

Appendix R2.5

Flood Hazard, Hydrology, and Drainage Areas

Appendix R2.5 Flood Hazard, Hydrology, and Drainage Areas

This appendix presents data supporting the analysis in Volume IV, Chapter IV.5. This appendix is organized as follows.

- Section R2.5.1 – No Action Alternative: Tables R2.5-1 through R2.5-12
- Section R2.5.2 – Preferred Alternative: Tables R2.5-13 through R2.5-30
- Section R2.5.3 – Alternative 1: Tables R2.5-31 through R2.5-48
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R2.5.1 No Action Alternative

**Table R2.5-1
No Action Alternative – Development that Could Occur Within Plan Area Mapped 100-Year Floodplains (acres)**

Ecoregion Subarea Flood Designations	Acres in Subarea	Solar	Wind	Geothermal	Transmission
Cadiz Valley and Chocolate Mountains	3,064,436	39,790	0	0	14,375
Not Assessed	2,668,311	39,790	0	0	14,375
Minimal	374,351	0	0	0	0
1% Annual Chance	21,775	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	2,399,951	20,247	2,020	1,581	12,116
Not Assessed	544,504	2,567	272	213	350
Minimal	1,544,327	14,000	1,361	1,065	9,969
1% Annual Chance	310,007	3,658	385	301	1,794
0.2% Annual Chance	1,113	22	2	2	3
Kingston and Funeral Mountains	2,470,878	16,525	0	0	0
Not Assessed	1,266,009	8,349	0	0	0
Minimal	1,148,696	7,193	0	0	0
1% Annual Chance	56,173	983	0	0	0
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	2,644,097	22	0	0	2,431
Not Assessed	2,583,278	21	0	0	2,306
Minimal	41,331	1	0	0	91
1% Annual Chance	19,201	0	0	0	32
0.2% Annual Chance	288	0	0	0	2

**Table R2.5-1
No Action Alternative – Development that Could Occur Within Plan Area Mapped 100-Year Floodplains (acres)**

Ecoregion Subarea Flood Designations	Acres in Subarea	Solar	Wind	Geothermal	Transmission
Owens River Valley	417,603	0	0	0	0
Not Assessed	342	0	0	0	0
Minimal	339,606	0	0	0	0
1% Annual Chance	77,655	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	1,937,498	0	0	0	0
Not Assessed	604,076	0	0	0	0
Minimal	1,200,594	0	0	0	0
1% Annual Chance	132,828	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	2,318,701	1,075	284	0	645
Not Assessed	2,178,725	814	280	0	623
Minimal	123,386	234	4	0	19
1% Annual Chance	15,856	26	1	0	3
0.2% Annual Chance	734	1	0	0	0
Piute Valley and Sacramento Mountains	1,092,891	0	0	0	0
Not Assessed	1,081,340	0	0	0	0
Minimal	7,162	0	0	0	0
1% Annual Chance	3,965	0	0	0	0
0.2% Annual Chance	424	0	0	0	0

**Table R2.5-1
 No Action Alternative – Development that Could Occur Within Plan Area Mapped 100-Year Floodplains (acres)**

Ecoregion Subarea Flood Designations	Acres in Subarea	Solar	Wind	Geothermal	Transmission
Providence and Bullion Mountains	2,615,259	12,601	0	0	1,152
Not Assessed	2,533,295	12,592	0	0	1,152
Minimal	77,493	9	0	0	0
1% Annual Chance	4,470	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
West Mojave and Eastern Slopes	3,626,593	18,330	9,491	0	4,854
Not Assessed	1,369,178	4,957	2,650	0	1,036
Minimal	1,903,125	10,996	5,624	0	2,920
1% Annual Chance	241,727	1,786	913	0	605
0.2% Annual Chance	112,564	591	304	0	292
Grand Total	22,587,909	108,590	11,796	1,581	35,573

SUMMARY: Plan Area	Solar	Wind	Geothermal	Transmission	Total
Sum of 100-year Floodplain Acreage that Could be Developed	6,454	1,299	301	2,434	10,489
Total 100-year Floodplains in Plan Area Acreage	883,656	883,656	883,656	883,656	883,656
Percent of 100-year Floodplains that Could be Developed	0.73%	0.15%	0.03%	0.28%	1.2%

**Table R2.5-2
No Action Alternative – Plan Area – Linear Surface Water Features Potentially Affected by Development**

Ecoregion Subarea Flood Designations	Total Miles	Wind	GT	Transmission	Solar	Total	Percent Developed
Cadiz Valley and Chocolate Mountains	12,101	0	0	57	186	243	2.0%
Imperial Borrego Valley	7,309	7	5	45	68	126	1.7%
Kingston and Funeral Mountains	9,728	0	0	0	73	73	0.8%
Mojave and Silurian Valley	8,534	0	0	5	0	5	0.1%
Owens River Valley	1,493	0	0	0	0	0	0.0%
Panamint Death Valley	10,089	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	6,291	1	0	1	3	5	0.1%
Piute Valley and Sacramento Mountains	4,836	0	0	0	0	0	0.0%
Providence and Bullion Mountains	7,933	0	0	2	27	29	0.4%
West Mojave and Eastern Slopes	11,270	29	0	13	55	97	0.9%
Grand Total	79,585	36	5	124	413	578	0.7%

**Table R2.5-3
No Action Alternative – Plan Area – Areal Surface Water Features Potentially Affected by Development**

Ecoregion Subarea Flood Designations	Total Acres	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	55,152	0	0	286	286	0.5%
Imperial Borrego Valley	208,076	182	142	1,018	1,342	0.7%
Kingston and Funeral Mountains	22,694	0	0	0	0	0.0%
Mojave and Silurian Valley	46,254	0	0	3	3	0.0%
Owens River Valley	50,264	0	0	0	0	0.0%
Panamint Death Valley	123,646	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	15,635	3	0	19	22	0.1%
Piute Valley and Sacramento Mountains	7,676	0	0	0	0	0.0%
Providence and Bullion Mountains	54,670	0	0	25	25	0.1%
West Mojave and Eastern Slopes	86,308	115	0	29	144	0.2%
Grand Total	670,375	300	142	1,379	1,821	0.3%

**Table R2.5-4
No Action Alternative – Plan Area – Mapped 100-year Floodplains that Could be Conserved**

Ecoregion Subarea Flood Designations	Total Acres	Existing Protected	BLM Conservation
Cadiz Valley and Chocolate Mountains	3,064,436	799,988	386,524
Not Assessed	2,668,311	700,021	285,353
Minimal	374,351	98,008	94,586
1% Annual Chance	21,775	1,960	6,586
0.2% Annual Chance	0	0	0
Imperial Borrego Valley	2,399,951	336,822	133,224
Not Assessed	544,504	197,748	17,817
Minimal	1,544,327	109,957	111,135
1% Annual Chance	310,007	29,092	4,272
0.2% Annual Chance	1,113	25	0
Kingston and Funeral Mountains	2,470,878	1,678,558	134,793
Not Assessed	1,266,009	848,055	109,778
Minimal	1,148,696	808,203	20,228
1% Annual Chance	56,173	22,301	4,786
0.2% Annual Chance	0	0	0
Mojave and Silurian Valley	2,644,097	700,802	334,326
Not Assessed	2,583,278	680,361	320,557
Minimal	41,331	6,496	13,039
1% Annual Chance	19,201	13,945	729
0.2% Annual Chance	288	0	0
Owens River Valley	417,603	13,162	816
Not Assessed	342	0	0
Minimal	339,606	13,162	816

**Table R2.5-4
No Action Alternative – Plan Area – Mapped 100-year Floodplains that Could be Conserved**

Ecoregion Subarea Flood Designations	Total Acres	Existing Protected	BLM Conservation
1% Annual Chance	77,655	0	0
0.2% Annual Chance	0	0	0
Panamint Death Valley	1,937,498	1,187,460	9,964
Not Assessed	604,076	203,535	5,478
Minimal	1,200,594	875,007	4,056
1% Annual Chance	132,828	108,918	430
0.2% Annual Chance	0	0	0
Pinto Lucerne Valley and Eastern Slopes	2,318,701	701,984	216,259
Not Assessed	2,178,725	692,996	216,219
Minimal	123,386	8,146	39
1% Annual Chance	15,856	836	1
0.2% Annual Chance	734	6	0
Piute Valley and Sacramento Mountains	1,092,891	401,549	354,682
Not Assessed	1,081,340	401,549	354,682
Minimal	7,162	0	0
1% Annual Chance	3,965	0	0
0.2% Annual Chance	424	0	0
Providence and Bullion Mountains	2,615,259	1,233,475	243,460
Not Assessed	2,533,295	1,200,506	242,985
Minimal	77,493	32,969	475
1% Annual Chance	4,470	0	0
0.2% Annual Chance	0	0	0

**Table R2.5-4
No Action Alternative – Plan Area – Mapped 100-year Floodplains that Could be Conserved**

Ecoregion Subarea Flood Designations	Total Acres	Existing Protected	BLM Conservation
West Mojave and Eastern Slopes	3,626,593	153,472	490,874
Not Assessed	1,369,178	40,188	295,657
Minimal	1,903,125	110,400	191,387
1% Annual Chance	241,727	2,811	3,830
0.2% Annual Chance	112,564	74	0
Grand Total	22,587,909	7,207,273	7,207,273

SUMMARY	Existing	BLM Conservation	Total
Sum of Mapped 100-year Floodplain Acreage that Could be Conserved	179,863	20,635	200,497
Total 100-year Floodplain Acreage in Plan Area	883,656	883,656	883,656
Percent of 100-year Floodplain Acreage that Could be Conserved	20.35%	2.34%	22.69%

**Table R2.5-5
No Action Alternative – Plan Area – Linear Surface Water Features that Could be Conserved**

Ecoregion Subarea Flood Designations	Total Miles	Existing Protected	BLM Conservation	Total	Percent Conserved
Cadiz Valley and Chocolate Mountains	12,101	3,100	1,614	4,715	39.0%
Imperial Borrego Valley	7,309	978	97	1,075	14.7%
Kingston and Funeral Mountains	9,728	6,276	543	6,819	70.1%
Mojave and Silurian Valley	8,534	2,413	864	3,277	38.4%
Owens River Valley	1,493	73	13	85	5.7%
Panamint Death Valley	10,089	5,454	85	5,539	54.9%
Pinto Lucerne Valley and Eastern Slopes	6,291	2,331	675	3,006	47.8%
Piute Valley and Sacramento Mountains	4,836	1,727	1,502	3,229	66.8%
Providence and Bullion Mountains	7,933	4,465	765	5,230	65.9%
West Mojave and Eastern Slopes	11,270	537	1,877	2,414	21.4%
Grand Total	79,585	27,354	8,034	35,388	44.5%

**Table R2.5-6
No Action Alternative – Plan Area – Areal Surface Water Features that Could be Conserved**

Ecoregion Subarea Flood Designations	Sum of Acres	Existing Protected	BLM Conservation	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	55,152	929	49	978	3.55%
Imperial Borrego Valley	208,076	26,028	83	26,111	25.10%
Kingston and Funeral Mountains	22,694	4,389	4,826	9,215	81.21%
Mojave and Silurian Valley	46,254	22,310	7,674	29,984	129.65%
Owens River Valley	50,264	122	8	130	0.52%
Panamint Death Valley	123,646	71,953	182	72,135	116.68%
Pinto Lucerne Valley and Eastern Slopes	15,635	324	43	368	4.70%
Piute Valley and Sacramento Mountains	7,676	288	2	290	7.56%
Providence and Bullion Mountains	54,670	1,123	24	1,146	4.19%
West Mojave and Eastern Slopes	86,308	290	3,596	3,886	9.00%
Grand Total	670,375	127,755	16,488	144,243	43.0%

**Table R2.5-7
No Action Alternative – BLM Lands – Mapped 100-year Floodplains Potentially Affected by Development**

Ecoregion Subarea Flood Designations	Total Acres	Wind	Geothermal	Transmission	Solar
Cadiz Valley and Chocolate Mountains	2,159,110	0	0	8,426	28,770
Not Assessed	1,863,871	0	0	8,426	28,770
Minimal	284,281	0	0	0	0
1% Annual Chance	10,957	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	849,955	540	423	2,687	5,468
Not Assessed	98,828	144	113	245	1,359
Minimal	716,191	368	288	2,346	3,833
1% Annual Chance	34,914	29	22	96	275
0.2% Annual Chance	21	0	0	0	1
Kingston and Funeral Mountains	1,184,862	0	0	0	13,177
Not Assessed	590,318	0	0	0	6,541
Minimal	551,793	0	0	0	5,874
1% Annual Chance	42,751	0	0	0	762
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	1,002,998	0	0	1,143	13
Not Assessed	974,231	0	0	1,111	13
Minimal	24,378	0	0	20	0
1% Annual Chance	4,378	0	0	13	0
0.2% Annual Chance	11	0	0	0	0
Owens River Valley	189,098	0	0	0	0
Not Assessed	47	0	0	0	0
Minimal	187,812	0	0	0	0

**Table R2.5-7
No Action Alternative – BLM Lands – Mapped 100-year Floodplains Potentially Affected by Development**

Ecoregion Subarea Flood Designations	Total Acres	Wind	Geothermal	Transmission	Solar
1% Annual Chance	1,238	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	457,137	0	0	0	0
Not Assessed	172,821	0	0	0	0
Minimal	269,023	0	0	0	0
1% Annual Chance	15,293	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	882,982	163	0	204	530
Not Assessed	848,228	162	0	202	462
Minimal	34,192	0	0	2	66
1% Annual Chance	561	0	0	0	1
0.2% Annual Chance	1	0	0	0	0
Piute Valley and Sacramento Mountains	896,363	0	0	0	0
Not Assessed	895,278	0	0	0	0
Minimal	741	0	0	0	0
1% Annual Chance	344	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Providence and Bullion Mountains	1,415,809	0	0	854	9,704
Not Assessed	1,351,295	0	0	854	9,704
Minimal	62,116	0	0	0	0
1% Annual Chance	2,397	0	0	0	0
0.2% Annual Chance	0	0	0	0	0

**Table R2.5-7
No Action Alternative – BLM Lands – Mapped 100-year Floodplains Potentially Affected by Development**

Ecoregion Subarea Flood Designations	Total Acres	Wind	Geothermal	Transmission	Solar
West Mojave and Eastern Slopes	878,480	2,120	0	418	4,013
Not Assessed	421,883	1,274	0	147	2,359
Minimal	435,827	801	0	258	1,565
1% Annual Chance	19,762	45	0	12	88
0.2% Annual Chance	1,009	0	0	0	0
Grand Total	9,916,792	2,823	423	13,733	61,675

Summary	Wind	Geothermal	Transmission	Solar	Total
Sum of 100-year Floodplains on BLM Lands that Could be Developed	74	22	121	1,126	1,344
Total 100-year Floodplains on BLM Lands	1,299	301	2,434	6,454	10,489
Percent of 100-year Floodplains that Could be Developed on BLM Lands	5.67%	7.42%	4.98%	17.45%	12.8%

**Table R2.5-8
No Action Alternative – BLM Lands – Linear Surface Water Features Potentially Affected by Development**

Ecoregion Subarea	Total Miles	Wind	GT	Transmission	Solar	Total	Percent
Cadiz Valley and Chocolate Mountains	8,658	0	0	32	135	168	1.9%
Imperial Borrego Valley	1,629	1	1	4	11	17	1.1%
Kingston and Funeral Mountains	4,851	0	0	0	61	61	1.3%
Mojave and Silurian Valley	3,548	0	0	4	0	4	0.1%
Owens River Valley	834	0	0	0	0	0	0.0%
Panamint Death Valley	2,930	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	2,497	0	0	0	2	3	0.1%
Piute Valley and Sacramento Mountains	3,941	0	0	0	0	0	0.0%
Providence and Bullion Mountains	4,077	0	0	2	21	22	0.6%
West Mojave and Eastern Slopes	3,333	8	0	2	15	26	0.8%
Grand Total	36,298	10	1	45	245	301	0.8%

**Table R2.5-9
No Action Alternative – BLM Lands – Areal Surface Water Features Potentially Affected by Development**

Ecoregion Subarea	Total Acres	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	36,652	0	0	173	173	0.5%
Imperial Borrego Valley	1,493	1	1	9	10	0.7%
Kingston and Funeral Mountains	21,323	0	0	0	0	0.0%
Mojave and Silurian Valley	17,589	0	0	0	0	0.0%
Owens River Valley	1,056	0	0	0	0	0.0%
Panamint Death Valley	38,808	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	5,892	1	0	8	9	0.2%
Piute Valley and Sacramento Mountains	11	0	0	0	0	0.0%
Providence and Bullion Mountains	38,894	0	0	15	15	0.0%
West Mojave and Eastern Slopes	20,199	79	0	19	98	0.5%
Grand Total	181,917	81	1	223	304	0.2%

**Table R2.5-10
No Action Alternative – BLM Lands – 100-year Floodplains that Could be Conserved**

Ecoregion Subarea Flood Designations	Total Acres	Existing ACEC
Cadiz Valley and Chocolate Mountains	2,159,110	622,064
Not Assessed	1,863,871	504,760
Minimal	284,281	110,363
1% Annual Chance	10,957	6,940
0.2% Annual Chance	0	0
Imperial Borrego Valley	849,955	170,651
Not Assessed	98,828	19,889
Minimal	716,191	145,972
1% Annual Chance	34,914	4,790
0.2% Annual Chance	21	0
Kingston and Funeral Mountains	1,184,862	185,135
Not Assessed	590,318	149,287
Minimal	551,793	29,077
1% Annual Chance	42,751	6,770
0.2% Annual Chance	0	0
Mojave and Silurian Valley	1,002,998	407,732
Not Assessed	974,231	393,239
Minimal	24,378	13,726
1% Annual Chance	4,378	768
0.2% Annual Chance	11	0

