the identification of alternative routes that can meet the traffic flow requirements of a specific area, including communication (signs, notices, etc.) with drivers and neighborhoods where construction activities will occur; and at the end of each construction day roadways shall be prepared for continued utilization without any significant roadway hazards remaining.</p>	<p>During Construction</p>	<p>Construction Contractor (implementation); SCWD Project Manager (approval and periodic inspections)</p>
<p>TRAF-2. The District shall require that all disturbances to public roadways and right-of-ways be repaired in a manner that complies with the Standard Specifications for Public Works Construction (green book) or other applicable City standard.</p>	<p>During Construction</p>	<p>Construction Contractor (implementation); SCWD Project Manager (approval and periodic inspections)</p>
<p>TRAF-3. The District shall include requirements in the construction contracts that local and emergency access be maintained at all times. All private driveways and side streets shall be kept open at all times except when construction takes place directly in front of the driveway/side street. All open excavations on public streets shall be backfilled or steel plated for traffic to the satisfaction of the City Engineer outside the working hours. Traffic and roadways shall be restored to normal conditions during nonworking hours.</p>	<p>During Construction</p>	<p>Construction Contractor (implementation); SCWD Project Manager (approval and periodic inspections)</p>
<p>UTIL-1. The District shall include requirements in the demolition/construction contracts that all materials that can feasibly be recovered be salvaged and recycled. This includes wood, metals, concrete, asphalt, and similar waste and construction materials. The contractors shall submit a recycling plan to the District for review and approval prior to the start of demolition/construction activities</p>	<p>During Construction</p>	<p>Construction Contractor (implementation); SCWD Project Manager (approval and periodic inspections)</p>



**South Coast Water District
PO Box 30205
Laguna Niguel, CA 92607-0205**

**Biological Resources & Habitat
Evaluation – Stonehill Drive/
Monarch Beach Drive Recycled
Water Pipeline Project (RW-101)**

June 2018

Prepared by

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SOUTH COAST WATER DISTRICT

BIOLOGICAL RESOURCES & HABITAT EVALUATION - STONEHILL DRIVE/ MONARCH BEACH DRIVE RECYCLED WATER PIPELINE PROJECT (RW-101)

1.0 INTRODUCTION

South Coast Water District (District) is constructing a recycled water pipeline in the City of Dana Point as part of planned improvements to water distribution, wastewater, and recycled water infrastructure in the District. The recycled water pipeline project (project #RW-101 in the District's Capital Improvement Program) is located on Stonehill Drive and Monarch Beach Drive as illustrated in Figure 1. Project RW-101 is a 5,700-foot long, 14-inch recycled water distribution pipeline that will replace 5,700 feet of existing 6-inch, 8-inch, and 12-inch recycled water lines. Completion of the project will allow distribution and use of recycled water on road medians, parks, and other landscaped areas. The pipeline alignment is within the same utility and District easements as the pipelines being replaced, i.e. the paved surface of two roads (Stonehill Drive and Monarch Beach Drive) and crossing a community park (see Figure 1).

Construction equipment and methods are typical for utility construction in roadways and project construction is expected to take approximately seven months.



Figure 1. Recycled water pipeline route on Stonehill Drive and Monarch Beach Drive.

1.1 SETTING

The District encompasses approximately 5,300 acres along the Orange County's southern coastline. Surface elevations range from sea level to approximately 690 feet above sea level. Land use within the District is primarily residential; however, some commercial development associated with resort communities is also present in the District. The project is located near the center of the City of Dana Point in an urban area that includes residences and public facilities (Dana Hills High School).

1.2 VEGETATION AND HABITAT

The project area has been urbanized and landscaped with non-native vegetation as illustrated in Figures 2 and 3, which are typical views of the pipeline route. Along Stonehill Drive and Monarch Beach Drive, a total of approximately 4,500 linear feet, there are no native or natural habitats adjacent or nearby the project pipeline route. From Monarch Beach Drive the existing pipeline easement crosses approximately 500 linear feet of grass turf in a local park, and then through approximately 175 feet of fuel modification landscape before entering the paved area of the District's recycled water storage reservoir (Figures 4 and 5).



Figure 2. View looking west on Stonehill Drive (Dashed line is approximate alignment)



Figure 3. View looking north on Monarch Beach Drive (Dashed line is approximate alignment)



Figure 4. View looking east from Monarch Beach Drive (Dashed line is approximate alignment)



Figure 5. View looking north on the approach to the recycled water reservoir (Dashed line is approximate alignment)

1.3 SPECIAL-STATUS SPECIES

Biological resources include natural habitats, state- and federally- endangered or threatened species, species of special concern, marine parks and preserves, and other areas of critical biological concern. The California Department of Fish and Wildlife (CDFW), the US Fish and Wildlife Service (USFWS), the California Native Plant Society (CNPS) maintain databases of special-status species for the project area. Special-status species are “listed” plant and animal groups with regulatory protection under either the

federal Endangered Species Act or the endangered species program of the CDFW. Within the District's service area, biological resources include state- and federally-listed endangered or threatened species, species of special concern, nesting migratory birds, riparian habitat, and aquatic habitats.

The CDFW Natural Diversity Data Base (CNDDDB) incorporates data on special-status species from USFWS and CNPS and was reviewed for occurrences of rare, threatened, endangered, and/or sensitive animals, plants, and natural communities within ½ mile of the project site. The CNDDDB review resulted in two plant species and two animal species that are considered special-status species. Western spadefoot toad and *Dulzura* pocket mouse are CDFW species of special concern; Blochman's dudleya and Nuttall's scrub oak are CNPS species that are Seriously Endangered in California. These species primarily occur in habitats that no longer exist in the project area because of urbanization. The special-status species and their probability for occurring in the project area are listed in Table 1, below.

Table 1. Special-Status Species Within ½ mile of the Project Site as Identified in CNDDDB Reports (Accessed May 2018).

Resource	Status ^{1/}			Habitat and Distribution	Occurrence Probability
	Federal	State	CNPS		
Blochman's dudleya <i>Dudleya blochmaniae</i> ssp. <i>blochmaniae</i>	None	None	1B.1	Coastal sage scrub, chaparral, coastal bluff scrub and valley and foothill grassland within the immediate influence of the coast.	Low. The open, rocky slopes having clay soils over serpentine preferred by this species are not present at the project location. Nearest known populations were extirpated in the 1980's.
Nuttall's scrub oak <i>Quercus dumosa</i>	None	None	1B.1	Coastal chaparral with a relatively open canopy cover is the preferred habitat in flat terrain; on north-facing slopes this shrub may grow in dense stands.	Low. The preferred chaparral habitat is not present at the project location. Nearest known location of this species was approximately 0.5 miles west of the project site. Extirpated from the area by 1991.
Western spadefoot <i>Spea hammondi</i>	None	SC		Prefers open areas with sandy or gravelly soils, in a variety of habitats including mixed woodlands, grasslands, chaparral, sandy washes, lowlands, river floodplains, alluvial fans, playas, alkali flats, foothills, and mountains. Rainpools which do not contain bullfrogs, fish, or crayfish are necessary for breeding.	Low. Open areas preferred by this species are not found in the immediate project area due to urbanization and contiguous landscaping of non-native plant species. The nearest known population was reported approximately ¼ mile northwest of the project area, however all remaining pool habitat needed by this species were destroyed in 1983.
<i>Dulzura</i> pocket mouse <i>Chaetodipus californicus femoralis</i>	None	SC		Occupies a wide variety of habitats year-round within its range in the Upper Sonoran and Transition life zones. These include montane hardwood, valley foothill hardwood-conifer, valley foothill hardwood, annual grassland, sagebrush, chamise-redshank and montane chaparral, and coastal scrub. <i>C. californicus</i> occurs in greatest abundance in habitats where grassland and chaparral are in close proximity.	Low. Natural habitats preferred by this species are not found in the immediate project area due to urbanization and contiguous landscaping of non-native species. This species was reported in 1932 from a general location that overlaps the project area, however the specific location is unknown.

Note 1. Status

STATE

SC= California state-listed as species of special concern

CNPS (California Native Plant Society)

1B.1 = CNPS list of plants that are Seriously Endangered in California

1.4 BIRDS AND OTHER WILDLIFE

The Migratory Bird Treaty Act (MBTA) protects migratory birds breeding in the U.S. regardless of their official listing status. The provisions of this act govern the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests. The law applies to the removal of nests occupied by migratory birds during the breeding season. It is a violation of the MBTA to directly affect an active nest of any

bird species covered by the MBTA. An active nest (containing eggs or fledglings) may not be disturbed or removed until the young in the nest are fully fledged, (when the parents no longer protect the young, in or out of the nest). When site visits were conducted in May and June, 2018, the following species typical of the area were observed: American Crow, Spotted Towhee, California Towhee, Cassin's Kingbird, Northern Mockingbird, Song Sparrow, Anna's Hummingbird, Mourning Dove, and House Wren. All of these species are covered by the MTBA.

