Attachment C: Tables 1 – 5 4. Impacts to waters of the U.S. based on vegetation type (supplemental 401 application information in November 1, 2010 letter from ICF to the State Water Resources Control Board).

Note: Table 5 4 contains mitigation requirements for the Project.

Table 1: Major construction - Towers/Line undergrounding/Road Widening

					Impacts on '	Vegetation	_		
				Tempo	orary	Permanent			
Project Description	Feature ID	Species	Vegetation Type	Acres	Linear Feet	Acres	Linear Feet	Mitigation/ Watershed	
Towers		•	·						
NEW IMPACT – This feature will be temporarily and permanently impacted at Structure 4. Although the tower footings will not be places in the drainage, SCE maintains a 50-foot buffer around each tower for vegetation removal and access during operations.	7-3-S-2	Migratory Birds	Coastal Sage Scrub	0.003	129	0.001	25	Non-Federal/ Los Angeles San Gabriel Watershed	
NEW IMPACT – This feature will be temporarily and permanently impacted at Structure 4. Although the tower footings will not be places in the drainage, SCE maintains a 50-foot buffer around each tower for vegetation removal and access during operations.	7-3-S-7	Migratory Birds	Coastal Sage Scrub	0.001	31	0.001	55	Non-Federal/ Los Angeles San Gabriel Watershed	
P7-1 – UPDATED IMPACT AREA This feature would be temporarily and permanently impacted by	7-8-S-3	Migratory Birds	Riversidean Alluvial Fan Sage Scrub	0.18	150	0.008	50	Federal/ Los Angeles San Gabriel Watershed	
the construction of Structure 15 M30-T1. The existing tower pad would be extended 30 feet northeast into jurisdictional waters to accommodate the new structure location. The pad would consist of clean fill material and rock similar to the existing tower pad. The existing tower would be removed.			Disturbed/Developed	0.32		0.009			
NEW IMPACT – This feature will be temporarily and permanently	7-10-S-2	None	Mule Fat Scrub	0.01	100	0	0	Federal/	
impacted by the removal and replacement of Structure 21. Although the tower footings will not be places in the drainage, SCE maintains a 50-foot buffer around each tower for vegetation removal and access during operations.			Disturbed/Developed	0.01		0.001		Los Angeles San Gabriel Watershed	
NEW IMPACT – This feature will be temporarily impacted at a pulling site. Following construction, the drainage will be restored to pre-project contours and revegetated.	8-11-S-3	Coastal California Gnatcatcher	Coastal sage scrub	0.01	107	0	0	Non-Federal/ Los Angeles San Gabriel Watershed	
NEW IMPACT - This feature will be temporarily impacted at a	8-11-S-4	Coastal California	Coastal sage scrub	0.001	139	0	0	Non-Federal/	
pulling site. Following construction, the drainage will be restored to pre-project contours and revegetated.		Gnatcatcher	Ruderal Grassland	0.01		0	0	Los Angeles San Gabriel Watershed	
NEW IMPACT – This feature will be temporarily impacted at a	8-20A-S-2	Migratory Birds	Coast live oak woodland	0.003	58	0	0	Non-Federal/	
guard structure.			Disturbed/Developed	0.001		0	0	Los Angeles San Gabriel Watershed	
NEW IMPACT – This feature will be temporarily impacted at a guard structure. 8-3		Least Bell's Vireo and Migratory Birds	Southern Arroyo Willow Riparian Forest	0.003	50	0	0	Non-Federal/ Los Angeles San Gabriel Watershed	
P8-11 - UPDATED IMPACT AREA – This feature would be temporarily impacted during construction of Structure 80. Minor vegetation removal would be required but the new structure would not be located in jurisdictional waters.		Least Bell's Vireo and Migratory Birds	Mulefat Scrub	0.07	50	0	0	Non-Federal/ Los Angeles San Gabriel Watershed	

