

Appendix D
Technical Data

Appendix D-1
Agriculture and Forest Resources Data

FMMP Summary Table

FMMP Impacts	Sum of Acres
Realignment	
Coburn	137.32
Permanent	27.46
Farmland of Statewide Importance	3.62
Grazing Land	1.27
Prime Farmland	21.71
Unique Farmland	0.86
Temporary	109.86
Farmland of Statewide Importance	10.48
Grazing Land	21.47
Prime Farmland	66.94
Unique Farmland	10.97
Getty/Bradley	91.15
Permanent	18.23
Grazing Land	18.23
Temporary	72.92
Grazing Land	72.92
Harlem/Metz	200.63
Permanent	40.89
Farmland of Statewide Importance	3.98
Grazing Land	6.34
Prime Farmland	28.23
Unique Farmland	2.34
Temporary	159.74
Farmland of Statewide Importance	14.41
Grazing Land	39.67
Prime Farmland	96.43
Unique Farmland	9.23
Henry/Santa Margarita	60.41
Permanent	12.39
Farmland of Local Importance	4.50
Farmland of Local Potential	7.05
Grazing Land	0.83
Temporary	48.02
Farmland of Local Importance	16.38
Farmland of Local Potential	23.72
Grazing Land	7.92
McKay/Wellsona	117.63
Permanent	24.58
Farmland of Local Potential	19.77
Grazing Land	4.80
Temporary	93.05
Farmland of Local Potential	69.03
Grazing Land	24.02

FMMP Summary Table

Realign Tracks at MP 165	53.96
Permanent	10.42
Grazing Land	1.79
Prime Farmland	7.19
Unique Farmland	1.44
Temporary	43.54
Grazing Land	15.36
Prime Farmland	22.85
Unique Farmland	5.32
Realign Tracks at MP 172	121.06
Permanent	24.98
Grazing Land	4.16
Prime Farmland	19.83
Unique Farmland	0.98
Temporary	96.09
Grazing Land	14.18
Prime Farmland	78.87
Unique Farmland	3.03
Wellsona/Paso Robles	23.61
Permanent	5.19
Farmland of Local Potential	1.79
Farmland of Statewide Importance	2.12
Prime Farmland	1.28
Temporary	18.42
Farmland of Local Potential	7.51
Farmland of Statewide Importance	7.09
Prime Farmland	3.82
Siding	264.56
2nd Mainline	
2nd Mainline	39.19
Permanent	13.87
Farmland of Local Potential	2.75
Grazing Land	11.12
Temporary	25.32
Farmland of Local Potential	5.37
Grazing Land	19.96
Grand Total	1,109.52

Forest Resources Summary Table

Row Labels	Sum of Acreage
2nd Mainline	
2nd Mainline	32.23
Permanent	
Privately Owned Lands	11.81
Temporary	
Privately Owned Lands	20.42
Ex. Alignment	
EA-10	11.02
Existing Rail Improvements (Track/Signal Upgrades)	
Privately Owned Lands	10.81
Forest Service Owned Lands	0.22
Grand Total	43.26

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Appendix D-2
Biological Resources Data

Land Cover Impacts

Row Labels	Sum of Existing Land Cover in Study Area (acres)	Sum of Permanent Impacts (acres)	Sum of Temporary Impacts (acres)
Realignment			
Coburn			
Annual Grassland	108.2	5.5	32.2
Barren	15.0	3.6	8.2
Coastal Scrub	0.2	0.0	0.0
Cropland	163.8	18.0	64.7
Riverine	0.4	0.0	0.1
Urban	7.6	0.5	4.6
Coburn Total	295.1	27.5	109.9
Getty/Bradley			
Annual Grassland	154.1	16.2	54.3
Blue Oak Woodland	6.3	0.0	1.3
Coastal Scrub	3.3	0.0	0.9
Cropland	3.1	0.2	2.0
Freshwater Pond	1.4	0.0	0.7
Riverine	15.3	0.3	3.5
Valley Foothill Riparian	31.7	3.8	11.7
Getty/Bradley Total	215.2	20.4	74.5
Harlem/Metz			
Annual Grassland	153.3	15.0	52.8
Barren	5.0	0.0	0.3
Blue Oak Woodland	0.1	0.0	0.0
Freshwater Forested/Shrub Wetland	1.1	0.0	0.0
Freshwater Pond	0.1	0.0	0.0
Riverine	1.0	0.0	0.1
Urban	3.8	0.3	2.7
Valley Foothill Riparian	4.2	0.3	1.0
Harlem/Metz Total	168.6	15.6	56.9
Henry/Santa Margarita			
Annual Grassland	113.7	13.3	44.5
Blue Oak-Foothill Pine	56.5	6.1	25.1
Coastal Oak Woodland	4.8	0.0	1.6
Coastal Scrub	23.7	2.7	10.1
Cropland	17.1	0.8	4.8
Freshwater Emergent Wetland	11.2	1.4	3.4
Freshwater Forested/Shrub Wetland	14.0	0.4	3.3
Freshwater Pond	2.6	0.1	1.1
Riverine	15.2	0.1	4.8
Unknown Shrub Type	1.6	0.0	0.0
Urban	31.8	1.7	6.5
Valley Oak Woodland	4.0	0.0	0.9

Land Cover Impacts

Henry/Santa Margarita Total	296.2	26.5	106.2
McKay/Wellsona			
Blue Oak Woodland	19.1	2.4	6.0
Coastal Oak Woodland	29.7	4.6	12.4
Freshwater Emergent Wetland	22.9	7.2	12.6
Freshwater Forested/Shrub Wetland	2.6	0.7	1.2
Riverine	11.0	0.0	0.1
Urban	89.6	6.7	31.5
McKay/Wellsona Total	175.0	21.6	63.8
Realign Tracks at MP 165			
Annual Grassland	51.1	6.3	21.8
Cropland	85.8	6.2	28.7
Freshwater Forested/Shrub Wetland	0.7	0.1	0.2
Freshwater Pond	0.9	0.2	0.5
Realign Tracks at MP 165 Total	138.5	12.8	51.3
Realign Tracks at MP 172			
Annual Grassland	25.7	1.4	8.5
Cropland	229.6	23.7	90.8
Riverine	0.1	0.0	0.0
Valley Foothill Riparian	5.1	0.0	0.8
Realign Tracks at MP 172 Total	260.6	25.0	100.1
Templeton/Henry			
Annual Grassland	2.5	0.6	1.7
Blue Oak Woodland	6.9	0.6	2.5
Blue Oak-Foothill Pine	2.0	0.0	0.1
Coastal Oak Woodland	14.9	2.1	6.2
Cropland	17.0	0.2	3.7
Unknown Shrub Type	4.9	0.7	3.3
Urban	18.8	1.4	5.2
Templeton/Henry Total	67.0	5.7	22.7
Wellsona/Paso Robles			
Annual Grassland	14.7	3.8	8.8
Blue Oak Woodland	12.6	0.0	2.3
Coastal Oak Woodland	2.6	0.0	1.0
Cropland	6.8	0.0	0.2
Freshwater Emergent Wetland	0.6	0.0	0.0
Urban	24.9	1.4	8.5
Wellsona/Paso Robles Total	62.2	5.2	20.8
Realignment Total	1,678.3	160.4	606.2
Siding			
King City Siding			
Annual Grassland	16.8	3.5	4.0
Cropland	102.4	7.7	11.5
Freshwater Emergent Wetland	0.7	0.0	0.1

Land Cover Impacts

King City Siding Total	119.8	11.2	15.6
San Lucas Siding			
Annual Grassland	70.9	7.7	8.9
Cropland	55.5	8.5	8.5
Urban	38.5	5.8	4.9
Valley Foothill Riparian	3.8	0.9	0.8
San Lucas Siding Total	168.6	22.9	23.0
Spence Siding			
Barren	91.0	19.0	21.2
Coastal Scrub	2.2	0.0	0.0
Cropland	68.7	0.3	1.6
Freshwater Emergent Wetland	0.7	0.0	0.1
Freshwater Pond	0.1	0.0	0.0
Riverine	2.2	0.0	0.0
Spence Siding Total	164.9	19.3	23.0
Templeton Siding			
Annual Grassland	58.8	7.3	7.3
Blue Oak Woodland	7.0	1.5	1.2
Coastal Oak Woodland	0.1	0.0	0.0
Cropland	19.0	3.5	3.2
Freshwater Emergent Wetland	1.2	0.7	0.5
Freshwater Forested/Shrub Wetland	19.7	0.8	2.1
Riverine	16.1	0.0	0.8
Unknown Shrub Type	0.1	0.0	0.0
Urban	134.3	32.5	18.6
Valley Foothill Riparian	1.9	0.4	0.3
Templeton Siding Total	258.3	46.8	34.1
Bradley Siding2			
Annual Grassland	229.9	48.0	34.1
Blue Oak Woodland	2.2	0.0	0.0
Riverine	3.2	0.3	0.7
Valley Foothill Riparian	22.9	3.7	4.5
Bradley Siding2 Total	258.2	51.9	39.4
New Chalone Creek			
Annual Grassland	81.3	10.4	21.9
Barren	4.9	0.5	0.6
Coastal Oak Woodland	1.0	0.0	0.1
Cropland	80.8	13.2	38.5
Freshwater Emergent Wetland	1.3	0.6	0.7
Freshwater Pond	0.1	0.0	0.0
Riverine	0.0	0.0	0.0
Valley Foothill Riparian	3.1	1.1	1.2
New Chalone Creek Total	172.6	25.8	63.0
Wellsona Siding			
Annual Grassland	38.3	3.2	4.5
Blue Oak Woodland	29.8	6.1	8.8
Coastal Oak Woodland	39.3	8.1	14.4

Land Cover Impacts

Cropland	3.8	0.1	0.9
Freshwater Emergent Wetland	25.1	7.2	11.7
Freshwater Forested/Shrub Wetland	3.1	0.8	1.6
Riverine	4.3	0.0	0.1
Urban	37.1	4.0	5.8
Valley Foothill Riparian	0.6	0.0	0.0
Wellsona Siding Total	181.2	29.6	47.9
Siding Total	1,323.5	207.6	245.9
Second Mainline			
Second Mainline			
Annual Grassland	38.2	8.9	10.2
Blue Oak Woodland	35.1	2.4	5.4
Coastal Oak Woodland	67.7	6.7	14.8
Coastal Scrub	3.4	1.2	2.1
Freshwater Emergent Wetland	0.2	0.0	0.1
Freshwater Forested/Shrub Wetland	11.6	0.7	6.7
Freshwater Pond	0.8	0.0	0.0
Mixed Chaparral	4.4	0.0	0.0
Riverine	2.9	0.1	1.4
Urban	25.8	5.2	3.6
Valley Oak Woodland	6.4	0.6	1.5
Second Mainline Total	196.5	25.8	45.9
Second Mainline Total	196.5	25.8	45.9
Grand Total	3,198.4	393.7	897.9

Wetland Impacts

Row Labels	Sum of Existing Wetland Acreage in Study Area	Sum of Permanent Impacts	Sum of Temporary Impacts	Sum of Areas Potentially Indirectly Affected
Realignment				
Coburn				
Riverine	0.41	0.00	0.12	0.29
Coburn Total	0.41	0.00	0.12	0.29
Getty/Bradley				
Freshwater Pond	1.43	0.00	0.65	0.77
Riverine	15.30	0.26	3.49	11.55
Getty/Bradley Total	16.73	0.26	4.14	12.32
Harlem/Metz				
Freshwater Forested/Shrub Wetland	1.08	0.00	0.00	1.08
Freshwater Pond	0.12	0.00	0.00	0.12
Riverine	1.03	0.00	0.13	0.90
Harlem/Metz Total	2.23	0.00	0.13	2.10
Henry/Santa Margarita				
Freshwater Emergent Wetland	11.20	1.37	3.40	6.44
Freshwater Forested/Shrub Wetland	14.01	0.36	3.34	10.31
Freshwater Pond	2.61	0.11	1.14	1.36
Riverine	15.18	0.08	4.75	10.35
Henry/Santa Margarita Total	43.00	1.92	12.62	28.45
McKay/Wellsona				
Freshwater Emergent Wetland	22.89	7.20	12.57	3.11
Freshwater Forested/Shrub Wetland	2.64	0.65	1.22	0.76
Riverine	10.98	0.00	0.11	10.86
McKay/Wellsona Total	36.50	7.86	13.91	14.74
Realign Tracks at MP 165				
Freshwater Forested/Shrub Wetland	0.65	0.13	0.24	0.28
Freshwater Pond	0.91	0.15	0.49	0.27
Realign Tracks at MP 165 Total	1.56	0.28	0.73	0.55
Realign Tracks at MP 172				
Riverine	0.11	0.00	0.00	0.11
Realign Tracks at MP 172 Total	0.11	0.00	0.00	0.11
Wellsona/Paso Robles				
Freshwater Emergent Wetland	0.56	0.00	0.00	0.56
Wellsona/Paso Robles Total	0.56	0.00	0.00	0.56
Realignment Total	101.10	10.32	31.65	59.13
Siding				
King City Siding				
Freshwater Emergent Wetland	0.70	0.00	0.05	0.65

Wetland Impacts

King City Siding Total	0.70	0.00	0.05	0.65
Spence Siding				
Freshwater Emergent Wetland	0.70	0.00	0.09	0.61
Freshwater Pond	0.11	0.00	0.00	0.11
Riverine	2.22	0.01	0.03	2.18
Spence Siding Total	3.03	0.01	0.12	2.90
Templeton Siding				
Freshwater Emergent Wetland	1.19	0.67	0.52	0.00
Freshwater Forested/Shrub Wetland	19.74	0.84	2.11	16.80
Riverine	16.06	0.05	0.77	15.24
Templeton Siding Total	36.99	1.56	3.39	32.04
Bradley Siding				
Riverine	3.25	0.27	0.73	2.25
Bradley Siding Total	3.25	0.27	0.73	2.25
New Chalone Creek				
Freshwater Emergent Wetland	1.29	0.60	0.66	0.03
Freshwater Pond	0.13	0.00	0.00	0.13
Riverine	0.04	0.00	0.00	0.04
New Chalone Creek Total	1.47	0.60	0.66	0.21
Wellsona Siding				
Freshwater Emergent Wetland	25.06	7.20	11.68	6.18
Freshwater Forested/Shrub Wetland	3.06	0.82	1.65	0.59
Riverine	4.28	0.04	0.15	4.10
Wellsona Siding Total	32.40	8.06	13.47	10.87
Siding Total	77.84	10.50	18.43	48.91
Second Mainline				
Second Mainline				
Freshwater Emergent Wetland	0.15	0.00	0.14	0.01
Freshwater Forested/Shrub Wetland	11.64	0.69	6.67	4.27
Freshwater Pond	0.79	0.00	0.04	0.75
Riverine	2.88	0.09	1.41	1.38
Second Mainline Total	15.46	0.79	8.26	6.40
Second Mainline Total	15.46	0.79	8.26	6.40
Grand Total	194.40	21.61	58.34	114.45

Species Impact Study Area - Summary

Study_Area	Taxonomic Group	Species	Sum of Existing Land Cover in Study Area	Sum of Permanent Impacts	Sum of Temporary Impacts	Sum of Areas Potentially Indirectly Affected	
Bradley Siding	Fish and Wildlife	American badger	229.9	48.0	34.1	147.8	
		bank swallow	26.1	4.0	5.3	16.9	
		Burrowing owl	229.9	48.0	34.1	147.8	
		California condor	229.9	48.0	34.1	147.8	
		California horned lark	229.9	48.0	34.1	147.8	
		California linderiella	229.9	48.0	34.1	147.8	
		California red-legged frog	233.1	48.2	34.8	150.0	
		California tiger salamander	229.9	48.0	34.1	147.8	
		coast horned lizard	232.1	48.0	34.1	150.0	
		Coast range newt	2.2	0.0	0.0	2.2	
		Conservancy fairy shrimp	229.9	48.0	34.1	147.8	
		Ferruginous hawk	229.9	48.0	34.1	147.8	
		Foothill yellow-legged frog	3.2	0.3	0.7	2.2	
		golden eagle	232.1	48.0	34.1	150.0	
		Grasshopper sparrow	229.9	48.0	34.1	147.8	
		great blue heron	22.9	3.7	4.5	14.7	
		hoary bat	25.1	3.7	4.5	16.9	
		least Bell's vireo	22.9	3.7	4.5	14.7	
		Lompoc grasshopper	229.9	48.0	34.1	147.8	
		Merlin	229.9	48.0	34.1	147.8	
		pallid bat	25.1	3.7	4.5	16.9	
		prairie falcon	229.9	48.0	34.1	147.8	
		purple martin	22.9	3.7	4.5	14.7	
		Salinas pocket mouse	229.9	48.0	34.1	147.8	
		San Joaquin kit fox	229.9	48.0	34.1	147.8	
		San Joaquin pocket mouse	229.9	48.0	34.1	147.8	
		San Joaquin whipsnake	229.9	48.0	34.1	147.8	
		silvery legless lizard	229.9	48.0	34.1	147.8	
		steelhead - south/central					
		California coast DPS	3.2	0.3	0.7	2.2	
		tricolored blackbird	252.7	51.7	38.6	162.4	
		two-striped garter snake	3.2	0.3	0.7	2.2	
		vernal pool fairy shrimp	229.9	48.0	34.1	147.8	

Species Impact Study Area - Summary

Bradley Siding	Fish and	western pond turtle	3.2	0.3	0.7	2.2	
		western spadefoot					
		toad	233.1	48.2	34.8	150.0	
		White-tailed kite	252.7	51.7	38.6	162.4	
		yellow warbler	22.9	3.7	4.5	14.7	
Coburn	Fish and Wildlife	American badger	108.2	5.5	32.2	70.6	
		bank swallow	0.4	0.0	0.1	0.3	
		Burrowing owl	108.2	5.5	32.2	70.6	
		California condor	108.2	5.5	32.2	70.6	
		California horned lark	272.0	23.4	96.9	151.7	
		California red-legged frog	108.6	5.5	32.3	70.9	
		California tiger salamander	108.2	5.5	32.2	70.6	
		coast horned lizard	108.4	5.5	32.2	70.8	
		Ferruginous hawk	272.2	23.4	96.9	151.8	
		Foothill yellow-legged frog	0.4	0.0	0.1	0.3	
		golden eagle	108.4	5.5	32.2	70.8	
		Grasshopper sparrow	108.4	5.5	32.2	70.8	
		Merlin	272.0	23.4	96.9	151.7	
		prairie falcon	272.2	23.4	96.9	151.8	
		Salinas pocket mouse	108.4	5.5	32.2	70.8	
		San Joaquin kit fox	108.2	5.5	32.2	70.6	
		San Joaquin whipsnake	108.4	5.5	32.2	70.8	
		silvery legless lizard	108.2	5.5	32.2	70.6	
		steelhead - south/central					
		California coast DPS	0.4	0.0	0.1	0.3	
		tricolored blackbird	272.0	23.4	96.9	151.7	
		two-striped garter snake	0.4	0.0	0.1	0.3	
		western pond turtle	0.4	0.0	0.1	0.3	
		western spadefoot toad	108.6	5.5	32.3	70.9	
		White-tailed kite	108.2	5.5	32.2	70.6	
		Plants	Jolon clarkia	0.2			0.2
			Lemmon's jewel-flower	108.2	5.5	32.2	70.6

Species Impact Study Area - Summary

Getty/Bradley	Fish and Wildlife	American badger	154.1	16.2	54.3	83.6
		bank swallow	47.0	4.0	15.2	27.8
		Burrowing owl	154.1	16.2	54.3	83.6
		California condor	154.1	16.2	54.3	83.6
		California horned lark	157.2	16.4	56.4	84.5
		California linderiella	154.1	16.2	54.3	83.6
		California red-legged frog	170.9	16.4	58.5	95.9
		California tiger salamander	155.6	16.2	55.0	84.4
		coast horned lizard	163.7	16.2	56.6	90.9
		Coast range newt	7.7	0.0	2.0	5.7
		Conservancy fairy shrimp	154.1	16.2	54.3	83.6
		Ferruginous hawk	160.5	16.4	57.3	86.9
		Foothill yellow-legged frog	15.3	0.3	3.5	11.6
		golden eagle	163.7	16.2	56.6	90.9
		Grasshopper sparrow	157.4	16.2	55.3	86.0
		great blue heron	33.1	3.8	12.3	17.0
		hoary bat	37.9	3.8	13.0	21.1
		least Bell's vireo	31.7	3.8	11.7	16.2
		Lompoc grasshopper	154.1	16.2	54.3	83.6
		Merlin	157.2	16.4	56.4	84.5
		pallid bat	37.9	3.8	13.0	21.1
		prairie falcon	160.5	16.4	57.3	86.9
		purple martin	31.7	3.8	11.7	16.2
		Salinas pocket mouse	157.4	16.2	55.3	86.0
		San Joaquin kit fox	154.1	16.2	54.3	83.6
		San Joaquin pocket mouse	154.1	16.2	54.3	83.6
		San Joaquin whipsnake	157.4	16.2	55.3	86.0
		silvery legless lizard	154.1	16.2	54.3	83.6
		steelhead - south/central				
		California coast DPS	15.3	0.3	3.5	11.6
		tricolored blackbird	190.3	20.1	68.7	101.5
		two-striped garter snake	16.7	0.3	4.1	12.3
		vernal pool fairy shrimp	154.1	16.2	54.3	83.6
		western pond turtle	16.7	0.3	4.1	12.3
		western spadefoot toad	169.4	16.4	57.8	95.2
		White-tailed kite	185.8	19.9	66.0	99.8
		yellow warbler	31.7	3.8	11.7	16.2

Species Impact Study Area - Summary

Getty/Bradley	Plants	Abbott's bush-mallow	31.7	3.8	11.7	16.2
		Davidson's bush-mallow	41.2	3.8	14.0	23.5
		Hardham's evening-primrose	6.3		1.3	4.9
		Jolon clarkia	41.2	3.8	14.0	23.5
Harlem/Metz	Fish and Wildlife	American badger	153.3	15.0	52.8	85.5
		bank swallow	5.2	0.3	1.2	3.8
		Burrowing owl	153.3	15.0	52.8	85.5
		California condor	153.3	15.0	52.8	85.5
		California horned lark	153.3	15.0	52.8	85.5
		California red-legged frog	154.4	15.0	52.9	86.5
		California tiger salamander	153.4	15.0	52.8	85.6
		coast horned lizard	153.4	15.0	52.8	85.6
		Coast range newt	0.2	0.0	0.0	0.2
		Ferruginous hawk	153.3	15.0	52.8	85.5
		Foothill yellow-legged frog	1.0	0.0	0.1	0.9
		golden eagle	153.4	15.0	52.8	85.6
		Grasshopper sparrow	153.3	15.0	52.8	85.5
		great blue heron	4.3	0.3	1.0	3.0
		hoary bat	4.3	0.3	1.0	3.0
		least Bell's vireo	5.3	0.3	1.0	4.0
		Merlin	153.3	15.0	52.8	85.5
		pallid bat	4.3	0.3	1.0	3.0
		prairie falcon	153.3	15.0	52.8	85.5
		purple martin	4.2	0.3	1.0	2.9
		Salinas pocket mouse	153.3	15.0	52.8	85.5
		San Joaquin kit fox	153.3	15.0	52.8	85.5
		San Joaquin whipsnake	153.3	15.0	52.8	85.5
		silvery legless lizard	153.3	15.0	52.8	85.5
		steelhead - south/central				
		California coast DPS	1.0	0.0	0.1	0.9
		tricolored blackbird	158.7	15.3	53.8	89.6
		two-striped garter snake	1.1	0.0	0.1	1.0
		western pond turtle	1.1	0.0	0.1	1.0
		western spadefoot toad	154.3	15.0	52.9	86.4
		White-tailed kite	157.5	15.3	53.8	88.4
		yellow warbler	4.2	0.3	1.0	2.9

Species Impact Study Area - Summary

Harlem/Metz	Plants	chaparral ragwort	18.1	1.5	5.7	10.9
		Indian Valley bush-mallow	2.5		0.1	2.4
		Jolon clarkia	23.4	1.8	6.7	14.9
		Lemmon's jewel-flower	153.3	15.0	52.8	85.5
		Monterey spineflower	171.4	16.5	58.5	96.4
		robust spineflower	18.1	1.5	5.7	10.9
		Henry/Santa Margarita	Fish and Wildlife	American badger	113.7	13.3
Burrowing owl	113.7			13.3	44.5	55.8
California condor	113.7			13.3	44.5	55.8
California horned lark	130.8			14.1	49.3	67.3
California linderiella	113.7			13.3	44.5	55.8
California red-legged frog	142.7			14.9	53.8	73.9
coast horned lizard	204.3			22.1	82.2	99.9
Coast range newt	67.9			6.2	28.7	33.0
Conservancy fairy shrimp	113.7			13.3	44.5	55.8
Ferruginous hawk	156.1			16.9	59.4	79.8
Foothill yellow-legged frog	15.2			0.1	4.8	10.3
golden eagle	200.3			22.1	81.3	96.9
Grasshopper sparrow	139.0			16.1	54.6	68.3
great blue heron	13.8			1.5	4.5	7.8
hoary bat	65.3			6.1	27.6	31.7
least Bell's vireo	14.0			0.4	3.3	10.3
Lompoc grasshopper	113.7			13.3	44.5	55.8
Merlin	130.8			14.1	49.3	67.3
pallid bat	65.3			6.1	27.6	31.7
prairie falcon	156.1			16.9	59.4	79.8
purple martin	65.3			6.1	27.6	31.7
San Joaquin kit fox	113.7			13.3	44.5	55.8
San Joaquin pocket mouse	113.7			13.3	44.5	55.8
San Joaquin whipsnake	139.0			16.1	54.6	68.3
San Luis pyrg	11.2			1.4	3.4	6.4
silvery legless lizard	113.7			13.3	44.5	55.8
steelhead - south/central						
California coast DPS	15.2			0.1	4.8	10.3
tricolored blackbird	158.6			16.0	57.2	85.4
two-striped garter snake	29.0			1.6	9.3	18.1
vernal pool fairy shrimp	113.7			13.3	44.5	55.8

Species Impact Study Area - Summary

	Fish and	western pond turtle	29.0	1.6	9.3	18.1
		western spadefoot				
		toad	128.9	13.4	49.3	66.1
		White-tailed kite	117.7	13.3	45.4	58.9
	Plants	Brewer's spineflower	86.6	8.8	36.8	41.1
		caper-fruited				
		tropidocarpum	113.7	13.3	44.5	55.8
		dwarf soaproot	1.6		0.0	1.6
		Eastwood's larkspur	115.3	13.3	44.5	57.4
		Hardham's evening-				
		primrose	62.9	6.1	26.7	30.2
		hooked popcornflower	176.6	19.4	71.2	86.0
		Hoover's bent grass	176.6	19.4	71.2	86.0
		mesa horkelia	86.6	8.8	36.8	41.1
		most beautiful jewel-				
		flower	176.6	19.4	71.2	86.0
		pale-yellow layia	198.7	22.1	81.3	95.2
		Palmer's monardella	62.9	6.1	26.7	30.2
		round-leaved filaree	175.0	19.4	71.2	84.4
		San Benito fritillary	1.6		0.0	1.6
		San Luis mariposa-lily	139.0	16.1	54.6	68.3
		San Luis Obispo County				
		lupine	62.9	6.1	26.7	30.2
		San Luis Obispo sedge	139.0	16.1	54.6	68.3
		Santa Lucia manzanita	62.9	6.1	26.7	30.2
		Santa Margarita				
		manzanita	62.9	6.1	26.7	30.2
		shining navarretia	113.7	13.3	44.5	55.8
		straight-awned				
		spineflower	86.6	8.8	36.8	41.1
		yellow-flowered				
		eriastrum	62.9	6.1	26.7	30.2
King City Siding	Fish and Wildlife	American badger	16.8	3.5	4.0	9.2
		Burrowing owl	16.8	3.5	4.0	9.2
		California condor	16.8	3.5	4.0	9.2
		California horned lark	119.1	11.2	15.5	92.4
		California red-legged				
		frog	17.5	3.5	4.1	9.9
		California tiger				
		salamander	17.5	3.5	4.1	9.9
		coast horned lizard	16.8	3.5	4.0	9.2
		Ferruginous hawk	119.1	11.2	15.5	92.4
		golden eagle	16.8	3.5	4.0	9.2
		Grasshopper sparrow	16.8	3.5	4.0	9.2
		great blue heron	0.7	0.0	0.1	0.7
		Merlin	119.1	11.2	15.5	92.4

Species Impact Study Area - Summary

King City Siding	Fish and	prairie falcon	119.1	11.2	15.5	92.4	
		Salinas pocket mouse	16.8	3.5	4.0	9.2	
		San Joaquin kit fox	16.8	3.5	4.0	9.2	
		silvery legless lizard	16.8	3.5	4.0	9.2	
		tricolored blackbird	119.8	11.2	15.6	93.1	
		two-striped garter snake	0.7	0.0	0.1	0.7	
		western pond turtle	0.7	0.0	0.1	0.7	
		western spadefoot toad	16.8	3.5	4.0	9.2	
		White-tailed kite	16.8	3.5	4.0	9.2	
		Plants	Davidson's bush-mallow	0.4	0.1	0.1	0.3
			Jolon clarkia	0.4	0.1	0.1	0.3
	recurved larkspur		16.8	3.5	4.0	9.2	
	McKay/ Wellsona	Fish and Wildlife	California red-legged frog	33.9	7.2	12.7	14.0
California tiger salamander			22.9	7.2	12.6	3.1	
coast horned lizard			48.9	7.0	18.5	23.4	
Coast range newt			48.9	7.0	18.5	23.4	
Foothill yellow-legged frog			11.0	0.0	0.1	10.9	
golden eagle			48.9	7.0	18.5	23.4	
great blue heron			22.9	7.2	12.6	3.1	
hoary bat			48.9	7.0	18.5	23.4	
least Bell's vireo			2.6	0.7	1.2	0.8	
pallid bat			48.9	7.0	18.5	23.4	
purple martin			29.7	4.6	12.4	12.7	
steelhead - south/central							
California coast DPS			11.0	0.0	0.1	10.9	
tricolored blackbird			25.5	7.9	13.8	3.9	
two-striped garter snake			33.9	7.2	12.7	14.0	
western pond turtle			33.9	7.2	12.7	14.0	
western spadefoot toad			11.0	0.0	0.1	10.9	
Plants			dwarf calycadenia	165.9	22.8	63.4	79.7
			Hardham's evening-primrose	48.9	7.0	18.5	23.4
			hooked popcornflower	143.1	15.6	50.8	76.6
		Indian Valley spineflower	48.9	7.0	18.5	23.4	
		Lemmon's jewel-flower	94.2	8.6	32.3	53.2	
		round-leaved filaree	143.1	15.6	50.8	76.6	

Species Impact Study Area - Summary

McKay/	Plants	Santa Cruz microseris	94.2	8.6	32.3	53.2
		Santa Lucia dwarf rush	94.2	8.6	32.3	53.2
		shining navarretia	143.1	15.6	50.8	76.6
		woodland				
		woollythreads	143.1	15.6	50.8	76.6
New Chalone Creek	Fish and Wildlife	American badger	81.3	10.4	21.9	49.0
		bank swallow	3.1	1.1	1.2	0.9
		Burrowing owl	81.3	10.4	21.9	49.0
		California condor	81.3	10.4	21.9	49.0
		California horned lark	162.2	23.6	60.4	78.1
		California red-legged frog	82.8	11.0	22.6	49.2
		California tiger salamander	82.8	11.0	22.6	49.2
		coast horned lizard	82.4	10.4	22.0	49.9
		Coast range newt	1.1	0.0	0.1	1.1
		Ferruginous hawk	162.2	23.6	60.4	78.1
		Foothill yellow-legged frog	0.0	0.0	0.0	0.0
		golden eagle	82.4	10.4	22.0	49.9
		Grasshopper sparrow	81.3	10.4	21.9	49.0
		great blue heron	4.5	1.7	1.8	1.0
		hoary bat	4.1	1.1	1.2	1.8
		least Bell's vireo	3.1	1.1	1.2	0.9
		Merlin	162.2	23.6	60.4	78.1
		pallid bat	4.1	1.1	1.2	1.8
		prairie falcon	162.2	23.6	60.4	78.1
		purple martin	4.1	1.1	1.2	1.8
		Salinas pocket mouse	81.3	10.4	21.9	49.0
		San Joaquin kit fox	81.3	10.4	21.9	49.0
		San Joaquin whipsnake	81.3	10.4	21.9	49.0
		silvery legless lizard	81.3	10.4	21.9	49.0
		steelhead - south/central				
		California coast DPS	0.0	0.0	0.0	0.0
		tricolored blackbird	166.7	25.3	62.2	79.1
		two-striped garter snake	1.5	0.6	0.7	0.2
		western pond turtle	1.5	0.6	0.7	0.2
		western spadefoot toad	81.4	10.4	21.9	49.0
		White-tailed kite	84.4	11.5	23.1	49.9
		yellow warbler	3.1	1.1	1.2	0.9