A short section of the pipeline alignment, approximately 175 feet, is within landscape vegetation maintained by a homeowner's association (see Figure 5). Overgrown shrubs within and adjacent to the easement has potential to be occupied by nesting birds during the breeding season (February 15 to September 15). Based on a preliminary construction schedule developed by the District, construction activities may occur during the nesting season. Project implementation and construction-related activities including vegetation removal and excavation may result in the disturbance of nesting MBTA-protected species that could occur within the Project area. Construction activities could affect raptors and other birds nesting in tall trees, buildings, or structures though these are relatively distant from the pipeline easement. Trimming or removal of vegetation could destroy or disturb active nests. Equipment noise, vibration, lighting, and other construction related disturbance could disrupt nesting, feeding or other life cycle activities, and could cause nest abandonment or nesting failure. A pre-construction survey for nesting birds prior to construction activities would reduce the impact to a level that is less than significant. Implementation of Mitigation Measures BIO-1 and BIO-2, described in the following section, will reduce the potential of significant impacts to MBTA-protected birds and candidate, sensitive, or special-status species to a level that is less than significant.

2.0 IMPACT EVALUATION

The project is in an urbanized area and is within the paved surfaces of two roadways that do not contain sensitive biological resources (see Figures 1, 2, and 3). Non-native landscape vegetation is present in the adjacent residential areas. Potential impacts to biological resources are discussed further below, using the California Environmental Quality Act Initial Study list of questions for evaluating the potential impacts to biological resources as a guide.

a) Would the project 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?

Less Than Significant Impact with Mitigation Incorporated. CI Project RW-101 is located in an urbanized area, and for most of the alignment it is within the paved surface of Stonehill Drive and Monarch Beach Drive that do not contain sensitive biological resources. Approximately 175 feet of the pipeline alignment is within the fuel modification landscape vegetation maintained by a homeowner's association.

Project construction of CI Project RW-101 will be completed in approximately seven months and there are no operational activities that could impact biological resources. Special-status species records from CDFW and USFWS indicate that it is unlikely that

special-status species would occur in the project area because preferred habitat does not exist or the species has been extirpated from the project area.

Mitigation measures BIO-1 and BIO-2, below, have been adopted by the District to mitigate potential impacts during the avian breeding season and avoid disturbance of natural habitat. These mitigation measures will reduce potential impacts to species identified as a candidate, sensitive, or special-status or migratory birds to levels that are less than significant.

BIO-1 If construction commences during the avian breeding season, February 15 through August 31, then prior to the onset of construction activities, the District Shall conduct surveys for nesting special-status and/or migratory avian species and raptors will be conducted on and within 150 feet of the construction areas following U.S. Fish and Wildlife Service (USFWS) and/or California Department of Fish and Wildlife (CDFW) guidelines. If no active avian nests are identified within a buffer (as determined by a qualified biologist) of the construction area, no further mitigation would be necessary. However, if active nests for avian species of concern, migratory species, or raptors are found within the construction footprint or a construction buffer zone, construction may be delayed within a buffer (as determined by a qualified biologist) of the identified nest until the young have fledged or appropriate mitigation measures responding to the specific situation are developed in consultation with CDFW and/or USFWS when necessary.

BIO-2 Prior to facility construction or installation, project specific biological resource surveys shall be conducted onsite when any previously undeveloped areas or natural habitats may be disturbed by project implementation. If any sensitive species or natural habitat should have the potential to occur on the site where facilities are proposed, or if previous environmental studies have not been conducted, the District shall conduct all surveys in accordance with all established biological survey protocols of CDFW and/or USFWS for each potential species or natural habitat that may be located on-site. Further, the District shall implement mitigation measures required by jurisdictional agencies if additional measures are required.

b) Would the project 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 Wildlife or US Fish and Wildlife Service?

Less Than Significant Impact with Mitigation Incorporated. CI Project RW-101 is not within or near riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the CDFW or USFWS¹. Some temporary disturbance to fuel modification landscape vegetation maintained by a homeowner's association will occur during construction of approximately 175 feet of the pipeline within the existing pipeline easement. Implementation of mitigation measure BIO-2, above, will prevent significant impacts to riparian habitat or other sensitive natural

¹ City of Dana Point Environmentally Sensitive Areas.
<http://maps.digitalmapcentral.com/production/VECommunityView/cities/danapoint/index.aspx>
Accessed June 2018.

community identified in local or regional plans, policies, or regulations or by the CDFW or USFWS.

c) *Would the project 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 entire length of the proposed route has been examined and the off-road areas have been surveyed by foot. CI Project RW-101 is not located within any wetland area and would not have a substantial adverse effect on federally protected wetlands through direct removal, filling, hydrological interruption, or other means.

d) *Would the proposal 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. CI Project RW-101 is located within paved road surfaces with a short section in turf and fuel modification landscape vegetation maintained by a home owner's association. After temporary construction disturbance, all landscape areas will be restored to their present condition. Construction or operation of the project would not substantially interfere 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.

e) *Would the proposal conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?*

No Impact. CI Project RW-101 does not include tree removal and would not conflict with any local policies or ordinances protecting biological resources.

f) *Would the project 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. CI Project RW-101 is located within paved road surfaces with a short section in turf and fuel modification landscape vegetation maintained by a homeowner's association. Construction or operation of CI Project RW-101 within the existing District easement 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.

Appendix D

CULTURAL RESOURCES ASSESSMENT

Golden Lantern and Stonehill Drive Project

Dana Point, Orange County, California

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Project No. SCW1801

National Archaeological Data Base Information:

Type of Study: Reconnaissance Survey

Resources Recorded: None

Keywords: Dana Point

USGS Quadrangles: 7.5-minute Dana Point, California (1975)



BCRCONSULTING LLC

June 5, 2018

MANAGEMENT SUMMARY

BCR Consulting LLC (BCR Consulting) is under contract to South Coast Water District to conduct a Cultural Resources Assessment of the Golden Lantern and Stonehill Drive Project (the project, or undertaking) in the City of Dana Point, Orange County, California. A reconnaissance-level pedestrian cultural resources survey of the Area of Potential Effect (APE) was performed pursuant to Section 106 of the National Historic Preservation Act of 1966 (Section 106 of the NHPA), and to the California Environmental Quality Act (CEQA). A cultural resources records search, field survey, and Native American Consultation were conducted for the project. The records search revealed that 92 cultural resource studies have taken place resulting in the recording of 61 cultural resources within a one-mile radius of the APE. Two of the 92 previous studies have assessed the northern portion of the APE's eastern-most alignment and no cultural resources have been previously recorded within its boundaries. The nearest resource is a prehistoric artifact scatter designated P-30-371, located immediately adjacent to the south of the western portion of the APE.

During the field survey, BCR Consulting archaeologists did not discover any cultural resources (including prehistoric or historic archaeological sites or historic-period buildings) within the project site/APE. As a result, BCR Consulting recommends a finding of no effect under Section 106 of the NHPA, and no impacts to historical resources under CEQA. However, one previously recorded prehistoric archaeological site has been identified adjacent to the APE, and others in the area have locally yielded significant buried deposits. Therefore, BCR Consulting recommends archaeological monitoring for all project-related excavations associated with minimally disturbed sediments (as depicted in Appendix A). The monitor should work under the supervision of a Cultural Resource Professional that meets the U.S. Secretary of the Interior Professional Qualification Standards for Archaeology. In the event of an archaeological discovery, the monitor would have the authority to temporarily divert construction excavation in the vicinity of the find until it can be evaluated for significance. In case of accidental discoveries of historic or prehistoric resources during project-related excavation when an archaeological monitor is not present, work should cease and a U.S. Secretary of the Interior Qualified Archaeologist should be notified to record and evaluate the find.

If human remains are encountered during the undertaking, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC.

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INTRODUCTION

BCR Consulting LLC (BCR Consulting) is under contract to South Coast Water District to conduct a Cultural Resources Assessment of the Golden Lantern and Stonehill Drive Project (the project or undertaking) in the City of Dana Point, Orange County, California. A reconnaissance-level pedestrian cultural resources survey of the Area of Potential Effect (APE) was undertaken pursuant to Section 106 of the National Historic Preservation Act of 1966 (Section 106 of the NHPA), and to the California Environmental Quality Act (CEQA). The project site is located in Section 15 of Township 8 South, Range 6 West, San Bernardino Baseline and Meridian (SBBM). It is depicted on the United States Geological Survey (USGS) *Dana Point, California* (1975) 7.5-minute topographic quadrangle (Figure 1).