**Table R2.5-10
No Action Alternative – BLM Lands – 100-year Floodplains that Could be Conserved**

Ecoregion Subarea Flood Designations	Total Acres	Existing ACEC
Owens River Valley	189,098	859
Not Assessed	47	0
Minimal	187,812	859
1% Annual Chance	1,238	0
0.2% Annual Chance	0	0
Panamint Death Valley	457,137	11,467
Not Assessed	172,821	5,766
Minimal	269,023	5,242
1% Annual Chance	15,293	459
0.2% Annual Chance	0	0
Pinto Lucerne Valley and Eastern Slopes	882,982	320,787
Not Assessed	848,228	319,844
Minimal	34,192	931
1% Annual Chance	561	12
0.2% Annual Chance	1	0
Piute Valley and Sacramento Mountains	896,363	557,099
Not Assessed	895,278	557,099
Minimal	741	0
1% Annual Chance	344	0
0.2% Annual Chance	0	0

**Table R2.5-10
No Action Alternative – BLM Lands – 100-year Floodplains that Could be Conserved**

Ecoregion Subarea Flood Designations	Total Acres	Existing ACEC
Providence and Bullion Mountains	1,415,809	371,476
Not Assessed	1,351,295	368,426
Minimal	62,116	3,050
1% Annual Chance	2,397	0
0.2% Annual Chance	0	0
West Mojave and Eastern Slopes	878,480	561,473
Not Assessed	421,883	327,018
Minimal	435,827	230,349
1% Annual Chance	19,762	4,106
0.2% Annual Chance	1,009	0
Grand Total	9,916,792	3,208,741

SUMMARY	Existing ACEC	Total
Sum of 100-year Floodplains on BLM Lands that Could be Conserved	23,845	23,845
Total 100-year Floodplains on BLM Lands	132,595	132,595
Percent of 100-year Floodplains that Could be Conserved on BLM Lands	18.0%	18.0%

**Table R2.5-11
No Action Alternative – BLM Lands – Linear Surface Water Features Conserved**

Ecoregion Subarea	Total Miles	Existing ACEC	Total	Percent Conserved
Cadiz Valley and Chocolate Mountains	12,101	2,876	2,876	23.8%
Imperial Borrego Valley	7,309	133	133	1.8%
Kingston and Funeral Mountains	9,728	728	728	7.5%
Mojave and Silurian Valley	8,534	1,431	1,431	16.8%
Owens River Valley	1,493	13	13	8.7%
Panamint Death Valley	10,089	96	96	9.5%
Pinto Lucerne Valley and Eastern Slopes	6,291	1,116	1,116	17.7%
Piute Valley and Sacramento Mountains	4,836	2,435	2,435	50.4%
Providence and Bullion Mountains	7,933	1,388	1,388	17.5%
West Mojave and Eastern Slopes	11,270	3,250	3,250	28.8%
Grand Total	79,585	13,467	13,467	16.9%

**Table R2.5-12
No Action Alternative – BLM Lands – Areal Surface Water Features Conserved**

Ecoregion Subarea	Total Acres	Existing ACEC	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	36,652	52	52	0.1%
Imperial Borrego Valley	1,493	91	91	6.1%
Kingston and Funeral Mountains	21,323	5,136	5,136	24.1%
Mojave and Silurian Valley	17,589	9,078	9,078	51.6%
Owens River Valley	1,056	9	9	8.5%
Panamint Death Valley	38,808	192	192	4.9%
Pinto Lucerne Valley and Eastern Slopes	5,892	82	82	1.4%
Piute Valley and Sacramento Mountains	11	2	2	18.2%
Providence and Bullion Mountains	38,894	25	25	0.0%
West Mojave and Eastern Slopes	20,199	3,792	3,792	18.8%
Grand Total	181,917	18,458	18,458	10.1%

R2.5.2 Preferred Alternative

**Table R2.5-13
Preferred Alternative – Plan Area – Mapped 100-year Floodplains Potentially Affected by Development**

Ecoregion Subarea Flood Designations	Acres in Subarea	Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains	3,063,982	25,745	3,112	0	3,672
Not Assessed	2,667,974	25,741	3,112	0	3,672
Minimal	374,347	4	0	0	0
1% Annual Chance	21,661	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	2,399,945	40,225	400	16,516	5,762
Not Assessed	544,445	204	0	131	177
Minimal	1,544,422	35,929	374	14,885	4,644
1% Annual Chance	309,965	4,087	25	1,499	939
0.2% Annual Chance	1,113	4	0	2	2
Kingston and Funeral Mountains	2,470,534	3,064	0	0	0
Not Assessed	1,265,823	11	0	0	0
Minimal	1,148,556	2,621	0	0	0
1% Annual Chance	56,155	431	0	0	0
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	2,644,097	3,103	0	0	3,359
Not Assessed	2,583,278	3,041	0	0	3,340
Minimal	41,331	62	0	0	19
1% Annual Chance	19,201	0	0	0	0
0.2% Annual Chance	288	0	0	0	0

Table R2.5-13
Preferred Alternative - Plan Area - Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Acres in Subarea	Solar	Wind	GT	Transmission
Owens River Valley	417,603	526	0	952	4
Not Assessed	342	0	0	0	0
Minimal	339,607	485	0	877	4
1% Annual Chance	77,655	42	0	76	0
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	1,937,498	0	0	0	0
Not Assessed	604,076	0	0	0	0
Minimal	1,200,594	0	0	0	0
1% Annual Chance	132,828	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	2,318,719	7,525	2,132	0	3,415
Not Assessed	2,178,743	7,282	2,063	0	3,331
Minimal	123,386	177	51	0	75
1% Annual Chance	15,856	65	18	0	8
0.2% Annual Chance	734	0	0	0	0
Piute Valley and Sacramento Mountains	1,091,951	0	0	0	0
Not Assessed	1,080,489	0	0	0	0
Minimal	7,162	0	0	0	0
1% Annual Chance	3,876	0	0	0	0
0.2% Annual Chance	424	0	0	0	0

**Table R2.5-13
Preferred Alternative – Plan Area – Mapped 100-year Floodplains Potentially Affected by Development**

Ecoregion Subarea Flood Designations	Acres in Subarea	Solar	Wind	GT	Transmission
Providence and Bullion Mountains	2,615,216	1,052	0	0	226
Not Assessed	2,533,237	1,052	0	0	226
Minimal	77,509	0	0	0	0
1% Annual Chance	4,470	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
West Mojave and Eastern Slopes	3,626,946	36,903	3,325	0	8,489
Not Assessed	1,369,232	7,650	764	0	2,358
Minimal	1,903,389	20,184	1,853	0	4,492
1% Annual Chance	241,730	6,319	528	0	848
0.2% Annual Chance	112,595	2,751	180	0	791
Grand Total	22,586,490	118,144	8,968	17,468	24,927

SUMMARY: Preferred Alternative 100 Year Floodplains in DFAs	Solar	Wind	Geothermal	Transmission	Total
Sum of 100-year Floodplain Acreage that Could be Developed in Plan Area	10,944	572	1,574	1,795	14,885
Total 100-year Floodplain Acreage in Plan Area	883,396	883,396	883,396	883,396	883,396
Percent of 100-year Floodplains that Could be Developed in Plan Area	1.2%	0.1%	0.2%	0.2%	1.7%

Table R2.5-14
Preferred Alternative – Plan Area – Linear Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	12,081	67	7	0	10	84	0.7%
Imperial Borrego Valley	7,308	180	2	59	20	261	3.6%
Kingston and Funeral Mountains	9,727	8	0	0	0	8	0.1%
Mojave and Silurian Valley	8,534	1	0	0	7	8	0.1%
Owens River Valley	1,493	5	0	9	0	14	0.9%
Panamint Death Valley	10,089	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	6,297	17	5	0	7	29	0.5%
Piute Valley and Sacramento Mountains	4,818	0	0	0	0	0	0.0%
Providence and Bullion Mountains	7,933	2	0	0	0	2	0.0%
West Mojave and Eastern Slopes	11,276	83	8	0	17	108	1.0%
Grand Total	79,557	361	22	68	63	514	0.7%

Table R2.5-15
Preferred Alternative – Plan Area – Areal Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Acres	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	55,078	616	89	0	47	752	1.4%
Imperial Borrego Valley	208,021	2,993	19	1,069	548	4,628	2.2%
Kingston and Funeral Mountains	22,685	282	0	0	0	282	1.2%
Mojave and Silurian Valley	46,254	8	0	0	12	20	0.0%
Owens River Valley	50,264	3	0	6	0	9	0.0%
Panamint Death Valley	123,646	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	15,638	152	44	0	21	217	1.4%
Piute Valley and Sacramento Mountains	7,045	0	0	0	0	0	0.0%
Providence and Bullion Mountains	54,670	209	0	0	14	223	0.4%
West Mojave and Eastern Slopes	86,308	1,732	104	0	32	1,869	2.2%
Grand Total	669,610	5,995	257	1,075	674	8,000	1.2%

**Table R2.5-16
Preferred Alternative – Plan Area – Mapped 100-year Floodplains that Could be Conserved**

Ecoregion Subarea Flood Designations	Total Acres	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Percent Conserved
Cadiz Valley and Chocolate Mountains	3,063,982	799,988	1,286,966	35,678	69.3%
Not Assessed	2,667,974	700,021	1,047,386	33,087	66.7%
Minimal	374,347	98,008	226,976	1,945	87.3%
1% Annual Chance	21,661	1,960	12,604	646	70.2%
0.2% Annual Chance	0	0	0	0	
Imperial Borrego Valley	2,399,945	336,836	452,787	31,112	34.2%
Not Assessed	544,445	197,762	65,215	2,993	48.9%
Minimal	1,544,422	109,957	368,236	5,948	31.4%
1% Annual Chance	309,965	29,092	19,336	22,171	22.8%
0.2% Annual Chance	1,113	25	0	0	2.2%
Kingston and Funeral Mountains	2,470,534	1,678,614	505,234	36,077	89.9%
Not Assessed	1,265,823	848,110	262,076	22,600	89.5%
Minimal	1,148,556	808,203	223,601	13,137	91.0%
1% Annual Chance	56,155	22,301	19,557	340	75.1%
0.2% Annual Chance	0	0	0	0	
Mojave and Silurian Valley	2,644,097	747,003	524,986	23,782	49.0%
Not Assessed	2,583,278	726,529	504,940	20,790	48.5%
Minimal	41,331	6,526	18,577	2,109	65.8%
1% Annual Chance	19,201	13,948	1,469	883	84.9%
0.2% Annual Chance	288	0	0	1	0.3%

Table R2.5-16
Preferred Alternative – Plan Area – Mapped 100-year Floodplains that Could be Conserved

Ecoregion Subarea Flood Designations	Total Acres	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Percent Conserved
Owens River Valley	417,603	30,131	111,532	62,455	48.9%
Not Assessed	342	0	0	15	4.5%
Minimal	339,607	30,131	97,551	54,363	53.6%
1% Annual Chance	77,655	0	13,981	8,077	28.4%
0.2% Annual Chance	0	0	0	0	
Panamint Death Valley	1,937,498	1,189,923	292,989	7,891	76.9%
Not Assessed	604,076	204,846	59,530	4,201	44.5%
Minimal	1,200,594	876,158	219,476	3,393	91.5%
1% Annual Chance	132,828	108,918	13,983	297	92.8%
0.2% Annual Chance	0	0	0	0	
Pinto Lucerne Valley and Eastern Slopes	2,318,719	701,984	479,700	37,971	52.6%
Not Assessed	2,178,743	692,996	466,426	29,613	54.6%
Minimal	123,386	8,146	12,913	7,633	23.3%
1% Annual Chance	15,856	836	222	700	11.1%
0.2% Annual Chance	734	6	139	25	23.2%
Piute Valley and Sacramento Mountains	1,091,951	401,549	447,114	14,337	79.0%
Not Assessed	1,080,489	401,549	447,114	13,258	79.8%
Minimal	7,162	0	0	501	7.0%
1% Annual Chance	3,876	0	0	533	13.8%
0.2% Annual Chance	424	0	0	45	10.5%

Table R2.5-16
Preferred Alternative – Plan Area – Mapped 100-year Floodplains that Could be Conserved

Ecoregion Subarea Flood Designations	Total Acres	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Percent Conserved
Providence and Bullion Mountains	2,615,216	1,239,329	738,520	55,541	77.8%
Not Assessed	2,533,237	1,206,352	703,231	54,213	77.5%
Minimal	77,509	32,976	32,774	1,321	86.5%
1% Annual Chance	4,470	0	2,515	7	56.4%
0.2% Annual Chance	0	0	0	0	
West Mojave and Eastern Slopes	3,626,946	154,085	978,274	274,099	38.8%
Not Assessed	1,369,232	40,801	486,655	36,182	41.2%
Minimal	1,903,389	110,400	482,819	209,273	42.2%
1% Annual Chance	241,730	2,811	8,260	23,493	14.3%
0.2% Annual Chance	112,595	74	540	5,151	5.1%
Grand Total	22,586,490	7,279,441	5,818,102	578,943	60.6%

DRECP Reserve	Existing Conservation	BLM LUPA	Conservation Planning	Total
Sum of 100-year Floodplain Acreage that Could be Conserved	179,865	91,927	57,145	328,937
Total 100-year Floodplain Acreage in Plan Area	883,396	883,396	883,396	883,396
Percent of 100-year Floodplains that Could be Conserved in Plan Area	20.4%	10.4%	6.5%	37.2%

Table R2.5-17
Preferred Alternative – Plan Area – Linear Surface Water Features Conserved

Ecoregion Subareas	Total Miles	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	12,081	3,100	4,863	91	8,054	66.7%
Imperial Borrego Valley	7,308	978	976	63	2,017	27.6%
Kingston and Funeral Mountains	9,727	6,276	2,107	60	8,443	86.8%
Mojave and Silurian Valley	8,534	2,593	1,334	40	3,967	46.5%
Owens River Valley	1,493	136	396	107	639	42.8%
Panamint Death Valley	10,089	5,471	2,066	17	7,554	74.9%
Pinto Lucerne Valley and Eastern Slopes	6,297	2,331	1,271	70	3,672	58.3%
Piute Valley and Sacramento Mountains	4,818	1,727	1,784	30	3,541	73.5%
Providence and Bullion Mountains	7,933	4,480	1,775	80	6,335	79.9%
West Mojave and Eastern Slopes	11,276	537	2,940	625	4,102	36.4%
Grand Total	79,557	27,630	19,512	1,185	48,327	60.7%

Table R2.5-18
Preferred Alternative – Plan Area – Areal Surface Water Features Conserved

Ecoregion Subareas	Total Acres	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	55,078	929	31,227	400	32,556	59.1%
Imperial Borrego Valley	208,021	26,028	176	22,616	48,820	23.5%
Kingston and Funeral Mountains	22,685	4,389	12,314	27	16,730	73.7%
Mojave and Silurian Valley	46,254	23,408	8,561	287	32,256	69.7%
Owens River Valley	50,264	127	9,496	3,654	13,277	26.4%
Panamint Death Valley	123,646	71,953	11,550	457	83,960	67.9%
Pinto Lucerne Valley and Eastern Slopes	15,638	324	657	185	1,166	7.5%
Piute Valley and Sacramento Mountains	7,045	288	7	570	865	12.2%
Providence and Bullion Mountains	54,670	1,124	2,890	799	4,813	8.8%
West Mojave and Eastern Slopes	86,308	812	4,085	514	5,411	6.3%
Grand Total	669,610	129,383	80,963	29,508	239,854	35.8%

Table R2.5-19
Preferred Alternative – BLM Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subareas and Floodplains Acres	Total Acres	Solar	Wind	Geothermal	Transmission
Cadiz Valley and Chocolate Mountains	2,159,406	18,328	2,709	0	2,187
Not Assessed	1,864,167	18,328	2,709	0	2,187
Minimal	284,281	0	0	0	0
1% Annual Chance	10,957	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	849,955	6,854	0	5,771	1,245
Not Assessed	98,828	142	0	109	135
Minimal	716,191	6,647	0	5,611	1,063
1% Annual Chance	34,914	64	0	51	46
0.2% Annual Chance	21	0	0	0	0
Kingston and Funeral Mountains	1,184,862	2,350	0	0	0
Not Assessed	590,319	11	0	0	0
Minimal	551,793	1,958	0	0	0
1% Annual Chance	42,751	381	0	0	0
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	1,002,999	1,136	0	0	1,442
Not Assessed	974,232	1,101	0	0	1,441
Minimal	24,378	35	0	0	1
1% Annual Chance	4,378	0	0	0	0
0.2% Annual Chance	11	0	0	0	0
Owens River Valley	189,098	526	0	952	3
Not Assessed	47	0	0	0	0
Minimal	187,812	485	0	877	3