Species Impact Study Area - Summary

Realign Tracks at MP 165	Fish and Wildlife	American badger	51.1	6.3	21.8	23.0		
		Burrowing owl	51.1	6.3	21.8	23.0		
		California condor	51.1	6.3	21.8	23.0		
		California horned lark	136.9	12.5	50.6	73.8		
		California red-legged frog	52.1	6.5	22.3	23.3		
		California tiger salamander	52.1	6.5	22.3	23.3		
		coast horned lizard	51.1	6.3	21.8	23.0		
		Coast range newt	0.9	0.2	0.5	0.3		
		Ferruginous hawk	136.9	12.5	50.6	73.8		
		golden eagle	51.1	6.3	21.8	23.0		
		Grasshopper sparrow	51.1	6.3	21.8	23.0		
		great blue heron	0.9	0.2	0.5	0.3		
		least Bell's vireo	0.7	0.1	0.2	0.3		
		Merlin	136.9	12.5	50.6	73.8		
		prairie falcon	136.9	12.5	50.6	73.8		
		Salinas pocket mouse	51.1	6.3	21.8	23.0		
		San Joaquin kit fox	51.1	6.3	21.8	23.0		
		San Joaquin whipsnake	51.1	6.3	21.8	23.0		
		silvery legless lizard	51.1	6.3	21.8	23.0		
		tricolored blackbird	138.5	12.8	51.3	74.3		
		two-striped garter snake	0.9	0.2	0.5	0.3		
		western pond turtle	0.9	0.2	0.5	0.3		
		western spadefoot toad	51.1	6.3	21.8	23.0		
		White-tailed kite	51.1	6.3	21.8	23.0		
		Plants	Jolon clarkia	0.7	0.1	0.2	0.3	
			Monterey spineflower	51.1	6.3	21.8	23.0	
			recurved larkspur	51.1	6.3	21.8	23.0	
		Realign Tracks at MP 172	Fish and Wildlife	American badger	25.7	1.4	8.5	15.9
				bank swallow	5.2	0.0	0.8	4.4
				Burrowing owl	25.7	1.4	8.5	15.9
				California condor	25.7	1.4	8.5	15.9
				California horned lark	255.4	25.0	99.3	131.0
California red-legged frog	25.8			1.4	8.5	16.0		
California tiger salamander	25.7			1.4	8.5	15.9		
coast horned lizard	25.7			1.4	8.5	15.9		
Ferruginous hawk	255.4			25.0	99.3	131.0		
Foothill yellow-legged frog	0.1			0.0	0.0	0.1		
golden eagle	25.7			1.4	8.5	15.9		

Species Impact Study Area - Summary

		Grasshopper sparrow	25.7	1.4	8.5	15.9		
		great blue heron	5.1	0.0	0.8	4.3		
		hoary bat	5.1	0.0	0.8	4.3		
		least Bell's vireo	5.1	0.0	0.8	4.3		
		Merlin	255.4	25.0	99.3	131.0		
		pallid bat	5.1	0.0	0.8	4.3		
		prairie falcon	255.4	25.0	99.3	131.0		
		purple martin	5.1	0.0	0.8	4.3		
		Salinas pocket mouse	25.7	1.4	8.5	15.9		
		San Joaquin kit fox	25.7	1.4	8.5	15.9		
		San Joaquin whipsnake	25.7	1.4	8.5	15.9		
		silvery legless lizard	25.7	1.4	8.5	15.9		
		steelhead - south/central						
		California coast DPS	0.1	0.0	0.0	0.1		
		tricolored blackbird	260.5	25.0	100.1	135.3		
		two-striped garter snake	0.1	0.0	0.0	0.1		
		western pond turtle	0.1	0.0	0.0	0.1		
		western spadefoot toad	25.8	1.4	8.5	16.0		
		White-tailed kite	30.8	1.4	9.3	20.2		
		yellow warbler	5.1	0.0	0.8	4.3		
		Plants						
		Jolon clarkia	5.1		0.8	4.3		
		Monterey spineflower	25.7	1.4	8.5	15.9		
		recurved larkspur	25.7	1.4	8.5	15.9		
		San Lucas Siding	Fish and Wildlife	American badger	70.9	7.7	8.9	54.2
				bank swallow	3.8	0.9	0.8	2.1
				Burrowing owl	70.9	7.7	8.9	54.2
				California condor	70.9	7.7	8.9	54.2
California horned lark	126.4			16.2	17.3	92.8		
California red-legged frog	70.9			7.7	8.9	54.2		
California tiger salamander	70.9			7.7	8.9	54.2		
coast horned lizard	70.9			7.7	8.9	54.2		
Ferruginous hawk	126.4			16.2	17.3	92.8		
golden eagle	70.9			7.7	8.9	54.2		
Grasshopper sparrow	70.9			7.7	8.9	54.2		
great blue heron	3.8			0.9	0.8	2.1		
hoary bat	3.8			0.9	0.8	2.1		
least Bell's vireo	3.8			0.9	0.8	2.1		
Merlin	126.4			16.2	17.3	92.8		
pallid bat	3.8			0.9	0.8	2.1		
prairie falcon	126.4			16.2	17.3	92.8		
purple martin	3.8			0.9	0.8	2.1		

Species Impact Study Area - Summary

San Lucas Siding	Fish and	Salinas pocket mouse	70.9	7.7	8.9	54.2	
		San Joaquin kit fox	70.9	7.7	8.9	54.2	
		San Joaquin whipsnake	70.9	7.7	8.9	54.2	
		silvery legless lizard	70.9	7.7	8.9	54.2	
		tricolored blackbird	130.2	17.1	18.1	94.9	
		western spadefoot toad	70.9	7.7	8.9	54.2	
		White-tailed kite	74.7	8.6	9.7	56.4	
		yellow warbler	3.8	0.9	0.8	2.1	
		Plants	Lemmon's jewel-flower	70.9	7.7	8.9	54.2
			Monterey spineflower	70.9	7.7	8.9	54.2
Second Main Track/Siding	Fish and Wildlife	American badger	38.2	8.9	10.2	19.1	
		Burrowing owl	38.2	8.9	10.2	19.1	
		California condor	38.2	8.9	10.2	19.1	
		California horned lark	38.2	8.9	10.2	19.1	
		California red-legged frog	42.0	9.0	11.8	21.3	
		coast horned lizard	155.2	19.7	34.0	101.5	
		Coast range newt	114.4	9.7	21.7	83.0	
		Ferruginous hawk	41.6	10.0	12.3	19.2	
		Foothill yellow-legged frog	2.9	0.1	1.4	1.4	
		golden eagle	148.8	19.1	32.5	97.2	
		Grasshopper sparrow	41.6	10.0	12.3	19.2	
		great blue heron	0.9	0.0	0.2	0.8	
		hoary bat	109.2	9.7	21.7	77.8	
		least Bell's vireo	11.6	0.7	6.7	4.3	
		Lompoc grasshopper	38.2	8.9	10.2	19.1	
		Merlin	38.2	8.9	10.2	19.1	
		pallid bat	109.2	9.7	21.7	77.8	
		prairie falcon	41.6	10.0	12.3	19.2	
		purple martin	74.1	7.3	16.3	50.4	
		San Joaquin kit fox	38.2	8.9	10.2	19.1	
		San Joaquin pocket mouse	38.2	8.9	10.2	19.1	
		San Joaquin whipsnake	46.0	10.0	12.3	23.6	
		silvery legless lizard	38.2	8.9	10.2	19.1	
		steelhead - south/central	2.9	0.1	1.4	1.4	
		California coast DPS	2.9	0.1	1.4	1.4	
		tricolored blackbird	50.8	9.6	17.1	24.2	
		two-striped garter snake	3.8	0.1	1.6	2.1	
		western pond turtle	3.8	0.1	1.6	2.1	

Species Impact Study Area - Summary

Second Main Track/Siding	Fish and Wildlife	western spadefoot toad	41.1	9.0	11.6	20.5		
		White-tailed kite	44.6	9.5	11.7	23.4		
Second Mainline	Plants	Blochman's dudleya	46.0	10.0	12.3	23.6		
		Brewer's spineflower	117.0	10.9	23.8	82.3		
		chaparral ragwort	117.0	10.9	23.8	82.3		
		Chorro Creek bog thistle	155.3	19.7	34.1	101.5		
		dwarf soaproot	4.4			4.4		
		Eastwood's larkspur	42.6	8.9	10.2	23.5		
		Hardham's evening-primrose	113.6	9.7	21.7	82.2		
		hooked popcornflower	151.8	18.6	31.9	101.4		
		Hoover's bent grass	151.8	18.6	31.9	101.4		
		Jones' layia	42.6	8.9	10.2	23.5		
		La Panza mariposa-lily	151.8	18.6	31.9	101.4		
		mesa horkelia	117.0	10.9	23.8	82.3		
		most beautiful jewel-flower	151.8	18.6	31.9	101.4		
		mouse-gray dudleya	151.8	18.6	31.9	101.4		
		pale-yellow layia	150.8	19.7	34.0	97.1		
		Palmer's monardella	113.6	9.7	21.7	82.2		
		Pecho manzanita	7.8	1.2	2.1	4.5		
		San Benito fritillary	4.4			4.4		
		San Luis mariposa-lily	46.0	10.0	12.3	23.6		
		San Luis Obispo County lupine	113.6	9.7	21.7	82.2		
		San Luis Obispo sedge	50.4	10.0	12.3	28.0		
		Santa Lucia manzanita	113.6	9.7	21.7	82.2		
		Santa Margarita manzanita	113.6	9.7	21.7	82.2		
		straight-awned spineflower	117.0	10.9	23.8	82.3		
		yellow-flowered eriastrum	113.6	9.7	21.7	82.2		
		Spence Siding	Fish and Wildlife	bank swallow	2.2	0.0	0.0	2.2
				California horned lark	68.7	0.3	1.6	66.8
California red-legged frog	3.0			0.0	0.1	2.9		
California tiger salamander	0.8			0.0	0.1	0.7		
coast horned lizard	2.2			0.0	0.0	2.2		
Coast range newt	0.1			0.0	0.0	0.1		
Ferruginous hawk	70.9			0.3	1.6	68.9		

Species Impact Study Area - Summary

Spence Siding	Fish and Wildlife	Foothill yellow-legged frog	2.2	0.0	0.0	2.2	
		golden eagle	2.2	0.0	0.0	2.2	
		Grasshopper sparrow	2.2	0.0	0.0	2.2	
		great blue heron	0.8	0.0	0.1	0.7	
		Merlin	68.7	0.3	1.6	66.8	
		prairie falcon	70.9	0.3	1.6	68.9	
		steelhead - south/central					
		California coast DPS	2.2	0.0	0.0	2.2	
		tricolored blackbird	69.5	0.3	1.7	67.5	
		two-striped garter snake	3.0	0.0	0.1	2.9	
		western pond turtle	3.0	0.0	0.1	2.9	
		western spadefoot toad	2.2	0.0	0.0	2.2	
		Plants	Hutchinson's larkspur	2.2		0.0	2.2
			Toro manzanita	2.2		0.0	2.2
Templeton Siding	Fish and Wildlife	American badger	58.8	7.3	7.3	44.2	
		Burrowing owl	58.8	7.3	7.3	44.2	
		California condor	58.8	7.3	7.3	44.2	
		California horned lark	77.8	10.8	10.5	56.6	
		California red-legged frog	76.1	8.0	8.6	59.5	
		coast horned lizard	66.0	8.8	8.6	48.7	
		Coast range newt	7.1	1.5	1.3	4.3	
		Ferruginous hawk	77.9	10.8	10.5	56.7	
		Foothill yellow-legged frog	16.1	0.0	0.8	15.2	
		golden eagle	66.0	8.8	8.6	48.7	
		Grasshopper sparrow	58.9	7.3	7.3	44.3	
		great blue heron	3.1	1.0	0.9	1.2	
		hoary bat	9.0	1.9	1.6	5.5	
		least Bell's vireo	21.7	1.2	2.4	18.0	
		Lompoc grasshopper	58.8	7.3	7.3	44.2	
		Merlin	77.8	10.8	10.5	56.6	
		pallid bat	9.0	1.9	1.6	5.5	
		prairie falcon	77.9	10.8	10.5	56.7	
		purple martin	2.0	0.4	0.4	1.2	
		San Joaquin kit fox	58.8	7.3	7.3	44.2	
		San Joaquin pocket mouse	58.8	7.3	7.3	44.2	
		San Joaquin whipsnake	58.9	7.3	7.3	44.3	
		silvery legless lizard	58.8	7.3	7.3	44.2	

Species Impact Study Area - Summary

		steelhead - south/central					
		California coast DPS	16.1	0.0	0.8	15.2	
		tricolored blackbird	100.7	12.7	13.5	74.6	
		two-striped garter snake	17.2	0.7	1.3	15.2	
		western pond turtle	17.2	0.7	1.3	15.2	
		western spadefoot toad	74.9	7.3	8.1	59.5	
		White-tailed kite	60.7	7.6	7.7	45.4	
		yellow warbler	1.9	0.4	0.3	1.2	
		Plants	Eastwood's larkspur	58.9	7.3	7.3	44.3
		Lemmon's jewel-flower	58.8	7.3	7.3	44.2	
		mesa horkelia	7.2	1.5	1.3	4.4	
		most beautiful jewel- flower	66.0	8.8	8.6	48.7	
		round-leaved filaree	65.9	8.8	8.6	48.6	
		Santa Lucia dwarf rush	58.9	7.3	7.3	44.3	
		shining navarretia	65.9	8.8	8.6	48.6	
		yellow-flowered eriastrum	7.2	1.5	1.3	4.4	
		Templeton/ Henry	Fish and Wildlife	American badger	2.5	0.6	1.7
Burrowing owl	2.5			0.6	1.7	0.1	
California condor	2.5			0.6	1.7	0.1	
California horned lark	19.5			0.8	5.3	13.3	
California red-legged frog	2.5			0.6	1.7	0.1	
coast horned lizard	31.1			4.1	13.8	13.2	
Coast range newt	23.7			2.7	8.9	12.1	
Ferruginous hawk	24.4			1.5	8.6	14.3	
golden eagle	31.1			4.1	13.8	13.2	
Grasshopper sparrow	7.4			1.4	5.0	1.1	
hoary bat	23.7			2.7	8.9	12.1	
Lompoc grasshopper	2.5			0.6	1.7	0.1	
Merlin	19.5			0.8	5.3	13.3	
pallid bat	23.7			2.7	8.9	12.1	
prairie falcon	24.4			1.5	8.6	14.3	
purple martin	16.8			2.1	6.3	8.4	
San Joaquin kit fox	2.5			0.6	1.7	0.1	
San Joaquin pocket mouse	2.5			0.6	1.7	0.1	
San Joaquin whipsnake	7.4			1.4	5.0	1.1	
silvery legless lizard	2.5			0.6	1.7	0.1	
tricolored blackbird	19.5			0.8	5.3	13.3	

Species Impact Study Area - Summary

Templeton/ Henry	Fish and Wildlife	western spadefoot						
		toad	2.5	0.6	1.7	0.1		
		White-tailed kite	2.5	0.6	1.7	0.1		
	Plants	Eastwood's larkspur	7.4	1.4	5.0	1.1		
		mesa horkelia	28.7	3.4	12.1	13.1		
		most beautiful jewel- flower	31.1	4.1	13.8	13.2		
		round-leaved filaree	26.2	3.4	10.6	12.3		
		Santa Margarita manzanita	28.7	3.4	12.1	13.1		
		shining navarretia	26.2	3.4	10.6	12.3		
		straight-awned spineflower	28.7	3.4	12.1	13.1		
		yellow-flowered eriastrum	28.7	3.4	12.1	13.1		
		Wellsona Siding	Fish and Wildlife	American badger	38.3	3.2	4.5	30.6
				Burrowing owl	38.3	3.2	4.5	30.6
California condor	38.3			3.2	4.5	30.6		
California horned lark	42.0			3.3	5.4	33.3		
California linderiella	38.3			3.2	4.5	30.6		
California red-legged frog	67.6			10.4	16.3	40.9		
coast horned lizard	68.1			9.3	13.3	45.5		
Coast range newt	69.1			14.2	23.2	31.7		
Conservancy fairy shrimp	38.3			3.2	4.5	30.6		
Ferruginous hawk	42.0			3.3	5.4	33.3		
Foothill yellow-legged frog	4.3			0.0	0.1	4.1		
golden eagle	107.4			17.4	27.7	62.3		
Grasshopper sparrow	38.3			3.2	4.5	30.6		
great blue heron	25.6			7.2	11.7	6.7		
hoary bat	69.7			14.2	23.2	32.2		
least Bell's vireo	3.6			0.8	1.6	1.2		
Lompoc grasshopper	38.3			3.2	4.5	30.6		
Merlin	42.0			3.3	5.4	33.3		
pallid bat	69.7			14.2	23.2	32.2		
prairie falcon	42.0			3.3	5.4	33.3		
purple martin	39.9			8.1	14.4	17.3		
San Joaquin kit fox	38.3			3.2	4.5	30.6		
San Joaquin pocket mouse	38.3			3.2	4.5	30.6		
San Joaquin whipsnake	38.3			3.2	4.5	30.6		
silvery legless lizard	38.3			3.2	4.5	30.6		

Species Impact Study Area - Summary

Wellsona Siding	Fish and Wildlife	steelhead -				
		south/central				
		California coast DPS	4.3	0.0	0.1	4.1
		tricolored blackbird	70.7	11.3	18.7	40.6
		two-striped garter				
		snake	29.3	7.2	11.8	10.3
		vernal pool fairy				
		shrimp	38.3	3.2	4.5	30.6
		western pond turtle	29.3	7.2	11.8	10.3
		western spadefoot				
		toad	42.5	3.2	4.6	34.7
Wellsona/Paso Robles	Fish and Wildlife	White-tailed kite	38.8	3.2	4.5	31.2
		yellow warbler	0.6	0.0	0.0	0.6
		American badger	14.7	3.8	8.8	2.2
		Burrowing owl	14.7	3.8	8.8	2.2
		California condor	14.7	3.8	8.8	2.2
		California horned lark	21.6	3.8	8.9	8.8
		California linderiella	14.7	3.8	8.8	2.2
		California red-legged				
		frog	15.3	3.8	8.8	2.8
		coast horned lizard	27.3	3.8	11.0	12.5
		Coast range newt	15.1	0.0	3.3	11.8
		Conservancy fairy				
		shrimp	14.7	3.8	8.8	2.2
		Ferruginous hawk	21.6	3.8	8.9	8.8
		golden eagle	29.9	3.8	12.1	14.0
		Grasshopper sparrow	14.7	3.8	8.8	2.2
		great blue heron	0.6	0.0	0.0	0.6
		hoary bat	15.1	0.0	3.3	11.8
		Lompoc grasshopper	14.7	3.8	8.8	2.2
Merlin	21.6	3.8	8.9	8.8		
pallid bat	15.1	0.0	3.3	11.8		
prairie falcon	21.6	3.8	8.9	8.8		
purple martin	2.6	0.0	1.0	1.5		
San Joaquin kit fox	14.7	3.8	8.8	2.2		
San Joaquin pocket						
mouse	14.7	3.8	8.8	2.2		
San Joaquin whipsnake	14.7	3.8	8.8	2.2		
silvery legless lizard	14.7	3.8	8.8	2.2		
tricolored blackbird	22.1	3.8	8.9	9.4		
two-striped garter						
snake	0.6	0.0	0.0	0.6		
vernal pool fairy						
shrimp	14.7	3.8	8.8	2.2		
western pond turtle	0.6	0.0	0.0	0.6		

Species Impact Study Area - Summary

	Fish and Wildlife	western spadefoot toad	14.7	3.8	8.8	2.2		
		White-tailed kite	14.7	3.8	8.8	2.2		
	Plants	dwarf calycadenia	29.9	3.8	12.1	14.0		
		Jared's pepper-grass	14.7	3.8	8.8	2.2		
		Lemmon's jewel-flower	14.7	3.8	8.8	2.2		
		round-leaved filaree	29.9	3.8	12.1	14.0		
		Santa Cruz Mountains pussypaws	15.1		3.3	11.8		
		Santa Lucia dwarf rush	14.7	3.8	8.8	2.2		
		shining navarretia	29.9	3.8	12.1	14.0		
		woodland woollythreads	29.9	3.8	12.1	14.0		
		Bradley Siding	Plants	Davidson's bush-mallow	25.1	3.7	4.5	16.9
				Hardham's evening-primrose	2.2			2.2
				Indian Valley spineflower	2.2			2.2
				Santa Cruz microseris	229.9	48.0	34.1	147.8
shining navarretia	232.1			48.0	34.1	150.0		
New Chalone	Plants			chaparral ragwort	1.0		0.1	0.9
		Indian Valley bush-mallow	1.0		0.1	0.9		
		Lemmon's jewel-flower	81.3	10.4	21.9	49.0		
		Monterey spineflower	82.4	10.4	22.0	49.9		
Wellsona Siding	Plants	dwarf calycadenia	107.4	17.4	27.7	62.3		
		Indian Valley spineflower	69.1	14.2	23.2	31.7		
		Jared's pepper-grass	38.3	3.2	4.5	30.6		
		Lemmon's jewel-flower	38.3	3.2	4.5	30.6		
		round-leaved filaree	107.4	17.4	27.7	62.3		
		Santa Cruz Mountains pussypaws	69.1	14.2	23.2	31.7		
		Santa Lucia dwarf rush	38.3	3.2	4.5	30.6		
		shining navarretia	107.4	17.4	27.7	62.3		
		woodland woollythreads	107.4	17.4	27.7	62.3		

Species Impact Study Area - Detail

Study Area	Land Cover	Taxonomic Group	Species	Sum of	Sum of	Sum of	Sum of Areas			
				Existing				Permanent	Temporary	Potentially
				Land	Impacts	Impacts	Indirectly			
				Cover in			Affected			
				Study						
				Area						
Bradley Siding	Annual Grassland	Fish and Wildlife	American badger	229.9	48.0	34.1	147.8			
			Burrowing owl	229.9	48.0	34.1	147.8			
			California condor	229.9	48.0	34.1	147.8			
			California horned lark	229.9	48.0	34.1	147.8			
			California linderiella	229.9	48.0	34.1	147.8			
			California red-legged frog	229.9	48.0	34.1	147.8			
			California tiger salamander	229.9	48.0	34.1	147.8			
			coast horned lizard	229.9	48.0	34.1	147.8			
			Conservancy fairy shrimp	229.9	48.0	34.1	147.8			
			Ferruginous hawk	229.9	48.0	34.1	147.8			
			golden eagle	229.9	48.0	34.1	147.8			
			Grasshopper sparrow	229.9	48.0	34.1	147.8			
			Lompoc grasshopper	229.9	48.0	34.1	147.8			
			Merlin	229.9	48.0	34.1	147.8			
			prairie falcon	229.9	48.0	34.1	147.8			
			Salinas pocket mouse	229.9	48.0	34.1	147.8			
			San Joaquin kit fox	229.9	48.0	34.1	147.8			
			San Joaquin pocket mouse	229.9	48.0	34.1	147.8			
			San Joaquin whipsnake	229.9	48.0	34.1	147.8			
			silvery legless lizard	229.9	48.0	34.1	147.8			
			tricolored blackbird	229.9	48.0	34.1	147.8			
			vernal pool fairy shrimp	229.9	48.0	34.1	147.8			
			western spadefoot toad	229.9	48.0	34.1	147.8			
						White-tailed kite	229.9	48.0	34.1	147.8
			Blue Oak Woodland		Fish and Wildlife	coast horned lizard	2.2	0.0	0.0	2.2
Coast range newt	2.2	0.0				0.0	2.2			
golden eagle	2.2	0.0				0.0	2.2			
hoary bat	2.2	0.0				0.0	2.2			
pallid bat	2.2	0.0				0.0	2.2			
Riverine		Fish and Wildlife	bank swallow	3.2	0.3	0.7	2.2			
			California red-legged frog	3.2	0.3	0.7	2.2			
			Foothill yellow-legged frog	3.2	0.3	0.7	2.2			
			steelhead - south/central							
			California coast DPS	3.2	0.3	0.7	2.2			
			two-striped garter snake	3.2	0.3	0.7	2.2			
			western pond turtle	3.2	0.3	0.7	2.2			
			western spadefoot toad	3.2	0.3	0.7	2.2			

Species Impact Study Area - Detail

Valley Foothill Riparian	Fish and Wildlife	bank swallow	22.9	3.7	4.5	14.7	
		great blue heron	22.9	3.7	4.5	14.7	
		hoary bat	22.9	3.7	4.5	14.7	
		least Bell's vireo	22.9	3.7	4.5	14.7	
		pallid bat	22.9	3.7	4.5	14.7	
		purple martin	22.9	3.7	4.5	14.7	
		tricolored blackbird	22.9	3.7	4.5	14.7	
		White-tailed kite	22.9	3.7	4.5	14.7	
		yellow warbler	22.9	3.7	4.5	14.7	
		Coburn	Annual Grassland	Fish and Wildlife	American badger	108.2	5.5
Burrowing owl	108.2				5.5	32.2	70.6
California condor	108.2				5.5	32.2	70.6
California horned lark	108.2				5.5	32.2	70.6
California red-legged frog	108.2				5.5	32.2	70.6
California tiger salamander	108.2				5.5	32.2	70.6
coast horned lizard	108.2				5.5	32.2	70.6
Ferruginous hawk	108.2				5.5	32.2	70.6
golden eagle	108.2				5.5	32.2	70.6
Grasshopper sparrow	108.2				5.5	32.2	70.6
Merlin	108.2				5.5	32.2	70.6
prairie falcon	108.2				5.5	32.2	70.6
Salinas pocket mouse	108.2				5.5	32.2	70.6
San Joaquin kit fox	108.2				5.5	32.2	70.6
San Joaquin whipsnake	108.2				5.5	32.2	70.6
silvery legless lizard	108.2				5.5	32.2	70.6
tricolored blackbird	108.2				5.5	32.2	70.6
western spadefoot toad	108.2				5.5	32.2	70.6
White-tailed kite	108.2				5.5	32.2	70.6
Plants	Lemmon's jewel-flower				108.2	5.5	32.2
Barren	Fish and Wildlife	NONE	15.0	3.6	8.2	3.2	
		Plants	NONE	15.0	3.6	8.2	3.2
Coastal Scrub	Fish and Wildlife	coast horned lizard	0.2	0.0	0.0	0.2	
		Ferruginous hawk	0.2	0.0	0.0	0.2	
		golden eagle	0.2	0.0	0.0	0.2	
		Grasshopper sparrow	0.2	0.0	0.0	0.2	
		prairie falcon	0.2	0.0	0.0	0.2	
		Salinas pocket mouse	0.2	0.0	0.0	0.2	
		San Joaquin whipsnake	0.2	0.0	0.0	0.2	
		Plants	Jolon clarkia	0.2			0.2

Species Impact Study Area - Detail

	Cropland	Fish and Wildlife	California horned lark	163.8	18.0	64.7	81.1		
			Ferruginous hawk	163.8	18.0	64.7	81.1		
			Merlin	163.8	18.0	64.7	81.1		
			prairie falcon	163.8	18.0	64.7	81.1		
			tricolored blackbird	163.8	18.0	64.7	81.1		
			Plants	NONE	163.8	18.0	64.7	81.1	
	Riverine	Fish and Wildlife	bank swallow	0.4	0.0	0.1	0.3		
			California red-legged frog	0.4	0.0	0.1	0.3		
			Foothill yellow-legged frog	0.4	0.0	0.1	0.3		
			steelhead - south/central California coast DPS	0.4	0.0	0.1	0.3		
			two-striped garter snake	0.4	0.0	0.1	0.3		
			western pond turtle	0.4	0.0	0.1	0.3		
			western spadefoot toad	0.4	0.0	0.1	0.3		
			Plants	NONE	0.4		0.1	0.3	
			Urban	Fish and Wildlife	NONE	7.6	0.5	4.6	2.5
				Plants	NONE	7.6	0.5	4.6	2.5
	Getty/Bradley	Annual Grassland	Fish and Wildlife	American badger	154.1	16.2	54.3	83.6	
Burrowing owl				154.1	16.2	54.3	83.6		
California condor				154.1	16.2	54.3	83.6		
California horned lark				154.1	16.2	54.3	83.6		
California linderella				154.1	16.2	54.3	83.6		
California red-legged frog				154.1	16.2	54.3	83.6		
California tiger salamander				154.1	16.2	54.3	83.6		
coast horned lizard				154.1	16.2	54.3	83.6		
Conservancy fairy shrimp				154.1	16.2	54.3	83.6		
Ferruginous hawk				154.1	16.2	54.3	83.6		
golden eagle				154.1	16.2	54.3	83.6		
Grasshopper sparrow				154.1	16.2	54.3	83.6		
Lompoc grasshopper				154.1	16.2	54.3	83.6		
Merlin				154.1	16.2	54.3	83.6		
prairie falcon				154.1	16.2	54.3	83.6		
Salinas pocket mouse				154.1	16.2	54.3	83.6		
San Joaquin kit fox				154.1	16.2	54.3	83.6		
San Joaquin pocket mouse				154.1	16.2	54.3	83.6		
San Joaquin whipsnake				154.1	16.2	54.3	83.6		
silvery legless lizard				154.1	16.2	54.3	83.6		
tricolored blackbird				154.1	16.2	54.3	83.6		
vernal pool fairy shrimp				154.1	16.2	54.3	83.6		
western spadefoot toad				154.1	16.2	54.3	83.6		
White-tailed kite	154.1	16.2	54.3	83.6					
	Plants	NONE	154.1	16.2	54.3	83.6			

Species Impact Study Area - Detail

Blue Oak Woodland	Fish and Wildlife	coast horned lizard	6.3	0.0	1.3	4.9		
		Coast range newt	6.3	0.0	1.3	4.9		
		golden eagle	6.3	0.0	1.3	4.9		
		hoary bat	6.3	0.0	1.3	4.9		
		pallid bat	6.3	0.0	1.3	4.9		
	Plants	Davidson's bush-mallow	6.3		1.3	4.9		
		Hardham's evening-primrose	6.3		1.3	4.9		
		Jolon clarkia	6.3		1.3	4.9		
		Coastal Scrub	Fish and Wildlife	coast horned lizard	3.3	0.0	0.9	2.4
				Ferruginous hawk	3.3	0.0	0.9	2.4
golden eagle	3.3			0.0	0.9	2.4		
Grasshopper sparrow	3.3			0.0	0.9	2.4		
prairie falcon	3.3			0.0	0.9	2.4		
Plants	Salinas pocket mouse		3.3	0.0	0.9	2.4		
	San Joaquin whipsnake		3.3	0.0	0.9	2.4		
	Davidson's bush-mallow		3.3		0.9	2.4		
	Jolon clarkia		3.3		0.9	2.4		
	Cropland		Fish and Wildlife	California horned lark	3.1	0.2	2.0	0.9
Ferruginous hawk		3.1		0.2	2.0	0.9		
Merlin		3.1		0.2	2.0	0.9		
prairie falcon		3.1		0.2	2.0	0.9		
tricolored blackbird		3.1		0.2	2.0	0.9		
Plants		NONE	3.1	0.2	2.0	0.9		
Freshwater Pond		Fish and Wildlife	California red-legged frog	1.4	0.0	0.7	0.8	
	California tiger salamander		1.4	0.0	0.7	0.8		
	Coast range newt		1.4	0.0	0.7	0.8		
	great blue heron		1.4	0.0	0.7	0.8		
	tricolored blackbird		1.4	0.0	0.7	0.8		
	two-striped garter snake		1.4	0.0	0.7	0.8		
	western pond turtle		1.4	0.0	0.7	0.8		
	Plants		NONE	1.4	0.0	0.7	0.8	
	Riverine	Fish and Wildlife	bank swallow	15.3	0.3	3.5	11.6	
			California red-legged frog	15.3	0.3	3.5	11.6	
Foothill yellow-legged frog			15.3	0.3	3.5	11.6		
steelhead - south/central								
California coast DPS			15.3	0.3	3.5	11.6		
two-striped garter snake			15.3	0.3	3.5	11.6		
western pond turtle			15.3	0.3	3.5	11.6		
western spadefoot toad			15.3	0.3	3.5	11.6		
Plants		NONE	15.3	0.3	3.5	11.6		
Valley Foothill Riparian		Fish and Wildlife	bank swallow	31.7	3.8	11.7	16.2	
	great blue heron		31.7	3.8	11.7	16.2		
	hoary bat		31.7	3.8	11.7	16.2		
	least Bell's vireo		31.7	3.8	11.7	16.2		
	pallid bat		31.7	3.8	11.7	16.2		
	purple martin		31.7	3.8	11.7	16.2		
	tricolored blackbird		31.7	3.8	11.7	16.2		
	White-tailed kite		31.7	3.8	11.7	16.2		
	yellow warbler		31.7	3.8	11.7	16.2		
	Plants	Abbott's bush-mallow	31.7	3.8	11.7	16.2		
Davidson's bush-mallow	31.7	3.8	11.7	16.2				
Jolon clarkia	31.7	3.8	11.7	16.2				