AREA OF POTENTIAL EFFECTS

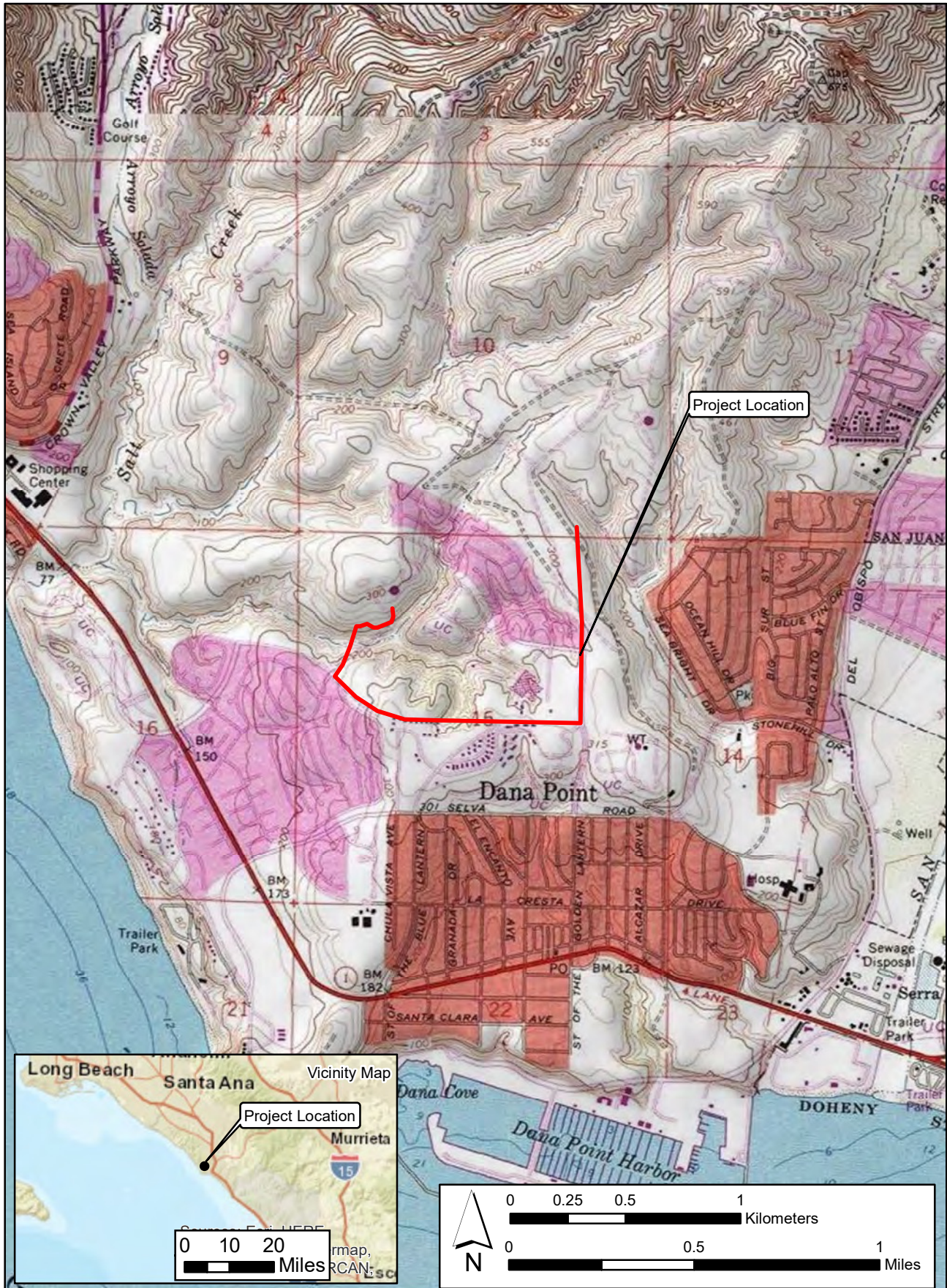
The APE consists of the limits of the project site, and includes the area within which significant impacts or adverse effects to historical resources or historic properties could occur as a result of the project. The APE consists of all areas where activities associated with the project are proposed, and in the case of the current project, equals the APE shown in Figure 1 and Appendix A. The route that constitutes the project area travels through residential neighborhoods, past Dana Hills High School, and through Monarch Beach Park. More specifically, the project route begins in the northeast at the intersection of Golden Lantern and Josiah Drive, travels south along Golden Lantern, west on Stonehill Drive, north on Monarch Beach Drive, and east along the unpaved trail that crosses Monarch Beach Park. The project or undertaking will involve the installation of 9,125 linear feet water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. A 10 by 15-foot pressure reducing station will also be installed within the alignment. Excavation for the pressure reducing station will not exceed approximately six feet in depth. The total horizontal area of proposed ground disturbance (i.e. horizontal APE) will equal approximately 45,625 square feet (1.05 acres), and the vertical APE is not anticipated to exceed approximately five feet in depth and approximately five feet in height. The project will not introduce any elements into the visual setting that are not already present, and therefore visual impacts are not anticipated.

NATURAL SETTING

The area is derived from several geological units including (Tan 1999):

- Younger (Holocene, not active) alluvial flood plain deposit; unconsolidated sediments; sandy silts with some clay.
- Holocene Landslide deposits; landslide, broken-up and weathered material, subject to renewed slope failure. Querried where existence is questionable.
- Capistrano Formation (Pliocene); siltstone facies; marine siltstone, mudstone, silty and diatomaceous shale, poorly to moderately consolidated, poorly bedded. With minor fine to medium grained sandstone beds and lenses, weakly cemented, poorly bedded.
- Capistrano Formation (Pliocene); turbidite facies; marine channel deposits consisting of coarse grained sandstone, conglomeratic sandstone, conglomerate, breccia and siltstone lenses; weakly cemented and poorly bedded.

Dana Point is located in the small peninsular range known as the Santa Ana Mountains, on the southern extent of the physiographic area known as the Los Angeles Basin. It is characterized as a transverse-oriented lowland basin and coastal plain. The basin originated



as a deep marine trough during the Pliocene (7-2 million years ago) that eventually filled with shallow water fossil bearing sediments. By the beginning of the Pleistocene (after 2 million years ago) uplifting created the series of plains and mesas along the coast that now characterize the area (Lambert 1994, Mendenhall 1905, Woodford et al. 1954).

Local rainfall ranges from 5 to 15 inches annually (Jaeger and Smith 1971: 36-37). Historically, regional flora was dominated by chaparral, coastal sage scrub, and riparian vegetation communities, although local urban and agricultural developments have severely reduced their modern proliferation. Key native plants included black sage, California brittlebush, California buckwheat, California sagebrush, deerweed, golden yarrow, laurel sumac, lemonadeberry, poison oak, purple sage, sticky monkeyflower, sugar bush, toyon, white sage, coastal century plant, coastal cholla, prickly-pear cactus, arroyo willow, and bulrush. These plants were utilized by local animal species, which included kangaroo rats, California horned lizard, orange-throated whiptail, San Diego horned lizard, brown-headed cowbird, California gnatcatcher, California quail, cactus wren, darkling beetle, harvester ant, and Palos Verdes blue butterfly (Williams et al. 2008:117,122). Peripheral species included deer, and various rodents, rabbits, and birds -many of which were utilized by prehistoric and historic inhabitants (Lightfoot and Parrish 2009).

CULTURAL SETTING

Prehistory

Various regional syntheses have been commonly utilized in the archaeological literature for southern California. The most widely cited include Wallace (1955) and Warren (1968 and 1986). Wallace defines four cultural horizons, each with characteristic local variations:

- Early Period (before 6000 B.C.)
- Milling Stone (6000 to 3000 B.C.)
- Intermediate (3000 B.C. to A.D. 500)
- Late Prehistoric (A.D. 500 to A.D. 1769).

Employing a more ecological model Warren (1968) defined three traditions, including:

- San Dieguito (pre 5500 B.C.)
- Encinitas (5500 B.C. to A.D. 600)
- Shoshonean (A.D. 600 to A.D. 1769).