					Impacts on	Vegetation		
				Tempo	rary	Permanent		
Project Description	Feature ID	Species	Vegetation Type	Acres	Linear Feet	Acres	Linear Feet	Mitigation/ Watershed
NEW IMPACT – This feature will be temporarily and permanently	8-56-S-1	None.	Disturbed/Developed	0.003	200	0	0	Non-Federal/Santa Ana Watershed
impacted at Structure 131. Although the tower footings will not be places in the drainage, SCE maintains a 50-foot buffer around each tower for vegetation removal and access during operations.			Ruderal grassland	0.135		0.02	0	
NEW IMPACT – This feature will be permanently impacted at Structures M24-T1 and M57-T1. The drainage will be routed around the new towers and under the new access road via culverts.	8-33-S-200	None.	Coast Live Oak Woodland	<u>0</u>	<u>0</u>	<u>0.024</u>	346	Non-Federal/ Los Angeles San Gabriel Watershed
Road Widening							•	•
NEW IMPACT – The existing access road at this drainage crossing turns at an angle less than 50 degrees. Large construction equipment cannot navigate this turn radius. The existing access road will be widened 30 feet on the upstream side creating a 30x20 foot turning radius that will safely allow construction equipment to pass.	7-93-S-2	Least Bell's Vireo	Southern Willow Scrub	0.003	18	0.006	30	Non-Federal/ Los Angeles San Gabriel Watershed
P8-6 - UPDATED IMPACT AREA	8-14-S-2	Migratory Birds	Disturbed/Developed	0.002	18	0	0	Non-Federal/
This feature intersects an existing access road. Maintenance grading may be required to widen the road from approximately 12 feet in some areas to 18 feet to accommodate large construction	8-14-S-2		Southern Sycamore Alder Riparian Woodland	0.0004		0	0	Los Angeles San Gabriel Watershed
equipment. Tree trimming and removal of riparian vegetation would be required.	8-14-S-3		Coast Live Oak Woodland	0.0001	18	0	0	7
	8-14-S-4		Coast Live Oak Woodland	0.0001	18	0	0	
	8-14-S-8		Coast Live Oak Woodland	0.0002	18	0	0	
	8-14-S-9		Mulefat Scrub	0.001	18	0	0	
Underground work								
NEW IMPACT – This feature will be temporarily impacted by the installation of an underground 66kV vault and maintenance grading.	7-35-S-1	Least Bell's Vireo, Coastal California Gnatcatcher	Disturbed/Developed	0.001	18	0	0	Non-Federal/ Los Angeles San Gabriel Watershed
P8-13	8-50-S-1	Burrowing Owl and	Ruderal Grassland	0.09	954	0.001	0	Non-Federal/
This feature would be temporarily impacted during trenching activities related to the under-grounding of an existing 66kV line. Trenching and backfill by a backhoe or excavator would be required. Native soil material would be side-caste and used to backfill the trench following the placement of underground conduit.	8-50-S-2	Migratory Birds	Ruderal Grassland	0.06	1630	0.001	0	Santa Ana Watershed
NEW IMPACT – This feature will be temporarily impacted by the installation of an underground 66kV vault.	8-50-S-3	Potential Burrowing Owl	Disturbed/Developed	0.012	100	0	0	Non-Federal/ Santa Ana Watershed
TOTALS				<u>0.93</u>	<u>3,824</u>	0.044 0.044	160 506	