Species Impact Study Area - Detail

Harlem/Metz	Annual Grassland	Fish and Wildlife	American badger	153.3	15.0	52.8	85.5			
			Burrowing owl	153.3	15.0	52.8	85.5			
			California condor	153.3	15.0	52.8	85.5			
			California horned lark	153.3	15.0	52.8	85.5			
			California red-legged frog	153.3	15.0	52.8	85.5			
			California tiger salamander	153.3	15.0	52.8	85.5			
			coast horned lizard	153.3	15.0	52.8	85.5			
			Ferruginous hawk	153.3	15.0	52.8	85.5			
			golden eagle	153.3	15.0	52.8	85.5			
			Grasshopper sparrow	153.3	15.0	52.8	85.5			
			Merlin	153.3	15.0	52.8	85.5			
			prairie falcon	153.3	15.0	52.8	85.5			
			Salinas pocket mouse	153.3	15.0	52.8	85.5			
			San Joaquin kit fox	153.3	15.0	52.8	85.5			
			San Joaquin whipsnake	153.3	15.0	52.8	85.5			
			silvery legless lizard	153.3	15.0	52.8	85.5			
			tricolored blackbird	153.3	15.0	52.8	85.5			
			western spadefoot toad	153.3	15.0	52.8	85.5			
						White-tailed kite	153.3	15.0	52.8	85.5
				Plants		Lemmon's jewel-flower	153.3	15.0	52.8	85.5
			Monterey spineflower	153.3	15.0	52.8	85.5			
Barren	Fish and Wildlife	NONE		5.0	0.0	0.3	4.7			
	Plants	NONE		5.0		0.3	4.7			
Blue Oak Woodland	Fish and Wildlife	coast horned lizard		0.1	0.0	0.0	0.1			
		Coast range newt		0.1	0.0	0.0	0.1			
		golden eagle		0.1	0.0	0.0	0.1			
		hoary bat		0.1	0.0	0.0	0.1			
		pallid bat		0.1	0.0	0.0	0.1			
	Plants	chaparral ragwort		0.1			0.1			
		Indian Valley bush-mallow		0.1			0.1			
		Jolon clarkia		0.1			0.1			
		Monterey spineflower		0.1			0.1			
		robust spineflower		0.1			0.1			

Species Impact Study Area - Detail

Coastal Oak Woodland	Plants	chaparral ragwort	2.4		0.1	2.3		
		Indian Valley bush-mallow	2.4		0.1	2.3		
		Jolon clarkia	2.4		0.1	2.3		
		Monterey spineflower	2.4		0.1	2.3		
Coastal Scrub	Plants	robust spineflower	2.4		0.1	2.3		
		chaparral ragwort	15.7	1.5	5.6	8.5		
		Jolon clarkia	15.7	1.5	5.6	8.5		
		Monterey spineflower	15.7	1.5	5.6	8.5		
Cropland	Plants	robust spineflower	15.7	1.5	5.6	8.5		
		NONE	260.7	32.2	116.8	111.7		
Emergent Wetland	Plants	NONE	1.3	0.6	0.7	0.0		
Freshwater Forested/Shrub Wetland	Fish and Wildlife	least Bell's vireo	1.1	0.0	0.0	1.1		
		tricolored blackbird	1.1	0.0	0.0	1.1		
		Jolon clarkia	1.1			1.1		
Freshwater Pond	Fish and Wildlife	California red-legged frog	0.1	0.0	0.0	0.1		
		California tiger salamander	0.1	0.0	0.0	0.1		
		Coast range newt	0.1	0.0	0.0	0.1		
		great blue heron	0.1	0.0	0.0	0.1		
		tricolored blackbird	0.1	0.0	0.0	0.1		
		two-striped garter snake	0.1	0.0	0.0	0.1		
		western pond turtle	0.1	0.0	0.0	0.1		
		NONE	0.1			0.1		
		Riverine	Fish and Wildlife	bank swallow	1.0	0.0	0.1	0.9
				California red-legged frog	1.0	0.0	0.1	0.9
Foothill yellow-legged frog	1.0			0.0	0.1	0.9		
steelhead - south/central								
California coast DPS	1.0			0.0	0.1	0.9		
two-striped garter snake	1.0			0.0	0.1	0.9		
western pond turtle	1.0			0.0	0.1	0.9		
western spadefoot toad	1.0			0.0	0.1	0.9		
Urban	Plants	NONE	1.0		0.1	0.9		
	Fish and Wildlife	NONE	3.8	0.3	2.7	0.8		
Valley Foothill Riparian	Fish and Wildlife	NONE	3.8	0.3	2.7	0.8		
		bank swallow	4.2	0.3	1.0	2.9		
		great blue heron	4.2	0.3	1.0	2.9		
		hoary bat	4.2	0.3	1.0	2.9		
		least Bell's vireo	4.2	0.3	1.0	2.9		
		pallid bat	4.2	0.3	1.0	2.9		
		purple martin	4.2	0.3	1.0	2.9		
		tricolored blackbird	4.2	0.3	1.0	2.9		
		White-tailed kite	4.2	0.3	1.0	2.9		
		yellow warbler	4.2	0.3	1.0	2.9		
Valley Foothill Riparian	Plants	Jolon clarkia	4.2	0.3	1.0	2.9		

Species Impact Study Area - Detail

Henry/Santa Margarita	Annual Grassland	Fish and Wildlife	American badger	113.7	13.3	44.5	55.8			
			Burrowing owl	113.7	13.3	44.5	55.8			
			California condor	113.7	13.3	44.5	55.8			
			California horned lark	113.7	13.3	44.5	55.8			
			California linderiella	113.7	13.3	44.5	55.8			
			California red-legged frog	113.7	13.3	44.5	55.8			
			coast horned lizard	113.7	13.3	44.5	55.8			
			Conservancy fairy shrimp	113.7	13.3	44.5	55.8			
			Ferruginous hawk	113.7	13.3	44.5	55.8			
			golden eagle	113.7	13.3	44.5	55.8			
			Grasshopper sparrow	113.7	13.3	44.5	55.8			
			Lompoc grasshopper	113.7	13.3	44.5	55.8			
			Merlin	113.7	13.3	44.5	55.8			
			prairie falcon	113.7	13.3	44.5	55.8			
			San Joaquin kit fox	113.7	13.3	44.5	55.8			
			San Joaquin pocket mouse	113.7	13.3	44.5	55.8			
			San Joaquin whipsnake	113.7	13.3	44.5	55.8			
			silvery legless lizard	113.7	13.3	44.5	55.8			
			tricolored blackbird	113.7	13.3	44.5	55.8			
			vernal pool fairy shrimp	113.7	13.3	44.5	55.8			
			western spadefoot toad	113.7	13.3	44.5	55.8			
			White-tailed kite	113.7	13.3	44.5	55.8			
				Plants						
						caper-fruited tropidocarpum	113.7	13.3	44.5	55.8
						Eastwood's larkspur	113.7	13.3	44.5	55.8
						hooked popcornflower	113.7	13.3	44.5	55.8
						Hoover's bent grass	113.7	13.3	44.5	55.8
						most beautiful jewel-flower	113.7	13.3	44.5	55.8
						pale-yellow layia	113.7	13.3	44.5	55.8
						round-leaved filaree	113.7	13.3	44.5	55.8
			San Luis mariposa-lily		113.7	13.3	44.5	55.8		
			San Luis Obispo sedge		113.7	13.3	44.5	55.8		
			shining navarretia	113.7	13.3	44.5	55.8			
		Blue Oak-Foothill Pine	Fish and Wildlife	coast horned lizard	56.5	6.1	25.1	25.3		
				Coast range newt	56.5	6.1	25.1	25.3		
	golden eagle			56.5	6.1	25.1	25.3			
	hoary bat			56.5	6.1	25.1	25.3			
	pallid bat			56.5	6.1	25.1	25.3			
	purple martin			56.5	6.1	25.1	25.3			

Species Impact Study Area - Detail

Blue Oak-Foothill	Plants	Brewer's spineflower	56.5	6.1	25.1	25.3		
		Hardham's evening-primrose	56.5	6.1	25.1	25.3		
		hooked popcornflower	56.5	6.1	25.1	25.3		
		Hoover's bent grass	56.5	6.1	25.1	25.3		
		mesa horkelia	56.5	6.1	25.1	25.3		
		most beautiful jewel-flower	56.5	6.1	25.1	25.3		
		pale-yellow layia	56.5	6.1	25.1	25.3		
		Palmer's monardella	56.5	6.1	25.1	25.3		
		round-leaved filaree	56.5	6.1	25.1	25.3		
		San Luis Obispo County lupine	56.5	6.1	25.1	25.3		
		Santa Lucia manzanita	56.5	6.1	25.1	25.3		
		Santa Margarita manzanita	56.5	6.1	25.1	25.3		
		straight-awned spineflower	56.5	6.1	25.1	25.3		
		yellow-flowered eriastrum	56.5	6.1	25.1	25.3		
		Coastal Oak Woodland	Fish and Wildlife	coast horned lizard	4.8	0.0	1.6	3.3
				Coast range newt	4.8	0.0	1.6	3.3
				golden eagle	4.8	0.0	1.6	3.3
hoary bat	4.8			0.0	1.6	3.3		
pallid bat	4.8			0.0	1.6	3.3		
purple martin	4.8			0.0	1.6	3.3		
Brewer's spineflower	4.8			0.0	1.6	3.3		
Plants	Hardham's evening-primrose		4.8	0.0	1.6	3.3		
	hooked popcornflower		4.8	0.0	1.6	3.3		
	Hoover's bent grass		4.8	0.0	1.6	3.3		
	mesa horkelia		4.8	0.0	1.6	3.3		
	most beautiful jewel-flower		4.8	0.0	1.6	3.3		
	pale-yellow layia		4.8	0.0	1.6	3.3		
	Palmer's monardella		4.8	0.0	1.6	3.3		
	round-leaved filaree		4.8	0.0	1.6	3.3		
	San Luis Obispo County lupine		4.8	0.0	1.6	3.3		
	Santa Lucia manzanita		4.8	0.0	1.6	3.3		
Santa Margarita manzanita	4.8	0.0	1.6	3.3				
straight-awned spineflower	4.8	0.0	1.6	3.3				
yellow-flowered eriastrum	4.8	0.0	1.6	3.3				

Species Impact Study Area - Detail

Coastal Scrub	Fish and Wildlife	coast horned lizard	23.7	2.7	10.1	10.9
		Ferruginous hawk	23.7	2.7	10.1	10.9
		golden eagle	23.7	2.7	10.1	10.9
		Grasshopper sparrow	23.7	2.7	10.1	10.9
		prairie falcon	23.7	2.7	10.1	10.9
		San Joaquin whipsnake	23.7	2.7	10.1	10.9
	Plants	Brewer's spineflower	23.7	2.7	10.1	10.9
		mesa horkelia	23.7	2.7	10.1	10.9
		pale-yellow layia	23.7	2.7	10.1	10.9
		San Luis mariposa-lily	23.7	2.7	10.1	10.9
		San Luis Obispo sedge	23.7	2.7	10.1	10.9
		straight-awned spineflower	23.7	2.7	10.1	10.9
Cropland	Fish and Wildlife	California horned lark	17.1	0.8	4.8	11.5
		Ferruginous hawk	17.1	0.8	4.8	11.5
		Merlin	17.1	0.8	4.8	11.5
		prairie falcon	17.1	0.8	4.8	11.5
		tricolored blackbird	17.1	0.8	4.8	11.5
	Plants	NONE	17.1	0.8	4.8	11.5
Emergent Wetland	Fish and Wildlife	California red-legged frog	11.2	1.4	3.4	6.4
		great blue heron	11.2	1.4	3.4	6.4
		San Luis pyrg	11.2	1.4	3.4	6.4
		tricolored blackbird	11.2	1.4	3.4	6.4
		two-striped garter snake	11.2	1.4	3.4	6.4
		western pond turtle	11.2	1.4	3.4	6.4
	Plants	NONE	11.2	1.4	3.4	6.4
Freshwater Forested/Shrub Wetland	Fish and Wildlife	least Bell's vireo	14.0	0.4	3.3	10.3
		tricolored blackbird	14.0	0.4	3.3	10.3
	Plants	NONE	14.0	0.4	3.3	10.3
Freshwater Pond	Fish and Wildlife	California red-legged frog	2.6	0.1	1.1	1.4
		Coast range newt	2.6	0.1	1.1	1.4
		great blue heron	2.6	0.1	1.1	1.4
		tricolored blackbird	2.6	0.1	1.1	1.4
		two-striped garter snake	2.6	0.1	1.1	1.4
	western pond turtle	2.6	0.1	1.1	1.4	
Plants	NONE	2.6	0.1	1.1	1.4	

Species Impact Study Area - Detail

Riverine	Fish and Wildlife	California red-legged frog	15.2	0.1	4.8	10.3	
		Foothill yellow-legged frog	15.2	0.1	4.8	10.3	
		steelhead - south/central California coast DPS	15.2	0.1	4.8	10.3	
		two-striped garter snake	15.2	0.1	4.8	10.3	
		western pond turtle	15.2	0.1	4.8	10.3	
		western spadefoot toad	15.2	0.1	4.8	10.3	
	Plants	NONE	15.2	0.1	4.8	10.3	
	Unknown Shrub Type	Fish and Wildlife	coast horned lizard	1.6	0.0	0.0	1.6
			Ferruginous hawk	1.6	0.0	0.0	1.6
			golden eagle	1.6	0.0	0.0	1.6
			Grasshopper sparrow	1.6	0.0	0.0	1.6
			prairie falcon	1.6	0.0	0.0	1.6
			San Joaquin whipsnake	1.6	0.0	0.0	1.6
		Plants	Brewer's spineflower	1.6		0.0	1.6
			dwarf soaproot	1.6		0.0	1.6
			Eastwood's larkspur	1.6		0.0	1.6
Hardham's evening-primrose			1.6		0.0	1.6	
hooked popcornflower			1.6		0.0	1.6	
Hoover's bent grass			1.6		0.0	1.6	
mesa horkelia			1.6		0.0	1.6	
most beautiful jewel-flower			1.6		0.0	1.6	
Palmer's monardella			1.6		0.0	1.6	
San Benito fritillary			1.6		0.0	1.6	
San Luis mariposa-lily	1.6		0.0	1.6			
San Luis Obispo County	Plants	lupine	1.6		0.0	1.6	
		San Luis Obispo sedge	1.6		0.0	1.6	
		Santa Lucia manzanita	1.6		0.0	1.6	
		Santa Margarita manzanita	1.6		0.0	1.6	
		straight-awned spineflower	1.6		0.0	1.6	
		yellow-flowered eriastrum	1.6		0.0	1.6	
Urban	Fish and Wildlife	NONE	31.8	1.7	6.5	23.6	
	Plants	NONE	31.8	1.7	6.5	23.6	

Species Impact Study Area - Detail

Henry/Santa Margarita	Valley Oak Woodland	Fish and Wildlife	coast horned lizard	4.0	0.0	0.9	3.1
			Coast range newt	4.0	0.0	0.9	3.1
			hoary bat	4.0	0.0	0.9	3.1
			pallid bat	4.0	0.0	0.9	3.1
			purple martin	4.0	0.0	0.9	3.1
			White-tailed kite	4.0	0.0	0.9	3.1
			Plants	NONE	4.0		0.9
King City Siding	Annual Grassland	Fish and Wildlife	American badger	16.8	3.5	4.0	9.2
			Burrowing owl	16.8	3.5	4.0	9.2
			California condor	16.8	3.5	4.0	9.2
			California horned lark	16.8	3.5	4.0	9.2
			California red-legged frog	16.8	3.5	4.0	9.2
			California tiger salamander	16.8	3.5	4.0	9.2
			coast horned lizard	16.8	3.5	4.0	9.2
			Ferruginous hawk	16.8	3.5	4.0	9.2
			golden eagle	16.8	3.5	4.0	9.2
			Grasshopper sparrow	16.8	3.5	4.0	9.2
			Merlin	16.8	3.5	4.0	9.2
			prairie falcon	16.8	3.5	4.0	9.2
			Salinas pocket mouse	16.8	3.5	4.0	9.2
			San Joaquin kit fox	16.8	3.5	4.0	9.2
			silvery legless lizard	16.8	3.5	4.0	9.2
			tricolored blackbird	16.8	3.5	4.0	9.2
			western spadefoot toad	16.8	3.5	4.0	9.2
			White-tailed kite	16.8	3.5	4.0	9.2
			Plants	recurved larkspur	16.8	3.5	4.0
	Cropland	Fish and Wildlife	California horned lark	102.4	7.7	11.5	83.2
			Ferruginous hawk	102.4	7.7	11.5	83.2
			Merlin	102.4	7.7	11.5	83.2
			prairie falcon	102.4	7.7	11.5	83.2
			tricolored blackbird	102.4	7.7	11.5	83.2
			Plants	NONE	102.4	7.7	11.5
	Emergent Wetland	Fish and Wildlife	California red-legged frog	0.7	0.0	0.1	0.7
			California tiger salamander	0.7	0.0	0.1	0.7
			great blue heron	0.7	0.0	0.1	0.7
			tricolored blackbird	0.7	0.0	0.1	0.7
			two-striped garter snake	0.7	0.0	0.1	0.7
			western pond turtle	0.7	0.0	0.1	0.7
			Plants	NONE	0.7		0.1
Freshwater Forested/Shrub Wetland	Plants	Davidson's bush-mallow	0.4	0.1	0.1	0.3	
		Jolon clarkia	0.4	0.1	0.1	0.3	

Species Impact Study Area - Detail

King City Siding	Riverine	Plants	NONE	0.3	0.0	0.1	0.2		
	Urban	Plants	NONE	87.8	13.8	13.7	60.4		
McKay/Wellson	Annual Grassland	Plants	dwarf calycadenia	94.2	8.6	32.3	53.2		
			hooked popcornflower	94.2	8.6	32.3	53.2		
			Lemmon's jewel-flower	94.2	8.6	32.3	53.2		
			round-leaved filaree	94.2	8.6	32.3	53.2		
			Santa Cruz microseris	94.2	8.6	32.3	53.2		
			Santa Lucia dwarf rush	94.2	8.6	32.3	53.2		
			shining navarretia	94.2	8.6	32.3	53.2		
			woodland woollythreads	94.2	8.6	32.3	53.2		
	Blue Oak Woodland	Fish and Wildlife	coast horned lizard	19.1	2.4	6.0	10.7		
			Coast range newt	19.1	2.4	6.0	10.7		
			golden eagle	19.1	2.4	6.0	10.7		
			hoary bat	19.1	2.4	6.0	10.7		
			pallid bat	19.1	2.4	6.0	10.7		
			Plants	dwarf calycadenia	19.1	2.4	6.0	10.7	
				Hardham's evening-primrose	19.1	2.4	6.0	10.7	
				hooked popcornflower	19.1	2.4	6.0	10.7	
				Indian Valley spineflower	19.1	2.4	6.0	10.7	
				round-leaved filaree	19.1	2.4	6.0	10.7	
				shining navarretia	19.1	2.4	6.0	10.7	
				woodland woollythreads	19.1	2.4	6.0	10.7	
				Coastal Oak Woodland	Fish and Wildlife	coast horned lizard	29.7	4.6	12.4
			Coast range newt			29.7	4.6	12.4	12.7
	golden eagle	29.7	4.6			12.4	12.7		
	hoary bat	29.7	4.6			12.4	12.7		
	pallid bat	29.7	4.6			12.4	12.7		
	purple martin	29.7	4.6			12.4	12.7		
	Plants	dwarf calycadenia	29.7			4.6	12.4	12.7	
		Hardham's evening-primrose	29.7			4.6	12.4	12.7	
		hooked popcornflower	29.7			4.6	12.4	12.7	
		Indian Valley spineflower	29.7			4.6	12.4	12.7	
		round-leaved filaree	29.7			4.6	12.4	12.7	
		shining navarretia	29.7			4.6	12.4	12.7	
woodland woollythreads		29.7	4.6			12.4	12.7		
Cropland		Plants	NONE			24.2	3.4	11.5	9.2

Species Impact Study Area - Detail

Emergent Wetland	Fish and Wildlife	California red-legged frog	22.9	7.2	12.6	3.1	
		California tiger salamander	22.9	7.2	12.6	3.1	
		great blue heron	22.9	7.2	12.6	3.1	
		tricolored blackbird	22.9	7.2	12.6	3.1	
		two-striped garter snake	22.9	7.2	12.6	3.1	
		western pond turtle	22.9	7.2	12.6	3.1	
	Plants	dwarf calycadenia	22.9	7.2	12.6	3.1	
	Freshwater Forested/Shrub Wetland	Fish and Wildlife	least Bell's vireo	2.6	0.7	1.2	0.8
			tricolored blackbird	2.6	0.7	1.2	0.8
		Plants	NONE	2.6	0.7	1.2	0.8
	Riverine	Fish and Wildlife	California red-legged frog	11.0	0.0	0.1	10.9
			Foothill yellow-legged frog	11.0	0.0	0.1	10.9
			steelhead - south/central California coast DPS	11.0	0.0	0.1	10.9
			two-striped garter snake	11.0	0.0	0.1	10.9
			western pond turtle	11.0	0.0	0.1	10.9
			western spadefoot toad	11.0	0.0	0.1	10.9
		Plants	NONE	11.0		0.1	10.9
	Urban	Fish and Wildlife	NONE	89.6	6.7	31.5	51.4
		Plants	NONE	89.6	6.7	31.5	51.4
New Chalone Creek Siding	Annual Grassland	Plants	Lemmon's jewel-flower	81.3	10.4	21.9	49.0
		Monterey spineflower	81.3	10.4	21.9	49.0	
	Barren	Plants	NONE	4.9	0.5	0.6	3.7
	Coastal Oak Woodland	Plants	chaparral ragwort	1.0		0.1	0.9
			Indian Valley bush-mallow	1.0		0.1	0.9
			Monterey spineflower	1.0		0.1	0.9
	Cropland	Plants	NONE	80.8	13.2	38.5	29.1
	Emergent Wetland	Plants	NONE	1.3	0.6	0.7	0.0
	Freshwater Pond	Plants	NONE	0.1			0.1
	Riverine	Plants	NONE	0.0			0.0
Valley Foothill Riparian	Plants	NONE	3.1	1.1	1.2	0.9	
New Chalone Creek	Annual Grassland	Fish and Wildlife	American badger	81.3	10.4	21.9	49.0
			Burrowing owl	81.3	10.4	21.9	49.0
			California condor	81.3	10.4	21.9	49.0
			California horned lark	81.3	10.4	21.9	49.0
			California red-legged frog	81.3	10.4	21.9	49.0
			California tiger salamander	81.3	10.4	21.9	49.0
			coast horned lizard	81.3	10.4	21.9	49.0
			Ferruginous hawk	81.3	10.4	21.9	49.0
			golden eagle	81.3	10.4	21.9	49.0
			Grasshopper sparrow	81.3	10.4	21.9	49.0
			Merlin	81.3	10.4	21.9	49.0
			prairie falcon	81.3	10.4	21.9	49.0
			Salinas pocket mouse	81.3	10.4	21.9	49.0
			San Joaquin kit fox	81.3	10.4	21.9	49.0
			San Joaquin whipsnake	81.3	10.4	21.9	49.0
			silvery legless lizard	81.3	10.4	21.9	49.0
			tricolored blackbird	81.3	10.4	21.9	49.0
			western spadefoot toad	81.3	10.4	21.9	49.0
			White-tailed kite	81.3	10.4	21.9	49.0
	Barren	Fish and Wildlife	NONE	4.9	0.5	0.6	3.7
	Coastal Oak Woodland	Fish and Wildlife	coast horned lizard	1.0	0.0	0.1	0.9
			Coast range newt	1.0	0.0	0.1	0.9
			golden eagle	1.0	0.0	0.1	0.9
			hoary bat	1.0	0.0	0.1	0.9
			pallid bat	1.0	0.0	0.1	0.9
			purple martin	1.0	0.0	0.1	0.9

Species Impact Study Area - Detail

	Cropland	Fish and Wildlife	California horned lark	80.8	13.2	38.5	29.1
			Ferruginous hawk	80.8	13.2	38.5	29.1
			Merlin	80.8	13.2	38.5	29.1
			prairie falcon	80.8	13.2	38.5	29.1
			tricolored blackbird	80.8	13.2	38.5	29.1
	Emergent Wetland	Fish and Wildlife	California red-legged frog	1.3	0.6	0.7	0.0
			California tiger salamander	1.3	0.6	0.7	0.0
			great blue heron	1.3	0.6	0.7	0.0
			tricolored blackbird	1.3	0.6	0.7	0.0
			two-striped garter snake	1.3	0.6	0.7	0.0
			western pond turtle	1.3	0.6	0.7	0.0
	Freshwater Pond	Fish and Wildlife	California red-legged frog	0.1	0.0	0.0	0.1
			California tiger salamander	0.1	0.0	0.0	0.1
			Coast range newt	0.1	0.0	0.0	0.1
			great blue heron	0.1	0.0	0.0	0.1
			tricolored blackbird	0.1	0.0	0.0	0.1
			two-striped garter snake	0.1	0.0	0.0	0.1
			western pond turtle	0.1	0.0	0.0	0.1
	Riverine	Fish and Wildlife	bank swallow	0.0	0.0	0.0	0.0
			California red-legged frog	0.0	0.0	0.0	0.0
			Foothill yellow-legged frog	0.0	0.0	0.0	0.0
			steelhead - south/central				
			California coast DPS	0.0	0.0	0.0	0.0
			two-striped garter snake	0.0	0.0	0.0	0.0
			western pond turtle	0.0	0.0	0.0	0.0
	Valley Foothill Riparian	Fish and Wildlife	bank swallow	3.1	1.1	1.2	0.9
			great blue heron	3.1	1.1	1.2	0.9
			hoary bat	3.1	1.1	1.2	0.9
			least Bell's vireo	3.1	1.1	1.2	0.9
			pallid bat	3.1	1.1	1.2	0.9
			purple martin	3.1	1.1	1.2	0.9
			tricolored blackbird	3.1	1.1	1.2	0.9
			White-tailed kite	3.1	1.1	1.2	0.9
yellow warbler			3.1	1.1	1.2	0.9	
Realign Tracks at MP 165	Annual Grassland	Fish and Wildlife	American badger	51.1	6.3	21.8	23.0
			Burrowing owl	51.1	6.3	21.8	23.0
			California condor	51.1	6.3	21.8	23.0
			California horned lark	51.1	6.3	21.8	23.0
			California red-legged frog	51.1	6.3	21.8	23.0
			California tiger salamander	51.1	6.3	21.8	23.0
			coast horned lizard	51.1	6.3	21.8	23.0
			Ferruginous hawk	51.1	6.3	21.8	23.0
			golden eagle	51.1	6.3	21.8	23.0
			Grasshopper sparrow	51.1	6.3	21.8	23.0
			Merlin	51.1	6.3	21.8	23.0
			prairie falcon	51.1	6.3	21.8	23.0
			Salinas pocket mouse	51.1	6.3	21.8	23.0
			San Joaquin kit fox	51.1	6.3	21.8	23.0
			San Joaquin whipsnake	51.1	6.3	21.8	23.0
			silvery legless lizard	51.1	6.3	21.8	23.0
			tricolored blackbird	51.1	6.3	21.8	23.0
			western spadefoot toad	51.1	6.3	21.8	23.0
			White-tailed kite	51.1	6.3	21.8	23.0
	Plants	Monterey spineflower	51.1	6.3	21.8	23.0	
		recurved larkspur	51.1	6.3	21.8	23.0	
	Cropland	Fish and Wildlife	California horned lark	85.8	6.2	28.7	50.8
			Ferruginous hawk	85.8	6.2	28.7	50.8
			Merlin	85.8	6.2	28.7	50.8
			prairie falcon	85.8	6.2	28.7	50.8
			tricolored blackbird	85.8	6.2	28.7	50.8
	Plants	NONE	85.8	6.2	28.7	50.8	

Species Impact Study Area - Detail

Realign Tracks at MP 165	Freshwater Forested/Shrub Wetland	Fish and Wildlife	least Bell's vireo	0.7	0.1	0.2	0.3
			tricolored blackbird	0.7	0.1	0.2	0.3
			Plants	Jolon clarkia	0.7	0.1	0.2
	Freshwater Pond	Fish and Wildlife	California red-legged frog	0.9	0.2	0.5	0.3
			California tiger salamander	0.9	0.2	0.5	0.3
			Coast range newt	0.9	0.2	0.5	0.3
			great blue heron	0.9	0.2	0.5	0.3
			tricolored blackbird	0.9	0.2	0.5	0.3
			two-striped garter snake	0.9	0.2	0.5	0.3
			western pond turtle	0.9	0.2	0.5	0.3
			Plants	NONE	0.9	0.2	0.5
Realign Tracks at MP 172	Annual Grassland	Fish and Wildlife	American badger	25.7	1.4	8.5	15.9
			Burrowing owl	25.7	1.4	8.5	15.9
			California condor	25.7	1.4	8.5	15.9
			California horned lark	25.7	1.4	8.5	15.9
			California red-legged frog	25.7	1.4	8.5	15.9
			California tiger salamander	25.7	1.4	8.5	15.9
			coast horned lizard	25.7	1.4	8.5	15.9
			Ferruginous hawk	25.7	1.4	8.5	15.9
			golden eagle	25.7	1.4	8.5	15.9
			Grasshopper sparrow	25.7	1.4	8.5	15.9
			Merlin	25.7	1.4	8.5	15.9
			prairie falcon	25.7	1.4	8.5	15.9
			Salinas pocket mouse	25.7	1.4	8.5	15.9
			San Joaquin kit fox	25.7	1.4	8.5	15.9
			San Joaquin whipsnake	25.7	1.4	8.5	15.9
			silvery legless lizard	25.7	1.4	8.5	15.9
			tricolored blackbird	25.7	1.4	8.5	15.9
			western spadefoot toad	25.7	1.4	8.5	15.9
	White-tailed kite	25.7	1.4	8.5	15.9		
	Plants	Monterey spineflower	25.7	1.4	8.5	15.9	
		recurved larkspur	25.7	1.4	8.5	15.9	
	Cropland	Fish and Wildlife	California horned lark	229.6	23.7	90.8	115.1
			Ferruginous hawk	229.6	23.7	90.8	115.1
			Merlin	229.6	23.7	90.8	115.1
			prairie falcon	229.6	23.7	90.8	115.1
			tricolored blackbird	229.6	23.7	90.8	115.1
	Plants	NONE	229.6	23.7	90.8	115.1	
	Riverine	Fish and Wildlife	bank swallow	0.1	0.0	0.0	0.1
			California red-legged frog	0.1	0.0	0.0	0.1
			Foothill yellow-legged frog	0.1	0.0	0.0	0.1
			steelhead - south/central				
California coast DPS			0.1	0.0	0.0	0.1	
two-striped garter snake			0.1	0.0	0.0	0.1	
western pond turtle			0.1	0.0	0.0	0.1	
western spadefoot toad			0.1	0.0	0.0	0.1	
Plants	NONE	0.1			0.1		

Species Impact Study Area - Detail

Realign Tracks at MP 172	Valley Foothill Riparian	Fish and Wildlife	bank swallow	5.1	0.0	0.8	4.3			
			great blue heron	5.1	0.0	0.8	4.3			
			hoary bat	5.1	0.0	0.8	4.3			
			least Bell's vireo	5.1	0.0	0.8	4.3			
			pallid bat	5.1	0.0	0.8	4.3			
			purple martin	5.1	0.0	0.8	4.3			
			tricolored blackbird	5.1	0.0	0.8	4.3			
			White-tailed kite	5.1	0.0	0.8	4.3			
			yellow warbler	5.1	0.0	0.8	4.3			
				Plants	Jolon clarkia	5.1		0.8	4.3	
San Lucas Siding	Annual Grassland	Fish and Wildlife	American badger	70.9	7.7	8.9	54.2			
			Burrowing owl	70.9	7.7	8.9	54.2			
			California condor	70.9	7.7	8.9	54.2			
			California horned lark	70.9	7.7	8.9	54.2			
			California red-legged frog	70.9	7.7	8.9	54.2			
			California tiger salamander	70.9	7.7	8.9	54.2			
			coast horned lizard	70.9	7.7	8.9	54.2			
			Ferruginous hawk	70.9	7.7	8.9	54.2			
			golden eagle	70.9	7.7	8.9	54.2			
			Grasshopper sparrow	70.9	7.7	8.9	54.2			
			Merlin	70.9	7.7	8.9	54.2			
			prairie falcon	70.9	7.7	8.9	54.2			
			Salinas pocket mouse	70.9	7.7	8.9	54.2			
			San Joaquin kit fox	70.9	7.7	8.9	54.2			
			San Joaquin whipsnake	70.9	7.7	8.9	54.2			
			silvery legless lizard	70.9	7.7	8.9	54.2			
			tricolored blackbird	70.9	7.7	8.9	54.2			
			western spadefoot toad	70.9	7.7	8.9	54.2			
			White-tailed kite	70.9	7.7	8.9	54.2			
				Plants	Lemmon's jewel-flower	70.9	7.7	8.9	54.2	
					Monterey spineflower	70.9	7.7	8.9	54.2	
				Cropland	Fish and Wildlife	California horned lark	55.5	8.5	8.5	38.6
						Ferruginous hawk	55.5	8.5	8.5	38.6
						Merlin	55.5	8.5	8.5	38.6
						prairie falcon	55.5	8.5	8.5	38.6
						tricolored blackbird	55.5	8.5	8.5	38.6
				Plants	NONE	55.5	8.5	8.5	38.6	
				Urban	Fish and Wildlife	NONE	38.5	5.8	4.9	27.8
						Plants	NONE	38.5	5.8	4.9
				Valley Foothill Riparian	Fish and Wildlife	bank swallow	3.8	0.9	0.8	2.1
	great blue heron	3.8	0.9			0.8	2.1			
	hoary bat	3.8	0.9			0.8	2.1			
	least Bell's vireo	3.8	0.9			0.8	2.1			
	pallid bat	3.8	0.9			0.8	2.1			
	purple martin	3.8	0.9			0.8	2.1			
	tricolored blackbird	3.8	0.9			0.8	2.1			
	White-tailed kite	3.8	0.9			0.8	2.1			
	yellow warbler	3.8	0.9			0.8	2.1			
	Plants	NONE	3.8			0.9	0.8	2.1		
Second	Annual Grassland	Plants	Blochman's dudleya	38.2	8.9	10.2	19.1			
			Chorro Creek bog thistle	38.2	8.9	10.2	19.1			
			Eastwood's larkspur	38.2	8.9	10.2	19.1			
			hooked popcornflower	38.2	8.9	10.2	19.1			
			Hoover's bent grass	38.2	8.9	10.2	19.1			
			Jones' layia	38.2	8.9	10.2	19.1			
			La Panza mariposa-lily	38.2	8.9	10.2	19.1			
			most beautiful jewel-flower	38.2	8.9	10.2	19.1			
			mouse-gray dudleya	38.2	8.9	10.2	19.1			
			pale-yellow layia	38.2	8.9	10.2	19.1			
			San Luis mariposa-lily	38.2	8.9	10.2	19.1			
			San Luis Obispo sedge	38.2	8.9	10.2	19.1			