Relying on data from more desert-based groups Warren defined five periods in his 1986 study:

- Lake Mojave (8000 to 5000 B.C.)
- Pinto (5000 to 2000 B.C.)
- Gypsum (2000 B.C. to A.D. 500)
- Saratoga Springs (A.D. 500 to 1200)
- Protohistoric (A.D. 1200 to 1769).

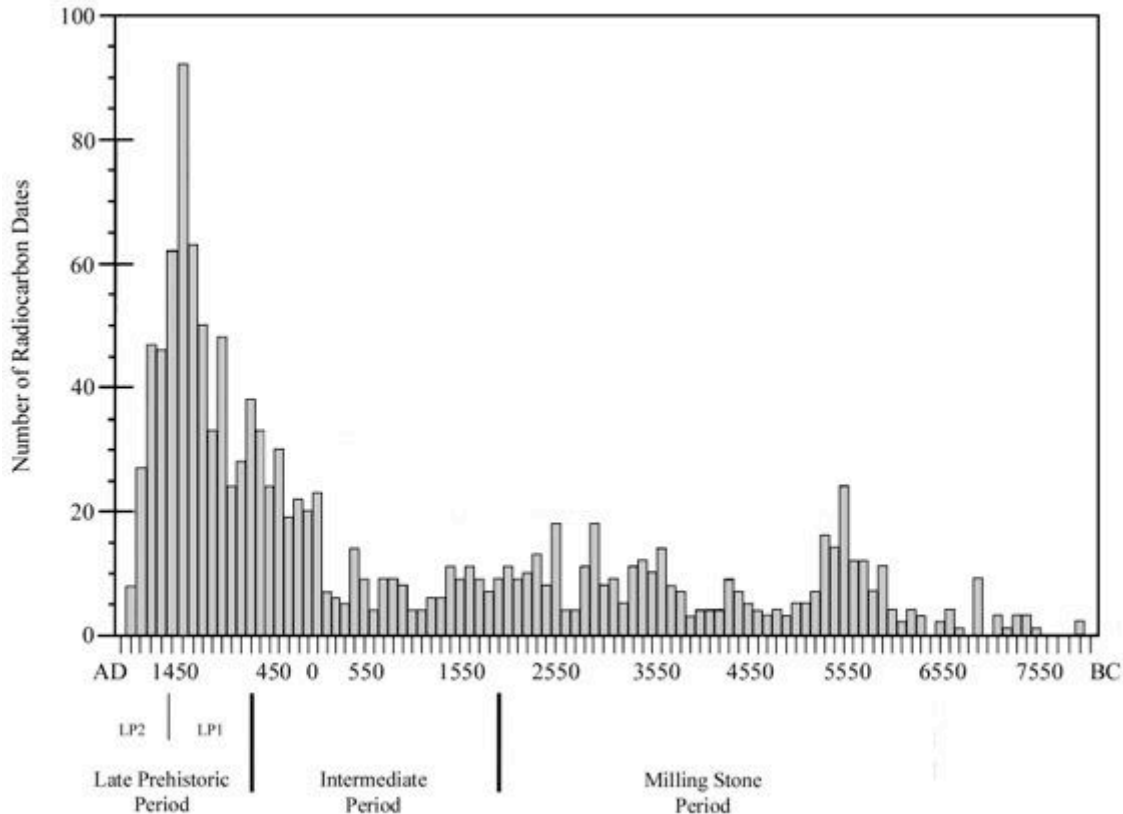
Although these references have provided useful overviews for southern California, updated studies more specific to the prehistory of coastal southern California (see Arnold 1990, 1991, 1992, 1995; Arnold et al. 1997; Raab and Larson 1997) are relevant to the current project area. The current study is synthesized from Mason et al. (1997), and Koerper et al. (2002). This regional focus is considered vital to Orange County prehistory because of the wealth of

reliably dated prehistoric sites recorded in area, ranging from 7550 B.C. to the late Late Prehistoric (Mason et al. 1997:35; Koerper et al. 2002:68). A temporal scheme has been formulated from data utilized by both studies, and is provided below in Table A. Mason et al. (1997) combine data from six sites excavated during the Newport Coast Archaeological Project (NCAP) with climatic and biogeographical information collected within the greater Orange County area to address the importance of:

- terrestrial/marine vertebrates versus shell-fish/plant utilization by Millingstone populations
- significant population fluctuations during the Early to Middle Holocene
- settlement transition and other adaptive strategies at the end of the Middle Holocene
- issues of prehistoric lithic trade.

They conclude that Middle Holocene site expansion along the Orange County coast is the result of new habitats containing important prehistoric food sources that flourished due to stabilizing sea levels between five and six thousand years ago (Mason et al. 1997:58). These habitats particularly included kelp beds containing sheephead fish, and sandy and muddy substrates that encouraged proliferation of cockles, scallops, oysters, bat rays, and guitar fish -each of which has been found in significant numbers during this era at various sites within NCAP (Mason et al. 1997:40-41). During the late Holocene population increase resulting from access to these food sources as well as terrestrial resources allowed further expansion into Orange County's interior.

Table A. Radiocarbon Dates/Periods from Sites in Orange County (Koerper et al. 2002:68)



As prehistoric populations spread throughout the Orange County area, their tool types and site remains indicate two settlement strategies. The first, known as the forager model, enabled whole groups to mobilize between residential bases as part of a seasonal round. This was commonly practiced during the Millingstone and early Intermediate Period. During the late Intermediate Period and the early Late Prehistoric Period, a functional hierarchy of site types appear, containing multi-season residential bases, minor residential bases, and single gender specialized activity locations. This indicates the second model, known as the collector (or village) model, in which residential bases remain the same or seasonal, while specialized procurement parties are deployed to collect resources and bring them back to base (Mason et al. 1997:52, 56; see also Binford 1980, and Thomas 1983).

In addition to site data, Koerper et al. (2002) utilize information from wetland salinity, climatic and hydrologic conditions, and artificial and natural resource depletion studies which link "demographic dynamics to subsistence intensification, territoriality, violent behavior, trade, and the further elaboration of status hierarchies during the late Holocene in Orange County" (Koerper et al. 2002:63). This approach has underscored the importance of punctuated environmental events, such as the capricious coursing of local drainage systems often catalyzed by the commencement and/or termination of droughts (i.e. the Medieval Climatic Anomaly and the Little Ice Age). Having occurred within relatively short time frames, these events are posited to give rise to a model of dramatic cultural shift rather than one of gradualism, and have been confirmed by correlating radiocarbon dates utilized in the local prehistoric chronology (Table A).

Dramatic shift is particularly evident between ca. 2000 and 1000 B.C. when a decline in carbon-fourteen dates from the area indicated the disappearance of a population practicing a residential mobility pattern of foraging, the predominant adaptive strategy practiced during the mid-Holocene. The disappearance of this group is highly correlated with very dry conditions, as indicated by pollen studies (Koerper et al. 2002:79), and people do not reappear in this area in significant numbers until circa 1000 B.C., at which point fewer, more highly concentrated settlements appear. Some resource intensification is apparent during the ensuing generations, and by the beginning of the Late Prehistoric is confirmed by the expanding use of shellfish recovered in context as far as six kilometers from its origin at Newport Bay. Resource intensification is often a sign of a shortage of preferred or customary resources brought about by a rise in population and/or other factors. Such a rise in population certainly occurred by A.D. 600, peaking circa A.D. 1300 (see Table A), and is correlated with the local advent of the bow and arrow, which may have been brought by Takic speakers from the Southwest (Koerper et al. 2002:80).

Native Orange County populations began to decline during the late Late Prehistoric prior to any likely effects of European disease. Koerper et al. suggests that rather than exceeding the land's carrying capacity, this decline in the Orange County area was due to a failure of "food yields...to increase in proportion to the additional investments of energy expended in subsistence labor" (Koerper et al. 2002:80; see also Halstead and O'Shea 1989; Hayden 1990). This has been further supported by oral tradition, which suggests that people were driven to leave food procurement areas due to incongruities between population and

resources (ibid), which gave rise to the patterns whose rudiments remained at the time of European contact.

Ethnography

Gabrielino. The Gabrielino probably first encountered Europeans when Spanish explorers reached California's southern coast during the 15th and 16th centuries (Bean and Smith 1978; Kroeber 1925). The first documented encounter, however, occurred in 1769 when Gaspar de Portola's expedition crossed Gabrielino territory (Bean and Smith 1978). Other brief encounters took place over the years, and are documented in McCawley 1996 (citing numerous sources). The Gabrielino name has been attributed by association with the Spanish mission of San Gabriel, and refers to a subset of people sharing speech and customs with other Cupan speakers (such as the Juaneño/Luiseño/Ajachemem) from the greater Takic branch of the Uto-Aztecan language family (Bean and Smith 1978).