Table 2: New Roads

					Impacts on				
				Tempor	ary	Perman	ent		
Project Description	Feature ID	Species	Vegetation Type	Acres	Acres			Mitigation/ Watershed	
NEW IMPACT – This feature will be permanently impacted by the construction of a new access road to a wreck out site and temporary pulling site located between Structures 1 and 3. The new road will be contoured to direct flows across the natural (dirt) road surface maintaining the natural flow line to the greatest extent feasible.	7-2-S-3	Migratory Birds	Mixed Chaparral	0	0	0.0007 18		Non-Federal/ Los Angeles San Gabriel Watershed	
NEW IMPACT – This feature will be permanently impacted by the construction of a new access road to Structure 4. The new road will be contoured to direct flows across the natural (dirt) road surface maintaining the natural flow line to the greatest extent feasible.	7-3A-S-5	Migratory Birds	Coastal Sage Scrub	0	0	0.0004	18	Non-Federal/ Los Angeles San Gabriel Watershed	
NEW IMPACT – This feature will be permanently impacted by the construction of a new access road to Structure 4. The new road will be contoured to direct flows across the natural (dirt) road surface maintaining the natural flow line to the greatest extent feasible.	7-3-S-6	Migratory Birds	Coastal Sage Scrub	0	0	0.002	18	Non-Federal/ Los Angeles San Gabriel Watershed	
NEW IMPACT – This feature will be permanently impacted by the construction of a new access road to Structure 4. The new road will be contoured to direct flows across the natural (dirt) road surface maintaining the natural flow line to the greatest extent feasible.	7-3-S-8	Migratory Birds	Coastal Sage Scrub	0	0	0.015	18	Non-Federal/ Los Angeles San Gabriel Watershed	
P8-14 New access road over unvegetated roadside ditch. Crossing will be at-grade.	8-50-S-4	Potential Burrowing Owl and Migratory Birds	Unvegetated	0	0	0.004	18	Non-Federal/ Santa Ana Watershed	
TOTALS				0	0	0.02	90		

 Table 3: Existing Roads - These features intersect an existing access road. Maintenance grading may be required.

					Impacts on V			
				Tempo	rary	Perma	nent	
Project Description	Feature ID	Species	Vegetation Type	Acres	Linear Feet	Acres	Linear Feet	Mitigation
NEW IMPACT – The road is currently passable and no evidence of flow across the road is present. Maintenance grading may be required throughout the project as winter rain events may erode the existing access road.	7-2-S-12	None	Unvegetated	0.001	18	0	0	None
NEW IMPACT – The road is currently passable and no evidence of flow across the road is present. Maintenance grading may be required throughout the project as winter rain events may erode the existing access road.	7-2-S-13	None	Unvegetated	0.001	18	0	0	None
NEW IMPACT – The existing access road between Structure M41- T1 and Structure 64 is currently 12 foot wide and passable. Vegetation trimming may be required to allow the SCE-standard 14 foot wide access. Maintenance grading may be required throughout the project as winter rain events may erode the existing access road.	7-35-S-3	Least Bell's Vireo, Migratory Birds	Unvegetated/ Disturbed wetland	0.007	18	0	0	None
NEW IMPACT – The existing access road between Structure M41- T1 and Structure 64 is currently 12 foot wide and passable. Vegetation trimming may be required to allow the SCE-standard 14 foot wide access. Maintenance grading may be required throughout the project as winter rain events may erode the existing access road.	7-35-W-1	Least Bell's Vireo, Migratory Birds	Unvegetated	0.006	18	0	0	None
P7-3 Maintenance grading	7-37-S-1	Migratory Birds	Unvegetated	0.001	18	0	0	None
P7-6 – UPDATED IMPACT AREA Maintenance grading	7-39-S-2	Migratory Birds	Unvegetated	0.003	18	0	0	None
NEW IMPACT – The road is currently passable and no evidence of flow across the road is present. Maintenance grading may be required throughout the project as winter rain events may erode the existing access road.	7-93-S-1	None	Unvegetated	0.0004	18	0	0	None
P8-7 Maintenance grading	8-17-S-5	Coastal California Gnatcatcher, Coastal California Gnatcatcher Critical Habitat	Unvegetated	0.0002	18	0	0	None
NEW IMPACT – The road is currently passable. Maintenance grading may be required throughout the project as winter rain events may erode the existing access road.	8-19A-S-1	Coastal California Gnatcatcher	Unvegetated	0.002	18	0	0	None
NEW IMPACT – The road is currently passable. Maintenance grading may be required throughout the project as winter rain events may erode the existing access road.	8-19A-S-2	Coastal California Gnatcatcher	Unvegetated	0.001	18	0	0	None
P8-8 Maintenance grading	8-19-S-2	Migratory Birds, Coastal California Gnatcatcher Critical Habitat	Unvegetated	0.001	18	0	0	None
TOTALS				0.02	198	0	0	