**Table R2.5-19
Preferred Alternative – BLM Lands – Mapped 100-year Floodplains Potentially Affected by Development**

Ecoregion Subareas and Floodplains Acres	Total Acres	Solar	Wind	Geothermal	Transmission
1% Annual Chance	1,238	42	0	76	0
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	457,137	0	0	0	0
Not Assessed	172,821	0	0	0	0
Minimal	269,024	0	0	0	0
1% Annual Chance	15,293	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	882,997	1,781	546	0	1,378
Not Assessed	848,242	1,753	538	0	1,376
Minimal	34,192	28	8	0	3
1% Annual Chance	561	0	0	0	0
0.2% Annual Chance	1	0	0	0	0
Piute Valley and Sacramento Mountains	896,363	0	0	0	0
Not Assessed	895,278	0	0	0	0
Minimal	741	0	0	0	0
1% Annual Chance	344	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Providence and Bullion Mountains	1,415,824	519	0	0	120
Not Assessed	1,351,295	519	0	0	120
Minimal	62,131	0	0	0	0
1% Annual Chance	2,397	0	0	0	0
0.2% Annual Chance	0	0	0	0	0

**Table R2.5-19
Preferred Alternative – BLM Lands – Mapped 100-year Floodplains Potentially Affected by Development**

Ecoregion Subareas and Floodplains Acres	Total Acres	Solar	Wind	Geothermal	Transmission
West Mojave and Eastern Slopes	878,482	5,244	245	0	846
Not Assessed	421,884	669	0	0	198
Minimal	435,827	2,876	161	0	594
1% Annual Chance	19,762	1,527	84	0	47
0.2% Annual Chance	1,009	172	0	0	6
Grand Total	9,917,121	36,738	3,500	6,723	7,220

DRECP DFA	Solar	Wind	Geothermal	Transmission	Total
Sum of 100-year Floodplain Acreage that Could be Developed on BLM Lands	2,014	84	127	93	2,317
Total 100-year Floodplain Acreage on BLM Lands	10,944	572	1,574	1,795	14,885
Percent of 100-year Floodplains that Could be Developed	18.4%	14.7%	8.0%	5.2%	15.6%

Table R2.5-20
Preferred Alternative – BLM Lands – Linear Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	8,660	37	5	0	6	48	0.6%
Imperial Borrego Valley	1,629	6	0	5	2	13	0.8%
Kingston and Funeral Mountains	4,851	7	0	0	0	7	0.1%
Mojave and Silurian Valley	3,548	1	0	0	4	5	0.1%
Owens River Valley	834	5	0	9	0	14	1.7%
Panamint Death Valley	2,930	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	2,500	3	1	0	3	8	0.3%
Piute Valley and Sacramento Mountains	3,941	0	0	0	0	0	0.0%
Providence and Bullion Mountains	4,077	1	0	0	0	1	0.0%
West Mojave and Eastern Slopes	3,338	21	1	0	3	25	0.7%
Grand Total	36,310	80	8	14	18	120	0.3%

Table R2.5-21
Preferred Alternative – BLM Lands – Areal Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	36,652	599	89	0	15	702	1.9%
Imperial Borrego Valley	1,493	5	0	4	0	9	0.6%
Kingston and Funeral Mountains	21,323	282	0	0	0	282	1.3%
Mojave and Silurian Valley	17,589	0	0	0	2	2	0.0%
Owens River Valley	1,056	3	0	6	0	9	0.9%
Panamint Death Valley	38,808	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	5,893	73	22	0	7	102	1.7%
Piute Valley and Sacramento Mountains	11	0	0	0	0	0	0.0%
Providence and Bullion Mountains	38,894	145	0	0	8	153	0.4%
West Mojave and Eastern Slopes	20,199	1,717	103	0	23	1,843	9.1%
Grand Total	181,917	2,824	214	10	55	3,104	1.7%

Table R2.5-22
Preferred Alternative – BLM Lands – Existing and Proposed Mapped 100-year Floodplains that Could be Conserved on BLM LUPA Lands

Ecoregion Subarea Flood Designations	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trails
Cadiz Valley and Chocolate Mountains	2,159,406	762,216	600,612	0	106,775	0
Not Assessed	1,864,167	573,790	589,741	0	62,549	0
Minimal	284,281	178,511	10,862	0	41,598	0
1% Annual Chance	10,957	9,915	10	0	2,628	0
0.2% Annual Chance	0	0	0	0	0	0
Imperial Borrego Valley	849,955	419,745	56,199	0	42,083	216,041
Not Assessed	98,828	52,284	5,334	0	0	56,116
Minimal	716,191	348,254	50,389	0	40,856	148,429
1% Annual Chance	34,914	19,206	476	0	1,228	11,497
0.2% Annual Chance	21	0	0	0	0	0
Kingston and Funeral Mountains	1,184,862	435,305	103,881	0	42,581	217,186
Not Assessed	590,319	190,878	96,936	0	26,050	30,640
Minimal	551,793	222,207	6,871	0	16,531	183,615
1% Annual Chance	42,751	22,220	74	0	0	2,931
0.2% Annual Chance	0	0	0	0	0	0
Mojave and Silurian Valley	1,002,999	210,753	331,969	0	62,644	453,587
Not Assessed	974,232	207,945	315,460	0	60,874	444,139
Minimal	24,378	2,146	15,741	0	1,109	5,059
1% Annual Chance	4,378	662	768	0	662	4,378
0.2% Annual Chance	11	0	0	0	0	11

Table R2.5-22
Preferred Alternative – BLM Lands – Existing and Proposed Mapped 100-year Floodplains that Could be Conserved on BLM LUPA Lands

Ecoregion Subarea Flood Designations	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trails
Owens River Valley	189,098	48,245	12,172	0	7,462	960
Not Assessed	47	0	0	0	0	0
Minimal	187,812	47,981	12,155	0	7,462	960
1% Annual Chance	1,238	264	16	0	0	0
0.2% Annual Chance	0	0	0	0	0	0
Panamint Death Valley	457,137	189,075	109,734	0	79,511	0
Not Assessed	172,821	5,866	58,698	0	5,449	0
Minimal	269,024	169,024	50,700	0	65,422	0
1% Annual Chance	15,293	14,185	335	0	8,640	0
0.2% Annual Chance	0	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	882,997	297,307	174,203	0	1,920	66,376
Not Assessed	848,242	296,257	173,403	0	1,920	65,416
Minimal	34,192	917	800	0	0	952
1% Annual Chance	561	133	0	0	0	8
0.2% Annual Chance	1	0	0	0	0	0
Piute Valley and Sacramento Mountains	896,363	417,856	190,011	0	0	54,980
Not Assessed	895,278	417,856	190,011	0	0	54,980
Minimal	741	0	0	0	0	0
1% Annual Chance	344	0	0	0	0	0
0.2% Annual Chance	0	0	0	0	0	0

Table R2.5-22
Preferred Alternative – BLM Lands – Existing and Proposed Mapped 100-year Floodplains that Could be Conserved on BLM LUPA Lands

Ecoregion Subarea Flood Designations	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trails
Providence and Bullion Mountains	1,415,824	641,302	169,961	0	127,407	28,330
Not Assessed	1,351,295	641,302	140,660	0	127,407	28,330
Minimal	62,131	0	27,013	0	0	0
1% Annual Chance	2,397	0	2,288	0	0	0
0.2% Annual Chance	0	0	0	0	0	0
West Mojave and Eastern Slopes	878,482	201,245	449,141	18,547	18,807	222,853
Not Assessed	421,884	17,092	334,499	0	2,718	52,252
Minimal	435,827	180,134	111,597	18,499	16,071	169,428
1% Annual Chance	19,762	4,019	3,027	43	18	1,171
0.2% Annual Chance	1,009	0	18	6	0	2
Grand Total	9,917,121	3,623,049	2,197,882	18,547	489,192	1,260,313

Summary: 100-year Floodplains in BLM Reserve	NLCS	ACEC	Wildlife	Wilderness Characteristics	Trail	Total
Subtotal in 100-year Floodplain	70,604	6,993	43	13,174	19,984	110,755
Total 100-year Floodplains in BLM Reserve	132,595	132,595	132,595	132,595	132,595	132,595
Percent of 100-year Floodplains in BLM Ownership Floodplain	53.2%	5.3%	0.0%	9.9%	15.1%	83.5%

**Table R2.5-23
Preferred Alternative – BLM Lands – Linear Surface Water Features Conserved**

Ecoregion Subarea	Total Miles	NLCS Miles	ACEC	Wildlife Allocation	Wilderness Characteristics	Trail Mgmt	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	8,660	3,223	2,324	0	416	0	5,963	68.8%
Imperial Borrego Valley	1,629	979	32	0	27	352	1390	85.3%
Kingston and Funeral Mountains	4,851	1,749	603	0	269	800	3421	70.5%
Mojave and Silurian Valley	3,548	744	864	0	280	1,882	3770	106.3%
Owens River Valley	834	300	20	0	42	4	366	43.9%
Panamint Death Valley	2,930	1,493	679	0	493	0	2665	91.0%
Pinto Lucerne Valley and Eastern Slopes	2,500	986	502	0	6	225	1719	68.8%
Piute Valley and Sacramento Mountains	3,941	1,827	704	0	0	297	2828	71.8%
Providence and Bullion Mountains	4,077	1,841	525	0	351	87	2804	68.8%
West Mojave and Eastern Slopes	3,338	881	1,640	67	71	802	3461	103.7%
Grand Total	36,310	14,022	7,895	67	1,956	4,450	28,390	78.2%

**Table R2.5-24
Preferred Alternative – BLM Lands – Areal Surface Water Features Conserved**

Ecoregion Subarea	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trail Mgmt	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	36,652	7,920	22,400	0	1,710	0	32,030	87.4%
Imperial Borrego Valley	1,493	123	13	0	0	565	701	46.9%
Kingston and Funeral Mountains	21,323	6,762	6,241	0	0	463	13,466	63.2%
Mojave and Silurian Valley	17,589	2,480	8,722	0	1,406	10,214	22,822	129.8%
Owens River Valley	1,056	216	672	0	0	0	888	84.1%
Panamint Death Valley	38,808	11,889	29	0	8,944	0	20,862	53.8%
Pinto Lucerne Valley and Eastern Slopes	5,893	87	351	0	0	93	531	9.0%
Piute Valley and Sacramento Mountains	11	7	0	0	0	0	7	63.6%
Providence and Bullion Mountains	38,894	1,888	864	0	1,131	0	3,883	10.0%
West Mojave and Eastern Slopes	20,199	10	3,779	3	1	22	3,815	18.9%
Grand Total	181,917	31,382	43,070	3	13,192	11,357	99,004	54.4%

Table R2.5-25
Preferred Alternative – GCP Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	Geothermal	Transmission
Cadiz Valley and Chocolate Mountains	462,515	7,417	403	0	1,485
Not Assessed	388,549	7,412	402	0	1,485
Minimal	66,605	4	0	0	0
1% Annual Chance	7,360	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	1,260,374	31,964	390	10,253	4,223
Not Assessed	298,701	62	0	22	41
Minimal	774,772	29,154	372	9,238	3,541
1% Annual Chance	185,811	2,745	17	992	638
0.2% Annual Chance	1,090	4	0	2	2
Kingston and Funeral Mountains	149,125	714	0	0	0
Not Assessed	79,758	0	0	0	0
Minimal	61,239	664	0	0	0
1% Annual Chance	8,128	50	0	0	0
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	244,079	1,968	0	0	1,458
Not Assessed	227,769	1,940	0	0	1,441
Minimal	12,120	27	0	0	17
1% Annual Chance	3,913	0	0	0	0
0.2% Annual Chance	277	0	0	0	0
Owens River Valley	224,169	0	0	0	1
Not Assessed	294	0	0	0	0
Minimal	147,458	0	0	0	1

**Table R2.5-25
Preferred Alternative – GCP Lands – Mapped 100-year Floodplains Potentially Affected by Development**

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	Geothermal	Transmission
1% Annual Chance	76,416	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	59,027	0	0	0	0
Not Assessed	24,841	0	0	0	0
Minimal	29,967	0	0	0	0
1% Annual Chance	4,219	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	568,476	5,744	1,585	0	2,010
Not Assessed	464,143	5,529	1,525	0	1,930
Minimal	89,195	150	42	0	73
1% Annual Chance	14,412	65	18	0	8
0.2% Annual Chance	726	0	0	0	0
Piute Valley and Sacramento Mountains	137,216	0	0	0	0
Not Assessed	129,859	0	0	0	0
Minimal	4,186	0	0	0	0
1% Annual Chance	2,747	0	0	0	0
0.2% Annual Chance	424	0	0	0	0
Providence and Bullion Mountains	273,937	533	0	0	100
Not Assessed	256,487	533	0	0	100
Minimal	15,377	0	0	0	0
1% Annual Chance	2,073	0	0	0	0
0.2% Annual Chance	0	0	0	0	0

**Table R2.5-25
Preferred Alternative – GCP Lands – Mapped 100-year Floodplains Potentially Affected by Development**

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	Geothermal	Transmission
West Mojave and Eastern Slopes	2,206,560	31,659	3,080	0	7,507
Not Assessed	516,326	6,981	764	0	2,095
Minimal	1,359,910	17,308	1,692	0	3,829
1% Annual Chance	219,048	4,792	444	0	799
0.2% Annual Chance	111,276	2,578	180	0	784
Grand Total	5,585,477	79,999	5,458	10,253	16,784

SUMMARY: GCP Floodplains Effects	Solar	Wind	Geothermal	Transmission	Total
Area of 100-year Floodplains in GCP DFA	2,583	180	2	786	3,550
Total GCP Floodplains Acreage	113,793	113,793	113,793	113,793	113,793
Percent of Development Floodplains in Total GCP Floodplain	2.3%	0.2%	0.0%	0.7%	3.1%
Percent of GCP Development in Total DFA Floodplain	0.1%	0.0%	0.0%	0.0%	0.2%

Table R2.5-26
Preferred Alternative – GCP Lands – Linear Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	2,020	30	2	0	5	36	1.8%
Imperial Borrego Valley	5,073	171	2	53	18	245	4.8%
Kingston and Funeral Mountains	534	1	0	0	0	1	0.1%
Mojave and Silurian Valley	502	1	0	0	1	2	0.4%
Owens River Valley	612	0	0	0	0	0	0.0%
Panamint Death Valley	320	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	1,463	13	4	0	4	21	1.4%
Piute Valley and Sacramento Mountains	609	0	0	0	0	0	0.0%
Providence and Bullion Mountains	807	1	0	0	0	1	0.1%
West Mojave and Eastern Slopes	6,134	62	7	0	14	83	1.4%
Grand Total	18,074	278	15	53	43	389	2.2%

Table R2.5-27
Preferred Alternative – GCP Lands – Areal Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Acres	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	15,194	17	1	0	33	50	0.3%
Imperial Borrego Valley	118,026	1,709	11	609	293	2,622	2.2%
Kingston and Funeral Mountains	1,273	0	0	0	0	0	0.0%
Mojave and Silurian Valley	3,459	8	0	0	8	16	0.5%
Owens River Valley	49,207	0	0	0	0	0	0.0%
Panamint Death Valley	9,572	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	5,537	80	22	0	13	115	2.1%
Piute Valley and Sacramento Mountains	5,259	0	0	0	0	0	0.0%
Providence and Bullion Mountains	9,408	64	0	0	5	69	0.7%
West Mojave and Eastern Slopes	9,989	15	1	0	5	21	0.2%
Grand Total	226,923	1,892	35	609	357	2,893	1.3%

**Table R2.5-28
Preferred Alternative – GCP Lands – 100-year Floodplains Conserved**

Ecoregion Subarea Flood Designations	Total Acres	Existing Conservation	Conservation Planning Areas	Percent Conserved
Cadiz Valley and Chocolate Mountains	462,515	4,084	31,936	7.8%
Not Assessed	388,549	3,763	29,354	8.5%
Minimal	66,605	163	1,935	3.2%
1% Annual Chance	7,360	159	646	10.9%
0.2% Annual Chance	0	0	0	
Imperial Borrego Valley	1,260,374	261,467	20,973	22.4%
Not Assessed	298,701	184,766	2,607	62.7%
Minimal	774,772	67,728	5,892	9.5%
1% Annual Chance	185,811	8,949	12,475	11.5%
0.2% Annual Chance	1,090	25	0	2.3%
Kingston and Funeral Mountains	149,125	11,788	33,416	30.3%
Not Assessed	79,758	8,023	20,104	35.3%
Minimal	61,239	3,734	12,972	27.3%
1% Annual Chance	8,128	31	340	13.7%
0.2% Annual Chance	0	0	0	
Mojave and Silurian Valley	244,079	11,469	23,343	14.3%
Not Assessed	227,769	9,642	20,350	13.2%
Minimal	12,120	952	2,109	25.3%
1% Annual Chance	3,913	875	883	57.9%
0.2% Annual Chance	277	0	1	0.3%

**Table R2.5-28
Preferred Alternative – GCP Lands – 100-year Floodplains Conserved**

Ecoregion Subarea Flood Designations	Total Acres	Existing Conservation	Conservation Planning Areas	Percent Conserved
Owens River Valley	224,169	227	62,456	28.0%
Not Assessed	294	0	15	5.2%
Minimal	147,458	227	54,363	37.0%
1% Annual Chance	76,416	0	8,077	10.6%
0.2% Annual Chance	0	0	0	
Panamint Death Valley	59,027	12,396	7,640	33.9%
Not Assessed	24,841	5,027	4,139	36.9%
Minimal	29,967	6,000	3,230	30.8%
1% Annual Chance	4,219	1,369	271	48.5%
0.2% Annual Chance	0	0	0	
Pinto Lucerne Valley and Eastern Slopes	568,476	25,144	37,877	11.1%
Not Assessed	464,143	25,143	29,519	11.8%
Minimal	89,195	2	7,633	8.6%
1% Annual Chance	14,412	0	700	4.9%
0.2% Annual Chance	726	0	25	3.4%
Piute Valley and Sacramento Mountains	137,216	3,043	14,337	12.7%
Not Assessed	129,859	3,043	13,258	12.6%
Minimal	4,186	0	501	12.0%
1% Annual Chance	2,747	0	533	24.9%
0.2% Annual Chance	424	0	45	10.5%