Gabrielino villages occupied the watersheds of various rivers (locally including the Santa Ana) and intermittent streams. Chiefs were usually descended through the male line and often administered several villages. Gabrielino society was somewhat stratified and is thought to have contained three hierarchically ordered social classes which dictated ownership rights and social status and obligations (Bean and Smith 1978:540-546). Plants utilized for food were heavily relied upon and included acorn-producing oaks, as well as seed-producing grasses and sage. Animal protein was commonly derived from rabbits and deer in inland regions, while coastal populations supplemented their diets with fish, shellfish, and marine mammals (Boscana 1933, Heizer 1968, Johnston 1962, McCawley 1996). Dog, coyote, bear, tree squirrel, pigeon, dove, mud hen, eagle, buzzard, raven, lizards, frogs, and turtles were specifically not utilized as a food source (Kroeber 1925:652).

History

In Southern California, the historic era is generally divided into three periods: the Spanish or Mission Period (1769 to 1821), the Mexican or Rancho Period (1821 to 1848), and the American Period (1848 to present).

Spanish Period. The first European to pass through the area is thought to be a Spaniard called Father Francisco Garces. Having become familiar with the area, Garces acted as a guide to Juan Bautista de Anza, who had been commissioned to lead a group across the desert from a Spanish outpost in Arizona to set up quarters at the Mission San Gabriel in 1771 near what today is Pasadena (Beck and Haase 1974). Garces was followed by Alta California Governor Pedro Fages, who briefly explored the region in 1772 (Beck and Haase 1974).

Mexican Period. In 1821, Mexico overthrew Spanish rule and the missions began to decline. By 1833, the Mexican government passed the Secularization Act, and the missions, reorganized as parish churches, lost their vast land holdings, and released their neophytes (Beattie and Beattie 1974).

American Period. The American Period, 1848–Present, began with the Treaty of Guadalupe Hidalgo. In 1850, California was accepted into the Union of the United States primarily due to the population increase created by the Gold Rush of 1849. The cattle industry reached its greatest prosperity during the first years of the American Period. Mexican Period land grants had created large pastoral estates in California, and demand for beef during the Gold Rush led to a cattle boom that lasted from 1849–1855. However, beginning about 1855, the demand

for beef began to decline due to imports of sheep from New Mexico and cattle from the Mississippi and Missouri Valleys. When the beef market collapsed, many California ranchers lost their ranchos through foreclosure.

A series of disastrous floods in 1861–1862, followed by a significant drought further diminished the economic impact of local ranching. This decline combined with ubiquitous agricultural and real estate developments of the late 19th century, set the stage for diversified economic pursuits that have continued to proliferate to this day (Beattie and Beattie 1974; Cleland 1941).

PERSONNEL

David Brunzell, M.A., RPA acted as the Project Manager and Principal Investigator for the current study. Mr. Brunzell also compiled the technical report, and provided oversight. BCR Consulting Staff Archaeologist Mr. Nicholas Shepetuk conducted the cultural resources records search at the South Central Coastal Information Center (SCCIC) located at California State University, Fullerton. Mr. Shepetuk also completed the field assessment, sent letters to Native American entities, and contributed to the technical report.

METHODS

Records Search

Prior to fieldwork, an archaeological records search was conducted at the SCCIC. This included a review of all recorded historic and prehistoric cultural resources, as well as a review of known cultural resources, and survey and excavation reports generated from projects completed within one mile of the project site. In addition, a review was conducted of the National Register of Historic Places (National Register), the California Register of Historical Resources (California Register), and documents and inventories from the California Office of Historic Preservation including the lists of California Historical Landmarks, California Points of Historical Interest, Listing of National Register Properties, and the Inventory of Historic Structures.

Field Survey

An archaeological pedestrian field survey of the project site was conducted on May 7, 2018. The survey was conducted by walking parallel transects spaced approximately 15 meters apart across 100 percent of the unpaved portions of the project site. Soil exposures, including natural and artificial clearings were carefully inspected for evidence of cultural resources.

RESULTS

Records Search

Data from the SCCIC revealed that 92 cultural resource studies have taken place resulting in the recording of 61 cultural resources within a one-mile radius of the APE. Two of the 92 previous studies have assessed the northern portion of the APE's eastern-most alignment and no cultural resources have been previously recorded within its boundaries. The nearest resource is a prehistoric artifact scatter designated P-30-371, located immediately adjacent to the south of the western portion of the APE. The resource locations and studies that have previously assessed portions of the APE are depicted in Appendix A. The records search is summarized as follows:

Table B. Cultural Resources and Reports Located Within One Mile of the APE

USGS 7.5 Minute Quadrangle	Cultural Resources Within One Mile of APE	Studies Within One Mile of APE
<p><i>Dana Point, California (1975)</i></p>	<p><u>Archaeological Sites</u> P-30-11: prehistoric lithic scatter (3/4 mile W) P-30-12: prehistoric midden with artifacts (1 mile W) P-30-128: shell scatter (3/4 mile W) P-30-182: prehistoric artifact scatter w/bone (1/2 mile W) P-30-371: prehistoric artifact scatter (adjacent S) P-30-434: prehistoric artifact scatter (adjacent E) P-30-484: prehistoric artifacts in road cut (3/4 mile E) P-30-568: midden with some shell (1 mile NW) P-30-603: milling stone fragments (1/4 mile S) P-30-642: prehistoric artifact scatter (1/2 mile N) P-30-1108: prehistoric lithic scatter (1/2 mile N) P-30-100155: prehistoric isolate (3/4 mile N) P-30-100156: prehistoric isolate (3/4 mile N) P-30-100157: prehistoric isolate (3/4 mile NE)</p> <p><u>Historic-Period Buildings (1/4 to 3/4 mile S/SE of APE)</u> P-30-156522: historic period residence P-30-156523: 1928 Spanish Colonial Revival house P-30-156524: 1928 Spanish Colonial Revival house P-30-156525: 1928 Spanish Colonial Revival house P-30-156528: 1930 Dana Point Inn Ruins P-30156530: 1928 Spanish Colonial Revival house P-30-156531: 1929 Spanish Colonial Revival house P-30-156532: 1928 Spanish Colonial Revival house P-30-156533: 1928 Spanish Colonial Revival house P-30-156534: 1928 Spanish Colonial Revival house P-30-156535: 1928 Spanish Colonial Revival house P-30-156538: 1930 Spanish Colonial Revival house P-30-156539: 1928 Spanish Colonial Revival house P-30-156540: 1928 Spanish Colonial Revival house P-30-156541: 1928 Spanish Colonial Revival house P-30-156542: 1929 Spanish Colonial Revival house P-30156543: 1928 Spanish Colonial Revival house P-30-156544: 1928 Spanish Colonial Revival house P-30-177499: 1914 Prarie-Style house P-30-177509: 1942 Colonial Revival Hotel Complex P-30-177548: 1928 Provincial Revival house P-30-177549: 1929 Spanish Colonial Revival house P-30-177550: 1928 Spanish Colonial Revival house P-30-177551: 1929 Spanish Colonial Revival house P-30-177552: 1928 Spanish Colonial Revival house P-30-177573: 1940 house P-30-177564: 1928 Spanish Colonial Revival house P-30-177565: 1929 Spanish Colonial Revival house P-30-177566: 1929 Spanish Colonial Revival house</p>	<p>OR-21, 51, 93, 107, 119, 122, 128, 130, 131, 145, 146, 149, 150, 152, 154, 155, 156, 158, 159*, 161, 173, 175, 177, 181, 231, 256, 296, 354, 372, 439, 450, 490, 512, 537, 540, 542, 633, 680, 691, 733, 792, 823, 850, 874, 900, 902, 947, 973, 994, 1014*, 1041, 1140, 1186, 1204, 1241, 1299, 1373, 1447, 1465, 1616, 1738, 1850, 1974, 2014, 2053, 2055, 2312, 2316, 2318, 2567, 2870, 2872, 2873, 2874, 2878, 2925, 3318, 3324, 3435, 3373, 3832, 3826, 4016, 4193, 4283, 4309, 4331, 4371, 4456, 4458, 4580, 7921</p>

USGS 7.5 Minute Quadrangle	Cultural Resources Within One Mile of APE	Studies Within One Mile of APE
	P-30-177567: 1930 Spanish Colonial Revival house P-30-177568: 1929 Spanish Colonial Revival house P-30-177570: 1929 Spanish Colonial Revival house P-30-177571: 1929 Spanish Colonial Revival house P-30-177572: 1940 house P-30-177574: 1948 Ranch-Style House P-30-177575: 1928 Spanish Colonial Revival house P-30-177576: 1930 Spanish Colonial Revival house P-30-177577: 1928 Spanish Colonial Revival house P-30-177579: 1925 Commercial Structure P-30-177580: 1937 Spanish Colonial Revival house P-30-177581: 1929 Provincial Revival house P-30-177582: 1928 Spanish Colonial Revival house P-30-177588: 1929 Office Building P-30-177596: 1930 Spanish Colonial Revival hotel P-30-177597: 1928 Spanish Colonial Revival house P-30-177608: Blue Lantern Lookout Park gazebo P-30-177660: 1964-1973 JB Latham Treatment Plant	

*Previously assessed a portion of the APE.