Species Impact Study Area - Detail

Second Mainline	Blue Oak Woodland	Plants	Brewer's spineflower	35.1	2.4	5.4	27.4
			chaparral ragwort	35.1	2.4	5.4	27.4
			Chorro Creek bog thistle	35.1	2.4	5.4	27.4
			Hardham's evening-primrose	35.1	2.4	5.4	27.4
			hooked popcornflower	35.1	2.4	5.4	27.4
			Hoover's bent grass	35.1	2.4	5.4	27.4
			La Panza mariposa-lily	35.1	2.4	5.4	27.4
			mesa horkelia	35.1	2.4	5.4	27.4
			most beautiful jewel-flower	35.1	2.4	5.4	27.4
			mouse-gray dudleya	35.1	2.4	5.4	27.4
			pale-yellow layia	35.1	2.4	5.4	27.4
			Palmer's monardella	35.1	2.4	5.4	27.4
			San Luis Obispo County lupine	35.1	2.4	5.4	27.4
			Santa Lucia manzanita	35.1	2.4	5.4	27.4
			Santa Margarita manzanita	35.1	2.4	5.4	27.4
			straight-awned spineflower	35.1	2.4	5.4	27.4
	yellow-flowered eriastrum	35.1	2.4	5.4	27.4		
	Coastal Oak Woodland	Plants	Brewer's spineflower	67.7	6.7	14.8	46.1
			chaparral ragwort	67.7	6.7	14.8	46.1
			Chorro Creek bog thistle	67.7	6.7	14.8	46.1
			Hardham's evening-primrose	67.7	6.7	14.8	46.1
			hooked popcornflower	67.7	6.7	14.8	46.1
			Hoover's bent grass	67.7	6.7	14.8	46.1
			La Panza mariposa-lily	67.7	6.7	14.8	46.1
			mesa horkelia	67.7	6.7	14.8	46.1
			most beautiful jewel-flower	67.7	6.7	14.8	46.1
			mouse-gray dudleya	67.7	6.7	14.8	46.1
			pale-yellow layia	67.7	6.7	14.8	46.1
			Palmer's monardella	67.7	6.7	14.8	46.1
			San Luis Obispo County lupine	67.7	6.7	14.8	46.1
			Santa Lucia manzanita	67.7	6.7	14.8	46.1
			Santa Margarita manzanita	67.7	6.7	14.8	46.1
straight-awned spineflower			67.7	6.7	14.8	46.1	
yellow-flowered eriastrum	67.7	6.7	14.8	46.1			
Coastal Scrub	Plants	Blochman's dudleya	3.4	1.2	2.1	0.1	
		Brewer's spineflower	3.4	1.2	2.1	0.1	
		chaparral ragwort	3.4	1.2	2.1	0.1	
		Chorro Creek bog thistle	3.4	1.2	2.1	0.1	
		mesa horkelia	3.4	1.2	2.1	0.1	
		pale-yellow layia	3.4	1.2	2.1	0.1	
		Pecho manzanita	3.4	1.2	2.1	0.1	
		San Luis mariposa-lily	3.4	1.2	2.1	0.1	
		San Luis Obispo sedge	3.4	1.2	2.1	0.1	
		straight-awned spineflower	3.4	1.2	2.1	0.1	
Emergent Wetland	Plants	Chorro Creek bog thistle	0.2		0.1	0.0	
Freshwater Forested/Shrub Wetland	Plants	NONE	11.6	0.7	6.7	4.3	
Freshwater Pond	Plants	NONE	0.8		0.0	0.7	

Species Impact Study Area - Detail

	Mixed Chaparral	Plants	Blochman's dudleya	4.4			4.4	
			Brewer's spineflower	4.4			4.4	
	chaparral ragwort	4.4			4.4			
				Chorro Creek bog thistle	4.4			4.4
				dwarf soaproot	4.4			4.4
				Eastwood's larkspur	4.4			4.4
				Hardham's evening-primrose	4.4			4.4
				hooked popcornflower	4.4			4.4
				Hoover's bent grass	4.4			4.4
				Jones' layia	4.4			4.4
				La Panza mariposa-lily	4.4			4.4
				mesa horkelia	4.4			4.4
				most beautiful jewel-flower	4.4			4.4
				mouse-gray dudleya	4.4			4.4
				Palmer's monardella	4.4			4.4
				Pecho manzanita	4.4			4.4
				San Benito fritillary	4.4			4.4
				San Luis mariposa-lily	4.4			4.4
				San Luis Obispo County lupine	4.4			4.4
				San Luis Obispo sedge	8.8			8.8
				Santa Lucia manzanita	4.4			4.4
				Santa Margarita manzanita	4.4			4.4
				straight-awned spineflower	4.4			4.4
				yellow-flowered eriastrum	4.4			4.4
		Riverine	Plants	NONE	2.9	0.1	1.4	1.4
		Urban	Plants	NONE	25.8	5.2	3.6	17.0
	Valley Oak Woodland	Plants	Brewer's spineflower	6.4	0.6	1.5	4.3	
			chaparral ragwort	6.4	0.6	1.5	4.3	
			Chorro Creek bog thistle	6.4	0.6	1.5	4.3	
			Hardham's evening-primrose	6.4	0.6	1.5	4.3	
			hooked popcornflower	6.4	0.6	1.5	4.3	
			Hoover's bent grass	6.4	0.6	1.5	4.3	
			La Panza mariposa-lily	6.4	0.6	1.5	4.3	
			mesa horkelia	6.4	0.6	1.5	4.3	
			most beautiful jewel-flower	6.4	0.6	1.5	4.3	
			mouse-gray dudleya	6.4	0.6	1.5	4.3	
			pale-yellow layia	6.4	0.6	1.5	4.3	
			Palmer's monardella	6.4	0.6	1.5	4.3	
			San Luis Obispo County lupine	6.4	0.6	1.5	4.3	
Santa Lucia manzanita			6.4	0.6	1.5	4.3		
Santa Margarita manzanita			6.4	0.6	1.5	4.3		
straight-awned spineflower			6.4	0.6	1.5	4.3		
yellow-flowered eriastrum			6.4	0.6	1.5	4.3		
Second Main Tracj/Siding	Annual Grassland	Fish and Wildlife	American badger	38.2	8.9	10.2	19.1	
			Burrowing owl	38.2	8.9	10.2	19.1	
			California condor	38.2	8.9	10.2	19.1	
			California horned lark	38.2	8.9	10.2	19.1	
			California red-legged frog	38.2	8.9	10.2	19.1	
			coast horned lizard	38.2	8.9	10.2	19.1	
			Ferruginous hawk	38.2	8.9	10.2	19.1	
			golden eagle	38.2	8.9	10.2	19.1	
			Grasshopper sparrow	38.2	8.9	10.2	19.1	
			Lompoc grasshopper	38.2	8.9	10.2	19.1	
			Merlin	38.2	8.9	10.2	19.1	
			prairie falcon	38.2	8.9	10.2	19.1	
			San Joaquin kit fox	38.2	8.9	10.2	19.1	
			San Joaquin pocket mouse	38.2	8.9	10.2	19.1	
			San Joaquin whipsnake	38.2	8.9	10.2	19.1	
			silvery legless lizard	38.2	8.9	10.2	19.1	
			tricolored blackbird	38.2	8.9	10.2	19.1	
western spadefoot toad	38.2	8.9	10.2	19.1				
White-tailed kite	38.2	8.9	10.2	19.1				

Species Impact Study Area - Detail

Blue Oak Woodland	Fish and Wildlife	coast horned lizard	35.1	2.4	5.4	27.4
		Coast range newt	35.1	2.4	5.4	27.4
		golden eagle	35.1	2.4	5.4	27.4
		hoary bat	35.1	2.4	5.4	27.4
		pallid bat	35.1	2.4	5.4	27.4
Coastal Oak Woodland	Fish and Wildlife	coast horned lizard	67.7	6.7	14.8	46.1
		Coast range newt	67.7	6.7	14.8	46.1
		golden eagle	67.7	6.7	14.8	46.1
		hoary bat	67.7	6.7	14.8	46.1
		pallid bat	67.7	6.7	14.8	46.1
		purple martin	67.7	6.7	14.8	46.1
Coastal Scrub	Fish and Wildlife	coast horned lizard	3.4	1.2	2.1	0.1
		Ferruginous hawk	3.4	1.2	2.1	0.1
		golden eagle	3.4	1.2	2.1	0.1
		Grasshopper sparrow	3.4	1.2	2.1	0.1
		prairie falcon	3.4	1.2	2.1	0.1
		San Joaquin whipsnake	3.4	1.2	2.1	0.1
Emergent Wetland	Fish and Wildlife	California red-legged frog	0.2	0.0	0.1	0.0
		great blue heron	0.2	0.0	0.1	0.0
		tricolored blackbird	0.2	0.0	0.1	0.0
		two-striped garter snake	0.2	0.0	0.1	0.0
		western pond turtle	0.2	0.0	0.1	0.0
Freshwater Forested/Shrub Wetland	Fish and Wildlife	least Bell's vireo	11.6	0.7	6.7	4.3
		tricolored blackbird	11.6	0.7	6.7	4.3
Freshwater Pond	Fish and Wildlife	California red-legged frog	0.8	0.0	0.0	0.7
		Coast range newt	0.8	0.0	0.0	0.7
		great blue heron	0.8	0.0	0.0	0.7
		tricolored blackbird	0.8	0.0	0.0	0.7
		two-striped garter snake	0.8	0.0	0.0	0.7
		western pond turtle	0.8	0.0	0.0	0.7
Mixed Chaparral	Fish and Wildlife	coast horned lizard	4.4	0.0	0.0	4.4
		Coast range newt	4.4	0.0	0.0	4.4
		golden eagle	4.4	0.0	0.0	4.4
		San Joaquin whipsnake	4.4	0.0	0.0	4.4
Riverine	Fish and Wildlife	California red-legged frog	2.9	0.1	1.4	1.4
		Foothill yellow-legged frog	2.9	0.1	1.4	1.4
		steelhead - south/central	2.9	0.1	1.4	1.4
		California coast DPS	2.9	0.1	1.4	1.4
		two-striped garter snake	2.9	0.1	1.4	1.4
		western pond turtle	2.9	0.1	1.4	1.4
Urban	Fish and Wildlife	western spadefoot toad	2.9	0.1	1.4	1.4
		NONE	25.8	5.2	3.6	17.0

Species Impact Study Area - Detail

Second Main Tracj/Siding	Valley Oak Woodland	Fish and Wildlife	coast horned lizard	6.4	0.6	1.5	4.3	
			Coast range newt	6.4	0.6	1.5	4.3	
			hoary bat	6.4	0.6	1.5	4.3	
			pallid bat	6.4	0.6	1.5	4.3	
			purple martin	6.4	0.6	1.5	4.3	
			White-tailed kite	6.4	0.6	1.5	4.3	
Spence Siding	Barren	Fish and Wildlife	NONE	91.0	19.0	21.2	50.7	
			Plants	NONE	91.0	19.0	21.2	50.7
	Coastal Scrub	Fish and Wildlife	coast horned lizard	2.2	0.0	0.0	2.2	
			Ferruginous hawk	2.2	0.0	0.0	2.2	
			golden eagle	2.2	0.0	0.0	2.2	
			Grasshopper sparrow	2.2	0.0	0.0	2.2	
			prairie falcon	2.2	0.0	0.0	2.2	
			Plants	Hutchinson's larkspur	2.2		0.0	2.2
			Toro manzanita	2.2		0.0	2.2	
	Cropland	Fish and Wildlife	California horned lark	68.7	0.3	1.6	66.8	
			Ferruginous hawk	68.7	0.3	1.6	66.8	
			Merlin	68.7	0.3	1.6	66.8	
			prairie falcon	68.7	0.3	1.6	66.8	
			tricolored blackbird	68.7	0.3	1.6	66.8	
			Plants	NONE	68.7	0.3	1.6	66.8
	Emergent Wetland	Fish and Wildlife	California red-legged frog	0.7	0.0	0.1	0.6	
			California tiger salamander	0.7	0.0	0.1	0.6	
			great blue heron	0.7	0.0	0.1	0.6	
			tricolored blackbird	0.7	0.0	0.1	0.6	
			two-striped garter snake	0.7	0.0	0.1	0.6	
			western pond turtle	0.7	0.0	0.1	0.6	
			Plants	NONE	0.7	0.0	0.1	0.6
	Freshwater Pond	Fish and Wildlife	California red-legged frog	0.1	0.0	0.0	0.1	
			California tiger salamander	0.1	0.0	0.0	0.1	
Coast range newt			0.1	0.0	0.0	0.1		
great blue heron			0.1	0.0	0.0	0.1		
tricolored blackbird			0.1	0.0	0.0	0.1		
two-striped garter snake			0.1	0.0	0.0	0.1		
western pond turtle			0.1	0.0	0.0	0.1		
Plants			NONE	0.1			0.1	
Riverine	Fish and Wildlife	bank swallow	2.2	0.0	0.0	2.2		
		California red-legged frog	2.2	0.0	0.0	2.2		
		Foothill yellow-legged frog	2.2	0.0	0.0	2.2		
		steelhead - south/central						
		California coast DPS	2.2	0.0	0.0	2.2		
		two-striped garter snake	2.2	0.0	0.0	2.2		
		western pond turtle	2.2	0.0	0.0	2.2		
		western spadefoot toad	2.2	0.0	0.0	2.2		
		Plants	NONE	2.2	0.0	0.0	2.2	

Species Impact Study Area - Detail

Templeton Siding	Annual Grassland	Fish and Wildlife	American badger	58.8	7.3	7.3	44.2	
			Burrowing owl	58.8	7.3	7.3	44.2	
			California condor	58.8	7.3	7.3	44.2	
			California horned lark	58.8	7.3	7.3	44.2	
			California red-legged frog	58.8	7.3	7.3	44.2	
			coast horned lizard	58.8	7.3	7.3	44.2	
			Ferruginous hawk	58.8	7.3	7.3	44.2	
			golden eagle	58.8	7.3	7.3	44.2	
			Grasshopper sparrow	58.8	7.3	7.3	44.2	
			Lompoc grasshopper	58.8	7.3	7.3	44.2	
			Merlin	58.8	7.3	7.3	44.2	
			prairie falcon	58.8	7.3	7.3	44.2	
			San Joaquin kit fox	58.8	7.3	7.3	44.2	
			San Joaquin pocket mouse	58.8	7.3	7.3	44.2	
			San Joaquin whipsnake	58.8	7.3	7.3	44.2	
			silvery legless lizard	58.8	7.3	7.3	44.2	
			tricolored blackbird	58.8	7.3	7.3	44.2	
			western spadefoot toad	58.8	7.3	7.3	44.2	
			White-tailed kite	58.8	7.3	7.3	44.2	
			Plants	Eastwood's larkspur	58.8	7.3	7.3	44.2
				Lemmon's jewel-flower	58.8	7.3	7.3	44.2
	most beautiful jewel-flower	58.8		7.3	7.3	44.2		
	round-leaved filaree	58.8		7.3	7.3	44.2		
	Santa Lucia dwarf rush	58.8		7.3	7.3	44.2		
	shining navarretia	58.8	7.3	7.3	44.2			
	Blue Oak Woodland	Fish and Wildlife	coast horned lizard	7.0	1.5	1.2	4.3	
			Coast range newt	7.0	1.5	1.2	4.3	
			golden eagle	7.0	1.5	1.2	4.3	
			hoary bat	7.0	1.5	1.2	4.3	
			pallid bat	7.0	1.5	1.2	4.3	
			Plants	mesa horkelia	7.0	1.5	1.2	4.3
				most beautiful jewel-flower	7.0	1.5	1.2	4.3
				round-leaved filaree	7.0	1.5	1.2	4.3
	shining navarretia	7.0		1.5	1.2	4.3		
	yellow-flowered eriastrum	7.0	1.5	1.2	4.3			
	Coastal Oak Woodland	Fish and Wildlife	coast horned lizard	0.1	0.0	0.0	0.0	
			Coast range newt	0.1	0.0	0.0	0.0	
			golden eagle	0.1	0.0	0.0	0.0	
			hoary bat	0.1	0.0	0.0	0.0	
pallid bat			0.1	0.0	0.0	0.0		
purple martin			0.1	0.0	0.0	0.0		
Plants			mesa horkelia	0.1	0.0	0.0	0.0	
			most beautiful jewel-flower	0.1	0.0	0.0	0.0	
			round-leaved filaree	0.1	0.0	0.0	0.0	
			shining navarretia	0.1	0.0	0.0	0.0	
yellow-flowered eriastrum	0.1	0.0	0.0	0.0				
Cropland	Fish and Wildlife	California horned lark	19.0	3.5	3.2	12.3		
		Ferruginous hawk	19.0	3.5	3.2	12.3		
		Merlin	19.0	3.5	3.2	12.3		
		prairie falcon	19.0	3.5	3.2	12.3		
		tricolored blackbird	19.0	3.5	3.2	12.3		
	Plants	NONE	19.0	3.5	3.2	12.3		

Species Impact Study Area - Detail

Emergent Wetland	Fish and Wildlife	California red-legged frog	1.2	0.7	0.5	0.0	
		great blue heron	1.2	0.7	0.5	0.0	
		tricolored blackbird	1.2	0.7	0.5	0.0	
		two-striped garter snake	1.2	0.7	0.5	0.0	
		western pond turtle	1.2	0.7	0.5	0.0	
	Plants	NONE	1.2	0.7	0.5	0.0	
	Freshwater Forested/Shrub Wetland	Fish and Wildlife	least Bell's vireo	19.7	0.8	2.1	16.8
			tricolored blackbird	19.7	0.8	2.1	16.8
		Plants	NONE	19.7	0.8	2.1	16.8
	Riverine	Fish and Wildlife	California red-legged frog	16.1	0.0	0.8	15.2
			Foothill yellow-legged frog	16.1	0.0	0.8	15.2
			steelhead - south/central California coast DPS	16.1	0.0	0.8	15.2
			two-striped garter snake	16.1	0.0	0.8	15.2
			western pond turtle	16.1	0.0	0.8	15.2
			western spadefoot toad	16.1	0.0	0.8	15.2
			Plants	NONE	16.1	0.0	0.8
	Unknown Shrub Type	Fish and Wildlife	coast horned lizard	0.1	0.0	0.0	0.1
			Ferruginous hawk	0.1	0.0	0.0	0.1
			golden eagle	0.1	0.0	0.0	0.1
Grasshopper sparrow			0.1	0.0	0.0	0.1	
prairie falcon			0.1	0.0	0.0	0.1	
San Joaquin whipsnake			0.1	0.0	0.0	0.1	
Plants		Eastwood's larkspur	0.1			0.1	
		mesa horkelia	0.1			0.1	
		most beautiful jewel-flower	0.1			0.1	
		Santa Lucia dwarf rush	0.1			0.1	
		yellow-flowered eriastrum	0.1			0.1	
Urban	Fish and Wildlife	NONE	134.3	32.5	18.6	83.1	
	Plants	NONE	134.3	32.5	18.6	83.1	
Valley Foothill Riparian	Fish and Wildlife	great blue heron	1.9	0.4	0.3	1.2	
		hoary bat	1.9	0.4	0.3	1.2	
		least Bell's vireo	1.9	0.4	0.3	1.2	
		pallid bat	1.9	0.4	0.3	1.2	
		purple martin	1.9	0.4	0.3	1.2	
		tricolored blackbird	1.9	0.4	0.3	1.2	
		White-tailed kite	1.9	0.4	0.3	1.2	
		yellow warbler	1.9	0.4	0.3	1.2	
		Plants	NONE	1.9	0.4	0.3	1.2
	Templeton/Henry	Annual Grassland	Fish and Wildlife	American badger	2.5	0.6	1.7
Burrowing owl				2.5	0.6	1.7	0.1
California condor				2.5	0.6	1.7	0.1
California horned lark				2.5	0.6	1.7	0.1
California red-legged frog				2.5	0.6	1.7	0.1
coast horned lizard				2.5	0.6	1.7	0.1
Ferruginous hawk				2.5	0.6	1.7	0.1
golden eagle				2.5	0.6	1.7	0.1
Grasshopper sparrow				2.5	0.6	1.7	0.1
Lompoc grasshopper				2.5	0.6	1.7	0.1
Merlin				2.5	0.6	1.7	0.1
prairie falcon				2.5	0.6	1.7	0.1
San Joaquin kit fox				2.5	0.6	1.7	0.1
San Joaquin pocket mouse				2.5	0.6	1.7	0.1
San Joaquin whipsnake				2.5	0.6	1.7	0.1
silvery legless lizard				2.5	0.6	1.7	0.1
tricolored blackbird				2.5	0.6	1.7	0.1
western spadefoot toad				2.5	0.6	1.7	0.1
White-tailed kite				2.5	0.6	1.7	0.1
Plants			Eastwood's larkspur	2.5	0.6	1.7	0.1
most beautiful jewel-flower			2.5	0.6	1.7	0.1	
round-leaved filaree			2.5	0.6	1.7	0.1	
shining navarretia			2.5	0.6	1.7	0.1	

Species Impact Study Area - Detail

Blue Oak Woodland	Fish and Wildlife	coast horned lizard	6.9	0.6	2.5	3.7
		Coast range newt	6.9	0.6	2.5	3.7
		golden eagle	6.9	0.6	2.5	3.7
		hoary bat	6.9	0.6	2.5	3.7
		pallid bat	6.9	0.6	2.5	3.7
		Plants	6.9	0.6	2.5	3.7
	Plants	mesa horkelia	6.9	0.6	2.5	3.7
		most beautiful jewel-flower	6.9	0.6	2.5	3.7
		round-leaved filaree	6.9	0.6	2.5	3.7
		Santa Margarita manzanita	6.9	0.6	2.5	3.7
		shining navarretia	6.9	0.6	2.5	3.7
		straight-awned spineflower	6.9	0.6	2.5	3.7
		yellow-flowered eriastrum	6.9	0.6	2.5	3.7
		Blue Oak-Foothill Pine	Fish and Wildlife	coast horned lizard	2.0	0.0
Coast range newt	2.0			0.0	0.1	1.9
golden eagle	2.0			0.0	0.1	1.9
hoary bat	2.0			0.0	0.1	1.9
pallid bat	2.0			0.0	0.1	1.9
purple martin	2.0			0.0	0.1	1.9
Plants	mesa horkelia		2.0		0.1	1.9
	most beautiful jewel-flower		2.0		0.1	1.9
	round-leaved filaree		2.0		0.1	1.9
	Santa Margarita manzanita		2.0		0.1	1.9
	shining navarretia		2.0		0.1	1.9
	straight-awned spineflower		2.0		0.1	1.9
	yellow-flowered eriastrum		2.0		0.1	1.9
	Coastal Oak Woodland		Fish and Wildlife	coast horned lizard	14.9	2.1
Coast range newt		14.9		2.1	6.2	6.5
golden eagle		14.9		2.1	6.2	6.5
hoary bat		14.9		2.1	6.2	6.5
pallid bat		14.9		2.1	6.2	6.5
purple martin		14.9		2.1	6.2	6.5
Plants		mesa horkelia	14.9	2.1	6.2	6.5
		most beautiful jewel-flower	14.9	2.1	6.2	6.5
		round-leaved filaree	14.9	2.1	6.2	6.5
		Santa Margarita manzanita	14.9	2.1	6.2	6.5
		shining navarretia	14.9	2.1	6.2	6.5
		straight-awned spineflower	14.9	2.1	6.2	6.5
		yellow-flowered eriastrum	14.9	2.1	6.2	6.5

Species Impact Study Area - Detail

Wellsona Siding	Cropland	Fish and Wildlife	California horned lark	17.0	0.2	3.7	13.2			
			Ferruginous hawk	17.0	0.2	3.7	13.2			
			Merlin	17.0	0.2	3.7	13.2			
			prairie falcon	17.0	0.2	3.7	13.2			
			tricolored blackbird	17.0	0.2	3.7	13.2			
			NONE	17.0	0.2	3.7	13.2			
	Unknown Shrub Type	Fish and Wildlife	coast horned lizard	4.9	0.7	3.3	0.9			
			Ferruginous hawk	4.9	0.7	3.3	0.9			
			golden eagle	4.9	0.7	3.3	0.9			
			Grasshopper sparrow	4.9	0.7	3.3	0.9			
			prairie falcon	4.9	0.7	3.3	0.9			
			San Joaquin whipsnake	4.9	0.7	3.3	0.9			
			Plants	Eastwood's larkspur	4.9	0.7	3.3	0.9		
				mesa horkelia	4.9	0.7	3.3	0.9		
				most beautiful jewel-flower	4.9	0.7	3.3	0.9		
				Santa Margarita manzanita	4.9	0.7	3.3	0.9		
				straight-awned spineflower	4.9	0.7	3.3	0.9		
				yellow-flowered eriastrum	4.9	0.7	3.3	0.9		
				Urban	Fish and Wildlife	NONE	18.8	1.4	5.2	12.2
						Plants	NONE	18.8	1.4	5.2
Annual Grassland	Fish and Wildlife	American badger	38.3	3.2	4.5	30.6				
		Burrowing owl	38.3	3.2	4.5	30.6				
		California condor	38.3	3.2	4.5	30.6				
		California horned lark	38.3	3.2	4.5	30.6				
		California linderiella	38.3	3.2	4.5	30.6				
		California red-legged frog	38.3	3.2	4.5	30.6				
		coast horned lizard	38.3	3.2	4.5	30.6				
		Conservancy fairy shrimp	38.3	3.2	4.5	30.6				
		Ferruginous hawk	38.3	3.2	4.5	30.6				
		golden eagle	38.3	3.2	4.5	30.6				
		Grasshopper sparrow	38.3	3.2	4.5	30.6				
		Lompoc grasshopper	38.3	3.2	4.5	30.6				
		Merlin	38.3	3.2	4.5	30.6				
		prairie falcon	38.3	3.2	4.5	30.6				
		San Joaquin kit fox	38.3	3.2	4.5	30.6				
		San Joaquin pocket mouse	38.3	3.2	4.5	30.6				
		San Joaquin whipsnake	38.3	3.2	4.5	30.6				
		silvery legless lizard	38.3	3.2	4.5	30.6				
		tricolored blackbird	38.3	3.2	4.5	30.6				
		vernal pool fairy shrimp	38.3	3.2	4.5	30.6				
		western spadefoot toad	38.3	3.2	4.5	30.6				
		White-tailed kite	38.3	3.2	4.5	30.6				
		Blue Oak Woodland	Fish and Wildlife	coast horned lizard	29.8	6.1	8.8	14.9		
				Coast range newt	29.8	6.1	8.8	14.9		
				golden eagle	29.8	6.1	8.8	14.9		
				hoary bat	29.8	6.1	8.8	14.9		
pallid bat	29.8			6.1	8.8	14.9				

Species Impact Study Area - Detail

Coastal Oak Woodland	Fish and Wildlife	Coast range newt	39.3	8.1	14.4	16.8	
		golden eagle	39.3	8.1	14.4	16.8	
		hoary bat	39.3	8.1	14.4	16.8	
		pallid bat	39.3	8.1	14.4	16.8	
		purple martin	39.3	8.1	14.4	16.8	
	Cropland	Fish and Wildlife	California horned lark	3.8	0.1	0.9	2.7
			Ferruginous hawk	3.8	0.1	0.9	2.7
			Merlin	3.8	0.1	0.9	2.7
			prairie falcon	3.8	0.1	0.9	2.7
			tricolored blackbird	3.8	0.1	0.9	2.7
	Emergent Wetland	Fish and Wildlife	California red-legged frog	25.1	7.2	11.7	6.2
			great blue heron	25.1	7.2	11.7	6.2
			tricolored blackbird	25.1	7.2	11.7	6.2
			two-striped garter snake	25.1	7.2	11.7	6.2
			western pond turtle	25.1	7.2	11.7	6.2
	Freshwater Forested/Shrub Wetland	Fish and Wildlife	least Bell's vireo	3.1	0.8	1.6	0.6
			tricolored blackbird	3.1	0.8	1.6	0.6
	Riverine	Fish and Wildlife	California red-legged frog	4.3	0.0	0.1	4.1
			Foothill yellow-legged frog	4.3	0.0	0.1	4.1
			steelhead - south/central				
California coast DPS			4.3	0.0	0.1	4.1	
two-striped garter snake			4.3	0.0	0.1	4.1	
western pond turtle			4.3	0.0	0.1	4.1	
Urban	Fish and Wildlife	western spadefoot toad	4.3	0.0	0.1	4.1	
		NONE	37.1	4.0	5.8	27.3	
Valley Foothill Riparian	Fish and Wildlife	great blue heron	0.6	0.0	0.0	0.6	
		hoary bat	0.6	0.0	0.0	0.6	
		least Bell's vireo	0.6	0.0	0.0	0.6	
		pallid bat	0.6	0.0	0.0	0.6	
		purple martin	0.6	0.0	0.0	0.6	
		tricolored blackbird	0.6	0.0	0.0	0.6	
		White-tailed kite	0.6	0.0	0.0	0.6	
		yellow warbler	0.6	0.0	0.0	0.6	
Wellsona/Paso Robles	Annual Grassland	Fish and Wildlife	American badger	14.7	3.8	8.8	2.2
			Burrowing owl	14.7	3.8	8.8	2.2
			California condor	14.7	3.8	8.8	2.2
			California horned lark	14.7	3.8	8.8	2.2
			California linderiella	14.7	3.8	8.8	2.2
			California red-legged frog	14.7	3.8	8.8	2.2
			coast horned lizard	14.7	3.8	8.8	2.2
			Conservancy fairy shrimp	14.7	3.8	8.8	2.2
			Ferruginous hawk	14.7	3.8	8.8	2.2
			golden eagle	14.7	3.8	8.8	2.2
			Grasshopper sparrow	14.7	3.8	8.8	2.2
			Lompoc grasshopper	14.7	3.8	8.8	2.2
			Merlin	14.7	3.8	8.8	2.2
			prairie falcon	14.7	3.8	8.8	2.2
			San Joaquin kit fox	14.7	3.8	8.8	2.2
			San Joaquin pocket mouse	14.7	3.8	8.8	2.2
			San Joaquin whipsnake	14.7	3.8	8.8	2.2
			silvery legless lizard	14.7	3.8	8.8	2.2
			tricolored blackbird	14.7	3.8	8.8	2.2
			vernal pool fairy shrimp	14.7	3.8	8.8	2.2
western spadefoot toad	14.7	3.8	8.8	2.2			
White-tailed kite	14.7	3.8	8.8	2.2			