**Table R2.5-28
Preferred Alternative – GCP Lands – 100-year Floodplains Conserved**

Ecoregion Subarea Flood Designations	Total Acres	Existing Conservation	Conservation Planning Areas	Percent Conserved
Providence and Bullion Mountains	273,937	21,355	55,121	27.9%
Not Assessed	256,487	21,130	53,793	29.2%
Minimal	15,377	226	1,321	10.1%
1% Annual Chance	2,073	0	7	0.3%
0.2% Annual Chance	0	0	0	
West Mojave and Eastern Slopes	2,206,560	61,181	273,943	15.2%
Not Assessed	516,326	9,231	36,181	8.8%
Minimal	1,359,910	49,792	209,122	19.0%
1% Annual Chance	219,048	2,084	23,489	11.7%
0.2% Annual Chance	111,276	74	5,151	4.70%
Grand Total	5,585,477	412,156	561,042	17.4%

SUMMARY: 100-year Floodplains Conserved in GCP	Existing Conservation	Conservation Planning	Total
Sum of 100-year Floodplain Acreage that Could be Conserved in GCP	13,467	47,420	60,887
Total Area of 100-year Floodplains in GCP Reserve	524,128	524,128	524,128
Percent of 100-year Floodplains that Could be Conserved in GCP	2.57%	9.0%	11.6%

Table R2.5-29
Preferred Alternative – GCP Lands – Linear Surface Water Features Conserved

Ecoregion Subarea	Total Miles	Existing Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	2,020	16	89	105	5.2%
Imperial Borrego Valley	5,073	833	45	878	17.3%
Kingston and Funeral Mountains	534	39	55	94	17.6%
Mojave and Silurian Valley	502	37	39	76	15.1%
Owens River Valley	612	0	107	107	17.5%
Panamint Death Valley	320	62	16	78	24.4%
Pinto Lucerne Valley and Eastern Slopes	1,463	99	70	169	11.6%
Piute Valley and Sacramento Mountains	609	13	30	43	7.1%
Providence and Bullion Mountains	807	88	80	168	20.8%
West Mojave and Eastern Slopes	6,134	265	625	890	14.5%
Grand Total	18,074	1,451	1,155	2,606	14.4%

**Table R2.5-30
Preferred Alternative – GCP Lands – Areal Surface Water Features Conserved**

Ecoregion Subarea	Total Acres	Existing Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	15,194	52	400	452	3.0%
Imperial Borrego Valley	118,026	6,482	12,803	19,285	16.3%
Kingston and Funeral Mountains	1,273	16	27	43	3.3%
Mojave and Silurian Valley	3,459	112	287	399	11.5%
Owens River Valley	49,207	119	3,654	3,773	7.6%
Panamint Death Valley	9,572	677	438	1,115	11.6%
Pinto Lucerne Valley and Eastern Slopes	5,537	11	185	196	3.5%
Piute Valley and Sacramento Mountains	5,259	0	570	570	10.8%
Providence and Bullion Mountains	9,408	1	799	800	8.5%
West Mojave and Eastern Slopes	9,989	276	514	790	7.9%
Grand Total	226,923	7,746	19,675	27,421	12.1%

R2.5.3 Alternative 1

**Table R2.5-31
Alternative 1 – Plan Area – Mapped 100-year Floodplains Potentially Affected by Development**

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission	Total	Percent Affected
Cadiz Valley and Chocolate Mountains	3,063,647	21,094	325	0	3,672	25,091	0.8%
Not Assessed	2,667,638	21,083	324	0	3,672	25,080	0.9%
Minimal	374,347	11	0	0	0	11	0.0%
1% Annual Chance	21,661	0	0	0	0	0	0.0%
0.2% Annual Chance	0	0	0	0	0	0	0.0%
Imperial Borrego Valley	2,399,945	47,192	0	16,896	6,663	70,751	2.9%
Not Assessed	544,445	138	0	122	207	466	0.1%
Minimal	1,544,422	39,032	0	14,042	5,396	58,470	3.8%
1% Annual Chance	309,965	8,013	0	2,729	1,057	11,799	3.8%
0.2% Annual Chance	1,113	9	0	3	3	15	1.4%
Kingston and Funeral Mountains	2,470,534	0	0	0	0	0	0.0%
Not Assessed	1,265,823	0	0	0	0	0	0.0%
Minimal	1,148,556	0	0	0	0	0	0.0%
1% Annual Chance	56,155	0	0	0	0	0	0.0%
0.2% Annual Chance	0	0	0	0	0	0	0.0%
Mojave and Silurian Valley	2,644,097	4,787	0	0	3,355	8,142	0.3%
Not Assessed	2,583,278	4,686	0	0	3,334	8,020	0.3%
Minimal	41,331	91	0	0	21	113	0.3%
1% Annual Chance	19,201	6	0	0	0	6	0.0%
0.2% Annual Chance	288	4	0	0	0	4	1.3%

Table R2.5-31
Alternative 1 – Plan Area – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission	Total	Percent Affected
Owens River Valley	417,603	5,823	0	0	231	6,054	1.4%
Not Assessed	342	0	0	0	0	0	0.0%
Minimal	339,607	5,398	0	0	216	5,614	1.7%
1% Annual Chance	77,655	425	0	0	15	440	0.6%
0.2% Annual Chance	0	0	0	0	0	0	0.0%
Panamint Death Valley	1,937,498	0	0	0	0	0	0.0%
Not Assessed	604,076	0	0	0	0	0	0.0%
Minimal	1,200,594	0	0	0	0	0	0.0%
1% Annual Chance	132,828	0	0	0	0	0	0.0%
0.2% Annual Chance	0	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	2,318,717	11,854	745	0	4,054	16,653	0.7%
Not Assessed	2,178,741	11,108	696	0	3,936	15,740	0.7%
Minimal	123,386	554	36	0	109	699	0.6%
1% Annual Chance	15,856	192	13	0	9	214	1.3%
0.2% Annual Chance	734	0	0	0	0	0	0.0%
Piute Valley and Sacramento Mountains	1,091,951	0	0	0	0	0	0.0%
Not Assessed	1,080,489	0	0	0	0	0	0.0%
Minimal	7,162	0	0	0	0	0	0.0%
1% Annual Chance	3,876	0	0	0	0	0	0.0%
0.2% Annual Chance	424	0	0	0	0	0	0.0%

Table R2.5-31
Alternative 1 – Plan Area – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission	Total	Percent Affected
Providence and Bullion Mountains	2,615,216	1,907	0	0	275	2,182	0.1%
Not Assessed	2,533,237	1,907	0	0	275	2,182	0.1%
Minimal	77,509	0	0	0	0	0	0.0%
1% Annual Chance	4,470	0	0	0	0	0	0.0%
0.2% Annual Chance	0	0	0	0	0	0	0.0%
West Mojave and Eastern Slopes	3,626,946	36,209	1,178	0	7,884	45,272	1.2%
Not Assessed	1,369,232	8,714	533	0	2,055	11,302	0.8%
Minimal	1,903,389	19,547	453	0	4,494	24,495	1.3%
1% Annual Chance	241,730	4,311	72	0	556	4,939	2.0%
0.2% Annual Chance	112,595	3,637	120	0	779	4,536	4.0%
Grand Total	22,586,153	128,868	2,247	16,896	26,135	174,145	0.8%

SUMMARY: 100-year Floodplains Affected by DFAs in Alternative 1	Solar	Wind	GT	Transmission	Total
Sum of 100-year Floodplain Acreage that Could be Developed in Plan Area	12,947	85	2,729	1,638	17,398
Total 100-year Floodplain Acreage in Plan Area	883,396	883,396	883,396	883,396	883,396
Percent of 100-year Floodplain Acreage that Could be Developed in Plan Area	1.5%	0.01%	0.3%	0.2%	2.0%

Table R2.5-32
Alternative 1 – Plan Area – Linear Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Potentially Affected
Cadiz Valley and Chocolate Mountains	12,081	89	1	0	10	101	0.8%
Imperial Borrego Valley	7,308	220	0	62	24	306	4.2%
Kingston and Funeral Mountains	9,727	0	0	0	0	0	0.0%
Mojave and Silurian Valley	8,534	1	0	0	7	8	0.1%
Owens River Valley	1,493	42	0	0	1	44	2.9%
Panamint Death Valley	10,089	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	6,297	27	2	0	8	37	0.6%
Piute Valley and Sacramento Mountains	4,818	0	0	0	0	0	0.0%
Providence and Bullion Mountains	7,933	2	0	0	0	3	0.0%
West Mojave and Eastern Slopes	11,275	66	2	0	18	86	0.8%
Grand Total	79,556	448	5	62	69	585	0.7%

Table R2.5-33
Alternative 1 – Plan Area – Areal Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Acres	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	55,078	42	1	0	46	88	0.2%
Imperial Borrego Valley	208,021	6,245	0	2,090	601	8,936	4.3%
Kingston and Funeral Mountains	22,685	0	0	0	0	0	0.0%
Mojave and Silurian Valley	46,254	19	0	0	14	33	0.1%
Owens River Valley	50,264	48	0	0	4	52	0.1%
Panamint Death Valley	123,646	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	15,638	226	11	0	57	293	1.9%
Piute Valley and Sacramento Mountains	7,045	0	0	0	0	0	0.0%
Providence and Bullion Mountains	54,670	196	0	0	17	213	0.4%
West Mojave and Eastern Slopes	86,308	8	0	0	2	9	0.0%
Grand Total	669,610	6,783	12	2,090	740	9,624	1.4%

Table R2.5-34
Alternative 1 – Plan Area – Mapped 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Percent Conserved
Cadiz Valley and Chocolate Mountains	799,988	1,386,012	31,884	72.4%
Not Assessed	700,021	1,147,536	29,293	70.4%
Minimal	98,008	225,872	1,945	87.0%
1% Annual Chance	1,960	12,604	646	70.1%
0.2% Annual Chance	0	0	0	
Imperial Borrego Valley	336,836	419,132	34,490	32.9%
Not Assessed	197,762	65,305	2,993	48.9%
Minimal	109,957	340,429	9,232	29.8%
1% Annual Chance	29,092	13,398	22,265	20.9%
0.2% Annual Chance	25	0	0	2.2%
Kingston and Funeral Mountains	1,678,614	508,737	41,117	90.2%
Not Assessed	848,110	264,323	22,824	89.7%
Minimal	808,203	224,857	17,473	91.5%
1% Annual Chance	22,301	19,557	820	76.0%
0.2% Annual Chance	0	0	0	
Mojave and Silurian Valley	747,003	481,102	28,270	47.5%
Not Assessed	726,529	463,349	24,976	47.0%
Minimal	6,526	17,024	2,299	62.5%
1% Annual Chance	13,948	729	995	81.6%
0.2% Annual Chance	0	0	1	0.3%

Table R2.5-34
Alternative 1 – Plan Area – Mapped 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Percent Conserved
Owens River Valley	30,131	107,476	51,761	45.3%
Not Assessed	0	0	15	4.5%
Minimal	30,131	93,498	51,738	51.6%
1% Annual Chance	0	13,978	8,077	18.0%
0.2% Annual Chance	0	0	0	
Panamint Death Valley	1,189,923	224,895	9,892	73.6%
Not Assessed	204,846	59,514	4,201	44.5%
Minimal	876,158	151,401	5,394	86.0%
1% Annual Chance	108,918	13,980	297	92.7%
0.2% Annual Chance	0	0	0	
Pinto Lucerne Valley and Eastern Slopes	701,984	491,638	37,257	53.1%
Not Assessed	692,996	478,479	28,899	55.1%
Minimal	8,146	12,913	7,633	23.3%
1% Annual Chance	836	107	700	10.4%
0.2% Annual Chance	6	139	25	23.2%
Piute Valley and Sacramento Mountains	401,549	423,566	15,341	77.0%
Not Assessed	401,549	423,566	14,262	77.7%
Minimal	0	0	501	7.0%
1% Annual Chance	0	0	533	13.7%
0.2% Annual Chance	0	0	45	10.5%

Table R2.5-34
Alternative 1 – Plan Area – Mapped 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Percent Conserved
Providence and Bullion Mountains	1,239,329	735,311	62,361	77.9%
Not Assessed	1,206,352	700,022	61,033	77.7%
Minimal	32,976	32,774	1,321	86.5%
1% Annual Chance	0	2,515	7	56.4%
0.2% Annual Chance	0	0	0	
West Mojave and Eastern Slopes	154,085	1,014,339	329,021	41.3%
Not Assessed	40,801	501,161	43,065	42.7%
Minimal	110,400	503,683	251,136	45.5%
1% Annual Chance	2,811	8,952	26,997	16.3%
0.2% Annual Chance	74	543	7,823	7.5%
Grand Total	7,279,441	5,792,208	641,394	60.7%

	Existing Conservation	BLM LUPA	Conservation Planning	Total
Sum of 100-year Floodplain Acreage that Could be Conserved in Plan Area	179,865	85,821	61,335	327,201
Total 100-year Floodplain Acreage in Plan Area	883,396	883,396	883,396	883,396
Percent of 100-year Floodplains that Could be Conserved in Plan Area	20.4%	9.7%	6.9%	37.0%

**Table R2.5-35
Alternative 1 - Plan Area - Linear Surface Water Features Conserved**

Ecoregion Subarea	Total Miles	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	12,081	3,100	5,255	79	8,434	69.8%
Imperial Borrego Valley	7,308	978	785	70	1,833	25.1%
Kingston and Funeral Mountains	9,727	6,276	2,175	63	8,514	87.5%
Mojave and Silurian Valley	8,534	2,593	1,259	47	3,899	45.7%
Owens River Valley	1,493	136	375	119	630	42.2%
Panamint Death Valley	10,089	5,471	1,361	26	6,858	70.1%
Pinto Lucerne Valley and Eastern Slopes	6,297	2,331	1,283	60	3,674	58.3%
Piute Valley and Sacramento Mountains	4,818	1,727	1,670	33	3,430	71.2%
Providence and Bullion Mountains	7,933	4,480	1,792	88	6,360	80.2%
West Mojave and Eastern Slopes	11,275	537	2,982	702	4,221	37.4%
Grand Total	79,556	27,630	18,937	1,287	47,854	60.2%

Table R2.5-36
Alternative 1 - Plan Area - Areal Surface Water Features Potentially Conserved

Ecoregion Subarea	Total Acres	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	55,078	929	35,575	311	36,815	66.8%
Imperial Borrego Valley	208,021	26,028	198	22,629	48,855	23.5%
Kingston and Funeral Mountains	22,685	4,389	12,314	27	16,730	73.7%
Mojave and Silurian Valley	46,254	23,408	8,207	353	31,968	69.1%
Owens River Valley	50,264	127	9,493	3,650	13,270	26.4%
Panamint Death Valley	123,646	71,953	11,537	457	83,947	67.9%
Pinto Lucerne Valley and Eastern Slopes	15,638	324	657	189	1,170	7.5%
Piute Valley and Sacramento Mountains	7,045	288	4	570	862	12.2%
Providence and Bullion Mountains	54,670	1,124	15,498	936	17,558	32.1%
West Mojave and Eastern Slopes	86,308	812	4,160	540	5,512	6.4%
Grand Total	669,610	129,383	97,642	29,661	256,686	38.3%

Table R2.5-37
Alternative 1 – BLM Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains	2,159,110	3,885	100	0	2,197
Not Assessed	1,863,871	3,885	100	0	2,197
Minimal	284,281	0	0	0	0
1% Annual Chance	10,957	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	849,955	2,445	0	4,491	1,445
Not Assessed	98,828	10	0	79	152
Minimal	716,192	2,430	0	4,371	1,238
1% Annual Chance	34,914	5	0	42	54
0.2% Annual Chance	21	0	0	0	0
Kingston and Funeral Mountains	1,184,862	0	0	0	0
Not Assessed	590,319	0	0	0	0
Minimal	551,793	0	0	0	0
1% Annual Chance	42,751	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	1,002,999	0	0	0	1,484
Not Assessed	974,232	0	0	0	1,483
Minimal	24,378	0	0	0	1
1% Annual Chance	4,378	0	0	0	0
0.2% Annual Chance	11	0	0	0	0

Table R2.5-37
Alternative 1 – BLM Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Owens River Valley	189,098	3,870	0	0	157
Not Assessed	47	0	0	0	0
Minimal	187,812	3,563	0	0	148
1% Annual Chance	1,238	307	0	0	9
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	457,137	0	0	0	0
Not Assessed	172,821	0	0	0	0
Minimal	269,024	0	0	0	0
1% Annual Chance	15,293	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	882,997	2,242	119	0	1,565
Not Assessed	848,242	2,129	113	0	1,561
Minimal	34,192	114	6	0	4
1% Annual Chance	561	0	0	0	0
0.2% Annual Chance	1	0	0	0	0
Piute Valley and Sacramento Mountains	896,363	0	0	0	0
Not Assessed	895,278	0	0	0	0
Minimal	741	0	0	0	0
1% Annual Chance	344	0	0	0	0
0.2% Annual Chance	0	0	0	0	0

Table R2.5-37
Alternative 1 – BLM Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Providence and Bullion Mountains	1,415,824	301	0	0	146
Not Assessed	1,351,295	301	0	0	146
Minimal	62,131	0	0	0	0
1% Annual Chance	2,397	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
West Mojave and Eastern Slopes	878,482	982	0	0	924
Not Assessed	421,884	0	0	0	35
Minimal	435,827	950	0	0	828
1% Annual Chance	19,762	31	0	0	53
0.2% Annual Chance	1,009	0	0	0	8
Grand Total	9,916,826	13,726	219	4,491	7,918