Table 4: Total Impacts to Waters of the U.S. and the State, and Mitigation Requirements for Segments 7 & 8

Impacts per Habitat	Corps-O Lands	on Army wned	by the Arn	Not Owned ny Corps	Corps -(Lands	on Army Owned	Mitigation Ratios on Lands Not Owned by the Army Corps		Total Temp Mitigation	Total Perm. Mitigation	Total Mitigation
Туре	Temp.	Perm.	Temp.	Perm.	Temp.	Perm.	Temp.	Perm.	(acres)	(acres)	(acres) ¹
Non-riparian											
Coastal Sage Scrub			0.015	0.019	2:1	5:1	1:1	1.5:1	0.015	0.03	0.045
Coast Live Oak Woodland			0.003	_ 0.024	1:1	5:1	1:1	1.5:1	0.003	0 0.036	0.003 0.039
Disturbed/Developed ("Barren/Developed")	0.33	0.011	0.018	0	1:1 ³	1:1 ³	1:1 ³	1:1 ³	0.35	0.01	0.36
Mixed Chaparral				0.0007	1:1	3:1	1:1	1:1	0	0.0007	0.0007
Ruderal Grassland			0.295	0.022	1:1 ³	1:1 ³	1:1 ³	1:1 ³	0.30	0.02	0.32
Unvegetated ("Barren/Developed")	2	0.004			1:1 ³	1:1 ³	1:1 ³	1:1 ³	0	0.004	0.004
Subtotal	0.33	0.015	0.331	0.05 <u>0.0657</u>					0.668	0.07 <u>0.1007</u>	0.739 <u>0.7687</u>
Riparian											
Mulefat scrub	0.01		0.07		2:1	5:1	1:1	3:1	0.09	0	0.09
Riversidean Alluvial Fan Sage Scrub	0.18	0.008			2:1	5:1	1:1	3:1	0.36	0.04	0.40
Southern Arroyo Willow Riparian Forest			0.003		2:1	5:1	1:1	3:1	0.003	0	0.003
Southern Sycamore Alder Riparian Woodland			0.0004		2:1	5:1	1:1	3:1	0.0004	0	0.0004
Southern Willow Scrub			0.003	0.006	2:1	5:1	1:1	3:1	0.003	0.02	0.02
Subtotal	0.19	0.008	0.0764	0.006					0.4564	0.06	0.5134
TOTAL ⁴	0.52 ²	0.02	0.41	0.05 <u>0.07</u>					1.12	0.13 <u>0.17</u>	1.25 1.28 ¹

No mitigation is proposed for 0.02 acre of temporary impacts as a result of maintenance grading on existing access roads.

Summary of Total Impacts (including 0.02 acre of temporary impacts as a result of maintenance grading on existing access roads)

Segment	Temporary Impacts (acres) ⁴	Temporary Impacts (linear feet)	Permanent Impacts (acres) ⁴	Permanent Impacts (linear feet)	TOTAL Impacts⁴ acres (linear feet)
	(acres)	(iiiieai ieet)	(acres)	(iiiieai ieet)	acres (iliteat feet)
Segment 7	0.54	572	0.04	232	0.58 (804)
Segment 8	0.41	3,450	0.03 <u>0.05</u>	18 <u>354</u>	0.44 <u>0.46</u> (3,468 <u>3,804</u>)
TOTAL	0.95	4,022	0.07 <u>0.09</u>	250 <u>586</u>	1.02 1.04 (4,572 7,124)

^[1] ALL impacts to waters of the US and the State will be mitigated at the Upper Lemon Creek Mitigation Site (1.25 1.28 acres required).

^[2] This total excludes 0.02 acre of temporary impacts to unvegetated road crossings as these areas will not be mitigated.

^[3] Non-native habitats will be reseeded with a native seed mix. Barren areas will be mitigated at a 1:1 ratio if they are determined to support sensitive wildlife (i.e. burrowing owls, etc.)

^[4] Rounded to the nearest hundredth.