Species Impact Study Area - Detail

	Plants	dwarf calycadenia	14.7	3.8	8.8	2.2
		Jared's pepper-grass	14.7	3.8	8.8	2.2
		Lemmon's jewel-flower	14.7	3.8	8.8	2.2
		round-leaved filaree	14.7	3.8	8.8	2.2
		Santa Lucia dwarf rush	14.7	3.8	8.8	2.2
		shining navarretia	14.7	3.8	8.8	2.2
		woodland woollythreads	14.7	3.8	8.8	2.2
Blue Oak Woodland	Fish and Wildlife	coast horned lizard	12.6	0.0	2.3	10.3
		Coast range newt	12.6	0.0	2.3	10.3
		golden eagle	12.6	0.0	2.3	10.3
		hoary bat	12.6	0.0	2.3	10.3
		pallid bat	12.6	0.0	2.3	10.3
	Plants	dwarf calycadenia	12.6		2.3	10.3
		round-leaved filaree	12.6		2.3	10.3
		Santa Cruz Mountains pussypaws	12.6		2.3	10.3
		shining navarretia	12.6		2.3	10.3
		woodland woollythreads	12.6		2.3	10.3
Coastal Oak Woodland	Fish and Wildlife	Coast range newt	2.6	0.0	1.0	1.5
		golden eagle	2.6	0.0	1.0	1.5
		hoary bat	2.6	0.0	1.0	1.5
		pallid bat	2.6	0.0	1.0	1.5
		purple martin	2.6	0.0	1.0	1.5
	Plants	dwarf calycadenia	2.6		1.0	1.5
		round-leaved filaree	2.6		1.0	1.5
		Santa Cruz Mountains pussypaws	2.6		1.0	1.5
		shining navarretia	2.6		1.0	1.5
		woodland woollythreads	2.6		1.0	1.5
Cropland	Fish and Wildlife	California horned lark	6.8	0.0	0.2	6.6
		Ferruginous hawk	6.8	0.0	0.2	6.6
		Merlin	6.8	0.0	0.2	6.6
		prairie falcon	6.8	0.0	0.2	6.6
		tricolored blackbird	6.8	0.0	0.2	6.6
	Plants	NONE	6.8		0.2	6.6
Emergent Wetland	Fish and Wildlife	California red-legged frog	0.6	0.0	0.0	0.6
		great blue heron	0.6	0.0	0.0	0.6
		tricolored blackbird	0.6	0.0	0.0	0.6
		two-striped garter snake	0.6	0.0	0.0	0.6
		western pond turtle	0.6	0.0	0.0	0.6
	Plants	NONE	0.6			0.6
Urban	Fish and Wildlife	NONE	24.9	1.4	8.5	15.0
	Plants	NONE	24.9	1.4	8.5	15.0

Species Impact Study Area - Detail

Bradley Siding	Annual Grassland	Plants	Santa Cruz microseris	229.9	48.0	34.1	147.8
			shining navarretia	229.9	48.0	34.1	147.8
	Blue Oak Woodland	Plants	Davidson's bush-mallow	2.2			2.2
			Hardham's evening-primrose	2.2			2.2
			Indian Valley spineflower	2.2			2.2
			shining navarretia	2.2			2.2
	Riverine	Plants	NONE	3.2	0.3	0.7	2.2
	Valley Foothill Riparian	Plants	Davidson's bush-mallow	22.9	3.7	4.5	14.7
Wellsona Siding	Annual Grassland	Plants	dwarf calycadenia	38.3	3.2	4.5	30.6
			Jared's pepper-grass	38.3	3.2	4.5	30.6
			Lemmon's jewel-flower	38.3	3.2	4.5	30.6
			round-leaved filaree	38.3	3.2	4.5	30.6
			Santa Lucia dwarf rush	38.3	3.2	4.5	30.6
			shining navarretia	38.3	3.2	4.5	30.6
			woodland woollythreads	38.3	3.2	4.5	30.6
	Blue Oak Woodland	Plants	dwarf calycadenia	29.8	6.1	8.8	14.9
			Indian Valley spineflower	29.8	6.1	8.8	14.9
			round-leaved filaree	29.8	6.1	8.8	14.9
			Santa Cruz Mountains pussypaws	29.8	6.1	8.8	14.9
			shining navarretia	29.8	6.1	8.8	14.9
			woodland woollythreads	29.8	6.1	8.8	14.9
	Coastal Oak Woodland	Plants	dwarf calycadenia	39.3	8.1	14.4	16.8
			Indian Valley spineflower	39.3	8.1	14.4	16.8
			round-leaved filaree	39.3	8.1	14.4	16.8
			Santa Cruz Mountains pussypaws	39.3	8.1	14.4	16.8
			shining navarretia	39.3	8.1	14.4	16.8
			woodland woollythreads	39.3	8.1	14.4	16.8
	Cropland	Plants	NONE	3.8	0.1	0.9	2.7
	Emergent Wetland	Plants	NONE	25.1	7.2	11.7	6.2
	Freshwater Forested/Shrub Wetland	Plants	NONE	3.1	0.8	1.6	0.6
	Riverine	Plants	NONE	4.3	0.0	0.1	4.1
Urban	Plants	NONE	37.1	4.0	5.8	27.3	
Valley Foothill Riparian	Plants	NONE	0.6			0.6	

Species Impacts Project - Summary

Taxonomic Group	Species	Sum of Existing Land Cover in Study Area	Sum of Permanent Impacts	Sum of Temporary Impacts	Sum of Areas Potentially Indirectly Affected
Fish and Wildlife	American badger	1,157.5	151.0	315.5	691.0
	bank swallow	93.1	10.3	24.5	58.4
	Burrowing owl	1,157.5	151.0	315.5	691.0
	California condor	1,157.5	151.0	315.5	691.0
	California horned lark	2,010.9	233.4	574.7	1,202.8
	California linderiella	550.7	84.4	146.2	320.0
	California red-legged frog	1,299.1	169.1	358.7	771.3
	California tiger salamander	919.6	121.9	253.1	544.6
	coast horned lizard	1,507.5	188.7	422.4	896.4
	Coast range newt	358.6	41.5	108.2	209.0
	Conservancy fairy shrimp	550.7	84.4	146.2	320.0
	Ferruginous hawk	2,050.3	238.1	591.1	1,221.1
	Foothill yellow-legged frog	71.7	0.8	11.7	59.3
	golden eagle	1,539.0	196.2	435.4	907.3
	Grasshopper sparrow	1,196.9	155.6	332.0	709.3
	great blue heron	143.1	27.5	51.8	63.9
	hoary bat	421.4	51.4	126.2	243.9
	least Bell's vireo	126.1	13.6	35.6	76.9
	Lompoc grasshopper	650.2	101.2	165.4	383.5
	Merlin	2,010.9	233.4	574.7	1,202.8
	pallid bat	421.4	51.4	126.2	243.9
	prairie falcon	2,050.3	238.1	591.1	1,221.1
	purple martin	302.2	38.4	98.5	165.3
	Salinas pocket mouse	894.8	113.9	239.5	541.4
	San Joaquin kit fox	1,157.5	151.0	315.5	691.0
	San Joaquin pocket mouse	650.2	101.2	165.4	383.5
	San Joaquin whipsnake	1,182.3	152.1	327.9	702.3
	San Luis pyrg	11.2	1.4	3.4	6.4
	silvery legless lizard	1,157.5	151.0	315.5	691.0
	steelhead - south/central				
	California coast DPS	71.7	0.8	11.7	59.3

Species Impacts Project - Summary

Fish and Wildlife	tricolored blackbird	2,206.8	264.4	641.7	1,300.8	
	two-striped garter snake	141.6	18.1	43.1	80.4	
	vernal pool fairy shrimp	550.7	84.4	146.2	320.0	
	western pond turtle	141.6	18.1	43.1	80.4	
	western spadefoot toad	1,229.2	151.8	327.2	750.2	
	White-tailed kite	1,241.2	161.8	338.2	741.2	
	yellow warbler	73.2	10.1	20.3	42.8	
	Plants	Abbott's bush-mallow	31.7	3.8	11.7	16.2
		Blochman's dudleya	46.0	10.0	12.3	23.6
		Brewer's spineflower	203.6	19.7	60.6	123.4
caper-fruited tropidocarpum		113.7	13.3	44.5	55.8	
chaparral ragwort		136.1	12.4	29.6	94.2	
Chorro Creek bog thistle		155.3	19.7	34.1	101.5	
Davidson's bush-mallow		66.8	7.5	18.6	40.7	
dwarf calycadenia		303.2	44.0	103.1	156.1	
dwarf soaproot		6.0		0.0	6.0	
Eastwood's larkspur		224.2	30.8	67.0	126.3	
Hardham's evening-primrose		233.9	22.8	68.2	142.9	
hooked popcornflower		471.5	53.6	153.9	264.0	
Hoover's bent grass		328.4	38.0	103.1	187.3	
Hutchinson's larkspur		2.2		0.0	2.2	
Indian Valley bush-mallow		3.5		0.2	3.3	
Indian Valley spineflower		120.2	21.2	41.7	57.3	
Jared's pepper-grass		53.0	7.0	13.2	32.8	
Jolon clarkia		71.1	5.8	21.8	43.4	
Jones' layia		42.6	8.9	10.2	23.5	
La Panza mariposa-lily		151.8	18.6	31.9	101.4	
Lemmon's jewel-flower		619.7	61.4	168.7	389.6	
mesa horkelia		239.5	24.6	74.0	140.9	
Monterey spineflower		401.5	42.3	119.7	239.5	
most beautiful jewel-flower		425.6	50.8	125.5	249.2	
mouse-gray dudleya		151.8	18.6	31.9	101.4	
pale-yellow layia		349.5	41.9	115.3	192.3	
Palmer's monardella		176.5	15.8	48.4	112.4	
Pecho manzanita		7.8	1.2	2.1	4.5	

Species Impacts Project - Summary

Plants	recurved larkspur	93.6	11.2	34.4	48.1
	robust spineflower	18.1	1.5	5.7	10.9
	round-leaved filaree	547.4	68.3	180.9	298.2
	San Benito fritillary	6.0		0.0	6.0
	San Luis mariposa-lily	185.0	26.1	67.0	91.9
	San Luis Obispo County				
	lupine	176.5	15.8	48.4	112.4
	San Luis Obispo sedge	189.4	26.1	67.0	96.3
	Santa Cruz microseris	324.0	56.6	66.5	201.0
	Santa Cruz Mountains				
	pussypaws	84.3	14.2	26.5	43.5
	Santa Lucia dwarf rush	206.1	22.8	52.9	130.4
	Santa Lucia manzanita	176.5	15.8	48.4	112.4
	Santa Margarita				
	manzanita	205.2	19.2	60.5	125.5
	shining navarretia	718.2	110.2	188.3	419.6
	straight-awned				
	spineflower	232.3	23.1	72.7	136.5
	Toro manzanita	2.2		0.0	2.2
woodland					
woollythreads	280.3	36.8	90.6	153.0	
yellow-flowered					
eriastrum	212.4	20.7	61.8	129.9	

Species Impacts Project - Detail

Land Cover	Taxonomic Group	Species	Sum of Existing Land Cover in Study Area	Sum of Permanent Impacts	Sum of Temporary Impacts
Annual Grassland	Fish and Wildlife	American badger	1,157.5	151.0	315.5
		Burrowing owl	1,157.5	151.0	315.5
		California condor	1,157.5	151.0	315.5
		California horned lark	1,157.5	151.0	315.5
		California linderiella	550.7	84.4	146.2
		California red-legged frog	1,157.5	151.0	315.5
		California tiger salamander	891.3	113.9	238.6
		coast horned lizard	1,157.5	151.0	315.5
		Conservancy fairy shrimp	550.7	84.4	146.2
		Ferruginous hawk	1,157.5	151.0	315.5
		golden eagle	1,157.5	151.0	315.5
		Grasshopper sparrow	1,157.5	151.0	315.5
		Lompoc grasshopper	650.2	101.2	165.4
		Merlin	1,157.5	151.0	315.5
		prairie falcon	1,157.5	151.0	315.5
		Salinas pocket mouse	891.3	113.9	238.6
		San Joaquin kit fox	1,157.5	151.0	315.5
		San Joaquin pocket mouse	650.2	101.2	165.4
		San Joaquin whipsnake	1,140.7	147.5	311.5
		silvery legless lizard	1,157.5	151.0	315.5
	tricolored blackbird	1,157.5	151.0	315.5	
	vernal pool fairy shrimp	550.7	84.4	146.2	
	western spadefoot toad	1,157.5	151.0	315.5	
	White-tailed kite	1,157.5	151.0	315.5	
	Plants	Blochman's dudleya	38.2	8.9	10.2
		caper-fruited tropidocarpum	113.7	13.3	44.5
		Chorro Creek bog thistle	38.2	8.9	10.2
		dwarf calycadenia	147.2	15.6	45.6
		Eastwood's larkspur	213.2	30.1	63.8
		hooked popcornflower	246.1	30.8	87.1
		Hoover's bent grass	151.9	22.2	54.7
		Jared's pepper-grass	53.0	7.0	13.2
		Jones' layia	38.2	8.9	10.2
La Panza mariposa-lily		38.2	8.9	10.2	
Lemmon's jewel-flower		619.7	61.4	168.7	
Monterey spineflower		382.4	40.8	113.9	
most beautiful jewel-flower		213.2	30.1	63.8	
mouse-gray dudleya	38.2	8.9	10.2		

Species Impacts Project - Detail

Annual Grassland	Plants	NONE	154.1	16.2	54.3
		pale-yellow layia	151.9	22.2	54.7
		recurved larkspur	93.6	11.2	34.4
		round-leaved filaree	322.1	36.8	99.1
		San Luis mariposa-lily	151.9	22.2	54.7
		San Luis Obispo sedge	151.9	22.2	54.7
		Santa Cruz microseris	324.0	56.6	66.5
		Santa Lucia dwarf rush	206.0	22.8	52.9
		shining navarretia	552.0	84.8	133.2
		woodland woollythreads	147.2	15.6	45.6
	Barren	Fish and Wildlife	NONE	115.8	23.1
Plants		NONE	115.8	23.1	30.4
Blue Oak Woodland	Fish and Wildlife	coast horned lizard	119.2	13.0	27.6
		Coast range newt	119.2	13.0	27.6
		golden eagle	119.2	13.0	27.6
		hoary bat	119.2	13.0	27.6
		pallid bat	119.2	13.0	27.6
	Plants	Brewer's spineflower	35.1	2.4	5.4
		chaparral ragwort	35.3	2.4	5.4
		Chorro Creek bog thistle	35.1	2.4	5.4
		Davidson's bush-mallow	8.5		1.3
		dwarf calycadenia	61.6	8.5	17.1
		Hardham's evening-primrose	62.7	4.8	12.8
		hooked popcornflower	54.3	4.8	11.4
		Hoover's bent grass	35.1	2.4	5.4
		Indian Valley bush-mallow	0.1		
		Indian Valley spineflower	51.2	8.5	14.9
		Jolon clarkia	6.4		1.3
		La Panza mariposa-lily	35.1	2.4	5.4
		mesa horkelia	49.0	4.5	9.1
		Monterey spineflower	0.1		
		most beautiful jewel-flower	49.0	4.5	9.1
		mouse-gray dudleya	35.1	2.4	5.4
		pale-yellow layia	35.1	2.4	5.4
		Palmer's monardella	35.1	2.4	5.4
		robust spineflower	0.1		
		round-leaved filaree	75.5	10.6	20.9
		San Luis Obispo County lupine	35.1	2.4	5.4
		Santa Cruz Mountains pussypaws	42.4	6.1	11.1
		Santa Lucia manzanita	35.1	2.4	5.4
		Santa Margarita manzanita	42.0	3.0	7.9

Species Impacts Project - Detail

Blue Oak Woodland	Plants	shining navarretia	77.7	10.6	20.9
		straight-awned spineflower	42.0	3.0	7.9
		woodland woollythreads	61.6	8.5	17.1
		yellow-flowered eriastrum	49.0	4.5	9.1
Blue Oak-Foothill Pine	Fish and Wildlife	coast horned lizard	58.4	6.1	25.2
		Coast range newt	58.4	6.1	25.2
		golden eagle	58.4	6.1	25.2
		hoary bat	58.4	6.1	25.2
		pallid bat	58.4	6.1	25.2
		purple martin	58.4	6.1	25.2
		Brewer's spineflower	56.5	6.1	25.1
	Plants	Hardham's evening-primrose	56.5	6.1	25.1
		hooked popcornflower	56.5	6.1	25.1
		Hoover's bent grass	56.5	6.1	25.1
		mesa horkelia	58.4	6.1	25.2
		most beautiful jewel-flower	58.4	6.1	25.2
		pale-yellow layia	56.5	6.1	25.1
		Palmer's monardella	56.5	6.1	25.1
		round-leaved filaree	58.4	6.1	25.2
		San Luis Obispo County lupine	56.5	6.1	25.1
		Santa Lucia manzanita	56.5	6.1	25.1
		Santa Margarita manzanita	58.4	6.1	25.2
		shining navarretia	2.0		0.1
		straight-awned spineflower	58.4	6.1	25.2
yellow-flowered eriastrum	58.4	6.1	25.2		
Coastal Oak Woodland	Fish and Wildlife	coast horned lizard	118.2	13.4	35.2
		Coast range newt	160.1	21.5	50.6
		golden eagle	160.1	21.5	50.6
		hoary bat	160.1	21.5	50.6
		pallid bat	160.1	21.5	50.6
		purple martin	160.1	21.5	50.6
		Brewer's spineflower	72.5	6.7	16.4
	Plants	chaparral ragwort	71.0	6.7	15.0
		Chorro Creek bog thistle	67.7	6.7	14.8
		dwarf calycadenia	71.6	12.7	27.9
		Hardham's evening-primrose	102.2	11.3	28.8
		hooked popcornflower	102.2	11.3	28.8
		Hoover's bent grass	72.5	6.7	16.4
		Indian Valley bush-mallow	3.4		0.2
		Indian Valley spineflower	69.0	12.7	26.8
		Jolon clarkia	2.4		0.1
La Panza mariposa-lily	67.7	6.7	14.8		

Species Impacts Project - Detail

Coastal Oak	Plants	mesa horkelia	87.5	8.8	22.7
		Monterey spineflower	3.4		0.2
		most beautiful jewel-flower	87.5	8.8	22.7
		mouse-gray dudleya	67.7	6.7	14.8
		pale-yellow layia	72.5	6.7	16.4
		Palmer's monardella	72.5	6.7	16.4
		robust spineflower	2.4		0.1
		round-leaved filaree	91.4	14.8	35.7
		San Luis Obispo County lupine	72.5	6.7	16.4
		Santa Cruz Mountains pussypaws	41.8	8.1	15.4
		Santa Lucia manzanita	72.5	6.7	16.4
		Santa Margarita manzanita	87.4	8.8	22.6
		shining navarretia	86.6	14.8	34.1
		straight-awned spineflower	87.4	8.8	22.6
		woodland woollythreads	71.6	12.7	27.9
		yellow-flowered eriastrum	87.5	8.8	22.7
		Coastal Scrub	Fish and Wildlife	coast horned lizard	32.7
Ferruginous hawk	32.7			3.9	13.2
golden eagle	32.7			3.9	13.2
Grasshopper sparrow	32.7			3.9	13.2
prairie falcon	32.7			3.9	13.2
Salinas pocket mouse	3.5			0.0	0.9
San Joaquin whipsnake	30.5			3.9	13.1
Plants	Blochman's dudleya			3.4	1.2
	Brewer's spineflower		27.1	3.9	12.2
	chaparral ragwort		19.0	2.7	7.7
	Chorro Creek bog thistle		3.4	1.2	2.1
	Davidson's bush-mallow		3.3		0.9
	Hutchinson's larkspur		2.2		0.0
	Jolon clarkia		19.1	1.5	6.5
	mesa horkelia		27.1	3.9	12.2
	Monterey spineflower		15.7	1.5	5.6
	pale-yellow layia		27.1	3.9	12.2
	Pecho manzanita		3.4	1.2	2.1
	robust spineflower		15.7	1.5	5.6
	San Luis mariposa-lily		27.1	3.9	12.2
	San Luis Obispo sedge		27.1	3.9	12.2
	straight-awned spineflower		27.1	3.9	12.2
Toro manzanita	2.2			0.0	
Cropland	Fish and Wildlife	California horned lark	853.4	82.4	259.1
		Ferruginous hawk	853.4	82.4	259.1
		Merlin	853.4	82.4	259.1
		prairie falcon	853.4	82.4	259.1
		tricolored blackbird	853.4	82.4	259.1
	Plants	NONE	1,138.3	118.0	387.5

Species Impacts Project - Detail

Freshwater Emergent Wetland	Fish and Wildlife	California red-legged frog	63.7	17.1	29.1
		California tiger salamander	25.6	7.8	13.4
		great blue heron	63.7	17.1	29.1
		San Luis pyrg	11.2	1.4	3.4
		tricolored blackbird	63.7	17.1	29.1
		two-striped garter snake	63.7	17.1	29.1
		western pond turtle	63.7	17.1	29.1
	Plants	Chorro Creek bog thistle	0.2		0.1
		dwarf calycadenia	22.9	7.2	12.6
		NONE	42.0	10.5	17.1
Freshwater Forested/Shrub Wetland	Fish and Wildlife	least Bell's vireo	52.8	3.5	15.2
		tricolored blackbird	52.8	3.5	15.2
	Plants	Davidson's bush-mallow	0.4	0.1	0.1
		Jolon clarkia	2.2	0.2	0.3
		NONE	51.1	3.4	15.0
Freshwater Pond	Fish and Wildlife	California red-legged frog	6.1	0.3	2.3
		California tiger salamander	2.7	0.2	1.1
		Coast range newt	6.1	0.3	2.3
		great blue heron	6.1	0.3	2.3
		tricolored blackbird	6.1	0.3	2.3
		two-striped garter snake	6.1	0.3	2.3
		western pond turtle	6.1	0.3	2.3
	Plants	NONE	6.1	0.3	2.3
Mixed Chaparral	Fish and Wildlife	coast horned lizard	4.4	0.0	0.0
		Coast range newt	4.4	0.0	0.0
		golden eagle	4.4	0.0	0.0
		San Joaquin whipsnake	4.4	0.0	0.0
		Plants	Blochman's dudleya	4.4	
		Brewer's spineflower	4.4		
		chaparral ragwort	4.4		
		Chorro Creek bog thistle	4.4		
		dwarf soaproot	4.4		
		Eastwood's larkspur	4.4		
		Hardham's evening-primrose	4.4		
		hooked popcornflower	4.4		
		Hoover's bent grass	4.4		
		Jones' layia	4.4		
		La Panza mariposa-lily	4.4		
	mesa horkelia	4.4			
	most beautiful jewel-flower	4.4			
	mouse-gray dudleya	4.4			

Species Impacts Project - Detail

Mixed Chaparral	Plants	Palmer's monardella	4.4		
		Pecho manzanita	4.4		
		San Benito fritillary	4.4		
		San Luis mariposa-lily	4.4		
		San Luis Obispo County lupine	4.4		
		San Luis Obispo sedge	8.8		
		Santa Lucia manzanita	4.4		
		Santa Margarita manzanita	4.4		
		straight-awned spineflower	4.4		
		yellow-flowered eriastrum	4.4		
Riverine	Fish and Wildlife	bank swallow	22.4	0.5	4.5
		California red-legged frog	71.7	0.8	11.7
		Foothill yellow-legged frog	71.7	0.8	11.7
		steelhead - south/central California coast DPS	71.7	0.8	11.7
		two-striped garter snake	71.7	0.8	11.7
		western pond turtle	71.7	0.8	11.7
		western spadefoot toad	71.7	0.8	11.7
		Plants	NONE	72.1	0.8
Unknown Shrub	Fish and Wildlife	coast horned lizard	6.7	0.7	3.3
		Ferruginous hawk	6.7	0.7	3.3
		golden eagle	6.7	0.7	3.3
		Grasshopper sparrow	6.7	0.7	3.3
		prairie falcon	6.7	0.7	3.3
		San Joaquin whipsnake	6.7	0.7	3.3
	Plants	Brewer's spineflower	1.6		0.0
		dwarf soaproot	1.6		0.0
		Eastwood's larkspur	6.7	0.7	3.3
		Hardham's evening-primrose	1.6		0.0
		hooked popcornflower	1.6		0.0
		Hoover's bent grass	1.6		0.0
		mesa horkelia	6.7	0.7	3.3
		most beautiful jewel-flower	6.7	0.7	3.3
		Palmer's monardella	1.6		0.0
		San Benito fritillary	1.6		0.0
		San Luis mariposa-lily	1.6		0.0
		San Luis Obispo County lupine	1.6		0.0
		San Luis Obispo sedge	1.6		0.0
		Santa Lucia dwarf rush	0.1		
Santa Lucia manzanita	1.6		0.0		
Santa Margarita manzanita	6.6	0.7	3.3		
straight-awned spineflower	6.6	0.7	3.3		
yellow-flowered eriastrum	6.7	0.7	3.3		
Urban	Fish and Wildlife	NONE	412.1	59.6	91.9

Species Impacts Project - Detail

Urban	Plants	NONE	499.9	73.4	105.6
Valley Foothill Riparian	Fish and Wildlife	bank swallow	70.8	9.8	20.0
		great blue heron	73.2	10.1	20.3
		hoary bat	73.2	10.1	20.3
		least Bell's vireo	73.2	10.1	20.3
		pallid bat	73.2	10.1	20.3
		purple martin	73.2	10.1	20.3
		tricolored blackbird	73.2	10.1	20.3
		White-tailed kite	73.2	10.1	20.3
		yellow warbler	73.2	10.1	20.3
		Plants	Abbott's bush-mallow	31.7	3.8
	Davidson's bush-mallow	54.6	7.5	16.2	
	Jolon clarkia	41.0	4.1	13.5	
	NONE	9.3	2.3	2.3	
	Valley Oak	Fish and Wildlife	coast horned lizard	10.4	0.6
Coast range newt			10.4	0.6	2.4
hoary bat			10.4	0.6	2.4
pallid bat			10.4	0.6	2.4
purple martin			10.4	0.6	2.4
White-tailed kite			10.4	0.6	2.4
Plants		Brewer's spineflower	6.4	0.6	1.5
		chaparral ragwort	6.4	0.6	1.5
		Chorro Creek bog thistle	6.4	0.6	1.5
		Hardham's evening-primrose	6.4	0.6	1.5
		hooked popcornflower	6.4	0.6	1.5
		Hoover's bent grass	6.4	0.6	1.5
		La Panza mariposa-lily	6.4	0.6	1.5
		mesa horkelia	6.4	0.6	1.5
		most beautiful jewel-flower	6.4	0.6	1.5
		mouse-gray dudleya	6.4	0.6	1.5
		NONE	4.0		0.9
		pale-yellow layia	6.4	0.6	1.5
		Palmer's monardella	6.4	0.6	1.5
		San Luis Obispo County lupine	6.4	0.6	1.5
		Santa Lucia manzanita	6.4	0.6	1.5
		Santa Margarita manzanita	6.4	0.6	1.5
		straight-awned spineflower	6.4	0.6	1.5
yellow-flowered eriastrum	6.4	0.6	1.5		

CNDDB Occurrences - Study Area

Study_Area	Species Common Name	Total CNDDB Occurrences in Study Area	CNDDB Occurrences Potentially Directly Impacted (Permanent or Temporary)	CNDDB Occurrences Potentially Indirectly Affected
Bradley Siding				
	Hardham's evening-primrose	1	0	1
	least Bell's vireo	1	1	1
	prairie falcon	3	3	3
	San Joaquin kit fox	1	1	1
	tricolored blackbird	1	0	1
	yellow warbler	1	1	1
Coburn				
	bank swallow	1	1	1
Getty/Bradley				
	prairie falcon	1	1	1
Harlem/Metz				
	American peregrine falcon	1	1	1
	bank swallow	1	1	1
	California condor	1	1	1
	golden eagle	3	3	3
	pale-yellow layia	1	0	1
	prairie falcon	13	13	13
	San Joaquin kit fox	1	1	1
	white-tailed kite	1	1	1
King City Siding				
	American badger	1	1	1
	bank swallow	1	1	1

CNDDDB Occurrences - Study Area

McKay/Wellsona				
	Lemmon's jewel-flower	1	1	1
	San Joaquin kit fox	1	1	1
	San Joaquin pocket mouse	1	1	1
	San Joaquin whipsnake	1	1	1
New Chalone Creek Siding				
	bank swallow	1	1	1
	San Joaquin kit fox	1	1	1
Second Mainline				
	Cambria morning-glory	1	0	1
	dwarf soaproot	1	1	1
	San Benito fritillary	1	1	1
	Santa Margarita manzanita	1	1	1
	western pond turtle	1	0	1
Spence Siding				
	Congdon's tarplant	1	1	1
Templeton Siding				
	mesa horkelia	1	1	1
	western spadefoot	1	1	1
Templeton/Henry				
	mesa horkelia	1	1	1
Wellsona Siding				
	Lemmon's jewel-flower	1	1	1
	San Joaquin pocket mouse	1	1	1

CNDDB Occurrences - Coast Corridor

Species Common Name	CNDDB Occurrences in Coast Corridor Project Area	CNDDB Occurrences Potentially Directly Impacted (Permanent or Temporary)	CNDDB Occurrences Potentially Indirectly Affected
American badger	1	1	1
American peregrine falcon	1	1	1
bank swallow	2	2	2
California condor	1	1	1
Cambria morning-glory	1	0	1
Congdon's tarplant	1	1	1
dwarf soaproot	1	1	1
golden eagle	3	3	3
Hardham's evening- primrose	1	0	1
least Bell's vireo	1	1	1
Lemmon's jewel-flower	1	1	1
mesa horkelia	2	2	2
pale-yellow layia	1	0	1
prairie falcon	16	16	16
San Benito fritillary	1	1	1
San Joaquin kit fox	3	3	3
San Joaquin pocket mouse	1	1	1
San Joaquin whipsnake	1	1	1
Santa Margarita manzanita	1	1	1
tricolored blackbird	1	0	1
western pond turtle	1	0	1
western spadefoot	1	1	1
white-tailed kite	1	1	1
yellow warbler	1	1	1

Critical Habitat Summary

Study Area	Species with Critical Habitat	Existing in Study Area (acres)	Permanent Impacts (acres)	Temporary Impacts (acres)	Area Potentially Indirectly Affected (within 250 feet of disturbance)
Bradley Siding (Existing)	Vernal pool fairy shrimp	43	7	5	31
Henry/Santa Margarita	California red-legged frog	5	0	<0.01	5
Second Main Tracj/Siding	California red-legged frog	196	26	46	123
Acreage Grand Total		244	33	51	159
Study Area	Species with Critical Habitat	Existing in Study Area (linear feet)	Permanent Impacts (linear feet)	Temporary Impacts (linear feet)	Linear Feet Potentially Indirectly Affected (within 250 feet of disturbance)
Getty/Bradley	South-Coast California steelhead	1,945	0	0	1,945
Henry/Santa Margarita	South-Coast California steelhead	7,001	0	1,362	5,639
McKay/Wellsona	South-Coast California steelhead	559	0	0	536
Templeton Siding	South-Coast California steelhead	4,280	0	0	4,280
Wellsona Siding (Existing)	South-Coast California steelhead	785	61	66	634
Linear Feet Grand Total		14,570	61	1,428	13,034

Stream Crossing - Length Summary

Study Area	Existing Stream Length in Study Area (linear feet)	Permanent Impacts to Streams (linear feet)	Temporary Impacts to Streams (linear feet)	Number of Stream Crossings in Study Area	Notes	Species Potentially Occurring in Stream
Bradley Siding	983	109	109	2		Foothill yellow legged frog, California red-legged frog, Coast Range newt, western spadefoot toad, two-striped garter snake, and western pond turtle
Coburn	451	0	61	1		Foothill yellow legged frog, California red-legged frog, Coast Range newt, western spadefoot toad, two-striped garter snake, and western pond turtle
Getty/Bradley	6,771	417	1,636	7	Salinas River crossed twice	Foothill yellow legged frog, California red-legged frog, Coast Range newt, western spadefoot toad, two-striped garter snake, and western pond turtle
Harlem/Metz	1,011		302	3	Includes Salinas River	Foothill yellow legged frog, California red-legged frog, Coast Range newt, western spadefoot toad, two-striped garter snake, and western pond turtle
Henry/Santa Margarita	13,739	305	5,719	6	Includes Salinas River, Santa Margarita Creek (2 crossings), and Yerba Buena Creek	Foothill yellow legged frog, California red-legged frog, Coast Range newt, western spadefoot toad, two-striped garter snake, and western pond turtle
King City Siding	950	100	133	2	Includes San Lorenzo Creek	Foothill yellow legged frog, California red-legged frog, Coast Range newt, western spadefoot toad, two-striped garter snake, and western pond turtle
McKay/Wellsona	1,903	0	0	3	Includes Salinas River (2 crossings) and San Marcos Creek	Foothill yellow legged frog, California red-legged frog, Coast Range newt, western spadefoot toad, two-striped garter snake, and western pond turtle

Stream Crossing - Length Summary

Realign Tracks at MP 165	1,005	100	403	1		Foothill yellow legged frog, California red-legged frog, Coast Range newt, western spadefoot toad, two-striped garter snake, and western pond
Realign Tracks at MP 172	1,674	150	785	1		Foothill yellow legged frog, California red-legged frog, Coast Range newt, western spadefoot toad, two-striped garter snake, and western pond
Second Mainline	12,027	749	5,986	8	Includes Santa Margarita Creek	Foothill yellow legged frog, California red-legged frog, Coast Range newt, western spadefoot toad, two-striped garter snake, and western pond
Spence Siding	1,014	83	129	3		Foothill yellow legged frog, California red-legged frog, Coast Range newt, western spadefoot toad, two-striped garter snake, and western pond
Templeton Siding	7,049	226	267	5	Salinas River crossed three times	Foothill yellow legged frog, California red-legged frog, Coast Range newt, western spadefoot toad, two-striped garter snake, and western pond
Wellsona Siding	1,991	124	123	3	Includes Salinas River and San Marcos Creek	Foothill yellow legged frog, California red-legged frog, Coast Range newt, western spadefoot toad, two-striped garter snake, and western pond
Wellsona/Paso Robles	102	0	0	1		Foothill yellow legged frog, California red-legged frog, Coast Range newt, western spadefoot toad, two-striped garter snake, and western pond turtle
Grand Total	50,670	2,364	15,654	46		