SUMMARY: 100-year Floodplains on BLM Lands in DFAs	Solar	Wind	Geothermal	Transmission	Total
100-year Floodplains on BLM within DFA	343	0	42	116	502
100-year Floodplains within DFA	12,947	85	2,729	1,638	17,398
Percent of BLM Floodplains within DFA Floodplains	2.7%	0.0%	1.6%	7.1%	2.9%

Table R2.5-38
Alternative 1 - BLM Lands - Linear Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	8,660	16	0	0	6	22	0.3%
Imperial Borrego Valley	1,629	1	0	4	2	7	0.4%
Kingston and Funeral Mountains	4,851	0	0	0	0	0	0.0%
Mojave and Silurian Valley	3,548	0	0	0	4	4	0.1%
Owens River Valley	834	36	0	0	1	37	4.5%
Panamint Death Valley	2,930	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	2,500	6	0	0	4	10	0.4%
Piute Valley and Sacramento Mountains	3,941	0	0	0	0	0	0.0%
Providence and Bullion Mountains	4,077	0	0	0	0	1	0.0%
West Mojave and Eastern Slopes	3,338	4	0	0	4	9	0.3%
Grand Total	36,309	63	1	4	21	90	0.3%

Table R2.5-39
Alternative 1 – BLM Lands – Areal Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Acres	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	36,652	2	0	0	14	16	0.0%
Imperial Borrego Valley	1,493	0	0	0	0	0	0.0%
Kingston and Funeral Mountains	21,323	0	0	0	0	0	0.0%
Mojave and Silurian Valley	17,589	0	0	0	3	3	0.0%
Owens River Valley	1,056	24	0	0	1	26	2.4%
Panamint Death Valley	38,808	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	5,893	16	1	0	22	39	0.7%
Piute Valley and Sacramento Mountains	11	0	0	0	0	0	0.0%
Providence and Bullion Mountains	38,894	3	0	0	10	13	0.0%
West Mojave and Eastern Slopes	20,199	0	0	0	0	0	0.0%
Grand Total	181,917	44	1	0	51	96	0.1%

Table R2.5-40
Alternative 1 – BLM Lands – 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	BLM Trails
Cadiz Valley and Chocolate Mountains	2,159,110	457,699	596,734	398,071	106,775	0
Not Assessed	1,863,871	329,180	545,285	378,965	62,549	0
Minimal	284,281	122,729	47,836	18,584	41,598	0
1% Annual Chance	10,957	5,790	3,613	522	2,628	0
0.2% Annual Chance	0	0	0	0	0	0
Imperial Borrego Valley	849,955	59,130	285,070	83,621	42,083	11,405
Not Assessed	98,828	15,861	41,731	24	0	3,407
Minimal	716,192	40,008	237,548	79,157	40,856	7,048
1% Annual Chance	34,914	3,261	5,790	4,440	1,228	950
0.2% Annual Chance	21	0	0	0	0	0
Kingston and Funeral Mountains	1,184,862	202,072	340,897	0	42,581	16,281
Not Assessed	590,319	55,529	235,018	0	26,050	579
Minimal	551,793	142,963	87,165	0	16,531	15,524
1% Annual Chance	42,751	3,580	18,713	0	0	178
0.2% Annual Chance	0	0	0	0	0	0
Mojave and Silurian Valley	1,002,999	82,024	405,183	0	62,644	24,131
Not Assessed	974,232	82,018	387,637	0	60,874	21,613
Minimal	24,378	6	16,779	0	1,109	1,369
1% Annual Chance	4,378	0	768	0	662	1,144
0.2% Annual Chance	11	0	0	0	0	4

Table R2.5-40
Alternative 1 – BLM Lands – 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	BLM Trails
Owens River Valley	189,098	11,590	47,682	0	7,462	0
Not Assessed	47	0	0	0	0	0
Minimal	187,812	11,587	47,408	0	7,462	0
1% Annual Chance	1,238	3	274	0	0	0
0.2% Annual Chance	0	0	0	0	0	0
Panamint Death Valley	457,137	83,851	120,128	26,840	79,511	0
Not Assessed	172,821	1,761	62,754	0	5,449	0
Minimal	269,024	73,650	51,299	26,839	65,422	0
1% Annual Chance	15,293	8,440	6,074	1	8,640	0
0.2% Annual Chance	0	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	882,997	84,480	371,398	13,245	1,920	1,596
Not Assessed	848,242	83,551	370,599	13,245	1,920	1,596
Minimal	34,192	917	800	0	0	0
1% Annual Chance	561	12	0	0	0	0
0.2% Annual Chance	1	0	0	0	0	0
Piute Valley and Sacramento Mountains	896,363	250,531	334,555	0	0	3,434
Not Assessed	895,278	250,531	334,555	0	0	3,434
Minimal	741	0	0	0	0	0
1% Annual Chance	344	0	0	0	0	0
0.2% Annual Chance	0	0	0	0	0	0

**Table R2.5-40
Alternative 1 – BLM Lands – 100-year Floodplains Conserved**

Ecoregion Subarea Flood Designations	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	BLM Trails
Providence and Bullion Mountains	1,415,824	241,881	522,404	47,746	127,407	257
Not Assessed	1,351,295	241,859	493,125	47,746	127,407	257
Minimal	62,131	22	26,991	0	0	0
1% Annual Chance	2,397	0	2,288	0	0	0
0.2% Annual Chance	0	0	0	0	0	0
West Mojave and Eastern Slopes	878,482	49,423	602,436	18,543	18,807	12,104
Not Assessed	421,884	4,388	347,205	0	2,718	53
Minimal	435,827	44,918	248,083	18,495	16,071	12,031
1% Annual Chance	19,762	117	7,126	43	18	21
0.2% Annual Chance	1,009	0	22	6	0	0
Grand Total	9,916,826	1,522,681	3,626,487	588,066	489,192	69,209

SUMMARY: 100-year Floodplains Conserved on BLM Lands in Alternative 1	NLCS	ACEC	Wildlife	Wilderness Characteristics	Trail	Total
Sum of 100-year Floodplain Acreage that Could be Conserved on BLM Lands	21,204	44,646	5,005	13,174	2,293	86,322
Total 100-year Floodplain Acreage on BLM Lands	132,595	132,595	132,595	132,595	132,595	132,595
Percent of 100-year Floodplains that Could be Conserved	16.0%	33.7%	3.8%	9.9%	1.7%	65.1%

Table R2.5-41
Alternative 1 - BLM Lands - Linear Surface Water Features Conserved

Ecoregion Subarea	Total Miles	NLCS	ACEC	Wildlife Allocations	Wilderness Characteristics	Trail Management Corridor	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	8,660	1,934	2,289	1,686	416	0	6,325	73.0%
Imperial Borrego Valley	1,629	185	216	404	27	20	852	52.3%
Kingston and Funeral Mountains	4,851	908	1,515	0	269	77	2,769	57.1%
Mojave and Silurian Valley	3,548	282	1,153	0	280	122	1,837	51.8%
Owens River Valley	834	68	244	0	42	0	354	42.4%
Panamint Death Valley	2,930	518	741	173	493	0	1,925	65.7%
Pinto Lucerne Valley and Eastern Slopes	2,500	229	1,191	69	6	10	1,505	60.2%
Piute Valley and Sacramento Mountains	3,941	1,203	1,209	0	0	22	2,434	61.8%
Providence and Bullion Mountains	4,077	811	1,447	93	351	1	2,703	66.3%
West Mojave and Eastern Slopes	3,338	185	2,344	67	71	30	2,697	80.8%
Grand Total	36,309	6,324	12,348	2,493	1,956	280	23,401	64.4%

Table R2.5-42
Alternative 1 – BLM Lands – Areal Surface Water Features Conserved

Ecoregion Subarea	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trail Mgmt	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	36,652	3,825	49	30,971	1,710	0	36,555	99.7%
Imperial Borrego Valley	1,493	34	101	0	0	19	154	10.3%
Kingston and Funeral Mountains	21,323	477	12,526	0	0	49	13,052	61.2%
Mojave and Silurian Valley	17,589	219	10,180	0	1,406	1,452	13,257	75.4%
Owens River Valley	1,056	1	885	0	0	0	886	83.9%
Panamint Death Valley	38,808	8,254	3,637	11	8,944	0	20,846	53.7%
Pinto Lucerne Valley and Eastern Slopes	5,893	38	400	0	0	18	456	7.7%
Piute Valley and Sacramento Mountains	11	2	3	0	0	0	5	45.4%
Providence and Bullion Mountains	38,894	1,067	874	13,745	1,131	0	16,817	43.2%
West Mojave and Eastern Slopes	20,199	5	3,904	3	1	0	3,913	19.3%
Grand Total	181,917	13,922	32,558	44,730	13,192	1,539	105,941	58.2%

Table R2.5-43
Alternative 1 – GCP Lands – 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	Geothermal	Transmission
Cadiz Valley and Chocolate Mountains	462,475	17,209	225	0	1,475
Not Assessed	388,510	17,198	225	0	1,475
Minimal	66,605	11	0	0	0
1% Annual Chance	7,360	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	1,260,374	42,073	0	11,509	4,897
Not Assessed	298,701	129	0	43	54
Minimal	774,772	36,601	0	9,672	4,116
1% Annual Chance	185,811	5,334	0	1,791	725
0.2% Annual Chance	1,090	9	0	3	2
Kingston and Funeral Mountains	149,125	0	0	0	0
Not Assessed	79,758	0	0	0	0
Minimal	61,239	0	0	0	0
1% Annual Chance	8,128	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	244,079	4,787	0	0	1,362
Not Assessed	227,769	4,686	0	0	1,342
Minimal	12,120	91	0	0	20
1% Annual Chance	3,913	6	0	0	0
0.2% Annual Chance	277	4	0	0	0

Table R2.5-43
Alternative 1 – GCP Lands – 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	Geothermal	Transmission
Owens River Valley	224,169	1,953	0	0	74
Not Assessed	294	0	0	0	0
Minimal	147,458	1,835	0	0	68
1% Annual Chance	76,416	118	0	0	6
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	59,027	0	0	0	0
Not Assessed	24,841	0	0	0	0
Minimal	29,967	0	0	0	0
1% Annual Chance	4,219	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	568,474	9,612	625	0	2,459
Not Assessed	464,141	8,980	583	0	2,345
Minimal	89,195	440	30	0	105
1% Annual Chance	14,412	192	13	0	9
0.2% Annual Chance	726	0	0	0	0
Piute Valley and Sacramento Mountains	137,216	0	0	0	0
Not Assessed	129,859	0	0	0	0
Minimal	4,186	0	0	0	0
1% Annual Chance	2,747	0	0	0	0
0.2% Annual Chance	424	0	0	0	0

Table R2.5-43
Alternative 1 – GCP Lands – 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	Geothermal	Transmission
Providence and Bullion Mountains	273,937	1,606	0	0	121
Not Assessed	256,487	1,606	0	0	121
Minimal	15,377	0	0	0	0
1% Annual Chance	2,073	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
West Mojave and Eastern Slopes	2,206,560	35,228	1,178	0	6,815
Not Assessed	516,326	8,714	533	0	1,966
Minimal	1,359,910	18,597	453	0	3,578
1% Annual Chance	219,048	4,280	72	0	501
0.2% Annual Chance	111,276	3,637	120	0	770
Grand Total	5,585,436	112,469	2,028	11,509	17,204

SUMMARY: GCP Floodplains Affected by Development	Solar	Wind	Geothermal	Transmission	Total
100-year Floodplain Acreage that Could be Developed in GCP DFA	9,931	85	1,791	1,240	13,046
Total GCP Floodplains Acreage	524,128	524,128	524,128	524,128	524,128
Percent of 100-year Floodplains that Could be Developed	1.9%	0.0%	0.3%	0.2%	2.5%
DFA Acreage	1,070,208	1,070,208	1,070,208	1,070,208	1,070,208
Percent of GCP Development in Total DFA Floodplain	0.9%	0.0%	0.2%	0.2%	1.2%

Table R2.5-44
Alternative 1 – GCP Lands – Linear Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	2,020	73	1	0	5	79	3.9%
Imperial Borrego Valley	5,073	215	0	56	22	292	5.8%
Kingston and Funeral Mountains	534	0	0	0	0	0	0.0%
Mojave and Silurian Valley	502	1	0	0	1	3	0.5%
Owens River Valley	612	6	0	0	0	6	1.0%
Panamint Death Valley	320	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	1,463	22	1	0	5	28	1.9%
Piute Valley and Sacramento Mountains	609	0	0	0	0	0	0.0%
Providence and Bullion Mountains	807	2	0	0	0	2	0.3%
West Mojave and Eastern Slopes	6,134	61	2	0	13	77	1.3%
Grand Total	18,074	380	5	56	46	487	2.7%

Table R2.5-45
Alternative 1 – GCP Lands – Areal Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Acres	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	15,194	40	1	0	32	72	0.5%
Imperial Borrego Valley	118,026	3,572	0	1,194	324	5,089	4.3%
Kingston and Funeral Mountains	1,273	0	0	0	0	0	0.0%
Mojave and Silurian Valley	3,459	19	0	0	9	28	0.8%
Owens River Valley	49,207	24	0	0	2	26	0.1%
Panamint Death Valley	9,572	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	5,537	210	10	0	35	255	4.6%
Piute Valley and Sacramento Mountains	5,259	0	0	0	0	0	0.0%
Providence and Bullion Mountains	9,408	193	0	0	7	200	2.1%
West Mojave and Eastern Slopes	9,989	8	0	0	2	9	0.1%
Grand Total	226,923	4,066	11	1,194	409	5,680	2.5%

Table R2.5-46
Alternative 1 – GCP Lands – 100-year Floodplains Conserved

Summary: GCP Lands Conserved in 100 Year Floodplains for Alternative 1	Existing Conservation	Conservation Planning	Total
Sum of 100-year Floodplain Acreage on GCP Lands that Could be Conserved	13,467	51,610	65,077
Total 100-year Floodplains on GCP Lands	524,128	524,128	524,128
Percent Conservation of 100-year Floodplains on GCP Lands	2.6%	9.8%	12.4%

Table R2.5-47
Alternative 1 – GCP Lands – Linear Surface Water Features Conserved

Ecoregion Subarea	Total Miles	Existing Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	2,020	16	76	92	4.6%
Imperial Borrego Valley	5,073	833	49	882	17.4%
Kingston and Funeral Mountains	534	39	58	97	18.2%
Mojave and Silurian Valley	502	37	46	83	16.5%
Owens River Valley	612	0	119	119	19.4%
Panamint Death Valley	320	62	25	87	27.2%
Pinto Lucerne Valley and Eastern Slopes	1,463	99	60	159	10.9%
Piute Valley and Sacramento Mountains	609	13	33	46	7.6%
Providence and Bullion Mountains	807	88	87	175	21.7%
West Mojave and Eastern Slopes	6,134	265	702	967	15.8%
Grand Total	18,074	1,451	1,255	2,706	15.0%

Table R2.5-48
Alternative 1 – GCP Lands – Areal Surface Water Features Conserved

Ecoregion Subarea	Total Acres	Existing Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	15,194	52	311	363	2.4%
Imperial Borrego Valley	118,026	6,482	12,814	19,296	16.3%
Kingston and Funeral Mountains	1,273	16	27	43	3.4%
Mojave and Silurian Valley	3,459	112	353	465	13.4%
Owens River Valley	49,207	119	3,650	3,769	7.7%
Panamint Death Valley	9,572	677	438	1,115	11.6%
Pinto Lucerne Valley and Eastern Slopes	5,537	11	189	200	3.6%
Piute Valley and Sacramento Mountains	5,259		570	570	10.8%
Providence and Bullion Mountains	9,408	1	936	937	10.0%
West Mojave and Eastern Slopes	9,989	276	540	816	8.2%
Grand Total	226,923	7,746	19,826	27,572	12.2%

R2.5.4 Alternative 2

**Table R2.5-49
Alternative 2 – Plan Area – Mapped 100-year Floodplains Potentially Affected by Development**

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains	3,063,646	16,683	3,433	0	1,809
Not Assessed	2,667,638	16,680	3,292	0	1,794
Minimal	374,347	3	141	0	15
1% Annual Chance	21,661	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	2,399,946	33,640	2,415	16,487	3,084
Not Assessed	544,445	144	0	131	90
Minimal	1,544,423	30,300	2,341	14,858	2,470
1% Annual Chance	309,965	3,192	73	1,496	522
0.2% Annual Chance	1,113	3	0	2	1
Kingston and Funeral Mountains	2,470,533	1,511	259	0	225
Not Assessed	1,265,823	446	114	0	225
Minimal	1,148,555	938	122	0	0
1% Annual Chance	56,155	127	24	0	0
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	2,644,098	3,132	609	0	3,643
Not Assessed	2,583,279	3,106	609	0	3,554
Minimal	41,331	26	0	0	61
1% Annual Chance	19,201	0	0	0	25
0.2% Annual Chance	288	0	0	0	3