Field Survey

During the field survey, Mr. Shepetuk carefully inspected the project site and identified no cultural resources within its boundaries. Surface visibility was low within most of the project site due to paved streets and sidewalks dominating the route. The portion of the project site that travels through Monarch Beach Park exhibited approximately 80 percent visibility. Sediments included sandy silts, with very few rocks. Ground disturbances resulted from mainly artificial factors related to the development of the roads and park.

RECOMMENDATIONS

BCR Consulting conducted a Cultural Resources Assessment of the Golden Lantern and Stonehill Drive Project in the City of Dana Point, Orange County, California. This work was completed pursuant to Section 106 of the NHPA, and to CEQA. The records search and field survey did not identify any cultural resources, including prehistoric or historic-period archaeological sites or historic-period buildings, within the APE. However, one previously recorded prehistoric archaeological site has been identified adjacent to the APE, and others in the area have locally yielded significant buried deposits. Therefore, BCR Consulting recommends archaeological monitoring for all project-related excavations associated with minimally disturbed sediments (as depicted in Appendix A). The monitor should work under the supervision of a Cultural Resource Professional that meets the U.S. Secretary of the Interior Professional Qualification Standards for Archaeology. In the event of an archaeological discovery, the monitor would have the authority to temporarily divert construction excavation in the vicinity of the find until it can be evaluated for significance. In case of accidental discoveries of historic or prehistoric resources during project-related excavation when an archaeological monitor is not present, work should cease and a U.S.

Secretary of the Interior Qualified Archaeologist should be notified to record and evaluate the find.

If human remains are encountered, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC.

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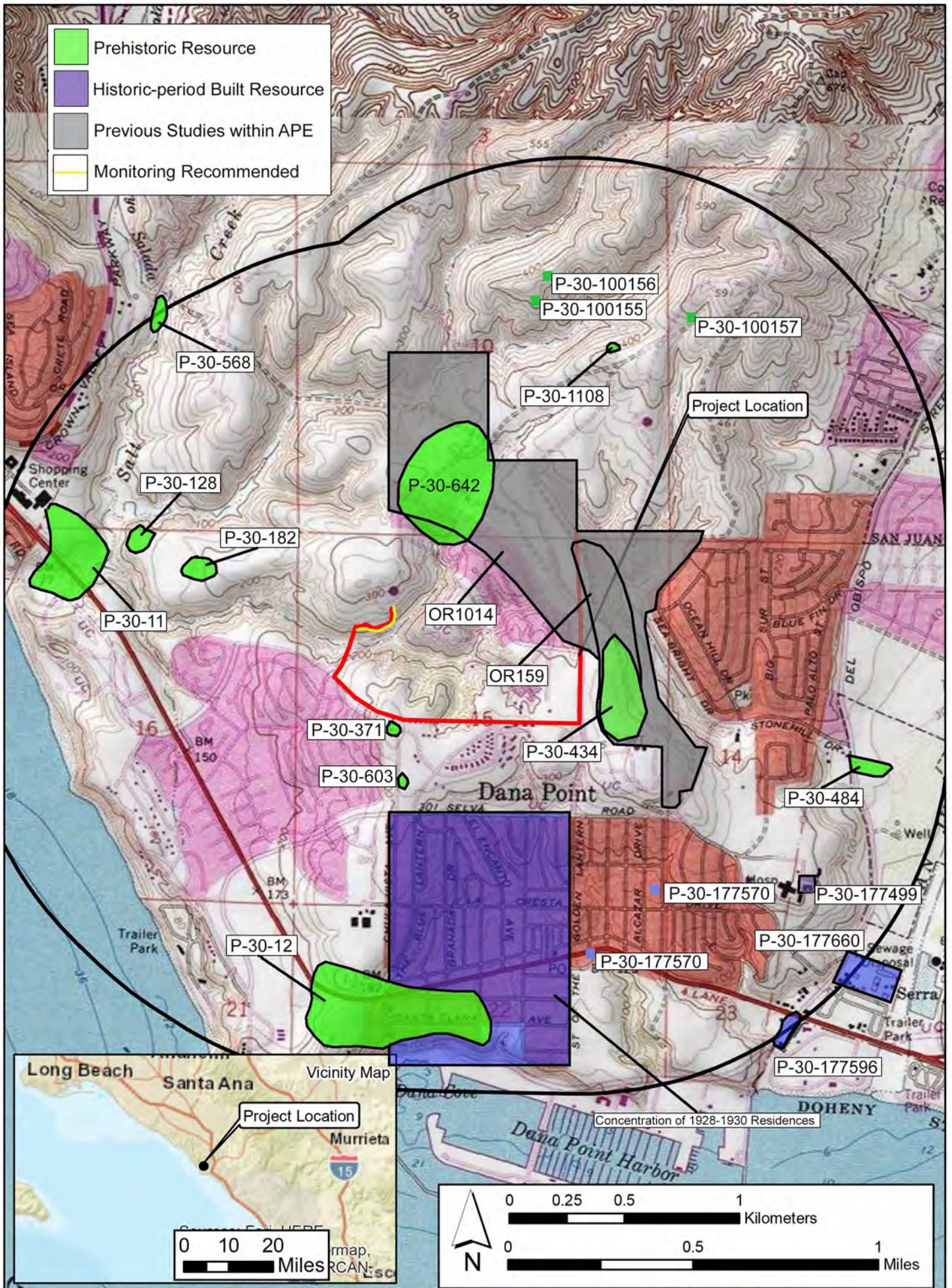
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United States Geological Survey

1975 *Dana Point, California* 7.5-minute topographic quadrangle map.

APPENDIX A

CONFIDENTIAL RESOURCE AND STUDY LOCATIONS



APPENDIX B
NATIVE AMERICAN CONSULTATION

NATIVE AMERICAN HERITAGE COMMISSION

Cultural and Environmental Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
(916) 373-3710



May 7, 2018

Nicholas Shepetuk
BCR Consulting, LLC

Sent by E-mail: nickshepetuk@gmail.com

RE: Proposed Golden Lantern and Stonehill Drive Project, City of Dana Point; Dana Point
USGS Quadrangle, Orange County, California

Dear Mr. Shepetuk:

A record search of the Native American Heritage Commission (NAHC) *Sacred Lands File* was completed for the area of potential project effect (APE) referenced above with negative results. Please note that the absence of specific site information in the *Sacred Lands File* does not indicate the absence of Native American cultural resources in any APE.

Attached is a list of tribes culturally affiliated to the project area. I suggest you contact all of the listed Tribes. If they cannot supply information, they might recommend others with specific knowledge. The list should provide a starting place to locate areas of potential adverse impact within the APE. By contacting all those on the list, your organization will be better able to respond to claims of failure to consult. If a response has not been received within two weeks of notification, the NAHC requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact via email: gayle.totton@nahc.ca.gov.

Sincerely,

A handwritten signature in cursive script that reads "Gayle Totton".

Gayle Totton, M.A., PhD.
Associate Governmental Program Analyst
(916) 373-3714

CONFIDENTIALITY NOTICE: This communication with its contents may contain confidential and/or legally privileged information. It is solely for the use of the intended recipient(s). Unauthorized interception, review, use or disclosure is prohibited and may violate applicable laws including the Electronic Communications Privacy Act. If you are not the intended recipient, please contact the sender and destroy all copies of the communication.