Appendix D-3
Cultural Resources Data

Railroad Bridges

ICF-ID	Existing Alignment (Track/Signal Upgrades)
RRB-1	EA-5
RRB-2	EA-6
RRB-3	EA-6
RRB-4	EA-6
RRB-5	EA-7
RRB-6	EA-9

Historic Properties

ICF-ID	APN	Est. Year Built if known	Resource Type	Upgrade Type	Upgrade Name	Impact
FC-1	Unkown	Unknown	Residential and/ or Farm Complexes	2nd Mainline	2nd Mainline	Temporary
RES-1	59472019	1947	Residential	Realignment	Henry/Santa Margarita	Temporary
RES-2	59501007	1948	Residential	Realignment	Henry/Santa Margarita	Permanent
RES-3	59541003	Unknown	Residential	Realignment	Henry/Santa Margarita	Temporary
RES-4	Unkown	Unknown	Residential	Realignment	Wellsona/Paso Robles	n/a
RES-5	26142003	1930	Residential	Realignment	Wellsona/Paso Robles	n/a
RES-6	26141047	1940	Residential	Realignment	Wellsona/Paso Robles	Temporary
RES-7	27311018	Unknown	Residential	Realignment	McKay/Wellsona	Temporary
RES-8	237011003000	Unknown	Residential	Realignment	Realign Tracks at MP 172	Temporary
RES-9	235081017000	1950	Residential	Realignment	Realign Tracks at MP 165	Temporary
RES-10	235081063000	1953	Residential	Realignment	Realign Tracks at MP 165	Temporary
RES-11	Unknown	Unknown	Residential	Realignment	Harlem/Metz	Temporary
RES-12	Unknown	Unknown	Residential	Realignment	Harlem/Metz	Temporary
RES-13	Unknown	Unknown	Residential	Realignment	Harlem/Metz	Temporary
RES-14	418391034000	1953	Residential	Realignment	Harlem/Metz	Temporary
RES-15	418391031000	Unknown	Residential	Realignment	Harlem/Metz	Temporary
RES-16	Unkown	Unknown	Residential	Realignment	Realign Tracks at MP 172	Temporary
RES-17	Unkown	Unknown	Residential	Realignment	Getty/Bradley	Temporary
RES-18	418391032000	1945	Residential	Realignment	Harlem/Metz	Temporary
IND-1	026292002000	1952	Industrial	Station	King City Station	n/a
IND-2	235091001000	Unkown	Industrial	Realignmnet	Realign Tracks at MP 165	Temporary
IND-3	026285007000	1938	Industrial	Realignmnet	King City	Temporary
IND-4	026261008000	1934	Industrial	Realignmnet	King City	Temporary
IND-5	026293002000	1940	Industrial	Realignmnet	King City	Temporary
IND-6	Unkown	Unkown	Industrial	Realignmnet	King City	Permanent
IND-7	026293003000	Unkown	Industrial	Realignmnet	King City	Permanent
COM-1	22025010000	1944	Commercial	Station	Soledad	n/a
COM-2	022026005000	1920	Commercial	Station	Soledad	n/a
COM-3	022026018000	1920	Commercial	Station	Soledad	n/a
COM-4	022026015000	1922	Commercial	Station	Soledad	n/a
COM-5	022026016000	1922	Commercial	Station	Soledad	n/a
COM-6	022014018000	1920	Commercial	Station	Soledad	n/a
COM-7	022014016000	1960	Commercial	Station	Soledad	n/a
COM-8	022014011000	1929	Commercial	Station	Soledad	n/a
P-1	Unknown	Unknown	Park	Station	Soledad	Permanent

Stations

ICF-ID	APN	Est. Year Built if known	Resource Type	Upgrade Type	Upgrade Name	Impact Type
IND-1	026292002000	1952	Industrial	Station	King City Station	n/a
IND-2	235091001000	Unkown	Industrial	Realignmnet	Realign Tracks at MP 165	
IND-3	026285007000	1938	Industrial	Realignmnet	King City	Temporary
IND-4	026261008000	1934	Industrial	Realignmnet	King City	Temporary
IND-5	026293002000	1940	Industrial	Realignmnet	King City	Temporary
IND-6	Unkown	Unkown	Industrial	Realignmnet	King City	Permanent
IND-7	026293003000	Unkown	Industrial	Realignmnet	King City	Permanent
COM-1	22025010000	1944	Commercial	Station	Soledad	n/a
COM-2	022026005000	1920	Commercial	Station	Soledad	n/a
COM-3	022026018000	1920	Commercial	Station	Soledad	n/a
COM-4	022026015000	1922	Commercial	Station	Soledad	n/a
COM-5	022026016000	1922	Commercial	Station	Soledad	n/a
COM-6	022014018000	1920	Commercial	Station	Soledad	n/a
COM-7	022014016000	1960	Commercial	Station	Soledad	n/a
COM-8	022014011000	1929	Commercial	Station	Soledad	n/a
P-1	Unknown	Unknown	Park	Station	Soledad	Permanent

Appendix D-4
Environmental Justice Data

Poverty

Row Labels	Percent Population Living Below Poverty	Greater than 25% below Poverty (1=EJ)	Tracts 10% greater than the County Poverty Percentage* (1=EJ)	Notes: *Percent Living Below Poverty Monterey - 15.10% San Luis Obispo - 13.20%
Monterey County				
Existing Alignment (Track/Signal)				
EA-1				
Census Tract 106.06	15.50			
Census Tract 107.02	1.40			
Census Tract 12	14.40			
Census Tract 13	38.50	1	1	
Census Tract 14	19.10			
Census Tract 145	9.00			
Census Tract 148	11.10			
Census Tract 15	13.40			
Census Tract 16	15.10			
Census Tract 17	16.30			
Census Tract 18.01	15.20			
Census Tract 18.02	26.10	1	1	
Census Tract 4	23.80			
Census Tract 5.01	46.70	1	1	
Census Tract 5.02	16.00			
Census Tract 6	28.00	1	1	
Census Tract 8	20.00			
Census Tract 9	27.20	1	1	
Census Tract 9800	0.00			
EA-2				
Census Tract 106.06	15.50			
Census Tract 107.02	1.40			
Census Tract 108.04	18.60			
Census Tract 109	32.40	1	1	
Census Tract 111.01	25.00		1	
Census Tract 111.02	11.00			
Census Tract 112.04	9.20			
Census Tract 148	11.10			
EA-3				
Census Tract 112.04	9.20			
Census Tract 113.04	10.30			
EA-4				
Census Tract 113.02	27.50	1	1	
Census Tract 113.03	4.70			
Census Tract 113.04	10.30			

Poverty

EA-5			
Census Tract 113.03	4.70		
Census Tract 113.04	10.30		
Census Tract 114	11.90		
EA-6			
Census Tract 114	11.90		
EA-7			
Census Tract 114	11.90		
Realignment			
Coburn			
Census Tract 112.04	9.20		
Census Tract 113.04	10.30		
Getty/Bradley			
Census Tract 114	11.90		
Harlem/Metz			
Census Tract 111.02	11.00		
Census Tract 112.04	9.20		
Census Tract 113.04	10.30		
McKay/Wellsona			
Census Tract 114	11.90		
Realign Tracks at MP 165			
Census Tract 113.03	4.70		
Census Tract 113.04	10.30		
Realign Tracks at MP 172			
Census Tract 114	11.90		
Sidings			
Bradley Siding			
Census Tract 114	11.90		
King City Siding			
Census Tract 113.02	27.50	1	1
Census Tract 113.03	4.70		
Census Tract 113.04	10.30		
New Chalone Creek Siding			
Census Tract 112.04	9.20		
Census Tract 113.04	10.30		
San Lucas Siding			
Census Tract 113.03	4.70		
Census Tract 113.04	10.30		
Census Tract 114	11.90		
Spence Siding			
Census Tract 106.06	15.50		
Census Tract 107.02	1.40		
Census Tract 108.04	18.60		
Census Tract 148	11.10		

Poverty

San Luis Obispo County			
Existing Alignment (Track/Signal Upgrades)			
EA-6			
Census Tract 100.02	9.90		
Census Tract 100.16	9.10		
Census Tract 103	7.70		
EA-7			
Census Tract 100.02	9.90		
Census Tract 100.16	9.10		
Census Tract 103	7.70		
EA-8			
Census Tract 100.16	9.10		
Census Tract 101.01	12.10		
Census Tract 101.02	17.40		
Census Tract 102.01	3.90		
Census Tract 102.04	13.50		
Census Tract 102.05	6.80		
Census Tract 103	7.70		
Census Tract 127.04	3.70		
Census Tract 129	6.40		
EA-9			
Census Tract 125.02	9.00		
Census Tract 125.03	13.90		
Census Tract 125.05	6.50		
Census Tract 126	9.00		
Census Tract 127.02	11.20		
Census Tract 127.04	3.70		
Census Tract 128	43.50	1	1
Census Tract 129	6.40		
EA-10			
Census Tract 109.01	74.30	1	1
Census Tract 109.02	63.70	1	1
Census Tract 110.01	11.70		
Census Tract 110.02	38.00	1	1
Census Tract 111.01	28.80	1	1
Census Tract 111.02	30.60	1	1
Census Tract 111.03	13.90		
Census Tract 112	38.00	1	1
Census Tract 114	0.00		
Census Tract 115.04	16.80		
Census Tract 127.02	11.20		
Realignment			
Henry/Santa Margarita			
Census Tract 125.03	13.90		
Census Tract 126	9.00		
Census Tract 127.02	11.20		
Census Tract 128	43.50	1	1
Census Tract 129	6.40		

Poverty

McKay/Wellsona			
Census Tract 100.02	9.90		
Census Tract 100.16	9.10		
Census Tract 103	7.70		
Templeton/Henry			
Census Tract 125.02	9.00		
Census Tract 125.05	6.50		
Census Tract 129	6.40		
Wellsona/Paso Robles			
Census Tract 100.16	9.10		
Census Tract 101.01	12.10		
Census Tract 101.02	17.40		
Census Tract 102.01	3.90		
Census Tract 103	7.70		
Second Main Line			
Second Main Line			
Census Tract 115.04	16.80		
Census Tract 127.02	11.20		
Sidings			
Templeton Siding			
Census Tract 103	7.70		
Census Tract 125.05	6.50		
Census Tract 126	9.00		
Census Tract 127.04	3.70		
Census Tract 129	6.40		
Wellsona Siding			
Census Tract 100.16	9.10		
Census Tract 103	7.70		

Race

Row Labels	% Minority	Greater than 50% Minority (1=EJ)	% Minority Population Higher than 10% Over County Percentage (1=EJ)	Notes: *Percent Non-white Monterey - 44.41% San Luis Obispo -
Monterey County				
Existing Alignment				
EA-1				
Block Group 1, Census Tract 106.06	37.55%		1	
Block Group 1, Census Tract 107.02	10.24%			
Block Group 1, Census Tract 12	35.84%		1	
Block Group 1, Census Tract 13	59.42%	1	1	
Block Group 1, Census Tract 14	41.09%		1	
Block Group 1, Census Tract 145	60.80%	1	1	
Block Group 1, Census Tract 148	50.38%	1	1	
Block Group 1, Census Tract 17	49.16%		1	
Block Group 1, Census Tract 18.01	59.33%	1	1	
Block Group 1, Census Tract 18.02	55.28%	1	1	
Block Group 1, Census Tract 4	50.59%	1	1	
Block Group 1, Census Tract 5.01	61.50%	1	1	
Block Group 1, Census Tract 5.02	57.21%	1	1	
Block Group 1, Census Tract 6	60.03%	1	1	
Block Group 1, Census Tract 9	58.73%	1	1	
Block Group 1, Census Tract 9800	0.00%			
Block Group 2, Census Tract 12	30.11%		1	
Block Group 2, Census Tract 14	39.90%		1	
Block Group 2, Census Tract 145	38.47%		1	
Block Group 2, Census Tract 16	33.81%		1	
Block Group 2, Census Tract 17	51.60%	1	1	
Block Group 2, Census Tract 18.01	49.70%		1	
Block Group 2, Census Tract 18.02	52.68%	1	1	
Block Group 2, Census Tract 4	51.94%	1	1	
Block Group 2, Census Tract 5.01	60.23%	1	1	
Block Group 2, Census Tract 5.02	54.09%	1	1	
Block Group 2, Census Tract 8	50.24%	1	1	
Block Group 2, Census Tract 9	58.19%	1	1	
Block Group 3, Census Tract 145	28.41%		1	
Block Group 3, Census Tract 15	31.93%		1	
Block Group 3, Census Tract 18.02	54.47%	1	1	
Block Group 3, Census Tract 4	55.85%	1	1	
Block Group 3, Census Tract 9	48.09%		1	
EA-2				
Block Group 1, Census Tract 106.06	37.55%		1	
Block Group 1, Census Tract 107.02	10.24%			
Block Group 1, Census Tract 108.04	57.81%	1	1	
Block Group 1, Census Tract 109	43.45%		1	

Race

Block Group 1, Census Tract 111.01	31.63%		1
Block Group 1, Census Tract 111.02	53.27%	1	1
Block Group 1, Census Tract 112.04	58.51%	1	1
Block Group 1, Census Tract 148	50.38%	1	1
Block Group 2, Census Tract 108.04	53.06%	1	1
Block Group 2, Census Tract 111.01	58.79%	1	1
Block Group 2, Census Tract 111.02	54.52%	1	1
Block Group 2, Census Tract 148	71.82%	1	1
Block Group 3, Census Tract 108.04	59.17%	1	1
Block Group 3, Census Tract 111.01	57.74%	1	1
Block Group 3, Census Tract 111.02	56.54%	1	1
Block Group 3, Census Tract 148	57.50%	1	1
EA-3			
Block Group 1, Census Tract 112.04	58.51%	1	1
Block Group 1, Census Tract 113.04	56.50%	1	1
Block Group 2, Census Tract 113.04	56.12%	1	1
Block Group 3, Census Tract 113.04	47.80%		1
EA-4			
Block Group 1, Census Tract 113.02	58.42%	1	1
Block Group 1, Census Tract 113.03	31.94%		1
Block Group 1, Census Tract 113.04	56.50%	1	1
Block Group 2, Census Tract 113.03	39.98%		1
Block Group 3, Census Tract 113.02	48.99%		1
EA-5			
Block Group 1, Census Tract 113.03	31.94%		1
Block Group 1, Census Tract 113.04	56.50%	1	1
Block Group 1, Census Tract 114	30.50%		1
Block Group 2, Census Tract 114	21.63%		
EA-6			
Block Group 1, Census Tract 114	30.50%		1
Block Group 2, Census Tract 114	21.63%		
EA-7			
Block Group 1, Census Tract 114	30.50%		1
Block Group 2, Census Tract 114	21.63%		
Realignment			
Coburn			
Block Group 1, Census Tract 112.04	58.51%	1	1
Block Group 1, Census Tract 113.04	56.50%	1	1
Getty/Bradley			
Block Group 1, Census Tract 114	30.50%		1
Block Group 2, Census Tract 114	21.63%		
Harlem/Metz			
Block Group 1, Census Tract 112.04	58.51%	1	1
Block Group 1, Census Tract 113.04	56.50%	1	1
Block Group 3, Census Tract 111.02	56.54%	1	1

Race

McKay/Wellsona			
Block Group 1, Census Tract 114	30.50%		1
Block Group 2, Census Tract 114	21.63%		
Realign Tracks at MP 165			
Block Group 1, Census Tract 113.03	31.94%		1
Block Group 1, Census Tract 113.04	56.50%	1	1
Realign Tracks at MP 172			
Block Group 1, Census Tract 114	30.50%		1
Sidings			
Bradley Siding			
Block Group 1, Census Tract 114	30.50%		1
Block Group 2, Census Tract 114	21.63%		
King City Siding			
Block Group 1, Census Tract 113.02	58.42%	1	1
Block Group 1, Census Tract 113.03	31.94%		1
Block Group 1, Census Tract 113.04	56.50%	1	1
Block Group 2, Census Tract 113.02	52.23%	1	1
Block Group 2, Census Tract 113.03	39.98%		1
Block Group 2, Census Tract 113.04	56.12%	1	1
Block Group 3, Census Tract 113.02	48.99%		1
Block Group 3, Census Tract 113.04	47.80%		1
New Chalone Creek			
Block Group 1, Census Tract 112.04	58.51%	1	1
Block Group 1, Census Tract 113.04	56.50%	1	1
San Lucas Siding			
Block Group 1, Census Tract 113.03	31.94%		1
Block Group 1, Census Tract 113.04	56.50%	1	1
Block Group 1, Census Tract 114	30.50%		1
Spence Siding			
Block Group 1, Census Tract 106.06	37.55%		1
Block Group 1, Census Tract 107.02	10.24%		
Block Group 1, Census Tract 148	50.38%	1	1
Block Group 2, Census Tract 108.04	53.06%	1	1
Block Group 2, Census Tract 148	71.82%	1	1
San Luis Obispo County			
Existing Alignment			
EA-6			
Block Group 2, Census Tract 100.02	8.91%		
Block Group 2, Census Tract 100.16	30.18%		1
Block Group 4, Census Tract 103	14.72%		
EA-7			
Block Group 1, Census Tract 100.16	10.50%		
Block Group 2, Census Tract 100.02	8.91%		
Block Group 2, Census Tract 100.16	30.18%		1
Block Group 4, Census Tract 103	14.72%		

Race

EA-8			
Block Group 1, Census Tract 100.16	10.50%		
Block Group 1, Census Tract 101.01	11.72%		
Block Group 1, Census Tract 101.02	30.43%		1
Block Group 1, Census Tract 102.01	14.13%		
Block Group 1, Census Tract 102.04	17.70%		
Block Group 1, Census Tract 102.05	24.24%		
Block Group 1, Census Tract 103	9.51%		
Block Group 1, Census Tract 129	9.71%		
Block Group 2, Census Tract 101.02	38.83%		1
Block Group 2, Census Tract 102.01	13.74%		
Block Group 2, Census Tract 129	17.01%		
Block Group 3, Census Tract 101.02	28.65%		1
Block Group 3, Census Tract 102.05	22.82%		
Block Group 3, Census Tract 127.04	9.02%		
Block Group 4, Census Tract 101.02	18.13%		
Block Group 4, Census Tract 103	14.72%		
Block Group 5, Census Tract 101.02	21.83%		
EA-9			
Block Group 1, Census Tract 125.02	13.58%		
Block Group 1, Census Tract 125.03	11.57%		
Block Group 1, Census Tract 125.05	13.09%		
Block Group 1, Census Tract 126	10.93%		
Block Group 1, Census Tract 127.04	6.11%		
Block Group 1, Census Tract 128	35.23%		1
Block Group 1, Census Tract 129	9.71%		
Block Group 2, Census Tract 125.02	17.26%		
Block Group 2, Census Tract 125.03	21.59%		
Block Group 2, Census Tract 125.05	8.26%		
Block Group 2, Census Tract 126	13.87%		
Block Group 2, Census Tract 127.02	8.97%		
Block Group 2, Census Tract 127.04	5.62%		
Block Group 2, Census Tract 129	17.01%		
Block Group 3, Census Tract 125.02	14.98%		
Block Group 3, Census Tract 125.03	18.99%		
Block Group 3, Census Tract 125.05	13.14%		
Block Group 3, Census Tract 126	13.28%		
Block Group 3, Census Tract 127.02	13.08%		
Block Group 3, Census Tract 127.04	9.02%		
Block Group 4, Census Tract 126	11.16%		
Block Group 4, Census Tract 127.02	8.69%		
Block Group 4, Census Tract 127.04	6.56%		
Block Group 5, Census Tract 126	7.78%		
Block Group 5, Census Tract 127.02	8.51%		
EA-10			
Block Group 1, Census Tract 109.01	21.78%		
Block Group 1, Census Tract 109.02	11.83%		

Race

Block Group 1, Census Tract 110.02	11.17%		
Block Group 1, Census Tract 111.01	12.43%		
Block Group 1, Census Tract 111.02	12.74%		
Block Group 1, Census Tract 111.03	20.19%		
Block Group 1, Census Tract 112	20.27%		
Block Group 1, Census Tract 114	47.39%		1
Block Group 1, Census Tract 115.04	7.61%		
Block Group 2, Census Tract 109.01	22.19%		
Block Group 2, Census Tract 109.02	14.26%		
Block Group 2, Census Tract 110.01	8.95%		
Block Group 2, Census Tract 110.02	12.83%		
Block Group 2, Census Tract 111.01	15.32%		
Block Group 2, Census Tract 111.02	16.71%		
Block Group 2, Census Tract 111.03	17.86%		
Block Group 2, Census Tract 112	8.85%		
Block Group 2, Census Tract 115.04	21.46%		
Block Group 2, Census Tract 127.02	8.97%		
Block Group 3, Census Tract 109.02	19.62%		
Block Group 3, Census Tract 110.01	18.80%		
Block Group 3, Census Tract 111.01	16.03%		
Block Group 3, Census Tract 111.02	12.86%		
Block Group 3, Census Tract 112	9.90%		
Block Group 4, Census Tract 111.02	12.58%		
Block Group 4, Census Tract 112	10.40%		
Block Group 4, Census Tract 127.02	8.69%		
Block Group 5, Census Tract 112	9.16%		
Realignment			
Henry/Santa Margarita			
Block Group 1, Census Tract 128	35.23%		1
Block Group 1, Census Tract 129	9.71%		
Block Group 2, Census Tract 125.03	21.59%		
Block Group 2, Census Tract 127.02	8.97%		
Block Group 3, Census Tract 127.02	13.08%		
Block Group 4, Census Tract 127.02	8.69%		
Block Group 5, Census Tract 126	7.78%		
Block Group 5, Census Tract 127.02	8.51%		
McKay/Wellsona			
Block Group 1, Census Tract 100.16	10.50%		
Block Group 2, Census Tract 100.02	8.91%		
Block Group 2, Census Tract 100.16	30.18%		1
Block Group 4, Census Tract 103	14.72%		
Templeton/Henry			
Block Group 1, Census Tract 125.02	13.58%		
Block Group 1, Census Tract 125.05	13.09%		
Block Group 1, Census Tract 129	9.71%		
Block Group 2, Census Tract 125.02	17.26%		
Block Group 2, Census Tract 125.05	8.26%		

Race

Block Group 3, Census Tract 125.02	14.98%		
Block Group 3, Census Tract 125.05	13.14%		
Wellsona/Paso Robles			
Block Group 1, Census Tract 100.16	10.50%		
Block Group 1, Census Tract 101.01	11.72%		
Block Group 1, Census Tract 102.01	14.13%		
Block Group 2, Census Tract 101.02	38.83%		1
Block Group 4, Census Tract 103	14.72%		
Second Mainline			
Second Mainline			
Block Group 1, Census Tract 115.04	7.61%		
Block Group 2, Census Tract 115.04	21.46%		
Block Group 2, Census Tract 127.02	8.97%		
Block Group 3, Census Tract 127.02	13.08%		
Block Group 4, Census Tract 127.02	8.69%		
Sidings			
Templeton Siding			
Block Group 1, Census Tract 103	9.51%		
Block Group 1, Census Tract 125.05	13.09%		
Block Group 1, Census Tract 126	10.93%		
Block Group 1, Census Tract 127.04	6.11%		
Block Group 1, Census Tract 129	9.71%		
Block Group 2, Census Tract 127.04	5.62%		
Block Group 2, Census Tract 129	17.01%		
Block Group 3, Census Tract 127.04	9.02%		
Block Group 4, Census Tract 127.04	6.56%		
Wellsona Siding			
Block Group 1, Census Tract 100.16	10.50%		
Block Group 2, Census Tract 100.16	30.18%		1
Block Group 4, Census Tract 103	14.72%		

Appendix D-5
Geology and Soils Data

Geologic Units Summary

Geologic Units	Sum of Acres
Ex. Alignment	1,368.99
EA-1	94.83
Quaternary alluvium and marine deposits	
Pliocene to Holocene	94.83
EA-2	274.72
Plio-Pleistocene and Pliocene loosely consolidated deposits	
Miocene to Pleistocene	0.18
Quaternary alluvium and marine deposits	
Pliocene to Holocene	263.67
Schist of various types and ages, unit 1 (Peninsular Ranges)	
Late Cretaceous to Eocene	10.87
EA-3	83.10
Quaternary alluvium and marine deposits	
Pliocene to Holocene	83.10
EA-4	55.74
Quaternary alluvium and marine deposits	
Pliocene to Holocene	55.74
EA-5	265.13
Plio-Pleistocene and Pliocene loosely consolidated deposits	
Miocene to Pleistocene	46.54
Quaternary alluvium and marine deposits	
Pliocene to Holocene	218.59
EA-6	110.70
Quaternary alluvium and marine deposits	
Pliocene to Holocene	110.70
EA-7	55.04
Quaternary alluvium and marine deposits	
Pliocene to Holocene	55.04
EA-8	100.52
Quaternary alluvium and marine deposits	
Pliocene to Holocene	100.52
EA-9	143.42
Miocene marine rocks	
Oligocene to Pliocene	25.67
Plio-Pleistocene and Pliocene loosely consolidated deposits	
Miocene to Pleistocene	7.20
Quaternary alluvium and marine deposits	
Pliocene to Holocene	82.97
Upper Cretaceous marine rocks, unit 1 (Upper Great Valley Sequence)	
Late Cretaceous	27.59
EA-10	185.81
Lower Cretaceous marine rocks	
Early Cretaceous	3.95

Geologic Units Summary

Miocene marine rocks	
Oligocene to Pliocene	17.23
Franciscan Complex, unit 1 (Coast Ranges)	
Jurassic to Cretaceous	121.28
Ultramafic rocks, chiefly Mesozoic, unit 1 (Trinity Ophiolite)	
Middle to Late Jurassic	13.91
Quaternary large landslide deposits	
Quaternary	6.63
Mesozoic volcanic rocks, unit 1 (Coast Ranges)	
Jurassic to Cretaceous	15.04
Cretaceous marine rocks (in part nonmarine), unit 1 (Coast Ranges)	
Early to Late Cretaceous	7.72
Tertiary intrusive rocks (hypabyssal), unit 1 (Cascades Volcanic Field)	
Tertiary	0.06
2nd Main Line	71.62
2nd Main Line	71.62
Lower Cretaceous marine rocks	
Early Cretaceous	66.37
Tertiary volcanic flow rocks, unit 1 (Quien Sabe-Burdell Mountain)	
Tertiary (16-18 Ma)	1.75
Upper Cretaceous marine rocks, unit 1 (Upper Great Valley Sequence)	
Late Cretaceous	3.50
Realignment	937.34
Coburn	137.32
Quaternary alluvium and marine deposits	
Pliocene to Holocene	137.32
Getty/Bradley	91.15
Plio-Pleistocene and Pliocene loosely consolidated deposits	
Miocene to Pleistocene	48.97
Quaternary alluvium and marine deposits	
Pliocene to Holocene	42.18
Harlem/Metz	207.80
Plio-Pleistocene and Pliocene loosely consolidated deposits	
Miocene to Pleistocene	7.52
Quaternary alluvium and marine deposits	
Pliocene to Holocene	137.42
Schist of various types and ages, unit 1 (Peninsular Ranges)	
Late Cretaceous to Eocene	62.85
Henry/Santa Margarita	132.72
Miocene marine rocks	
Oligocene to Pliocene	33.54
Quaternary alluvium and marine deposits	
Pliocene to Holocene	99.18
McKay/Wellsona	124.70
Quaternary alluvium and marine deposits	
Pliocene to Holocene	124.70

Geologic Units Summary

Realign Tracks at MP 165	64.11
Quaternary alluvium and marine deposits	
Pliocene to Holocene	64.11
Realign Tracks at MP 172	125.19
Quaternary alluvium and marine deposits	
Pliocene to Holocene	125.19
Templeton/Henry	28.38
Quaternary alluvium and marine deposits	
Pliocene to Holocene	28.38
Wellsona/Paso Robles	25.97
Quaternary alluvium and marine deposits	
Pliocene to Holocene	25.97
Siding	390.46
Bradley Siding Siding	83.34
Quaternary alluvium and marine deposits	
Pliocene to Holocene	83.34
King City Siding	54.44
Quaternary alluvium and marine deposits	
Pliocene to Holocene	54.44
New Chalone Creek Siding	37.86
Plio-Pleistocene and Pliocene loosely consolidated deposits	
Miocene to Pleistocene	3.10
Quaternary alluvium and marine deposits	
Pliocene to Holocene	34.76
San Lucas Siding	45.86
Quaternary alluvium and marine deposits	
Pliocene to Holocene	45.86
Spence Siding	42.32
Quaternary alluvium and marine deposits	
Pliocene to Holocene	42.32
Templeton Siding	80.90
Quaternary alluvium and marine deposits	
Pliocene to Holocene	80.90
Wellsona Siding	45.74
Quaternary alluvium and marine deposits	
Pliocene to Holocene	45.74
Station	5.31
King City Station	3.40
Quaternary alluvium and marine deposits	
Pliocene to Holocene	3.40
Soledad Station	1.91
Quaternary alluvium and marine deposits	
Pliocene to Holocene	1.91
Grand Total	2,773.72

Fault Summary Table

Quaternary and Younger Faults	Length (feet)
Ex. Alignment	999.45
EA-8	95.25
Track/Signal Upgrades	95.25
Rinconada fault	95.25
EA-9	508.80
Track/Signal Upgrades	508.80
Rinconada fault	508.80
EA-10	395.41
Track/Signal Upgrades	395.41
Cambria fault	100.09
Oceanic fault	295.32
Realignment	2,117.67
Henry/Santa Margarita	2,117.67
Permanent	490.86
Rinconada fault	490.86
Temporary	1,626.81
Rinconada fault	1,626.81
Siding	296.64
Templeton Siding	296.64
Permanent	147.34
Unnamed Fault	147.34
Temporary	149.31
Unnamed Fault	149.31
Grand Total	3,413.77

Note: No faults occur within the proposed King City and Soledad stations.

Seismic Shaking Hazard Summary

Row Labels	Sum of Acres
2nd Main Line	71.62
2nd Main Line	71.62
Permanent	
Low (0.35)	18.67
Low (0.55)	7.10
Temporary	
Low (0.35)	33.17
Low (0.45)	0.00
Low (0.55)	12.69
Ex. Alignment	1,368.99
EA-1	94.83
Track/Signal Upgrades	
Low (0.75)	16.28
Medium (0.85)	78.55
EA-2	274.72
Track/Signal Upgrades	
Low (0.65)	191.07
Low (0.75)	83.65
EA-3	83.10
Track/Signal Upgrades	
Low (0.55)	82.37
Low (0.65)	0.73
EA-4	55.74
Track/Signal Upgrades	
Low (0.55)	36.32
Low (0.65)	19.42
EA-5	265.13
Track/Signal Upgrades	
Low (0.55)	19.81
Low (0.65)	179.53
Low (0.75)	65.78
EA-6	110.70
Track/Signal Upgrades	
Low (0.75)	110.70
EA-7	55.04
Track/Signal Upgrades	
Low (0.65)	29.52
Low (0.75)	25.51
EA-8	100.52
Track/Signal Upgrades	
Low (0.65)	96.06
Low (0.75)	4.46

Seismic Shaking Hazard Summary

EA-9	143.42
Track/Signal Upgrades	
Low (0.35)	27.39
Low (0.55)	50.80
Low (0.65)	65.24
EA-10	185.81
Track/Signal Upgrades	
Low (0.35)	133.77
Low (0.55)	52.03
Realignment	937.34
Coburn	137.32
Permanent	
Low (0.55)	27.46
Temporary	
Low (0.55)	109.86
Getty/Bradley	91.15
Permanent	
Low (0.55)	4.83
Low (0.65)	4.52
Low (0.75)	8.88
Temporary	
Low (0.55)	19.02
Low (0.65)	18.01
Low (0.75)	35.88
Harlem/Metz	207.80
Permanent	
Low (0.65)	41.56
Temporary	
Low (0.65)	166.24
Henry/Santa Margarita	132.72
Permanent	
Low (0.55)	7.85
Low (0.65)	18.70
Temporary	
Low (0.55)	29.82
Low (0.65)	76.35
McKay/Wellsona	124.70
Permanent	
Low (0.65)	11.93
Low (0.75)	13.01
Temporary	
Low (0.65)	42.73
Low (0.75)	57.03
Realign Tracks at MP 165	64.11
Permanent	
Low (0.55)	12.82

Seismic Shaking Hazard Summary

Temporary	
Low (0.55)	48.08
Low (0.65)	3.21
Realign Tracks at MP 172	125.19
Permanent	
Low (0.65)	25.04
Temporary	
Low (0.65)	100.15
Templeton/Henry	28.38
Permanent	
Low (0.55)	5.68
Temporary	
Low (0.55)	22.70
Wellsona/Paso Robles	25.97
Permanent	
Low (0.65)	5.20
Temporary	
Low (0.65)	20.78
Siding	390.46
Bradley Siding	83.34
Permanent	
Low (0.65)	10.77
Low (0.75)	39.50
Temporary	
Low (0.65)	6.98
Low (0.75)	26.09
King City Siding	54.44
Permanent	
Low (0.55)	6.51
Low (0.65)	18.56
Temporary	
Low (0.55)	9.68
Low (0.65)	19.68
New Chalone Creek Siding	37.86
Permanent	
Low (0.65)	14.90
Temporary	
Low (0.65)	22.96
San Lucas Siding	45.86
Permanent	
Low (0.55)	22.88
Temporary	
Low (0.55)	22.98
Spence Siding	42.32
Permanent	
Low (0.75)	19.34

Seismic Shaking Hazard Summary

Temporary	
Low (0.75)	22.98
Templeton Siding	80.90
Permanent	
Low (0.55)	5.36
Low (0.65)	41.41
Temporary	
Low (0.55)	5.64
Low (0.65)	28.49
Wellsona Siding	45.74
Permanent	
Low (0.65)	22.80
Temporary	
Low (0.65)	22.30
Low (0.75)	0.64
Station	5.31
King City Station	3.40
Permanent	
Low (0.65)	3.40
Soledad Station	1.91
Permanent	
Low (0.65)	1.91
Grand Total	2,773.72

California Potential Shaking Ranges from **Low (0-0.83)**, **Medium (0.83-1.66)** and **High (1.66-2.50)**.