Table R2.5-49
Alternative 2 – Plan Area – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Owens River Valley	417,603	1,073	213	950	6
Not Assessed	342	0	0	0	0
Minimal	339,607	1,009	202	881	6
1% Annual Chance	77,655	63	11	69	0
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	1,937,497	774	99	0	0
Not Assessed	604,075	671	88	0	0
Minimal	1,200,595	98	11	0	0
1% Annual Chance	132,828	5	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	2,318,717	8,178	3,614	0	2,866
Not Assessed	2,178,741	7,920	3,492	0	2,795
Minimal	123,386	203	104	0	64
1% Annual Chance	15,856	55	19	0	7
0.2% Annual Chance	734	0	0	0	0
Piute Valley and Sacramento Mountains	1,091,951	0	0	0	0
Not Assessed	1,080,489	0	0	0	0
Minimal	7,162	0	0	0	0
1% Annual Chance	3,876	0	0	0	0
0.2% Annual Chance	424	0	0	0	0

Table R2.5-49
Alternative 2 – Plan Area – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Providence and Bullion Mountains	2,615,216	1,473	736	0	25
Not Assessed	2,533,237	1,473	736	0	25
Minimal	77,508	0	0	0	0
1% Annual Chance	4,470	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
West Mojave and Eastern Slopes	3,626,947	35,645	3,655	0	17,869
Not Assessed	1,369,233	7,494	793	0	4,012
Minimal	1,903,389	21,419	2,114	0	10,822
1% Annual Chance	241,730	4,742	544	0	1,775
0.2% Annual Chance	112,595	1,990	205	0	1,260
Grand Total	22,586,155	102,108	15,032	17,437	29,527

SUMMARY: 100-year Floodplains in DFAs: Alternative 2	Solar	Wind	Geothermal	Transmission	Total
Sum of 100-year Floodplain Acreage that Could be Developed	8,186	671	1,566	2,330	12,752
Total 100-year Floodplain Acreage in Plan Area	883,397	883,397	883,397	883,397	883,397
Percent of 100-year Floodplains in that Could be Developed	0.9%	0.1%	0.2%	0.3%	1.4%

Table R2.5-50
Alternative 2 – Plan Area – Linear Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	12,081	45	8	0	5	58	0.5%
Imperial Borrego Valley	7,311	143	6	59	12	219	3.0%
Kingston and Funeral Mountains	9,727	7	2	0	2	10	0.1%
Mojave and Silurian Valley	8,534	13	5	0	9	28	0.3%
Owens River Valley	1,493	6	1	9	0	16	1.0%
Panamint Death Valley	10,089	3	0	0	0	3	0.0%
Pinto Lucerne Valley and Eastern Slopes	6,297	20	9	0	6	36	0.6%
Piute Valley and Sacramento Mountains	4,818	0	0	0	0	0	0.0%
Providence and Bullion Mountains	7,933	2	1	0	0	3	0.0%
West Mojave and Eastern Slopes	11,286	103	9	0	43	155	1.4%
Grand Total	79,569	341	40	68	77	527	0.7%

Table R2.5-51
Alternative 2 – Plan Area – Areal Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Acres	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	55,078	374	95	0	22	491	0.9%
Imperial Borrego Valley	208,021	2,288	19	1,068	314	3,689	1.8%
Kingston and Funeral Mountains	22,685	68	18	0	9	94	0.4%
Mojave and Silurian Valley	46,254	85	33	0	28	146	0.3%
Owens River Valley	50,264	10	2	6	0	18	0.0%
Panamint Death Valley	123,646	540	74	0	0	614	0.5%
Pinto Lucerne Valley and Eastern Slopes	15,638	133	48	0	32	213	1.4%
Piute Valley and Sacramento Mountains	7,045	0	0	0	0	0	0.0%
Providence and Bullion Mountains	54,670	82	39	0	1	122	0.2%
West Mojave and Eastern Slopes	86,308	1,424	91	0	47	1,562	1.8%
Grand Total	669,610	5,005	418	1,073	453	6,949	1.0%

Table R2.5-52
Alternative 2 - Plan Area - 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Percent Conserved
Cadiz Valley and Chocolate Mountains	799,988	1,323,899	39,169	70.6%
Not Assessed	700,021	1,087,749	36,583	68.4%
Minimal	98,008	223,597	1,940	86.4%
1% Annual Chance	1,960	12,553	646	70.0%
0.2% Annual Chance	0	0	0	
Imperial Borrego Valley	336,836	434,437	31,103	33.4%
Not Assessed	197,762	72,677	2,993	50.2%
Minimal	109,957	345,163	5,930	29.9%
1% Annual Chance	29,092	16,581	22,180	21.9%
0.2% Annual Chance	25	16	0	3.7%
Kingston and Funeral Mountains	1,678,614	542,239	36,542	91.4%
Not Assessed	848,110	290,570	23,024	91.8%
Minimal	808,203	230,695	13,135	91.6%
1% Annual Chance	22,301	20,974	383	77.7%
0.2% Annual Chance	0	0	0	
Mojave and Silurian Valley	747,003	545,372	30,279	50.0%
Not Assessed	726,529	521,159	26,993	49.3%
Minimal	6,526	22,786	2,290	76.5%
1% Annual Chance	13,948	1,417	995	85.2%
0.2% Annual Chance	0	10	1	3.8%

Table R2.5-52
Alternative 2 - Plan Area - 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Percent Conserved
Owens River Valley	30,131	97,788	64,038	46.0%
Not Assessed	0	0	15	4.5%
Minimal	30,131	85,015	54,737	50.0%
1% Annual Chance	0	12,773	9,286	28.4%
0.2% Annual Chance	0	0	0	
Panamint Death Valley	1,189,923	290,226	9,476	76.9%
Not Assessed	204,846	59,139	3,489	44.3%
Minimal	876,158	217,104	5,690	91.5%
1% Annual Chance	108,918	13,983	297	92.7%
0.2% Annual Chance	0	0	0	
Pinto Lucerne Valley and Eastern Slopes	701,984	450,086	47,804	51.7%
Not Assessed	692,996	425,727	38,718	53.1%
Minimal	8,146	23,448	7,600	31.8%
1% Annual Chance	836	771	1,461	19.3%
0.2% Annual Chance	6	140	25	23.2%
Piute Valley and Sacramento Mountains	401,549	516,720	16,661	85.6%
Not Assessed	401,549	515,706	15,627	86.3%
Minimal	0	693	501	16.7%
1% Annual Chance	0	322	533	22.0%
0.2% Annual Chance	0	0	45	10.6%

Table R2.5-52
Alternative 2 - Plan Area - 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Percent Conserved
Providence and Bullion Mountains	1,239,329	792,440	63,937	80.1%
Not Assessed	1,206,352	755,874	62,665	79.9%
Minimal	32,976	34,016	1,269	88.1%
1% Annual Chance	0	2,550	3	57.1%
0.2% Annual Chance	0	0	0	
West Mojave and Eastern Slopes	154,085	953,449	255,754	37.6%
Not Assessed	40,801	486,063	30,108	40.7%
Minimal	110,400	460,938	194,800	40.3%
1% Annual Chance	2,811	5,856	25,700	14.2%
0.2% Annual Chance	74	592	5,146	5.2%
Grand Total	7,279,441	5,946,656	594,763	61.2%

SUMMARY: 100-year Floodplains Conserved in Alternative 2	Existing Conservation	BLM LUPA	Conservation Planning	Total
Sum of 100-year Floodplain Acreage that Could be Conserved in Plan Area	179,865	87,781	61,482	326,128
Total 100-year Floodplain Acreage in Plan Area	883,397	883,397	883,397	883,397
Percent of 100-year Floodplains Conserved in Plan Area	20.4%	9.9%	7.0%	36.9%

Table R2.5-53
Alternative 2 – Plan Area – Linear Surface Water Features Conserved

Ecoregion Subarea	Total Miles	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	12,081	3,100	5,031	93	8,224	68.1%
Imperial Borrego Valley	7,311	978	789	65	1,832	25.1%
Kingston and Funeral Mountains	9,727	6,276	2,390	108	8,774	90.2%
Mojave and Silurian Valley	8,534	2,593	1,346	50	3,989	46.7%
Owens River Valley	1,493	136	341	157	634	42.5%
Panamint Death Valley	10,089	5,471	2,053	28	7,552	74.9%
Pinto Lucerne Valley and Eastern Slopes	6,297	2,331	1,309	159	3,799	60.3%
Piute Valley and Sacramento Mountains	4,818	1,727	2,183	37	3,947	81.9%
Providence and Bullion Mountains	7,933	4,480	1,950	90	6,520	82.2%
West Mojave and Eastern Slopes	11,286	537	2,759	673	3,969	35.2%
Grand Total	79,569	27,630	20,151	1,461	49,242	61.9%

Table R2.5-54
Alternative 2 – Plan Area – Areal Surface Water Features Conserved

Ecoregion Subarea	Total Acres	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	55,078	929	31,896	892	33,717	61.2%
Imperial Borrego Valley	208,021	26,028	348	22,616	48,992	23.6%
Kingston and Funeral Mountains	22,685	4,389	14,652	27	19,068	84.1%
Mojave and Silurian Valley	46,254	23,408	7,845	338	31,591	68.3%
Owens River Valley	50,264	127	8,276	4,842	13,245	26.4%
Panamint Death Valley	123,646	71,953	11,552	361	83,866	67.8%
Pinto Lucerne Valley and Eastern Slopes	15,638	324	410	276	1,010	6.5%
Piute Valley and Sacramento Mountains	7,045	288	7	570	865	12.3%
Providence and Bullion Mountains	54,670	1,124	34,400	936	36,460	66.7%
West Mojave and Eastern Slopes	86,308	812	8,532	662	10,006	11.6%
Grand Total	669,610	129,383	117,919	31,519	278,821	41.6%

Table R2.5-55
Alternative 2 – BLM Lands – 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains	2,159,109	11,060	3,016	0	930
Not Assessed	1,863,871	11,060	2,875	0	930
Minimal	284,281	0	141	0	0
1% Annual Chance	10,957	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	849,956	8,423	1,881	5,758	614
Not Assessed	98,828	97	0	109	69
Minimal	716,193	8,216	1,850	5,598	521
1% Annual Chance	34,914	110	32	51	24
0.2% Annual Chance	21	0	0	0	0
Kingston and Funeral Mountains	1,184,862	1,007	259	0	172
Not Assessed	590,319	442	114	0	172
Minimal	551,793	473	122	0	0
1% Annual Chance	42,751	92	24	0	0
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	1,002,999	1,665	609	0	1,973
Not Assessed	974,232	1,660	609	0	1,933
Minimal	24,378	6	0	0	29
1% Annual Chance	4,378	0	0	0	11
0.2% Annual Chance	11	0	0	0	0

Table R2.5-55
Alternative 2 – BLM Lands – 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Owens River Valley	189,098	385	0	950	4
Not Assessed	47	0	0	0	0
Minimal	187,812	357	0	881	4
1% Annual Chance	1,238	28	0	69	0
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	457,137	594	99	0	0
Not Assessed	172,821	528	88	0	0
Minimal	269,023	66	11	0	0
1% Annual Chance	15,293	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	882,997	2,456	1,359	0	1,203
Not Assessed	848,243	2,429	1,344	0	1,199
Minimal	34,192	26	15	0	4
1% Annual Chance	561	0	0	0	0
0.2% Annual Chance	1	0	0	0	0
Piute Valley and Sacramento Mountains	896,362	0	0	0	0
Not Assessed	895,278	0	0	0	0
Minimal	741	0	0	0	0
1% Annual Chance	344	0	0	0	0
0.2% Annual Chance	0	0	0	0	0

Table R2.5-55
Alternative 2 – BLM Lands – 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Providence and Bullion Mountains	1,415,823	950	587	0	17
Not Assessed	1,351,295	950	587	0	17
Minimal	62,131	0	0	0	0
1% Annual Chance	2,397	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
West Mojave and Eastern Slopes	878,482	12,481	277	0	2,441
Not Assessed	421,884	3,350	0	0	526
Minimal	435,827	7,600	203	0	1,811
1% Annual Chance	19,762	1,460	74	0	87
0.2% Annual Chance	1,009	70	0	0	17
Grand Total	9,916,826	39,021	8,087	6,708	7,355

SUMMARY: 100-year Floodplains in BLM DFAs in Alternative 2	Solar	Wind	Geothermal	Transmission	Total
100-year Floodplains on BLM within DFA	1,691	129	120	122	2,062
100-year Floodplains within DFA	8,186	671	1,566	2,330	12,752
Percent of BLM Floodplains within DFA Floodplains	20.6%	19.3%	7.7%	5.2%	16.2%

Table R2.5-56
Alternative 2 – BLM Lands – Linear Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	8,660	22	6	0	2	30	0.4%
Imperial Borrego Valley	1,632	12	4	5	1	21	1.3%
Kingston and Funeral Mountains	4,851	6	2	0	1	9	0.2%
Mojave and Silurian Valley	3,548	13	5	0	7	25	0.7%
Owens River Valley	834	4	0	9	0	13	1.6%
Panamint Death Valley	2,930	2	0	0	0	2	0.1%
Pinto Lucerne Valley and Eastern Slopes	2,500	6	4	0	3	12	0.5%
Piute Valley and Sacramento Mountains	3,941	0	0	0	0	0	0.0%
Providence and Bullion Mountains	4,077	1	1	0	0	2	0.1%
West Mojave and Eastern Slopes	3,347	57	1	0	10	68	2.0%
Grand Total	36,321	122	22	14	24	183	0.5%

Table R2.5-57
Alternative 2 – BLM Lands – Areal Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Acres	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	36,652	362	94	0	7	462	1.3%
Imperial Borrego Valley	1,493	4	0	4	1	9	0.6%
Kingston and Funeral Mountains	21,323	68	18	0	9	94	0.4%
Mojave and Silurian Valley	17,589	79	33	0	10	122	0.7%
Owens River Valley	1,056	2	0	6	0	8	0.8%
Panamint Death Valley	38,808	444	74	0	0	518	1.3%
Pinto Lucerne Valley and Eastern Slopes	5,893	65	25	0	12	102	1.7%
Piute Valley and Sacramento Mountains	11	0	0	0	0	0	0.0%
Providence and Bullion Mountains	38,894	48	30	0	0	78	0.2%
West Mojave and Eastern Slopes	20,199	1,410	89	0	32	1,532	7.6%
Grand Total	181,917	2,483	362	10	70	2,925	1.6%

Table R2.5-58
Alternative 2 – BLM Lands – 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trails
Cadiz Valley and Chocolate Mountains	1,186,609	224,407	683	106,775	11,548
Not Assessed	997,230	210,941	683	62,549	0
Minimal	179,438	13,340	0	41,598	11,435
1% Annual Chance	9,942	126	0	2,628	113
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	455,605	49,848	0	42,083	349,406
Not Assessed	64,120	1,920	0	0	91,061
Minimal	373,322	47,508	0	40,856	241,314
1% Annual Chance	18,146	420	0	1,228	17,010
0.2% Annual Chance	17	0	0	0	21
Kingston and Funeral Mountains	536,437	42,990	0	42,581	470,075
Not Assessed	285,291	33,763	0	26,050	173,878
Minimal	228,389	8,362	0	16,531	289,274
1% Annual Chance	22,757	865	0	0	6,923
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	506,869	30,419	0	62,645	683,583
Not Assessed	482,591	30,337	0	60,874	674,135
Minimal	22,772	81	0	1,109	5,059
1% Annual Chance	1,495	0	0	662	4,378
0.2% Annual Chance	11	0	0	0	11

Table R2.5-58
Alternative 2 – BLM Lands – 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trails
Owens River Valley	48,860	10,315	0	7,462	98,608
Not Assessed	0	0	0	0	47
Minimal	48,578	10,313	0	7,462	98,431
1% Annual Chance	282	2	0	0	130
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	287,439	14,999	0	79,511	7,872
Not Assessed	54,788	9,605	0	5,449	7,872
Minimal	218,334	5,191	0	65,422	0
1% Annual Chance	14,318	204	0	8,640	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	436,692	33,901	0	1,920	218,032
Not Assessed	420,135	33,896	0	1,920	216,032
Minimal	16,097	5	0	0	1,929
1% Annual Chance	460	0	0	0	71
0.2% Annual Chance	0	0	0	0	0
Piute Valley and Sacramento Mountains	497,586	188,399	0	0	84,882
Not Assessed	496,518	188,399	0	0	84,882
Minimal	729	0	0	0	0
1% Annual Chance	339	0	0	0	0
0.2% Annual Chance	0	0	0	0	0

**Table R2.5-58
Alternative 2 – BLM Lands – 100-year Floodplains Conserved**

Ecoregion Subarea Flood Designations	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trails
Providence and Bullion Mountains	772,897	119,197	0	127,407	132,235
Not Assessed	745,249	116,173	0	127,407	132,235
Minimal	25,334	3,012	0	0	0
1% Annual Chance	2,314	12	0	0	0
0.2% Annual Chance	0	0	0	0	0
West Mojave and Eastern Slopes	561,649	106,528	59	18,807	420,479
Not Assessed	325,348	10,419	0	2,718	128,013
Minimal	232,213	94,105	59	16,071	286,796
1% Annual Chance	4,010	1,999	1	18	4,669
0.2% Annual Chance	78	6	0	0	1,000
Grand Total	5,290,643	821,003	742	489,192	2,476,719

SUMMARY: 100-year Floodplains Conserved on BLM Land in Alternative 2	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trail	Total
Subtotal in 100-year Floodplain	74,062	3,627	1	13,174	33,293	124,157
Total 100-year Floodplains in BLM Reserve	132,595	132,595	132,595	132,595	132,595	132,595
Percent of 100-year Floodplains in BLM Ownership Floodplain	55.9%	2.7%	0.0%	9.9%	25.1%	93.6%

Table R2.5-59
Alternative 2 – BLM Lands – Linear Surface Water Features Conserved