**Native American Heritage Commission
Native American Contact List
Orange County
5/7/2018**

Campo Band of Mission Indians

Ralph Goff, Chairperson
36190 Church Road, Suite 1 Kumeyaay
Campo, CA, 91906
Phone: (619) 478 - 9046
Fax: (619) 478-5818
rgoff@campo-nsn.gov

Ewiaapaayp Tribal Office

Robert Pinto, Chairperson
4054 Willows Road Kumeyaay
Alpine, CA, 91901
Phone: (619) 445 - 6315
Fax: (619) 445-9126
wmicklin@leaningrock.net

Ewiaapaayp Tribal Office

Michael Garcia, Vice Chairperson
4054 Willows Road Kumeyaay
Alpine, CA, 91901
Phone: (619) 445 - 6315
Fax: (619) 445-9126
michaelg@leaningrock.net

Gabrieleno Band of Mission Indians - Kizh Nation

Andrew Salas, Chairperson
P.O. Box 393 Gabrieleno
Covina, CA, 91723
Phone: (626) 926 - 4131
admin@gabrielenoindians.org

Gabrieleno/Tongva San Gabriel Band of Mission Indians

Anthony Morales, Chairperson
P.O. Box 693 Gabrieleno
San Gabriel, CA, 91778
Phone: (626) 483 - 3564
Fax: (626) 286-1262
GTtribalcouncil@aol.com

Gabrielino /Tongva Nation

Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., Gabrielino
#231
Los Angeles, CA, 90012
Phone: (951) 807 - 0479
sgoad@gabrielino-tongva.com

Gabrielino Tongva Indians of California Tribal Council

Robert Dorame, Chairperson
P.O. Box 490 Gabrielino
Bellflower, CA, 90707
Phone: (562) 761 - 6417
Fax: (562) 761-6417
gtongva@gmail.com

Gabrielino-Tongva Tribe

Charles Alvarez,
23454 Vanowen Street Gabrielino
West Hills, CA, 91307
Phone: (310) 403 - 6048
roadkingcharles@aol.com

Jamul Indian Village

Erica Pinto, Chairperson
P.O. Box 612 Kumeyaay
Jamul, CA, 91935
Phone: (619) 669 - 4785
Fax: (619) 669-4817
mohusky@jiv-nsn.gov

Juaneno Band of Mission Indians

Sonia Johnston, Chairperson
P.O. Box 25628 Juaneno
Santa Ana, CA, 92799
sonia.johnston@sbcglobal.net

Juaneno Band of Mission Indians Acjachemen Nation - Belardes

Matias Belardes, Chairperson
32161 Avenida Los Amigos Juaneno
San Juan Capistrano, CA, 92675
Phone: (949) 293 - 8522
kaamalam@gmail.com

Juaneno Band of Mission Indians Acjachemen Nation - Belardes

Joyce Perry, Tribal Manager
4955 Paseo Segovia Juaneno
Irvine, CA, 92603
Phone: (949) 293 - 8522
kaamalam@gmail.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Golden Lantern and Stonehill Drive Project, Orange County.

**Native American Heritage Commission
Native American Contact List
Orange County
5/7/2018**

**Juaneno Band of Mission
Indians Acjachemen Nation -
Romero**

Teresa Romero, Chairperson
31411-A La Matanza Street Juaneno
San Juan Capistrano, CA, 92675
Phone: (949) 488 - 3484
Fax: (949) 488-3294
tromero@juaneno.com

**San Pasqual Band of Mission
Indians**

John Flores, Environmental
Coordinator
P. O. Box 365 Kumeyaay
Valley Center, CA, 92082
Phone: (760) 749 - 3200
Fax: (760) 749-3876
johnf@sanpasqualtribe.org

**La Posta Band of Mission
Indians**

Gwendolyn Parada, Chairperson
8 Crestwood Road Kumeyaay
Boulevard, CA, 91905
Phone: (619) 478 - 2113
Fax: (619) 478-2125
LP13boots@aol.com

**San Pasqual Band of Mission
Indians**

Allen E. Lawson, Chairperson
P.O. Box 365 Kumeyaay
Valley Center, CA, 92082
Phone: (760) 749 - 3200
Fax: (760) 749-3876
allenl@sanpasqualtribe.org

**La Posta Band of Mission
Indians**

Javaughn Miller, Tribal
Administrator
8 Crestwood Road Kumeyaay
Boulevard, CA, 91905
Phone: (619) 478 - 2113
Fax: (619) 478-2125
jmiller@LPtribe.net

**Sycuan Band of the Kumeyaay
Nation**

Lisa Haws, Cultural Resources
Manager
1 Kwaaypaay Court Kumeyaay
El Cajon, CA, 92019
Phone: (619) 312 - 1935
lhaws@sycuan-nsn.gov

**Manzanita Band of Kumeyaay
Nation**

Angela Elliott Santos, Chairperson
P.O. Box 1302 Kumeyaay
Boulevard, CA, 91905
Phone: (619) 766 - 4930
Fax: (619) 766-4957

**Sycuan Band of the Kumeyaay
Nation**

Cody J. Martinez, Chairperson
1 Kwaaypaay Court Kumeyaay
El Cajon, CA, 92019
Phone: (619) 445 - 2613
Fax: (619) 445-1927
ssilva@sycuan-nsn.gov

**Pauma Band of Luiseno Indians
- Pauma & Yuima Reservation**

Temet Aguilar, Chairperson
P.O. Box 369 Luiseno
Pauma Valley, CA, 92061
Phone: (760) 742 - 1289
Fax: (760) 742-3422
bennaecalac@aol.com

**Viejas Band of Kumeyaay
Indians**

Robert Welch, Chairperson
1 Viejas Grade Road Kumeyaay
Alpine, CA, 91901
Phone: (619) 445 - 3810
Fax: (619) 445-5337
jhagen@viejas-nsn.gov

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Golden Lantern and Stonehill Drive Project, Orange County.

**Native American Heritage Commission
Native American Contact List
Orange County
5/7/2018**

***Viejas Band of Kumeyaay
Indians***

Julie Hagen,
1 Viejas Grade Road
Alpine, CA, 91901
Phone: (619) 445 - 3810
Fax: (619) 445-5337
jhagen@viejas-nsn.gov

Kumeyaay

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Golden Lantern and Stonehill Drive Project, Orange County.

Native American Consultation Summary for the Golden Lantern and Stonehill Drive Project, Dana Point, Orange County.

Native American Heritage Commission replied to BCR Consulting LLC request on May 7, 2018. Results of Sacred Land File Search **did not indicate** presence of Native American cultural resources, and recommended that the below entities be contacted.

Groups Contacted	Letter/Email Date	Response from Tribes
Ralph Goff, Chairperson Campo Band of Mission Indians	Letter: 5/21/18 Email: 5/21/18	None
Robert Dorame Gabrielino Tongva Indians of California Tribal Council	Letter: 5/21/18 Email: 5/21/18	None
Robert Pinto, Chairperson Ewiiapaayp Tribal Office	Letter: 5/21/18 Email: 5/21/18	None
Charles Alvarez Gabrielino-Tongva Tribe	Letter: 5/21/18 Email: 5/21/18	None
Michael Garcia, Vice Chairperson Ewiiapaayp Tribal Office	Letter: 5/21/18 Email: 5/21/18	None
Erica Pinto, Chairperson Jamul Indian Village	Letter: 5/21/18 Email: 5/21/18	None
Andrew Salas, Chairperson Gabrieleno Band of Mission Indians -Kizh Nation	Letter: 5/21/18 Email: 5/21/18	None
Sonia Johnston, Chairperson Juaneno Band of Mission Indians	Letter: 5/21/18 Email: 5/21/18	None
Anthony Morales, Chairperson Gabrieleno/Tongva San Gabriel Band of Mission Indians	Letter: 5/21/18 Email: 5/21/18	None
Matias Belardes, Chairperson Juaneno Band of Mission Indians Acjachemen Nation	Letter: 5/21/18 Email: 5/21/18	None
Sandonne Goad, Chairperson Gabrielino/Tongva Nation	Letter: 5/21/18 Email: 5/21/18	None
Joyce Perry, Tribal Manager Juaneno Band of Mission Indians Acjachemen Nation	Letter: 5/21/18 Email: 5/21/18	None
Teresa Romero, Chairperson Juaneno Band of Mission Indians Acjachemen Nation	Letter: 5/21/18 Email: 5/21/18	None
John Flores, Environmental Coordinator San Pasqual Band of Mission Indians	Letter: 5/21/18 Email: 5/21/18	None
Gwendolyn Parada, Chairperson	Letter: 5/21/18	None