SLO Liquefaction Potential Summary

SLO Liquefaction Potential	Sum of Acres
2nd Main Line	71.62
2nd Main Line	71.62
Permanent	25.77
Moderate	4.46
Very Low	21.30
Temporary	45.85
Moderate	8.35
Very Low	37.51
Ex. Alignment	485.03
EA-10	185.81
Track/Signal Upgrades	185.81
Moderate	31.94
Very Low	153.87
EA-6	0.24
Track/Signal Upgrades	0.24
Moderate	0.24
EA-7	55.04
Track/Signal Upgrades	55.04
Moderate	52.29
Very High	2.75
EA-8	100.52
Track/Signal Upgrades	100.52
Moderate	22.74
Very High	30.23
Very Low	47.55
EA-9	143.42
Track/Signal Upgrades	143.42
Moderate	102.64
Very High	1.57
Very Low	39.21
Realignment	311.78
Henry/Santa Margarita	132.72
Permanent	26.54
Moderate	14.60
Very Low	11.94
Temporary	106.18
Moderate	64.63
Very Low	41.55
McKay/Wellsona	124.70
Permanent	24.94
Moderate	20.74
Very High	4.20
Temporary	99.76
Moderate	75.90
Very High	22.66

SLO Liquefaction Potential Summary

Very Low	1.20
Templeton/Henry	28.38
Permanent	5.68
Moderate	5.68
Temporary	22.70
Moderate	22.62
Very Low	0.08
Wellsona/Paso Robles	25.97
Permanent	5.20
Moderate	5.19
Very Low	0.01
Temporary	20.78
Moderate	18.95
Very Low	1.83
Siding	126.64
Templeton Siding	80.90
Permanent	46.77
Moderate	9.31
Very High	18.76
Very Low	18.70
Temporary	34.13
Moderate	9.66
Very High	11.34
Very Low	13.13
Wellsona Siding (Existing)	45.74
Permanent	22.80
Moderate	13.24
Very High	9.56
Temporary	22.94
Moderate	11.90
Very High	10.59
Very Low	0.46
Grand Total	995.06

SLO Landslide Potential Summary

SLO Landslide Potential	Sum of Acres
2nd Main Line	71.62
2nd Main Line	71.62
Permanent	25.77
High Potential	12.16
Low Potential	13.60
Temporary	45.85
High Potential	23.53
Low Potential	22.33
Ex. Alignment	586.09
EA-6	0.19
Track/Signal Upgrades	0.19
Low Potential	0.19
EA-7	55.04
Track/Signal Upgrades	55.04
Low Potential	55.04
EA-8	113.69
Track/Signal Upgrades	113.69
Low Potential	112.49
Moderate Potential	1.20
EA-9	202.58
Track/Signal Upgrades	202.58
High Potential	32.11
Low Potential	137.64
Moderate Potential	32.84
EA-10	214.60
Track/Signal Upgrades	214.60
High Potential	172.67
Low Potential	33.21
Moderate Potential	0.23
Very High	8.50
Realignment	340.07
Henry/Santa Margarita	132.72
Permanent	26.54
Low Potential	22.93
Moderate Potential	3.61
Temporary	106.18
High Potential	0.24
Low Potential	91.74
Moderate Potential	14.20
McKay/Wellsona	124.70
Permanent	24.94
Low Potential	24.94
Temporary	99.76
Low Potential	99.76

SLO Landslide Potential Summary

Templeton/Henry	56.67
Permanent	11.35
Low Potential	11.35
Temporary	45.32
Low Potential	45.32
Wellsona/Paso Robles	25.97
Permanent	5.20
Low Potential	5.20
Temporary	20.78
Low Potential	20.78
Siding	184.36
Templeton Siding	138.62
Permanent	82.32
High Potential	5.89
Low Potential	72.61
Moderate Potential	3.82
Temporary	56.29
High Potential	2.50
Low Potential	53.14
Moderate Potential	0.65
Wellsona Siding (Existing)	45.74
Permanent	22.80
Low Potential	22.80
Temporary	22.94
Low Potential	22.94
Grand Total	1,182.15

Monterey Landslide Potential

Monterey Landslide Potential	
Ex. Alignment	
EA-1	
	Track/Signal Upgrades
	Low Potential
EA-2	
	Track/Signal Upgrades
	Moderate Potential
EA-3	
	Track/Signal Upgrades
	Moderate Potential
EA-4	
	Track/Signal Upgrades
	Low Potential
EA-5	
	Track/Signal Upgrades
	High Potential
EA-6	
	Track/Signal Upgrades
	Low Potential
Realignment	
Coburn	
	Permanent
	Moderate Potential
	Temporary
	Moderate Potential
Getty/Bradley	
	Permanent
	High Potential
	Temporary
	High Potential
Harlem/Metz	
	Permanent
	Moderate Potential
	Temporary
	Moderate Potential
Realign Tracks at MP 165	
	Permanent
	Low Potential
	Temporary
	Low Potential
Realign Tracks at MP 172	
	Permanent
	Low Potential
	Temporary
	Low Potential

Monterey Landslide Potential

Siding
Bradley Siding
Permanent
Moderate Potential
Temporary
Moderate Potential
King City Siding
Permanent
Low Potential
Temporary
Low Potential
New Chalone Creek Siding
Permanent
Moderate Potential
Temporary
Moderate Potential
San Lucas Siding
Permanent
Low Potential
Temporary
Low Potential
Spence Siding
Permanent
Low Potential
Temporary
Low Potential
Station
Soledad Station
Permanent
Low Potential
King City Station
Permanent
Low Potential

Monterey Liquefaction

Monterey Liquefaction	
Ex. Alignment	
EA-1	
Track/Signal Upgrades	
High Potential	
EA-2	
Track/Signal Upgrades	
Moderate Potential	
EA-3	
Track/Signal Upgrades	
High Potential	
EA-4	
Track/Signal Upgrades	
Moderate Potential	
EA-5	
Track/Signal Upgrades	
High Potential	
EA-6	
Track/Signal Upgrades	
High Potential	
Realignment	
Coburn	
Permanent	
High Potential	
Temporary	
High Potential	
Getty/Bradley	
Permanent	
Moderate Potential	
Temporary	
Moderate Potential	
Harlem/Metz	
Permanent	
High Potential	
Temporary	
High Potential	
Realign Tracks at MP 165	
Permanent	
Moderate Potential	
Temporary	
Moderate Potential	
Realign Tracks at MP 172	
Permanent	
Moderate Potential	

Monterey Liquefaction

Temporary
Moderate Potential
Siding
Bradley Siding
Permanent
High Potential
Temporary
High Potential
King City Siding
Permanent
Moderate Potential
Temporary
Moderate Potential
New Chalone Creek
Permanent
High Potential
Temporary
High Potential
San Lucas Siding
Permanent
Moderate Potential
Temporary
Moderate Potential
Spence Siding
Permanent
Moderate Potential
Temporary
Moderate Potential
Station
King City Station
Permanent
Moderate Potential
Soledad
Permanent
Moderate Potential

SLO Soil Shrink-Swell Potential

Upgrade	Sum of Acres
2nd Main Line	71.62
2nd Main Line	71.62
Permanent	25.77
High	0.86
Low	15.30
Moderate	9.60
Temporary	45.85
High	2.35
Low	27.00
Moderate	16.50
Ex. Alignment	484.77
EA-7	55.04
Track/Signal Upgrades	55.04
Low	54.80
Not Rated or N/A	0.23
EA-8	100.52
Track/Signal Upgrades	100.52
Low	58.79
Moderate	41.61
Not Rated or N/A	0.12
EA-9	143.42
Track/Signal Upgrades	143.42
High	9.06
Low	79.51
Moderate	54.85
EA-10	185.80
Track/Signal Upgrades	185.80
High	55.18
Low	14.60
Moderate	114.77
Not Rated or N/A	1.25
Realignment	311.78
Henry/Santa Margarita	132.72
Permanent	26.54
Low	17.07
Moderate	9.47
Temporary	106.18
Low	62.75
Moderate	39.97
Not Rated or N/A	3.46
McKay/Wellsona	124.70
Permanent	24.94
Low	24.92
Not Rated or N/A	0.02
Temporary	99.76
Low	94.25
Not Rated or N/A	5.51

SLO Soil Shrink-Swell Potential

Templeton/Henry	28.38
Permanent	5.68
Low	5.68
Temporary	22.70
Low	22.70
Wellsona/Paso Robles	25.97
Permanent	5.20
Low	5.20
Temporary	20.78
Low	20.78
Siding	126.64
Templeton Siding	80.90
Permanent	46.77
Low	31.64
Moderate	13.91
Not Rated or N/A	1.22
Temporary	34.13
Low	17.89
Moderate	13.89
Not Rated or N/A	2.35
Wellsona Siding (Existing)	45.74
Permanent	22.80
Low	22.76
Not Rated or N/A	0.04
Temporary	22.94
Low	22.88
Not Rated or N/A	0.07
Grand Total	994.81

SLO Soil Corrosivity to Steel

Upgrades	Sum of Acres
2nd Main Line	71.62
2nd Main Line	71.62
Permanent	25.77
High	6.32
Moderate	7.46
Not Rated or N/A	11.99
Temporary	45.85
High	12.23
Moderate	12.88
Not Rated or N/A	20.74
Ex. Alignment	484.77
EA-7	55.04
Track/Signal Upgrades	55.04
High	1.89
Moderate	53.14
EA-8	100.52
Track/Signal Upgrades	100.52
High	43.10
Moderate	40.12
Not Rated or N/A	17.29
EA-9	143.42
Track/Signal Upgrades	143.42
High	18.30
Moderate	117.34
Not Rated or N/A	7.78
EA-10	185.80
Track/Signal Upgrades	185.80
High	137.61
Low	30.47
Moderate	4.73
Not Rated or N/A	12.98
Realignment	311.78
Henry/Santa Margarita	132.72
Permanent	26.54
High	0.79
Moderate	17.73
Not Rated or N/A	8.03
Temporary	106.18
High	8.47
Moderate	75.72
Not Rated or N/A	21.98
McKay/Wellsona	124.70
Permanent	24.94
High	2.50
Moderate	22.44

SLO Soil Corrosivity to Steel

Temporary	99.76
High	12.30
Moderate	87.46
Templeton/Henry	28.38
Permanent	5.68
Moderate	5.68
Temporary	22.70
Moderate	22.70
Wellsona/Paso Robles	25.97
Permanent	5.20
High	2.17
Moderate	3.02
Temporary	20.78
High	7.32
Moderate	13.46
Siding	126.64
Templeton Siding	80.90
Permanent	46.77
High	23.13
Moderate	23.64
Temporary	34.13
High	17.32
Moderate	16.68
Not Rated or N/A	0.12
Wellsona Siding (Existing)	45.74
Permanent	22.80
High	0.21
Moderate	21.73
Not Rated or N/A	0.86
Temporary	22.94
High	0.48
Moderate	21.52
Not Rated or N/A	0.94
Grand Total	994.81

SLO Soil Corrosivity to Concrete

Upgrades	Sum of Acres
2nd Main Line	71.62
2nd Main Line	71.62
Permanent	25.77
High	5.45
Moderate	8.32
Not Rated or N/A	11.99
Temporary	45.85
High	9.88
Moderate	15.24
Not Rated or N/A	20.74
Ex. Alignment	484.77
EA-7	55.04
Track/Signal Upgrades	55.04
Low	49.54
Moderate	5.50
EA-8	100.52
Track/Signal Upgrades	100.52
Low	71.78
Moderate	28.73
EA-9	143.42
Track/Signal Upgrades	143.42
High	9.06
Low	104.87
Moderate	28.01
Not Rated or N/A	1.49
EA-10	185.80
Track/Signal Upgrades	185.80
Low	84.48
Moderate	88.33
Not Rated or N/A	12.98
Realignment	311.78
Henry/Santa Margarita	132.72
Permanent	26.54
Low	13.53
Moderate	12.78
Not Rated or N/A	0.24
Temporary	106.18
Low	59.27
Moderate	45.91
Not Rated or N/A	1.00
McKay/Wellsona	124.70
Permanent	24.94
Low	17.36
Moderate	7.58
Temporary	99.76
Low	70.18
Moderate	29.58

SLO Soil Corrosivity to Concrete

Templeton/Henry	28.38
Permanent	5.68
Low	0.62
Moderate	5.06
Temporary	22.70
Low	2.43
Moderate	20.27
Wellsona/Paso Robles	25.97
Permanent	5.20
Low	2.85
Moderate	2.35
Temporary	20.78
Low	9.44
Moderate	11.34
Siding	126.64
Templeton Siding	80.90
Permanent	46.77
Low	41.88
Moderate	4.89
Temporary	34.13
Low	31.46
Moderate	2.54
Not Rated or N/A	0.12
Wellsona Siding (Existing)	45.74
Permanent	22.80
Low	9.35
Moderate	13.45
Temporary	22.94
Low	9.25
Moderate	13.70
Grand Total	994.81

SLO Soil Erosion Hazard

Row Labels	Sum of Acres
2nd Main Line	71.62
2nd Main Line	71.62
Permanent	25.77
Moderate	0.57
Severe	5.97
Slight	3.61
Very severe	15.61
Temporary	45.85
Moderate	0.89
Severe	10.88
Slight	7.72
Very severe	26.36
Ex. Alignment	484.77
EA-7	55.04
Track/Signal Upgrades	55.04
Slight	55.04
EA-8	100.52
Track/Signal Upgrades	100.52
Slight	83.22
Very severe	17.29
EA-9	143.42
Track/Signal Upgrades	143.42
Moderate	4.52
Severe	4.43
Slight	134.35
Very severe	0.12
EA-10	185.80
Track/Signal Upgrades	185.80
Low	84.48
Moderate	88.33
Not Rated or N/A	1.86
Very severe	11.12
Realignment	311.78
Henry/Santa Margarita	132.72
Permanent	26.54
Moderate	0.24
Slight	22.01
Very severe	4.30
Temporary	106.18
Moderate	1.38
Slight	95.93
Very severe	8.87
McKay/Wellsona	124.70
Permanent	24.94
Severe	2.41
Slight	22.54

SLO Soil Erosion Hazard

Temporary	99.76
Severe	11.76
Slight	88.01
Templeton/Henry	28.38
Permanent	5.68
Moderate	5.06
Slight	0.62
Temporary	22.70
Moderate	19.01
Slight	3.70
Wellsona/Paso Robles	25.97
Permanent	5.20
Slight	5.20
Temporary	20.78
Slight	20.78
Siding	126.64
Templeton Siding	80.90
Permanent	46.77
Slight	46.77
Temporary	34.13
Slight	34.13
Wellsona Siding (Existing)	45.74
Permanent	22.80
Severe	6.86
Slight	15.08
Very severe	0.86
Temporary	22.94
Severe	6.21
Slight	15.80
Very severe	0.94
Grand Total	994.81

Monterey Soil Shrink-Swell Potential

Row Labels	Sum of Acreage
Ex. Alignment	883.746
EA-1	94.827
Track/Signal Upgrades	94.827
High	53.168
Low	29.897
Moderate	11.762
EA-2	274.326
Track/Signal Upgrades	274.326
High	79.152
Low	101.637
Moderate	77.556
Not Rated or N/A	15.980
EA-3	83.098
Track/Signal Upgrades	83.098
High	28.736
Low	26.938
Moderate	18.060
Not Rated or N/A	9.364
EA-4	55.742
Track/Signal Upgrades	55.742
High	0.111
Low	17.204
Moderate	24.205
Not Rated or N/A	14.222
EA-5	265.126
Track/Signal Upgrades	265.126
High	34.867
Low	83.910
Moderate	136.198
Not Rated or N/A	10.150
EA-6	110.628
Track/Signal Upgrades	110.628
High	13.672
Low	96.956
Realignment	625.562
Coburn	137.320
Permanent	27.464
High	14.623
Low	4.207
Moderate	7.274
Not Rated or N/A	1.360
Temporary	109.856
High	55.121
Low	13.119
Moderate	32.581
Not Rated or N/A	9.036

Monterey Soil Shrink-Swell Potential

Getty/Bradley	91.150
Permanent	18.230
Low	8.840
Moderate	9.390
Temporary	72.920
Low	29.350
Moderate	43.570
Harlem/Metz	207.796
Permanent	41.559
Low	29.256
Moderate	9.991
Not Rated or N/A	2.313
Temporary	166.237
Low	114.836
Moderate	35.530
Not Rated or N/A	15.871
Realign Tracks at MP 165	64.111
Permanent	12.822
High	8.277
Low	1.009
Moderate	1.575
Not Rated or N/A	1.961
Temporary	51.289
High	28.269
Low	3.819
Moderate	9.228
Not Rated or N/A	9.973
Realign Tracks at MP 172	125.185
Permanent	25.037
High	4.133
Low	3.550
Moderate	17.354
Temporary	100.148
High	20.443
Low	10.106
Moderate	69.599
Siding	262.974
Bradley Siding	83.343
Permanent	50.270
High	34.562
Low	8.007
Moderate	7.701
Temporary	33.073
High	23.519
Low	5.011
Moderate	4.543

Monterey Soil Shrink-Swell Potential

King City Siding	53.590
Permanent	24.929
High	5.418
Low	1.613
Moderate	17.898
Temporary	28.660
High	7.857
Low	1.656
Moderate	19.148
New Chalone Creek Siding	37.861
Permanent	14.903
Low	5.884
Moderate	9.019
Temporary	22.958
Low	10.277
Moderate	12.681
San Lucas Siding	45.856
Permanent	22.878
High	15.470
Low	7.408
Temporary	22.978
High	12.720
Low	10.259
Spence Siding	42.324
Permanent	19.342
High	8.880
Low	2.158
Moderate	8.304
Temporary	22.982
High	11.382
Low	3.086
Moderate	8.515
Station	5.317
King City Station	3.403
Permanent	3.403
Moderate	3.403
Soledad Station	1.914
Permanent	1.914
High	1.914
Grand Total	1,777.599

Monterey Corrosivity to Steel

Row Labels	Sum of Acreage
Ex. Alignment	883.746
EA-1	94.827
Track/Signal Upgrades	94.827
High	94.827
EA-2	274.326
Track/Signal Upgrades	274.326
High	241.651
Moderate	16.695
Not Rated or N/A	15.980
EA-3	83.098
Track/Signal Upgrades	83.098
High	70.032
Low	0.113
Moderate	3.590
Not Rated or N/A	9.364
EA-4	55.742
Track/Signal Upgrades	55.742
High	41.520
Not Rated or N/A	14.222
EA-5	265.126
Track/Signal Upgrades	265.126
High	250.319
Low	3.042
Not Rated or N/A	11.764
EA-6	110.628
Track/Signal Upgrades	110.628
High	106.817
Low	3.038
Moderate	0.773
Realignment	625.562
Coburn	137.320
Permanent	27.464
High	26.104
Not Rated or N/A	1.360
Temporary	109.856
High	95.206
Low	2.264
Not Rated or N/A	12.386
Getty/Bradley	91.150
Permanent	18.230
High	15.089
Low	3.141
Temporary	72.920
High	60.481
Low	12.439

Monterey Corrosivity to Steel

Harlem/Metz	207.796
Permanent	41.559
High	38.755
Moderate	0.491
Not Rated or N/A	2.313
Temporary	166.237
High	146.353
Low	0.002
Moderate	4.010
Not Rated or N/A	15.871
Realign Tracks at MP 165	64.111
Permanent	12.822
High	10.861
Not Rated or N/A	1.961
Temporary	51.289
High	41.316
Not Rated or N/A	9.973
Realign Tracks at MP 172	125.185
Permanent	25.037
High	25.037
Temporary	100.148
High	100.148
Siding	262.974
Bradley Siding	83.343
Permanent	50.270
High	50.227
Low	0.043
Temporary	33.073
High	32.332
Low	0.741
King City Siding	53.590
Permanent	24.929
High	24.591
Not Rated or N/A	0.338
Temporary	28.660
High	28.291
Not Rated or N/A	0.370
New Chalone Creek Siding	37.861
Permanent	14.903
High	14.903
Temporary	22.958
High	22.892
Moderate	0.067
San Lucas Siding	45.856
Permanent	22.878
High	22.878
Temporary	22.978
High	22.978

Monterey Corrosivity to Steel

Spence Siding	42.324
Permanent	19.342
High	19.342
Temporary	22.982
High	22.982
Station	5.317
King City Station	3.403
Permanent	3.403
High	3.403
Soledad Station	1.914
Permanent	1.914
High	1.914
Grand Total	1,777.599

Monterey Corrosivity to Concrete

Row Labels	Sum of Acreage
Ex. Alignment	883.746
EA-1	94.827
Track/Signal Upgrades	94.827
Low	94.827
EA-2	274.326
Track/Signal Upgrades	274.326
Low	212.830
Moderate	45.516
Not Rated or N/A	15.980
EA-3	83.098
Track/Signal Upgrades	83.098
Low	57.160
Moderate	16.574
Not Rated or N/A	9.364
EA-4	55.742
Track/Signal Upgrades	55.742
Low	25.686
Moderate	15.834
Not Rated or N/A	14.222
EA-5	265.126
Track/Signal Upgrades	265.126
High	4.989
Low	224.716
Moderate	23.656
Not Rated or N/A	11.764
EA-6	110.628
Track/Signal Upgrades	110.628
Low	109.855
Moderate	0.773
Realignment	625.562
Coburn	137.320
Permanent	27.464
Low	26.104
Not Rated or N/A	1.360
Temporary	109.856
Low	97.105
Moderate	0.365
Not Rated or N/A	12.386
Getty/Bradley	91.150
Permanent	18.230
Low	18.230
Temporary	72.920
High	0.237
Low	71.728
Moderate	0.955

Monterey Corrosivity to Concrete

Harlem/Metz	207.796
Permanent	41.559
Low	36.106
Moderate	3.141
Not Rated or N/A	2.313
Temporary	166.237
Low	134.068
Moderate	16.297
Not Rated or N/A	15.871
Realign Tracks at MP 165	64.111
Permanent	12.822
Low	2.667
Moderate	8.195
Not Rated or N/A	1.961
Temporary	51.289
Low	13.461
Moderate	27.855
Not Rated or N/A	9.973
Realign Tracks at MP 172	125.185
Permanent	25.037
Low	20.904
Moderate	4.133
Temporary	100.148
Low	79.147
Moderate	21.001
Siding	262.974
Bradley Siding	83.343
Permanent	50.270
Low	22.591
Moderate	27.679
Temporary	33.073
Low	15.047
Moderate	18.026
King City Siding	53.590
Permanent	24.929
Low	24.591
Not Rated or N/A	0.338
Temporary	28.660
Low	28.291
Not Rated or N/A	0.370
New Chalone Creek	37.861
Permanent	14.903
Low	13.229
Moderate	1.674
Temporary	22.958
Low	20.807
Moderate	2.151

Monterey Corrosivity to Concrete

San Lucas Siding	45.856
Permanent	22.878
Moderate	22.878
Temporary	22.978
Moderate	22.978
Spence Siding	42.324
Permanent	19.342
Low	19.342
Temporary	22.982
Low	22.982
Station	5.317
King City Station	3.403
Permanent	3.403
Low	3.403
Soledad Station	1.914
Permanent	1.914
Low	1.914
Grand Total	1,777.599

Monterey Erosion Hazard

Row Labels	Sum of Acreage
Ex. Alignment	883.746
EA-1	94.827
Track/Signal Upgrades	94.827
Slight	94.827
EA-2	274.326
Track/Signal Upgrades	274.326
Moderate	5.142
Severe	22.641
Slight	246.543
EA-3	83.098
Track/Signal Upgrades	83.098
Moderate	18.722
Severe	9.364
Slight	55.012
EA-4	55.742
Track/Signal Upgrades	55.742
Moderate	2.135
Severe	14.222
Slight	39.385
EA-5	265.126
Track/Signal Upgrades	265.126
Moderate	13.216
Severe	29.670
Slight	206.446
Very severe	15.793
EA-6	110.628
Track/Signal Upgrades	110.628
Moderate	0.773
Slight	109.855
Realignment	625.562
Coburn	137.320
Permanent	27.464
Moderate	0.002
Severe	1.360
Slight	26.102
Temporary	109.856
Moderate	9.322
Severe	9.036
Slight	88.148
Very severe	3.350
Getty/Bradley	91.150
Permanent	18.230
Severe	2.579
Slight	14.705
Very severe	0.946

Monterey Erosion Hazard

Temporary	72.920
Moderate	0.955
Severe	17.628
Slight	45.985
Very severe	8.352
Harlem/Metz	207.796
Permanent	41.559
Severe	5.454
Slight	36.106
Temporary	166.237
Moderate	1.497
Severe	31.975
Slight	132.765
Realign Tracks at MP 165	64.111
Permanent	12.822
Moderate	1.575
Severe	1.961
Slight	9.286
Temporary	51.289
Moderate	7.299
Severe	9.973
Slight	34.018
Realign Tracks at MP 172	125.185
Permanent	25.037
Moderate	1.167
Slight	23.870
Temporary	100.148
Moderate	9.479
Slight	90.669
Siding	262.974
Bradley Siding	83.343
Permanent	50.270
Severe	7.701
Slight	42.569
Temporary	33.073
Severe	4.543
Slight	28.530
King City Siding	53.590
Permanent	24.929
Slight	24.591
Very severe	0.338
Temporary	28.660
Slight	28.291
Very severe	0.370
New Chalone Creek Siding	37.861
Permanent	14.903
Severe	1.674

Monterey Erosion Hazard

Slight	13.229
Temporary	22.958
Severe	2.151
Slight	20.807
San Lucas Siding	45.856
Permanent	22.878
Moderate	1.137
Slight	21.741
Temporary	22.978
Moderate	3.594
Slight	19.384
Spence Siding	42.324
Permanent	19.342
Slight	19.342
Temporary	22.982
Slight	22.982
Station	5.317
King City Station	3.403
Permanent	3.403
Slight	3.403
Soledad Station	1.914
Permanent	1.914
Slight	1.914
Grand Total	1,777.599

Mineral Resource Summary Table

Mineral Resource by Upgrade	# of Wells	Oil and Gas Fields Crossed	Sum of Acres
EA-5	2	Ex. Alignment	40.49
Ex. Alignment	2	EA-5	
Track/Signal Upgrades		Track/Signal Upgrades	
Plugged Oil and Gas Well	2	San Ardo	40.49
Templeton/Henry	1	Grand Total	40.49
Realignment	1		
Temporary			
Plugged Oil and Gas Well	1		
Grand Total	3		

*Geothermal Wells are not within any of the upgrade areas.

Appendix D-6

Hazards and Hazardous Materials Data

Hazard Impacts - Identification Numbers

Row Labels
Ex. Alignment
EA-1
Track/Signal Upgrades
Hazardous
110013828493
Hazardous "Historic"
CAD990793887
EA-8
Track/Signal Upgrades
Hazardous "Historic"
6522
Siding
King City Siding
Temporary
Hazardous
110013971620
110013975207
T0605318033
Station
Soledad Rail Station
Permanent
Hazardous "Historic"
T0605300107
T0605300273
T0605300388
Grand Total

Notes:

1. Historic refers to a hazardous site that has had past enforcement actions.
2. No Superfund Sites are found within any of the proposed upgrades and stations.
3. No Landfills are found within any of the proposed upgrades and stations.
4. Three hazardous sites Identified within the King City Siding.
5. Three historic hazardous sites Identified within the Soledad Station.

Hazard Detail Summary

Site type	Hazardous	Hazardous Site Id.	Status	Type	Impact	Name	Source
Cleanup Program Site	Hazardous	T0605318033	Open - Site Assessment	Siding	Temporary	King City Siding	UST Impacts
Cleanup Site	Hazardous "Historic"	6522	Refer: RWQCB	Ex. Alignment	Improvements	EA-8	EnviroStorCleanupSites
SQG	Not Hazardous	110002698475	Active	Ex. Alignment	Improvements	EA-8	Facility Interests
CESQG	Not Hazardous	110001186546	Active	Realignment	Temporary	Realign Tracks at MP 165	Facility Interests
SUPERFUND (NON-NPL)	Not Hazardous	110001186546	NOT ON NPL	Realignment	Temporary	Realign Tracks at MP 165	Facility Interests
STATE MASTER	Not Hazardous	110001186546	N/A	Realignment	Temporary	Realign Tracks at MP 165	Facility Interests
HAZARDOUS WASTE BIENNIAL REPORTER	Not Hazardous	110001186546	Not Active	Realignment	Temporary	Realign Tracks at MP 165	Facility Interests
SPCC	Hazardous	110013971620	Active	Siding	Temporary	King City Siding	Facility Interests
FORMAL ENFORCEMENT ACTION	Hazardous	110013971620	N/A	Siding	Temporary	King City Siding	Facility Interests
ENFORCEMENT/COMPLIANCE ACTIVITY	Hazardous	110013971620	N/A	Siding	Temporary	King City Siding	Facility Interests
CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY	Hazardous	110013971620	N/A	Siding	Temporary	King City Siding	Facility Interests
CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY	Hazardous	110013975207	Active	Siding	Temporary	King City Siding	Facility Interests
SPCC	Hazardous	110013975207	Active	Siding	Temporary	King City Siding	Facility Interests
CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY	Hazardous	110013975207	N/A	Siding	Temporary	King City Siding	Facility Interests
FORMAL ENFORCEMENT ACTION	Hazardous	110013975207	N/A	Siding	Temporary	King City Siding	Facility Interests
ENFORCEMENT/COMPLIANCE ACTIVITY	Hazardous	110013975207	N/A	Siding	Temporary	King City Siding	Facility Interests
AIR MONITORING SITE	Not Hazardous	110020817614	N/A	Siding	Temporary	King City Siding	Facility Interests
CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY	Hazardous	110013828493	N/A	Ex. Alignment	Improvements	EA-1	Facility Interests
CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY	Hazardous	110013828493	N/A	Ex. Alignment	Improvements	EA-1	Facility Interests
CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY	Hazardous	110013828493	Active	Ex. Alignment	Improvements	EA-1	Facility Interests
ENFORCEMENT/COMPLIANCE ACTIVITY	Hazardous	110013828493	N/A	Ex. Alignment	Improvements	EA-1	Facility Interests
Historical - Non-Operating	Hazardous "Historic"	CAD990793887	CLOSED	Ex. Alignment	Improvements	EA-1	EnviroStorHazardousWaste
Tank	Hazardous "Historic"	T0605300388	Closed	Station	Permanent	Soledad Rail Station	UST Impacts
Tank	Hazardous "Historic"	T0605300107	Closed	Station	Permanent	Soledad Rail Station	UST Impacts
Tank	Hazardous "Historic"	T0605300273	Closed	Station	Permanent	Soledad Rail Station	UST Impacts

Appendix D-7

Hydrology and Water Resources Data

Floodplain Impacts

100yr Flood Impacts	Sum of Acres
Ex. Alignment (Track/Signal Upgrades)	48.85
EA-1	0.00
None	0.00
EA-2	5.01
Improvements	5.01
EA-3	0.89
Improvements	0.89
EA-4	7.59
Improvements	7.59
EA-5	5.66
Improvements	5.66
EA-6	2.37
Improvements	2.37
EA-7	1.82
Improvements	1.82
EA-8	12.87
Improvements	12.87
EA-9	10.48
Improvements	10.48
EA-10	2.17
Improvements	2.17
Realignment	165.25
Coburn	21.11
Permanent	1.52
Temporary	19.59
Getty/Bradley	22.59
Permanent	3.42
Temporary	19.17
Harlem/Metz	75.14
Permanent	13.89
Temporary	61.25
Henry/Santa Margarita	22.55
Permanent	3.75
Temporary	18.80
McKay/Wellsona	10.16
Permanent	0.20
Temporary	9.96
Realign Tracks at MP 165	6.55
Permanent	1.05
Temporary	5.51
Realign Tracks at MP 172	6.27
Permanent	0.01
Temporary	6.26

Floodplain Impacts

Wellsona/Paso Robles	0.87
Temporary	0.87
Templeton/Henry	0.00
None	0.00
Siding	13.65
King City Siding	2.07
Permanent	1.05
Temporary	1.02
Templeton Siding	9.76
Permanent	3.44
Temporary	6.33
New Chalone Creek Siding	0.53
Permanent	0.03
Temporary	0.49
Wellsona Siding Siding	1.29
Permanent	0.19
Temporary	1.10
Bradley Siding	0.00
None	0.00
Spence Siding	0.00
None	0.00
San Lucas Siding	0.00
None	0.00
2nd Mainline	0.00
2nd Mainline	0.00
None	0.00
Station	0.00
Soledad Station	0.00
None	0.00
King City Station	0.00
None	0.00
Grand Total	227.75

Stream Impacts

Upgrades	Linear Feet
Ex. Alignment (Track/Signal Upgrades)	11,787.90
EA-1	82.87
Track/Signal Upgrades	82.87
Unnamed Waterbody	82.87
EA-2	2,411.45
Track/Signal Upgrades	2,411.45
Unnamed Waterbody	2,196.71
Chualar Creek	101.06
Stonewall Creek	113.68
EA-3	119.86
Track/Signal Upgrades	119.86
Unnamed Waterbody	105.78
Chalone Creek	14.08
EA-5	1,732.24
Track/Signal Upgrades	1,732.24
Unnamed Waterbody	1,494.14
Pancho Rico Creek	112.09
Sargent Creek	21.63
Pine Creek	104.37
EA-6	1,075.73
Track/Signal Upgrades	1,075.73
Salinas River	239.54
Unnamed Waterbody	836.19
EA-7	287.20
Track/Signal Upgrades	287.20
San Marcos Creek	75.71
Unnamed Waterbody	211.49
EA-8	611.77
Track/Signal Upgrades	611.77
Unnamed Waterbody	611.77
EA-9	1,846.31
Track/Signal Upgrades	1,846.31
Santa Margarita Creek	83.87
Yerba Buena Creek	60.50
Unnamed Waterbody	1,248.35
Paso Robles Creek	135.91
Paloma Creek	73.05
Atascadero Creek	189.13
Graves Creek	55.49
EA-10	3,620.48
Track/Signal Upgrades	3,620.48
Santa Margarita Creek	301.40
Unnamed Waterbody	2,717.30

Stream Impacts

Brizzolara Creek	257.88
Stenner Creek	228.18
San Luis Obispo Creek	115.73
Realignment	9,878.10
Coburn	60.72
Temporary	60.72
Unnamed Waterbody	60.72
Getty/Bradley	2,053.82
Permanent	417.33
Unnamed Waterbody	417.33
Temporary	1,636.48
Unnamed Waterbody	1,636.48
Harlem/Metz	301.60
Temporary	301.60
Unnamed Waterbody	301.60
Henry/Santa Margarita	6,024.10
Permanent	304.63
Unnamed Waterbody	304.63
Temporary	5,719.46
Salinas River	804.82
Santa Margarita Creek	942.49
Yerba Buena Creek	322.43
Unnamed Waterbody	3,649.73
Realign Tracks at MP 165	503.00
Permanent	100.13
Unnamed Waterbody	100.13
Temporary	402.86
Unnamed Waterbody	402.86
Realign Tracks at MP 172	934.88
Permanent	150.18
Unnamed Waterbody	150.18
Temporary	784.70
Unnamed Waterbody	784.70
Second Mainline	6,735.27
Second Mainline	6,735.27
Permanent	749.39
Santa Margarita Creek	332.73
Unnamed Waterbody	416.66
Temporary	5,985.88
Santa Margarita Creek	4,406.50
Unnamed Waterbody	1,579.39
Siding	1,404.57
King City Siding	233.43
Permanent	100.09
San Lorenzo Creek	100.09
Temporary	133.34

Stream Impacts

San Lorenzo Creek	133.34
Spence Siding	212.95
Permanent	83.45
Unnamed Waterbody	83.45
Temporary	129.50
Unnamed Waterbody	129.50
Templeton Siding	492.88
Permanent	226.13
Unnamed Waterbody	226.13
Temporary	266.75
Unnamed Waterbody	266.75
Wellsona Siding	247.45
Permanent	124.12
Unnamed Waterbody	124.12
Temporary	123.34
Unnamed Waterbody	123.34
Bradley Siding	217.86
Permanent	108.98
Unnamed Waterbody	108.98
Temporary	108.88
Unnamed Waterbody	108.88
Grand Total	29,805.84

Note: There are no impacts to stations.