Ecoregion Subarea	Total Miles	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trails Mgmt	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	8,660	4,863	847	4	416	39	6,169	71.2%
Imperial Borrego Valley	1,632	836	31	0	27	686	1,580	96.8%
Kingston and Funeral Mountains	4,851	2,489	100	0	269	1,887	4,745	97.8%
Mojave and Silurian Valley	3,548	1,495	59	0	280	2,707	4,541	128.0%
Owens River Valley	834	306	12	0	42	514	874	104.8%
Panamint Death Valley	2,930	2,055	111	0	493	48	2,707	92.4%
Pinto Lucerne Valley and Eastern Slopes	2,500	1,366	126	0	6	725	2,223	88.9%
Piute Valley and Sacramento Mountains	3,941	2,261	699	0	0	422	3,382	85.8%
Providence and Bullion Mountains	4,077	2,085	480	0	351	434	3,350	82.2%
West Mojave and Eastern Slopes	3,347	2,097	465	0	71	1,596	4,229	126.4%
Grand Total	36,321	19,854	2,929	4	1,956	9,058	33,801	93.1%

Table R2.5-60
Alternative 2 – BLM Lands – Areal Surface Water Features Conserved

Ecoregion Subarea	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trail Mgmt	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	36,652	31,279	229	39	1,710	0	33,257	90.7%
Imperial Borrego Valley	1,493	308	27	0	0	19	354	23.7%
Kingston and Funeral Mountains	21,323	15,381	49	0	0	49	15,479	72.6%
Mojave and Silurian Valley	17,589	8,593	1,924	0	1,406	1,452	13,375	76.0%
Owens River Valley	1,056	220	666	0	0	0	886	83.9%
Panamint Death Valley	38,808	11,919	1	0	8,944	0	20,864	53.8%
Pinto Lucerne Valley and Eastern Slopes	5,893	416	5	0	0	18	439	7.4%
Piute Valley and Sacramento Mountains	11	8	0	0	0	0	8	72.7%
Providence and Bullion Mountains	38,894	36,343	19	0	1,131	0	37,493	96.4%
West Mojave and Eastern Slopes	20,199	8,395	19	0	1	0	8,415	41.7%
Grand Total	181,917	112,861	2,940	39	13,192	1,539	130,571	71.8%

Table R2.5-61
Alternative 2 – GCP Lands – 100-year Floodplains Potentially Affected by Development

Row Labels	Sum of Acres	Solar	Wind	Geothermal	Transmission
Cadiz Valley and Chocolate Mountains	462,475	5,623	417	0	848
Not Assessed	388,510	5,620	417	0	833
Minimal	66,605	3	0	0	15
1% Annual Chance	7,360	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	1,260,374	24,142	523	10,237	2,292
Not Assessed	298,701	47	0	22	21
Minimal	774,772	21,987	489	9,223	1,903
1% Annual Chance	185,811	2,104	33	990	367
0.2% Annual Chance	1,090	3	0	2	1
Kingston and Funeral Mountains	149,125	504	0	0	18
Not Assessed	79,758	4	0	0	18
Minimal	61,239	464	0	0	0
1% Annual Chance	8,128	35	0	0	0
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	244,079	1,467	0	0	1,312
Not Assessed	227,769	1,446	0	0	1,270
Minimal	12,120	20	0	0	29
1% Annual Chance	3,913	0	0	0	11
0.2% Annual Chance	277	0	0	0	3
Owens River Valley	224,169	688	213	0	2
Not Assessed	294	0	0	0	0
Minimal	147,458	652	202	0	2

Table R2.5-61
Alternative 2 – GCP Lands – 100-year Floodplains Potentially Affected by Development

Row Labels	Sum of Acres	Solar	Wind	Geothermal	Transmission
1% Annual Chance	76,416	35	11	0	0
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	59,027	180	0	0	0
Not Assessed	24,841	142	0	0	0
Minimal	29,967	32	0	0	0
1% Annual Chance	4,219	5	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	568,474	5,722	2,255	0	1,640
Not Assessed	464,141	5,490	2,147	0	1,573
Minimal	89,195	177	89	0	60
1% Annual Chance	14,412	55	19	0	7
0.2% Annual Chance	726	0	0	0	0
Piute Valley and Sacramento Mountains	137,216	0	0	0	0
Not Assessed	129,859	0	0	0	0
Minimal	4,186	0	0	0	0
1% Annual Chance	2,747	0	0	0	0
0.2% Annual Chance	424	0	0	0	0
Providence and Bullion Mountains	273,937	523	148	0	6
Not Assessed	256,487	523	148	0	6
Minimal	15,377	0	0	0	0
1% Annual Chance	2,073	0	0	0	0
0.2% Annual Chance	0	0	0	0	0

Table R2.5-61
Alternative 2 – GCP Lands – 100-year Floodplains Potentially Affected by Development

Row Labels	Sum of Acres	Solar	Wind	Geothermal	Transmission
West Mojave and Eastern Slopes	2,206,560	23,164	3,378	0	15,204
Not Assessed	516,326	4,144	793	0	3,371
Minimal	1,359,910	13,818	1,911	0	8,906
1% Annual Chance	219,048	3,282	470	0	1,685
0.2% Annual Chance	111,276	1,919	205	0	1,242
Grand Total	5,585,436	62,013	6,935	10,237	21,322

SUMMARY: 100-year Floodplains Affected by DFAs in GCP Lands: Alternative 2	Solar	Wind	Geothermal	Transmission	Total
Sum of 100-year Floodplains that Could be Developed in GCP DFA	5,518	533	990	2,070	9,111
Total 100-year Floodplain Acreage on GCP Lands	524,128	524,128	524,128	524,128	524,128
Percent of Floodplains that Could be Developed	1.1%	0.1%	0.2%	0.4%	1.7%
Area of 100-year Floodplains in GCP DFA	5,518	533	990	2,070	9,111
DFA Acreage	2,475,329	2,475,329	2,475,329	2,475,329	2,475,329
Percent of GCP Development in Total DFA Floodplain	0.2%	0.0%	0.0%	0.1%	0.4%
Sum of 100-year Floodplain Acreage that Could be Developed in Plan Area	8,186	671	1,566	2,330	12,752

SUMMARY: 100-year Floodplains Affected by DFAs in GCP Lands: Alternative 2	Solar	Wind	Geothermal	Transmission	Total
Total 100-year Floodplain Acreage in Plan Area	883,397	883,397	883,397	883,397	883,397
Percent of 100-year Floodplains that Could be Developed in Plan Area	0.9%	0.1%	0.2%	0.3%	1.4%

Table R2.5-62
Alternative 2 – GCP Lands – Linear Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Development
Cadiz Valley and Chocolate Mountains	2,020	23	2	0	3	28	1.4%
Imperial Borrego Valley	5,073	129	2	53	10	195	3.8%
Kingston and Funeral Mountains	534	1	0	0	0	1	0.1%
Mojave and Silurian Valley	502	0	0	0	2	2	0.4%
Owens River Valley	612	2	1	0	0	3	0.4%
Panamint Death Valley	320	1	0	0	0	1	0.2%
Pinto Lucerne Valley and Eastern Slopes	1,463	14	6	0	4	23	1.6%
Piute Valley and Sacramento Mountains	609	0	0	0	0	0	0.0%
Providence and Bullion Mountains	807	1	0	0	0	1	0.1%
West Mojave and Eastern Slopes	6,135	46	8	0	32	86	1.4%
Grand Total	18,075	217	18	53	50	339	1.9%

Table R2.5-63
Alternative 2 – GCP Lands – Areal Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Acres	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	15,194	13	1	0	15	29	0.2%
Imperial Borrego Valley	118,026	1,307	11	608	183	2,109	1.8%
Kingston and Funeral Mountains	1,273	0	0	0	0	0	0.0%
Mojave and Silurian Valley	3,459	6	0	0	16	22	0.6%
Owens River Valley	49,207	7	2	0	0	10	0.0%
Panamint Death Valley	9,572	96	0	0	0	96	1.0%
Pinto Lucerne Valley and Eastern Slopes	5,537	67	23	0	20	110	2.0%
Piute Valley and Sacramento Mountains	5,259	0	0	0	0	0	0.0%
Providence and Bullion Mountains	9,408	33	10	0	0	43	0.5%
West Mojave and Eastern Slopes	9,989	14	1	0	8	23	0.2%
Grand Total	226,923	1,544	48	608	242	2,443	1.1%

Table R2.5-64
Alternative 2 – GCP Lands – 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Total Acres	Existing Conservation	Conservation Planning Areas	Percent Conserved
Cadiz Valley and Chocolate Mountains	462,475	4,084	35,426	8.5%
Not Assessed	388,510	3,763	32,850	9.4%
Minimal	66,605	163	1,930	3.1%
1% Annual Chance	7,360	159	646	10.9%
0.2% Annual Chance	0	0	0	
Imperial Borrego Valley	1,260,374	261,467	20,943	22.4%
Not Assessed	298,701	184,766	2,607	62.7%
Minimal	774,772	67,728	5,851	9.5%
1% Annual Chance	185,811	8,949	12,485	11.5%
0.2% Annual Chance	1,090	25	0	2.3%
Kingston and Funeral Mountains	149,125	11,788	33,881	30.6%
Not Assessed	79,758	8,023	20,528	35.8%
Minimal	61,239	3,734	12,970	27.3%
1% Annual Chance	8,128	31	383	5.1%
0.2% Annual Chance	0	0	0	
Mojave and Silurian Valley	244,079	11,469	29,839	16.9%
Not Assessed	227,769	9,642	26,553	15.9%
Minimal	12,120	952	2,290	26.8%
1% Annual Chance	3,913	875	995	47.8%
0.2% Annual Chance	277	0	1	0.3%

Table R2.5-64
Alternative 2 – GCP Lands – 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Total Acres	Existing Conservation	Conservation Planning Areas	Percent Conserved
Owens River Valley	224,169	227	64,038	28.7%
Not Assessed	294	0	15	5.2%
Minimal	147,458	227	54,737	37.3%
1% Annual Chance	76,416	0	9,286	12.2%
0.2% Annual Chance	0	0	0	
Panamint Death Valley	59,027	12,396	9,225	36.6%
Not Assessed	24,841	5,027	3,427	34.0%
Minimal	29,967	6,000	5,527	38.5%
1% Annual Chance	4,219	1,369	271	38.9%
0.2% Annual Chance	0	0	0	
Pinto Lucerne Valley and Eastern Slopes	568,474	25,144	47,710	12.8%
Not Assessed	464,141	25,143	38,624	13.7%
Minimal	89,195	2	7,600	8.5%
1% Annual Chance	14,412	0	1,461	10.1%
0.2% Annual Chance	726	0	25	3.4%
Piute Valley and Sacramento Mountains	137,216	3,043	16,706	14.40%
Not Assessed	129,859	3,043	15,627	14.4%
Minimal	4,186	0	501	12.0%
1% Annual Chance	2,747	0	533	19.4%
0.2% Annual Chance	424	0	45	10.5%

Table R2.5-64
Alternative 2 – GCP Lands – 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Total Acres	Existing Conservation	Conservation Planning Areas	Percent Conserved
Providence and Bullion Mountains	273,937	21,355	63,514	30.9%
Not Assessed	256,487	21,130	62,242	32.5%
Minimal	15,377	226	1,269	9.7%
1% Annual Chance	2,073	0	3	0.1%
0.2% Annual Chance	0	0	0	
West Mojave and Eastern Slopes	2,206,560	61,181	255,597	14.4%
Not Assessed	516,326	9,231	30,107	7.6%
Minimal	1,359,910	49,792	194,648	18.0%
1% Annual Chance	219,048	2,084	25,696	12.7%
0.2% Annual Chance	111,276	74	5,146	4.7%
Grand Total	5,585,436	412,156	576,879	17.7%

SUMMARY: 100-year Floodplains Conserved on GCP Lands in Alternative 2	Existing Conservation	Conservation Planning	Total
Sum of 100-year Floodplain Acreage that Could be Conserved on GCP Lands	13,467	51,757	65,224
Total 100-year Floodplain Acreage in GCP Reserve	524,128	524,128	524,128
Percent of Total 100-year Floodplains that Could be Conserved on GCP Lands	2.6%	9.9%	12.4%

**Table R2.5-65
Alternative 2 – GCP Lands – Linear Surface Water Features Conserved**

Ecoregion Subarea	Total Miles	Existing Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	2,020	16	91	107	5.3%
Imperial Borrego Valley	5,073	833	45	878	17.3%
Kingston and Funeral Mountains	534	39	89	128	24.0%
Mojave and Silurian Valley	502	37	50	87	17.3%
Owens River Valley	612	0	157	157	25.7%
Panamint Death Valley	320	62	28	90	28.1%
Pinto Lucerne Valley and Eastern Slopes	1,463	99	159	258	17.6%
Piute Valley and Sacramento Mountains	609	13	37	50	8.2%
Providence and Bullion Mountains	807	88	89	177	21.9%
West Mojave and Eastern Slopes	6,135	265	673	938	15.3%
Grand Total	18,075	1,451	1,416	2,867	15.9%

Table R2.5-66
Alternative 2 – GCP Lands – Areal Surface Water Features Conserved

Ecoregion Subarea	Total Acres	Existing Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	15,194	52	892	944	6.3%
Imperial Borrego Valley	118,026	6,482	12,803	19,285	16.3%
Kingston and Funeral Mountains	1,273	16	27	43	3.4%
Mojave and Silurian Valley	3,459	112	338	450	13.0%
Owens River Valley	49,207	119	4,842	4,961	10.0%
Panamint Death Valley	9,572	677	341	1,018	10.6%
Pinto Lucerne Valley and Eastern Slopes	5,537	11	276	287	5.2%
Piute Valley and Sacramento Mountains	5,259		570	570	10.8%
Providence and Bullion Mountains	9,408	1	936	937	10.0%
West Mojave and Eastern Slopes	9,989	276	662	938	9.4%
Grand Total	226,923	7,746	21,687	29,433	13.0%

R2.5.5 Alternative 3

**Table R2.5-67
Alternative 3 – Plan Area – Mapped 100-year Floodplains Potentially Affected by Development**

Ecoregion Subarea Flood Designation	Total Acres	Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains	3,063,982	20,540	597	0	3,672
Not Assessed	2,667,974	20,532	596	0	3,672
Minimal	374,347	7	0	0	0
1% Annual Chance	21,661	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	2,399,945	44,262	228	16,461	6,663
Not Assessed	544,445	309	0	151	207
Minimal	1,544,422	38,094	215	13,962	5,396
1% Annual Chance	309,965	5,852	13	2,345	1,057
0.2% Annual Chance	1,113	7	0	3	3
Kingston and Funeral Mountains	2,470,534	0	0	0	0
Not Assessed	1,265,823	0	0	0	0
Minimal	1,148,556	0	0	0	0
1% Annual Chance	56,155	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	2,644,097	3,977	0	0	3,355
Not Assessed	2,583,278	3,911	0	0	3,334
Minimal	41,331	65	0	0	21
1% Annual Chance	19,201	0	0	0	0
0.2% Annual Chance	288	0	0	0	0

Table R2.5-67
Alternative 3 – Plan Area – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designation	Total Acres	Solar	Wind	GT	Transmission
Owens River Valley	417,603	2,144	0	998	231
Not Assessed	342	0	0	0	0
Minimal	339,607	2,001	0	925	216
1% Annual Chance	77,655	142	0	73	15
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	1,937,498	1,891	0	0	456
Not Assessed	604,076	1,726	0	0	0
Minimal	1,200,594	151	0	0	456
1% Annual Chance	132,828	13	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	2,318,717	12,129	1,437	0	4,054
Not Assessed	2,178,741	11,669	1,379	0	3,936
Minimal	123,386	338	43	0	109
1% Annual Chance	15,856	122	16	0	9
0.2% Annual Chance	734	0	0	0	0
Piute Valley and Sacramento Mountains	1,091,951	0	0	0	0
Not Assessed	1,080,489	0	0	0	0
Minimal	7,162	0	0	0	0
1% Annual Chance	3,876	0	0	0	0
0.2% Annual Chance	424	0	0	0	0

Table R2.5-67
Alternative 3 – Plan Area – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designation	Total Acres	Solar	Wind	GT	Transmission
Providence and Bullion Mountains	2,615,216	2,066	0	0	275
Not Assessed	2,533,237	2,066	0	0	275
Minimal	77,509	0	0	0	0
1% Annual Chance	4,470	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
West Mojave and Eastern Slopes	3,626,946	41,029	2,262	0	7,884
Not Assessed	1,369,232	8,482	619	0	1,939
Minimal	1,903,389	22,156	1,088	0	4,676
1% Annual Chance	241,730	7,023	318	0	534
0.2% Annual Chance	112,595	3,369	236	0	735
Grand Total	22,586,488	128,036	4,524	17,459	26,590

SUMMARY: 100-year Floodplains in DFAs in Alternative 3	Solar	Wind	Geothermal	Transmission	Total
Sum of 100-year Floodplain Acreage that Could be Developed in Plan Area	13,152	347	2,419	1,616	17,533
Total 100-year Floodplain Acreage in Plan Area	883,396	883,396	883,396	883,396	883,396
Percent of 100-year Floodplains that Could be Developed	1.5%	0.0%	0.3%	0.2%	2.0%