Groups Contacted	Letter/Email Date	Response from Tribes
La Posta Band of Mission Indians	Email: 5/21/18	
Allen E. Lawson, Chairperson San Pasqual Band of Mission Indians	Letter: 5/21/18 Email: 5/21/18	None
Javaughn Miller, Tribal Administrator La Posta Band of Mission Indians	Letter: 5/21/18 Email: 5/21/18	None
Lisa Haws, Cultural Resources Manager Sycuan Band of the Kumeyaay Nation	Letter: 5/21/18 Email: 5/21/18	None
Angela Elliot Santos, Chairperson Manzanita Band of Kumeyaay Nation	Letter: 5/21/18 Email: N/A	None
Cody J. Martinez, Chairperson Sycuan Band of the Kumeyaay Nation	Letter: 5/21/18 Email: 5/21/18	None
Temet Aguilar, Chairperson Pauma Band of Luiseno Indians-Pauma & Yuima Reservation	Letter: 5/21/18 Email: 5/21/18	None
Robert Welch, Chairperson Viejas Band of Kumeyaay Indians	Letter: 5/21/18 Email: 5/21/18	None
Julie Hagen Viejas Band of Kumeyaay Indians	Letter: 5/21/18 Email: 5/21/18	None



June 5, 2018

Ralph Goff
Chairperson
Campo Band of Mission Indians
36190 Church Road, Suite 1
Campo, CA 91906

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Mr. Chairperson:

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

USGS 7.5-Min Quadrangles	Township	Range	Section
<i>Dana Point, California (1975)</i>	8S	6W	Section 15

If you know of any cultural resources in the vicinity that may be of religious and/or cultural significance to your community or if you would like more information, please contact me at 909-525-7078 or david.brunzell@yahoo.com. Correspondence can also be sent to BCR Consulting LLC, Attn: David Brunzell, 505 West 8th Street, Claremont, California 91711. I request a response by June 25, 2018. If you require more time, please let me know. Thank you for your involvement in this process.

Sincerely,

BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Robert Dorame
Chairperson
Gabrielino Tongva Indians of California Tribal Council
PO Box 490
Bellflower, CA 90707

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Mr. Chairperson:

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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Sincerely,

BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Robert Pinto
Chairperson
Ewiiapaayp Tribal Office
4054 Willows Road
Alpine, CA 91901

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Mr. Chairperson:

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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Sincerely,

BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Charles Alvarez
Gabrielino Tongva Tribe
23454 Vanowen Street
West Hills, CA 91307

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Mr. Alvarez:

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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Sincerely,

BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Michael Garcia
Vice Chairperson
Ewiiapaayp Tribal Office
4054 Willows Road
Alpine, CA 91901

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Mr. Vice Chairperson:

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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Sincerely,

BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Erica Pinto
Chairperson
Jamul Indian Village
PO Box 612
Jamul, CA 91935

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Ms. Chairperson :

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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Sincerely,

BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Andrew Salas
Chairperson
Gabrieleno Band of Mission Indians – Kizh Nation
PO Box 393
Covina, CA 91723

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Mr. Chairperson:

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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Sincerely,

BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Sonia Johnston
Chairperson
Juaneno Band of Mission Indians
PO Box 25628
Santa Ana, CA 92799

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Ms. Chairperson:

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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Sincerely,

BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Anthony Morales
Chairperson
Gabrieleno/Tongva San Gabriel Band of Mission Indians
PO Box 693
San Gabriel, CA 91778

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Mr. Chairperson:

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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Sincerely,

BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Matias Belardes
Chairperson
Juaneno Band of Mission Indians Acjachemen Nation
32161 Avenida Los Amigos
San Juan Capistrano, CA 92675

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Mr. Chairperson:

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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Sincerely,

BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Sandonne Goad
Chairperson
Gabrielino/Tongva Nation
106 1/2 Judge John Aiso St., #231
Los Angeles, CA 90012

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Ms. Chairperson:

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Joyce Perry
Tribal Manager
Juaneno Band of Mission Indians Acjachemen Nation
4955 Paseo Segovia
Irvine, CA 92603

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Ms. Perry :

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Teresa Romero
Chairperson
Juaneno Band of Mission Indians Acjachemen Nation - Romero
31411 A La Matanza Street
San Juan Capistrano, CA 92675

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Ms. Chairperson:

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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Sincerely,

BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

John Flores
Environmental Coordinator
San Pasqual Band of Mission Indians
PO Box 365
Valley Center, Ca 92082

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Mr. Flores :

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Gwendolyn Parada
Chairperson
La Posta Band of Mission Indians
8 Crestwood Road
Boulevard, CA 91905

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Ms. Chairperson :

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Allen E Lawson
Chairperson
San Pasqual Band of Mission Indians
PO Box 365
Valley Center, California 92082

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Mr. Chairperson:

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BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Javaughn Miller
Tribal Administrator
La Posta Band of Mission Indians
8 Crestwood Road
Boulevard, California 91905

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Tribal Administrator:

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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Sincerely,

BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Lisa Haws
Cultural Resources Manager
Sycuan Band of the Kumeyaay Nation
1 Kwaaypaay Court
El Cajon, CA 92019

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Ms. Haws:

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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Sincerely,

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David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Angela Elliot Santos
Chairperson
Manzanita Band of Kumeyaay Nation
P.O. Box 1302
Boulevard, CA 91905

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Ms. Chairperson:

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David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Cody J. Martinez
Chairperson
Sycuan Band of the Kumeyaay Nation
1 Kwaaypaay Court
El Cajon, CA 92019

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

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BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Temet Aguilar
Chairperson
Pauma Band of Luiseno Indians – Pauma & Yuima Reservation
PO Box 369
Pauma Valley, CA 92061

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Chairperson Aguilar:

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Robert Welch
Chairperson
Viejas Band of Kumeyaay Indians
1 Viejas Grade Road
Alpine, CA 91901

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Mr. Chairperson:

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BCR Consulting LLC

David Brunzell, M.A./RPA
Principal Investigator/Archaeologist
Attachment: USGS Maps



June 5, 2018

Julie Hagen
Viejas Band of Kumeyaay Indians
1 Viejas Grade Road
Alpine, CA 91901

Subject: Tribal Consultation for the Golden Lantern and Stonehill Drive Project, in the City of Dana Point, Orange County, California

Dear Ms. Hagen :

This is an invitation to offer input on a project located in an area with which you have tribal cultural affiliation. The proposed project will install 9,125 linear feet of water pipe in a trench that will be excavated at approximately five feet in depth and five feet in width. This invitation is intended to ensure the protection of Native American cultural resources on which the proposed action may have an impact. During this process, early communication is encouraged to provide for full and reasonable input from Native American groups and individuals. We understand that your response may be confidential and may include information related to Native American cultural resources such as burial sites, known or unknown, architectural features and artifacts, ceremonial sites, sacred shrines, and cultural landscapes. The project is located as follows (maps attached).

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APPENDIX C
PROJECT PHOTOGRAPHS



Photo 1. Josiah Drive at Golden Lantern (View NE)



Photo 2. Monarch Beach Park Trail (View E)

**Comment Letters Received
and
Responses to Comments**

Comment Letter #1: **Native American Heritage Commission** September 5, 2017 (letter attached).

Response: Thank you for calling attention to the recent “Final Text for tribal cultural resources update to Appendix G: Environmental Checklist Form”. District Staff have reviewed the Tribal Cultural Resources items recently added to the CEQA Checklist and have determined that the proposed Infrastructure Master Plan (IMP) Projects would have no impact to tribal cultural resources as described below. No additional mitigation measures are necessary to protect tribal cultural resources.

Tribal Cultural Resources	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

The general surrounding area of the proposed IMP Projects are considered potentially sensitive for tribal cultural resources; however, proposed IMP Project areas are located within roads and existing District sites that have been previously excavated, graded and otherwise disturbed. Potential project impacts to tribal cultural resources are discussed below:

a/b) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

A Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k). *or,*

A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

No Impact. Proposed IMP Project areas are located within roads and existing District sites that have been previously excavated, graded and otherwise disturbed. Based on this, the chances of encountering or disturbing a tribal cultural resource, sacred place, objects of cultural value, or buried human remains during the project work is unlikely and the proposed IMP Projects would have no impact on tribal cultural resources. No mitigation measures are necessary.

Comment Letter #2: **California Department of Transportation (Caltrans)** September 22, 2017 (letter attached).

Response: Thank you for your review and comments on the Proposed Mitigated Negative Declaration for the Infrastructure Master Plan Update for Capital Improvement Projects. The District is fully aware of Caltrans transportation facilities within the District's service area and appreciates the cooperation of Caltrans on several recent projects involving SR1 and I-5. Initial Study Section 4.0 Permits and Approvals draws attention to the discretionary approvals that Caltrans may have when implementing projects affecting Caltrans facilities. As is its practice, the District will continue to inform and cooperate with Caltrans to address traffic operations, hydraulics, encroachment permit acquisition, coordination with Caltrans Project Management, and implementation of the latest environmental guidance for the proposed CI projects.