Number of Stream Crossings

Study Area	Number of Stream Crossings in Upgrade Area
Sidings	
Bradley Siding	1
Spence Siding	2
Templeton Siding	2
Wellsona Siding	1
San Lucas Siding	0
New Chalone Creek Siding	0
King City Siding	1
Realignments	
Coburn	1
Getty/Bradley	4
Harlem/Metz	2
Henry/Santa Margarita	6
McKay/Wellsona	0
Realign Tracks at MP 165	1
Realign Tracks at MP 172	1
Templeton/Henry	0
Wellsona/Paso Robles	0
Second Mainline	
Second Mainline	15
Stations	
King City Station	7
Soledad Station	0
Ex. Alignment (Track/Signal Upgrades)	
EA-1	0
EA-2	1
EA-3	8
EA-4	3
EA-5	0
EA-6	17
EA-7	8
EA-8	4
EA-9	7
EA-10	12
EA-10	28 ^T
Grand Total	117

Appendix D-8
Land Use Data

General Plan Land Use

GP Land Use	Sum of Acreage
2nd Main Line	64.519
2nd Main Line	64.519
Permanent	25.741
Agriculture	4.677
Rural Lands	18.825
Public Facilities	2.239
Temporary	38.778
Agriculture	13.875
Rural Lands	22.773
Public Facilities	2.130
Ex. Alignment	929.135
EA-1	14.077
Improvements	14.077
Commercial	0.086
Industrial	13.584
Public Facilities	0.407
EA-2	152.015
Improvements	152.015
Agriculture	119.384
Commercial	21.415
Industrial	11.036
Recreation	0.012
Residential	0.167
EA-3	74.602
Improvements	74.602
Agriculture	74.602
EA-4	52.120
Improvements	52.120
Agriculture	52.120
EA-5	264.660
Improvements	264.660
Agriculture	199.063
Industrial	62.303
Public Facilities	3.294
EA-6	110.362
Improvements	110.362
Agriculture	10.837
Open Space	2.510
Public Facilities	97.015
EA-7	20.497
Improvements	20.497
Agriculture	1.154
Commercial	1.334
Industrial	16.484
Open Space	0.111
Recreation	0.028
Residential	1.090

General Plan Land Use

Public Facilities	0.297
EA-8	71.157
Improvements	71.157
Agriculture	3.257
City Roads	48.572
Commercial	8.850
Industrial	8.738
Mixed Use	0.000
Open Space	0.006
Residential	1.445
Public Facilities	0.289
EA-9	133.504
Improvements	133.504
Agriculture	19.984
City Roads	2.423
Commercial	0.115
Industrial	14.855
Open Space	0.468
Recreation	7.804
Residential	10.588
ROW	74.412
Public Facilities	2.855
EA-10	36.142
Improvements	36.142
Agriculture	2.205
Commercial	5.956
Industrial	2.752
Open Space	0.285
Residential	12.675
Rural Lands	7.448
Public Facilities	4.821
Realignment	856.856
Coburn	127.732
Permanent	27.034
Agriculture	27.034
Temporary	100.699
Agriculture	100.699
Getty/Bradley	91.150
Permanent	18.230
Agriculture	18.230
Temporary	72.920
Agriculture	72.920

General Plan Land Use

Harlem/Metz	207.797
Permanent	41.559
Agriculture	38.141
Industrial	3.419
Temporary	166.237
Agriculture	151.955
Industrial	14.282
Henry/Santa Margarita	124.235
Permanent	25.166
Agriculture	5.634
City Roads	0.172
Residential	19.071
ROW	0.290
Temporary	99.069
Agriculture	17.020
City Roads	0.921
Commercial	0.002
Open Space	0.888
Residential	78.411
ROW	1.826
McKay/Wellsona	78.896
Permanent	15.631
Agriculture	5.159
Residential	0.002
Public Facilities	10.471
Temporary	63.265
Agriculture	23.400
Residential	3.079
Public Facilities	36.786
Realign Tracks at MP 165	60.487
Permanent	12.822
Agriculture	12.822
Temporary	47.665
Agriculture	46.561
Commercial	1.104
Realign Tracks at MP 172	119.013
Permanent	23.154
Agriculture	23.154
Temporary	95.859
Agriculture	95.859
Templeton/Henry	28.378
Permanent	5.676
City Roads	0.023
Open Space	0.014
Recreation	2.568
ROW	3.070

General Plan Land Use

Temporary	22.702
City Roads	5.642
Industrial	0.135
Open Space	5.856
Recreation	3.194
Residential	3.411
ROW	4.464
Wellsona/Paso Robles	19.167
Permanent	3.776
Agriculture	3.776
Temporary	15.391
Agriculture	14.038
Commercial	1.353
Siding	243.501
Bradley Siding (Existing)	79.884
Permanent	50.270
Agriculture	50.058
Residential	0.212
Temporary	29.614
Agriculture	28.290
Residential	1.203
Public Facilities	0.121
King City Siding	16.544
Permanent	1.372
Commercial	1.372
Temporary	15.172
Agriculture	6.402
Commercial	1.813
Industrial	2.686
Residential	4.271
New Chalone Creek Siding	37.861
Permanent	14.903
Agriculture	13.193
Industrial	1.710
Temporary	22.958
Agriculture	19.352
Industrial	3.606
San Lucas Siding	34.092
Permanent	22.878
Agriculture	16.480
Industrial	6.398
Temporary	11.214
Agriculture	8.574
Industrial	2.640
Spence Siding	9.037
Temporary	9.037
Agriculture	7.429
Industrial	1.608

General Plan Land Use

Templeton Siding	49.787
Permanent	23.523
Agriculture	15.217
Commercial	4.282
Industrial	0.312
Residential	2.096
Public Facilities	1.616
Temporary	26.264
Agriculture	13.138
Commercial	5.639
Industrial	0.533
Residential	4.138
Public Facilities	2.816
Wellsona Siding	16.297
Permanent	1.967
Agriculture	0.003
Industrial	0.710
Residential	1.254
Temporary	14.330
Agriculture	8.242
Industrial	1.069
Residential	5.019
Station	5.000
King City Station	3.178
Permanent	3.178
Commercial	3.113
Residential	0.065
Soledad Station	1.822
Permanent	1.822
Commercial	1.822
Grand Total	2,099.012

Notes:

1. In terms of evaluating compatibility, there has to be at least 1 acre of land to consider the impact.
2. Except for San Luis Obispo City, transportation corridors (i.e. roads, highways, etc.) are not included in Land Use data and thus reflect the reduction of impacts reported.

Land Ownership

Land Ownership	Sum of Acreage
2nd Main Line	71.618
2nd Main Line	71.618
Permanent	25.765
Private	25.765
Temporary	45.853
Private	45.853
Ex. Alignment	1,368.599
EA-1	94.827
Track/Signal Upgrades	94.827
Private	94.827
EA-2	274.327
Track/Signal Upgrades	274.327
Private	274.214
Soledad, City of	0.113
EA-3	83.098
Track/Signal Upgrades	83.098
Private	83.098
EA-4	55.742
Track/Signal Upgrades	55.742
Private	55.742
EA-5	265.127
Track/Signal Upgrades	265.127
Private	265.127
EA-6	110.696
Track/Signal Upgrades	110.696
California Department of Fish and Game	0.860
Private	10.751
United States Department of Defense	99.085
EA-7	55.036
Track/Signal Upgrades	55.036
California Department of Fish and Game	0.206
Private	45.769
United States Department of Defense	9.061
EA-8	100.517
Track/Signal Upgrades	100.517
Private	100.517
EA-9	143.423
Track/Signal Upgrades	143.423
Atascadero, City of	0.142
Private	142.172
San Luis Obispo, County of	1.109
EA-10	185.805
Track/Signal Upgrades	185.805
California Department of Corrections and Rehabilitation	0.487
California State University	0.664
Private	184.637
San Luis Obispo, City of	0.018

Land Ownership

Realignment	937.344
Coburn	137.321
Permanent	27.464
Private	27.464
Temporary	109.856
Private	109.856
Getty/Bradley	91.150
Permanent	18.230
Private	18.230
Temporary	72.920
Private	72.920
Harlem/Metz	207.797
Permanent	41.559
Private	41.559
Temporary	166.237
Private	166.237
Henry/Santa Margarita	132.723
Permanent	26.545
Private	26.525
United States Bureau of Land Management	0.020
Temporary	106.178
Private	106.178
United States Bureau of Land Management	0.000
McKay/Wellsona	124.704
Permanent	24.941
California Department of Fish and Game	10.247
Private	13.405
United States Department of Defense	1.289
Temporary	99.763
California Department of Fish and Game	36.389
Private	48.547
United States Department of Defense	14.826
Realign Tracks at MP 165	64.112
Permanent	12.822
Private	12.822
Temporary	51.289
Private	51.289
Realign Tracks at MP 172	125.185
Permanent	25.037
Private	25.037
Temporary	100.148
Private	100.148
Templeton/Henry	28.378
Permanent	5.676
Private	5.676
Temporary	22.702
Private	22.702

Land Ownership

Wellsona/Paso Robles	25.975
Permanent	5.195
Private	5.195
Temporary	20.780
Private	20.780
Siding	389.614
Bradley Siding	83.343
Permanent	50.270
Private	50.270
Temporary	33.073
Private	33.073
King City Siding	53.590
Permanent	24.930
Private	24.930
Temporary	28.660
Private	28.660
New Chalone Creek Siding	37.861
Permanent	14.903
Private	14.903
Temporary	22.958
Private	22.958
San Lucas Siding	45.857
Permanent	22.878
Private	22.878
Temporary	22.979
Private	22.979
Spence Siding	42.324
Permanent	19.342
Private	19.342
Temporary	22.983
Private	22.983
Templeton Siding	80.897
Permanent	46.771
Private	46.286
Templeton Community Services District	0.485
Temporary	34.126
Private	32.959
Templeton Community Services District	1.166
Wellsona Siding	45.742
Permanent	22.800
Private	22.800
Temporary	22.943
Private	22.943
Station	5.317
King City Station	3.403
Permanent	3.403
Private	3.403

Land Ownership

Soledad Station	1.914
Permanent	1.914
Private	1.914
Grand Total	2,772.491

Acreage for Proposed Upgrades

Proposed Upgrades	Acres
2nd Mainline	
2nd Mainline	71.618
Permanent	25.765
Temporary	45.853
Ex. Alignment (Track/Signal Upgrades)	
EA-1	94.827
Improvements	94.827
EA-2	274.715
Improvements	274.715
EA-3	83.098
Improvements	83.098
EA-4	55.742
Improvements	55.742
EA-5	265.127
Improvements	265.127
EA-6	110.696
Improvements	110.696
EA-7	55.036
Improvements	55.036
EA-8	100.517
Improvements	100.517
EA-9	143.423
Improvements	143.423
EA-10	185.805
Improvements	185.805
Realignment	
Coburn	137.321
Permanent	27.464
Temporary	109.856
Getty/Bradley	91.150
Permanent	18.230
Temporary	72.920
Harlem/Metz	207.797
Permanent	41.559
Temporary	166.237
Henry/Santa Margarita	132.723
Permanent	26.545
Temporary	106.178
McKay/Wellsona	124.704
Permanent	24.941
Temporary	99.763
Realign Tracks at MP 165	64.112
Permanent	12.822
Temporary	51.289

Acreage for Proposed Upgrades

Realign Tracks at MP 172	125.185
Permanent	25.037
Temporary	100.148
Templeton/Henry	28.378
Permanent	5.676
Temporary	22.702
Wellsona/Paso Robles	25.975
Permanent	5.195
Temporary	20.780
Sidings	
Bradley Siding	83.343
Permanent	50.270
Temporary	33.073
King City Siding	54.439
Permanent	25.074
Temporary	29.366
New Chalone Creek	37.861
Permanent	14.903
Temporary	22.958
San Lucas Siding	45.857
Permanent	22.878
Temporary	22.979
Spence Siding	42.324
Permanent	19.342
Temporary	22.982
Templeton Siding	80.896
Permanent	46.771
Temporary	34.125
Wellsona Siding	45.742
Permanent	22.800
Temporary	22.943
Grand Total	2,768.411

Appendix D-9
Noise and Vibration Data

Start Point Name	MP	End Point Name	MP	2020				2040			
				Mainline Operations		Siding Increase		Mainline Operations		Siding Increase	
				No Horns	Horns	No Horns	Horns	No Horns	Horns	No Horns	Horns
Salinas	114.9	Salinas	116.9	50	100	100	200	200	200	300	0
Firestone	116.9	Soledad	144.9	400	500	100	100	500	600	0	0
Harlem	144.9	Harlem	155.5	400	500	100	0	500	700	0	0
Detector	155.5	Detector	160.3	50	50	0	100	50	100	300	100
King City	160.3	King City	163.7	50	50	0	200	100	100	300	100
Welby	163.7	San Ardo	185.7	400	500	100	100	500	600	0	0
Wunpost	185.7	McKay	207.6	400	500	100	100	500	600	0	0
Wellsona	207.6	Wellsona	210.7	400	600	100	0	500	700	0	0
Detector	210.7	Paso Robles	218.4	400	500	100	100	500	600	0	0
Templeton	218.4	Atascadero	226.9	400	600	100	0	500	700	0	0
Detector	226.9	Detector	229.6	50	50	0	100	50	50	300	100
Santa Margarita	229.6	Santa Margarita	233.1	100	100	100	200	200	300	300	0
South Santa Margarita	233.1	South Santa Margarita	234	200	300	100	100	400	500	100	0
Cuesta	234	Cuesta	238.8	300	500	100	100	500	700	0	0
Serrano	238.8	Chorro	244.8	400	600	100	0	600	900	0	0
Detector	244.8	Detector	248.4	300	500	100	100	500	700	0	0
N. San Luis Obispo	248.4	N. San Luis Obispo	248.5	400	500	100	0	500	800	0	0

Start Point		End Point		Vibration Screening Distances (ft)
Name	MP	Name	MP	
Salinas	114.9	Salinas	116.9	80
Firestone	116.9	Soledad	144.9	130
Harlem	144.9	Harlem	155.5	100
Detector	155.5	Detector	160.3	100
King City	160.3	King City	163.7	100
Welby	163.7	San Ardo	185.7	130
Wunpost	185.7	McKay	207.6	120
Wellsona	207.6	Wellsona	210.7	120
Detector	210.7	Paso Robles	218.4	120
Templeton	218.4	Atascadero	226.9	120
Detector	226.9	Detector	229.6	120
Santa Margarita	229.6	Santa Margarita	233.1	80
South Santa Margarita	233.1	South Santa Margarita	234	60
Cuesta	234	Cuesta	238.8	50
Serrano	238.8	Chorro	244.8	40
Detector	244.8	Detector	248.4	50
N. San Luis Obispo	248.4	N. San Luis Obispo	248.5	40

Noise levels at 50 feet

Start Point Name	MP	End Point Name	MP	No Horns											
				Mainline				With Siding				With Horns			
				Existing Noise Level	2020 Future Noise	2040 Future Noise	2040 Future Noise	Existing Noise Level	2020 Future Noise	2040 Future Noise	2040 Future Noise	Existing Noise Level	2020 Future Noise	2040 Future Noise	2040 Future Noise
Salinas	114.9	Salinas	116.9	69	70	71	70	73	71	73	74	73	76		
Firestone	116.9	Soledad	144.9	71	73	73	73	75	72	75	76	75	77		
Harlem	144.9	Harlem	155.5	67	71	71	71	74	70	73	75	73	76		
Detector	155.5	Detector	160.3	71	71	71	71	74	72	73	75	73	76		
King City	160.3	King City	163.7	70	71	71	71	74	72	73	75	73	76		
Welby	163.7	San Ardo	185.7	71	73	73	73	75	72	75	76	75	77		
Wunpost	185.7	McKay	207.6	69	71	72	72	74	71	74	75	74	76		
Wellsona	207.6	Wellsona	210.7	68	71	72	72	74	70	74	75	74	76		
Detector	210.7	Paso Robles	218.4	69	71	72	72	74	71	74	75	74	76		
Templeton	218.4	Atascadero	226.9	68	71	72	72	74	70	74	75	74	76		
Detector	226.9	Detector	229.6	71	71	72	72	74	72	73	75	74	76		
Santa Margarita	229.6	Santa Margarita	233.1	69	70	70	70	73	71	73	74	73	76		
South Santa Margarita	233.1	South Santa Margarita	234	67	69	70	70	73	70	72	74	73	76		
Cuesta	234	Cuesta	238.8	67	70	71	70	73	70	73	74	73	76		
Serrano	238.8	Chorro	244.8	67	70	71	71	74	70	73	75	73	76		
Detector	244.8	Detector	248.4	67	70	71	70	73	70	73	74	73	76		
N. San Luis Obispo	248.4	N. San Luis Obispo	248.5	67	70	71	70	73	70	73	74	73	76		

Noise levels at 100 feet

Start Point Name	MP	End Point Name	MP	No Horns						With Horns				
				Mainline		With Siding		Mainline		With Siding				
				Existing Noise Level	2020 Future Noise	2040 Future Noise	2020 Future Noise	2040 Future Noise	Existing Noise Level	2020 Future Noise	2040 Future Noise	2020 Future Noise	2040 Future Noise	
Salinas	114.9	Salinas	116.9	66	67	68	67	70	68	70	71	70	73	
Firestone	116.9	Soledad	144.9	68	70	70	70	72	69	72	73	72	74	
Harlem	144.9	Harlem	155.5	64	68	68	68	71	67	70	72	70	73	
Detector	155.5	Detector	160.3	68	68	68	68	71	69	70	72	70	73	
King City	160.3	King City	163.7	67	68	68	68	71	69	70	72	70	73	
Welby	163.7	San Ardo	185.7	68	70	70	70	72	69	72	73	72	74	
Wunpost	185.7	McKay	207.6	66	68	69	69	71	68	71	72	71	73	
Wellsona	207.6	Wellsona	210.7	65	68	69	69	71	67	71	72	71	73	
Detector	210.7	Paso Robles	218.4	66	68	69	69	71	68	71	72	71	73	
Templeton	218.4	Atascadero	226.9	65	68	69	69	71	67	71	72	71	73	
Detector	226.9	Detector	229.6	68	68	69	69	71	69	70	72	71	73	
Santa Margarita	229.6	Santa Margarita	233.1	66	67	67	67	70	68	70	71	70	73	
South Santa Margarita	233.1	South Santa Margarita	234	64	66	67	67	70	67	69	71	70	73	
Cuesta	234	Cuesta	238.8	64	67	68	67	70	67	70	71	70	73	
Serrano	238.8	Chorro	244.8	64	67	68	68	71	67	70	72	70	73	
Detector	244.8	Detector	248.4	64	67	68	67	70	67	70	71	70	73	
N. San Luis Obispo	248.4	N. San Luis Obispo	248.5	64	67	68	67	70	67	70	71	70	73	

Appendix D-10
Public Services & Utilities Data

Pipeline Impact

Row Labels	Sum of Length
Siding	18,005.43
Second Mainline	6,836.98
Permanent	
Southern California Gas Co	3,374.04
Temporary	
Southern California Gas Co	3,462.94
Spence Siding	10,002.34
Permanent	
Pacific Gas & Electric Co	10,002.34
Templeton Siding	1,166.11
Temporary	
Southern California Gas Co	1,166.11
Grand Total	18,005.43

Transmission Line Impact

Row Labels	Sum of LENGTH
Siding	5,711.04
King City Siding	4,616.09
Permanent	372.16
Basic Energy 1 to Tap 69 kV	61.03
Basic Vegetable to Basic Energy 1 69 kV	241.33
Coburn to Basic Vegetable 69 kV	69.79
Temporary	4,243.93
Basic Energy 1 to Tap 69 kV	1,193.20
Basic Vegetable to Basic Energy 1 69 kV	234.06
Coburn to Basic Vegetable 69 kV	2,816.66
San Lucas Siding	242.15
Permanent	132.78
Coburn to San Ardo 69 kV	132.78
Temporary	109.37
Coburn to San Ardo 69 kV	109.37
Second Mainline	306.29
Permanent	91.49
Midway to Morro Bay 230 kV	91.49
Temporary	214.80
Midway to Morro Bay 230 kV	214.80
Templeton Siding	546.51
Permanent	309.09
Paso Robles to Atascadero 69 kV	309.09
Temporary	237.42
Paso Robles to Atascadero 69 kV	237.42
Grand Total	5,711.04

Number of Utility Crossings

Study Area	Number of Pipe Line Crossings in Upgrade Area	Number of Transmission Line Crossings in Upgrade Area
Sidings		
Bradley Siding	0	0
Spence Siding	0	1
Templeton Siding	1	1
Wellsona Siding	0	0
San Lucas Siding	1	0
New Chalone Creek Siding	0	0
King City Siding	3	0
Realignments		
Coburn	0	0
Getty/Bradley	0	0
Harlem/Metz	0	0
Henry/Santa Margarita	0	0
McKay/Wellsona	0	0
Realign Tracks at MP 165	0	0
Realign Tracks at MP 172	0	0
Templeton/Henry	0	0
Wellsona/Paso Robles	0	0
Second Mainline		
Second Mainline	1	1
Grand Total	6	3

Appendix D-11
Section 4F & 6F Data

4(f) Summary - Parks Wildlife

4(f) Properties by Upgrade (Does not include Historic)	Sum of Acreage
2nd Main Line	
2nd Main Line	37.03
Noise/Vibration Buffer	37.03
Los Padres National Forest	37.03
Ex. Alignment	
EA-1	0.34
Noise/Vibration Buffer	0.34
Batann Park	0.34
EA-10	53.70
Improvements	0.02
Stenner Spring Open Space	0.00
City Park (Untitled)	0.02
Noise/Vibration Buffer	53.68
Elsford Park	0.23
Los Padres National Forest	25.55
Santa Rosa Park	0.56
Stenner Spring Open Space	27.30
City Park (Untitled)	0.04
EA-10b	3.93
Improvements	3.93
Edna/Islay Open Space	0.44
Future Railroad Area Bike Path	0.10
Railroad Area Bike Path	0.18
Railroad Bike Path Phase II	2.91
unnamed bike path	0.30
EA-2	11.18
Improvements	0.11
Vosti Park	0.11
Noise/Vibration Buffer	11.07
Bill Ramos Park	0.17
Ceaser Chavez Park	0.13
Gonzales Cemetery	4.45
Vosti Park	6.33
EA-6	26.21
Improvements	2.28
Big Sandy Wildlife Area	2.28
Noise/Vibration Buffer	23.93
Big Sandy Wildlife Area	23.93
EA-7	93.18
Improvements	0.30
Big Sandy Wildlife Area	0.30
Noise/Vibration Buffer	92.89
Big Sandy Wildlife Area	89.66
Rios Caledonia Adobe	3.23

4(f) Summary - Parks Wildlife

EA-8	7.60
Noise/Vibration Buffer	7.60
Lawrence Moore Park	1.52
Paso Robles City Park	1.80
Pioneer Park	2.23
Robbins Field	2.05
EA-9	70.56
Improvements	1.25
Heilmann Park / Chalk Mountain Golf Course	1.11
Paloma Creek Park	0.14
Noise/Vibration Buffer	69.31
BLM	0.01
Heilmann Park / Chalk Mountain Golf Course	58.47
Paloma Creek Park	9.20
Santa Margarita Community Park	1.62
Realignment	
Henry/Santa Margarita	0.02
Permanent	0.02
BLM	0.02
Temporary	0.00
BLM	0.00
McKay/Wellsona	138.89
Noise/Vibration Buffer	91.64
Big Sandy Wildlife Area	91.64
Permanent	10.47
Big Sandy Wildlife Area	10.47
Temporary	36.78
Big Sandy Wildlife Area	36.78
Siding	
Templeton Siding	15.81
Noise/Vibration Buffer	13.91
Evers Park	11.88
Templeton Skate Park	2.03
Permanent	0.48
Evers Park	0.48
Temporary	1.41
Evers Park	1.17
Templeton Skate Park	0.24
Station	
Soledad Rail Station	1.36
Permanent	1.36
Ceaser Chavez Park	1.36
Grand Total	459.81

4(f) Detail - Parks Wildlife

Section 4(f) Properties by Upgrade Area (Historic Properties Not Included)	Sum of Acreage	Notes:
2nd Main Line		
2nd Main Line		
Noise/Vibration Buffer		
Los Padres National Forest	37.033	Does not appear to have developed recreation facilities, recommend further analysis during project phase.
Ex. Alignment		
EA-1		
Noise/Vibration Buffer		
Batann Park	0.339	Park is not listed on the City of Salina's website, but does appear on General Plan map as parkland. City of Salinas. 2002. General Plan Land Use & Circulation Policy Map. Available at: http://www.ci.salinas.ca.us/services/commdev/generalplan/GP_Land_Use_Circulation_Policy_Map.pdf . Accessed 7/30/13.
EA-10		
Improvements		
City Park (Untitled)	0.018	This small park is included in the California Protected Areas Database in the City of San Luis Obispo. The General Plan Land Use GIS data indicates this is designated small residential. Recommend further analysis during project phase.
Stenner Spring Open Space	0.000	See note below.*
Noise/Vibration Buffer		
City Park (Untitled)	0.042	This small park is included in the California Protected Areas Database data as parklands owned by the City of San Luis Obispo. The General Plan Land Use GIS data indicates this is designated small residential. Recommend further analysis during project phase.
Elsford Park	0.234	
Los Padres National Forest	25.550	Does not appear to have developed recreation facilities, recommend further analysis during project phase.
Santa Rosa Park	0.556	

4(f) Detail - Parks Wildlife

Stenner Spring Open Space	27.299	*The open space system is a multiple-use public land holding where the primary function is not that of a park, recreation facility, or wildlife or waterfowl refuge. However, there are multiple trails in this open space that may be considered Section 4(f) resources and further analysis during project phase is recommended. See the City of San Luis Obispo Stenner Springs Open Space webpage and map available at: http://www.slocity.org/parksandrecreation/stenner_springs.asp . Accessed: July 31, 2013.
EA-2		
Improvements		
Vosti Park	0.113	
Noise/Vibration Buffer		
Gonzales Cemetery	4.449	The cemetery is included in the California Protected Areas Database but is not designated as parklands on the City of Gonzales 2010 General Plan Land Use Diagram. Recommend further analysis during project phase. Accessed: 7/30/13. Source: City of Gonzales 2010. 2010 General Plan Land Use Diagram. available at: http://www.ci.gonzales.ca.us/Documents/Planning/General%20Plan/Land_Use_Map_Compiled_Display_Size.pdf
Bill Ramos Park	0.166	
Ceaser Chavez Park	0.127	
Vosti Park	6.327	
EA-6		
Improvements		
Big Sandy Wildlife Area	2.279	
Noise/Vibration Buffer		
Big Sandy Wildlife Area	23.929	
EA-7		
Improvements		
Big Sandy Wildlife Area	0.297	
Noise/Vibration Buffer		
Big Sandy Wildlife Area	89.657	
Rios Caledonia Adobe	3.230	
EA-8		
Noise/Vibration Buffer		
Lawrence Moore Park	1.519	
Paso Robles City Park	1.799	

4(f) Detail - Parks Wildlife

Pioneer Park	2.229	
Robbins Field	2.049	
EA-9		
Improvements		
Heilmann Park / Chalk Moun	1.109	
Paloma Creek Park	0.142	
Noise/Vibration Buffer		
BLM	0.015	
Heilmann Park / Chalk Moun	58.472	
Paloma Creek Park	9.202	
Santa Margarita Community	1.623	
Realignment		
Henry/Santa Margarita		
Permanent		
BLM	0.020	Does not appear to have developed recreation facilities, recommend further analysis during project phase.
Temporary		
BLM	0.000	Does not appear to have developed recreation facilities, recommend further analysis during project phase.
McKay/Wellsona		
Noise/Vibration Buffer		
Big Sandy Wildlife Area	91.639	
Permanent		
Big Sandy Wildlife Area	10.471	
Temporary		
Big Sandy Wildlife Area	36.783	
Siding		
Templeton Siding		
Noise/Vibration Buffer		
Evers Park	11.881	
Templeton Skate Park	2.033	
Permanent		
Evers Park	0.485	
Temporary		

4(f) Detail - Parks Wildlife

Evers Park	1.166	
Templeton Skate Park	0.244	
Station		
Soledad Station		
Permanent		
Ceaser Chavez Park	1.357	
Grand Total	455.883	

4(f) Historic Properties

P-number	Site Type	Recordation Date	Date Constructed	Description	Eligible NRHP	Project Component
P-27-001804	Historic - BE	Apr-95, March-03	1940	Bradley Road Bridge over the Salinas River	C	Temporary/San Lucas Siding

Note:

Cultural related buildings/properties were determined to be uneffected by project related noise/vibration. Therefore, properties outside of the impact footprints were not evaluated.

Note:

As described in the cultural resources analysis, an additional 35 properties may require evaluation under the National Register of Historic Places criteria and may potentially qualify for protection under Section 4(f). See the cultural resources analysis for information on these properties.