Table R2.5-68
Alternative 3 – Plan Area – Linear Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	12,081	68	2	0	10	81	0.7%
Imperial Borrego Valley	7,308	182	1	55	24	262	3.6%
Kingston and Funeral Mountains	9,727	0	0	0	0	0	0.0%
Mojave and Silurian Valley	8,534	1	0	0	7	8	0.1%
Owens River Valley	1,493	14	0	10	2	25	1.7%
Panamint Death Valley	10,089	6	0	0	1	6	0.1%
Pinto Lucerne Valley and Eastern Slopes	6,297	27	3	0	8	39	0.6%
Piute Valley and Sacramento Mountains	4,818	0	0	0	0	0	0.0%
Providence and Bullion Mountains	7,933	3	0	0	0	4	0.1%
West Mojave and Eastern Slopes	11,286	72	4	0	18	94	0.8%
Grand Total	79,567	374	10	65	71	519	0.7%

Table R2.5-69
Alternative 3 – Plan Area – Areal Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Acres	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	55,078	36	1	0	46	83	0.2%
Imperial Borrego Valley	208,021	4,464	0	1,785	601	6,850	3.3%
Kingston and Funeral Mountains	22,685	0	0	0	0	0	0.0%
Mojave and Silurian Valley	46,254	14	0	0	13	27	0.1%
Owens River Valley	50,264	20	0	6	7	33	0.1%
Panamint Death Valley	123,646	1,445	0	0	0	1,445	1.2%
Pinto Lucerne Valley and Eastern Slopes	15,638	348	40	0	57	445	2.9%
Piute Valley and Sacramento Mountains	7,045	0	0	0	0	0	0.0%
Providence and Bullion Mountains	54,670	405	0	0	17	422	0.8%
West Mojave and Eastern Slopes	86,308	2,067	63	0	1	2,132	2.5%
Grand Total	669,610	8,799	104	1,791	743	11,438	1.7%

Table R2.5-70
Alternative 3 – Plan Area – Mapped 100-year Floodplains that Could be Conserved

Ecoregion Subarea Flood Designations	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Percent Conserved
Cadiz Valley and Chocolate Mountains	799,988	1,381,675	30,258	72.2%
Not Assessed	700,021	1,144,426	27,855	70.2%
Minimal	98,008	226,810	1,945	87.3%
1% Annual Chance	1,960	10,439	458	59.4%
0.2% Annual Chance	0	0	0	
Imperial Borrego Valley	336,836	462,367	33,169	34.7%
Not Assessed	197,762	65,207	2,996	48.9%
Minimal	109,957	377,971	7,962	32.1%
1% Annual Chance	29,092	19,189	22,211	22.7%
0.2% Annual Chance	25	0	0	2.2%
Kingston and Funeral Mountains	1,678,614	508,332	41,117	90.2%
Not Assessed	848,110	264,352	22,824	89.7%
Minimal	808,203	224,423	17,473	91.4%
1% Annual Chance	22,301	19,557	820	76.0%
0.2% Annual Chance	0	0	0	
Mojave and Silurian Valley	747,003	490,730	26,303	47.8%
Not Assessed	726,529	470,684	23,310	47.3%
Minimal	6,526	18,577	2,109	65.8%
1% Annual Chance	13,948	1,469	883	84.9%
0.2% Annual Chance	0	0	1	0.3%

Table R2.5-70
Alternative 3 – Plan Area – Mapped 100-year Floodplains that Could be Conserved

Ecoregion Subarea Flood Designations	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Percent Conserved
Owens River Valley	30,131	110,576	57,728	47.5%
Not Assessed	0	0	15	4.5%
Minimal	30,131	97,520	49,751	52.2%
1% Annual Chance	0	13,056	7,962	27.1%
0.2% Annual Chance	0	0	0	
Panamint Death Valley	1,189,923	289,756	7,155	76.7%
Not Assessed	204,846	59,520	3,488	44.3%
Minimal	876,158	216,253	3,370	91.3%
1% Annual Chance	108,918	13,983	297	92.8%
0.2% Annual Chance	0	0	0	
Pinto Lucerne Valley and Eastern Slopes	701,984	506,513	36,576	53.7%
Not Assessed	692,996	486,611	28,218	55.4%
Minimal	8,146	19,656	7,633	28.7%
1% Annual Chance	836	107	700	10.4%
0.2% Annual Chance	6	139	25	23.2%
Piute Valley and Sacramento Mountains	401,549	423,832	15,348	77.0%
Not Assessed	401,549	423,832	14,269	77.7%
Minimal	0	0	501	7.0%
1% Annual Chance	0	0	533	13.7%
0.2% Annual Chance	0	0	45	10.5%

Table R2.5-70
Alternative 3 – Plan Area – Mapped 100-year Floodplains that Could be Conserved

Ecoregion Subarea Flood Designations	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Percent Conserved
Providence and Bullion Mountains	1,239,329	776,841	58,137	79.3%
Not Assessed	1,206,352	740,142	56,809	79.1%
Minimal	32,976	34,184	1,321	88.4%
1% Annual Chance	0	2,515	7	56.4%
0.2% Annual Chance	0	0	0	
West Mojave and Eastern Slopes	154,085	1,006,491	318,482	40.8%
Not Assessed	40,801	500,565	37,113	42.3%
Minimal	110,400	497,192	247,826	44.9%
1% Annual Chance	2,811	8,191	25,877	15.3%
0.2% Annual Chance	74	543	7,666	7.4%
Grand Total	7,279,441	5,957,113	624,273	61.3%

SUMMARY: 100-year Floodplains in Conservation, Alternative 3	Existing Conservation	BLM LUPA	Conservation Planning	Total
Sum of 100-year Floodplain Acreage that Could be Conserved in Plan Area	179,865	88,506	59,747	328,118
Total 100-year Floodplain Acreage in Plan Area	883,396	883,396	883,396	883,396
Percent of 100-year Floodplains that Could be Conserved in Plan Area	20.4%	10.0%	6.7%	37.1%

Table R2.5-71
Alternative 3 – Plan Area – Linear Surface Water Features Conserved

Ecoregion Subarea	Total Miles	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	12,081	3,100	5,078	72	8,250	68.3%
Imperial Borrego Valley	7,308	978	980	66	2,024	27.7%
Kingston and Funeral Mountains	9,727	6,276	2,172	63	8,511	87.5%
Mojave and Silurian Valley	8,534	2,593	1,347	42	3,982	46.6%
Owens River Valley	1,493	136	345	102	583	39.0%
Panamint Death Valley	10,089	5,471	2,060	17	7,548	74.8%
Pinto Lucerne Valley and Eastern Slopes	6,297	2,331	1,306	63	3,700	58.8%
Piute Valley and Sacramento Mountains	4,818	1,727	1,671	33	3,431	71.2%
Providence and Bullion Mountains	7,933	4,480	1,836	83	6,399	80.7%
West Mojave and Eastern Slopes	11,286	537	3,026	708	4,271	37.8%
Grand Total	79,567	27,630	19,822	1,249	48,701	61.2%

Table R2.5-72
Alternative 3 – Plan Area – Areal Surface Water Features Conserved

Ecoregion Subarea	Total Acres	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	55,078	929	37,622	205	38,756	70.4%
Imperial Borrego Valley	208,021	26,028	198	22,624	48,850	23.5%
Kingston and Funeral Mountains	22,685	4,389	12,314	27	16,730	73.7%
Mojave and Silurian Valley	46,254	23,408	8,274	289	31,971	69.1%
Owens River Valley	50,264	127	8,610	3,601	12,338	24.5%
Panamint Death Valley	123,646	71,953	11,550	361	83,864	67.8%
Pinto Lucerne Valley and Eastern Slopes	15,638	324	657	184	1,165	7.4%
Piute Valley and Sacramento Mountains	7,045	288	4	570	862	12.2%
Providence and Bullion Mountains	54,670	1,124	15,983	855	17,962	32.9%
West Mojave and Eastern Slopes	86,308	812	4,139	530	5,481	6.4%
Grand Total	669,610	129,383	99,352	29,245	257,980	38.5%

Table R2.5-73
Alternative 3 – BLM Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains	2,159,406	8,149	317	0	2,196
Not Assessed	1,864,167	8,149	317	0	2,196
Minimal	284,281	0	0	0	0
1% Annual Chance	10,957	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	849,955	10,013	131	5,793	1,445
Not Assessed	98,828	217	0	114	152
Minimal	716,191	9,651	117	5,622	1,238
1% Annual Chance	34,914	144	13	57	54
0.2% Annual Chance	21	0	0	0	0
Kingston and Funeral Mountains	1,184,862	0	0	0	0
Not Assessed	590,319	0	0	0	0
Minimal	551,793	0	0	0	0
1% Annual Chance	42,751	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	1,002,999	586	0	0	1,499
Not Assessed	974,232	568	0	0	1,498
Minimal	24,378	18	0	0	1
1% Annual Chance	4,378	0	0	0	0
0.2% Annual Chance	11	0	0	0	0

Table R2.5-73
Alternative 3 – BLM Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Owens River Valley	189,098	1,028	0	998	155
Not Assessed	47	0	0	0	0
Minimal	187,812	952	0	925	149
1% Annual Chance	1,238	76	0	73	6
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	457,137	1,451	0	0	456
Not Assessed	172,821	1,378	0	0	0
Minimal	269,024	74	0	0	456
1% Annual Chance	15,293	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	882,997	2,660	313	0	1,565
Not Assessed	848,242	2,601	306	0	1,561
Minimal	34,192	59	7	0	4
1% Annual Chance	561	0	0	0	0
0.2% Annual Chance	1	0	0	0	0
Piute Valley and Sacramento Mountains	896,363	0	0	0	0
Not Assessed	895,278	0	0	0	0
Minimal	741	0	0	0	0
1% Annual Chance	344	0	0	0	0
0.2% Annual Chance	0	0	0	0	0

Table R2.5-73
Alternative 3 – BLM Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Providence and Bullion Mountains	1,415,824	989	0	0	146
Not Assessed	1,351,295	989	0	0	146
Minimal	62,131	0	0	0	0
1% Annual Chance	2,397	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
West Mojave and Eastern Slopes	878,482	3,928	102	0	1,271
Not Assessed	421,884	527	0	0	33
Minimal	435,827	1,792	53	0	1,172
1% Annual Chance	19,762	1,609	49	0	59
0.2% Annual Chance	1,009	0	0	0	8
Grand Total	9,917,121	28,803	863	6,791	8,734

SUMMARY: 100-year Floodplains on BLM Land in DFAs, Alternative 3	Solar	Wind	Geothermal	Transmission	Total
Sum of 100-year Floodplains that Could be Developed on BLM Lands	1,829	62	131	119	2,141
Total 100-year Floodplains on BLM Lands	13,152	347	2,419	1,616	17,533
Percent of Floodplains that Could be Developed on BLM Lands	13.9%	18.0%	5.4%	7.4%	12.2%

Table R2.5-74
Alternative 3 – BLM Lands – Linear Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	8,660	18	1	0	6	24	0.3%
Imperial Borrego Valley	1,629	12	1	5	2	20	1.2%
Kingston and Funeral Mountains	4,851	0	0	0	0	0	0.0%
Mojave and Silurian Valley	3,548	0	0	0	4	5	0.1%
Owens River Valley	834	10	0	10	1	21	2.5%
Panamint Death Valley	2,930	4	0	0	1	5	0.2%
Pinto Lucerne Valley and Eastern Slopes	2,500	6	1	0	4	10	0.4%
Piute Valley and Sacramento Mountains	3,941	0	0	0	0	0	0.0%
Providence and Bullion Mountains	4,077	2	0	0	0	2	0.1%
West Mojave and Eastern Slopes	3,348	11	0	0	5	17	0.5%
Grand Total	36,319	63	2	15	23	104	0.3%

Table R2.5-75
Alternative 3 – BLM Lands – Areal Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Acres	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	36,652	8	0	0	14	23	0.1%
Imperial Borrego Valley	1,493	8	0	4	0	12	0.8%
Kingston and Funeral Mountains	21,323	0	0	0	0	0	0.0%
Mojave and Silurian Valley	17,589	0	0	0	3	3	0.0%
Owens River Valley	1,056	6	0	6	1	13	1.3%
Panamint Death Valley	38,808	1,210	0	0	0	1,210	3.1%
Pinto Lucerne Valley and Eastern Slopes	5,893	157	18	0	22	197	3.4%
Piute Valley and Sacramento Mountains	11	0	0	0	0	0	0.0%
Providence and Bullion Mountains	38,894	276	0	0	10	286	0.7%
West Mojave and Eastern Slopes	20,199	2,042	62	0	0	2,105	10.4%
Grand Total	181,917	3,707	81	10	51	3,849	2.1%

Table R2.5-76
Alternative 3 – BLM Lands – Mapped 100-year Floodplains that Could be Conserved

Ecoregion Subarea Flood Designations	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trail Management
Cadiz Valley and Chocolate Mountains	2,159,406	717,302	729,833	0	106,775	0
Not Assessed	1,864,167	537,918	710,104	0	62,549	0
Minimal	284,281	169,470	19,720	0	41,598	0
1% Annual Chance	10,957	9,915	10	0	2,628	0
0.2% Annual Chance	0	0	0	0	0	0
Imperial Borrego Valley	849,955	429,643	60,821	0	42,083	216,041
Not Assessed	98,828	51,499	6,023	0	0	56,116
Minimal	716,191	359,813	53,451	0	40,856	148,429
1% Annual Chance	34,914	18,331	1,346	0	1,228	11,497
0.2% Annual Chance	21	0	0	0	0	0
Kingston and Funeral Mountains	1,184,862	441,327	101,216	0	42,581	217,186
Not Assessed	590,319	196,306	94,272	0	26,050	30,640
Minimal	551,793	222,800	6,871	0	16,531	183,615
1% Annual Chance	42,751	22,220	74	0	0	2,931
0.2% Annual Chance	0	0	0	0	0	0
Mojave and Silurian Valley	1,002,999	148,432	345,545	0	62,644	453,587
Not Assessed	974,232	145,562	329,098	0	60,874	444,139
Minimal	24,378	2,209	15,679	0	1,109	5,059
1% Annual Chance	4,378	662	768	0	662	4,378
0.2% Annual Chance	11	0	0	0	0	11

Table R2.5-76
Alternative 3 – BLM Lands – Mapped 100-year Floodplains that Could be Conserved

Ecoregion Subarea Flood Designations	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trail Management
Owens River Valley	189,098	47,606	12,776	0	7,462	960
Not Assessed	47	0	0	0	0	0
Minimal	187,812	47,603	12,502	0	7,462	960
1% Annual Chance	1,238	3	274	0	0	0
0.2% Annual Chance	0	0	0	0	0	0
Panamint Death Valley	457,137	182,003	114,622	0	79,511	0
Not Assessed	172,821	1,808	62,745	0	5,449	0
Minimal	269,024	166,010	51,541	0	65,422	0
1% Annual Chance	15,293	14,185	335	0	8,640	0
0.2% Annual Chance	0	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	882,997	322,843	169,226	0	1,920	66,376
Not Assessed	848,242	314,591	168,652	0	1,920	65,416
Minimal	34,192	8,240	574	0	0	952
1% Annual Chance	561	12	0	0	0	8
0.2% Annual Chance	1	0	0	0	0	0
Piute Valley and Sacramento Mountains	896,363	391,935	193,477	0	0	54,980
Not Assessed	895,278	391,935	193,477	0	0	54,980
Minimal	741	0	0	0	0	0
1% Annual Chance	344	0	0	0	0	0
0.2% Annual Chance	0	0	0	0	0	0

Table R2.5-76
Alternative 3 – BLM Lands – Mapped 100-year Floodplains that Could be Conserved

Ecoregion Subarea Flood Designations	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trail Management
Providence and Bullion Mountains	1,415,824	588,774	257,926	0	127,407	28,330
Not Assessed	1,351,295	561,743	254,170	0	127,407	28,330
Minimal	62,131	24,746	3,754	0	0	0
1% Annual Chance	2,397	2,285	2	0	0	0
0.2% Annual Chance	0	0	0	0	0	0
West Mojave and Eastern Slopes	878,482	194,061	461,303	13,151	18,807	222,853
Not Assessed	421,884	15,767	335,818	0	2,718	52,252
Minimal	435,827	175,292	121,727	13,103	16,071	169,428
1% Annual Chance	19,762	3,002	3,736	42	18	1,171
0.2% Annual Chance	1,009	0	22	6	0	2
Grand Total	9,917,121	3,463,925	2,446,744	13,151	489,192	1,260,313

SUMMARY: 100-year Floodplains in Conservation on BLM Land, Alternative 3	NLCS	ACEC	Wildlife	Wilderness Characteristics	Trail	Total
Sum of 100-year Floodplain Acreage that Could be Conserved on BLM Lands	70,615	6,545	42	13,174	19,984	110,360
Total 100-year Floodplain Acreage on BLM Lands	132,595	132,595	132,595	132,595	132,595	132,595
Percent of 100-year Floodplains that Could be Conserved on BLM Lands	53.2%	4.9%	0.0%	9.9%	15.1%	83.2%

Table R2.5-77
Alternative 3 – BLM Lands – Linear Surface Water Features Conserved

Ecoregion Subarea	Total Miles	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trail Mgmt	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	8,660	2,802	3,084	0	416	0	6,302	72.8%
Imperial Borrego Valley	1,629	935	75	0	27	352	1,389	85.3%
Kingston and Funeral Mountains	4,851	1,818	603	0	269	800	3,490	71.9%
Mojave and Silurian Valley	3,548	668	844	0	280	1,882	3,674	103.6%
Owens River Valley	834	297	23	0	42	4	366	43.9%
Panamint Death Valley	2,930	1,428	733	0	493	0	2,654	90.6%
Pinto Lucerne Valley and Eastern Slopes	2,500	1,035	489	0	6	225	1,755	70.2%
Piute Valley and Sacramento Mountains	3,941	1,688	726	0	0	297	2,711	68.8%
Providence and Bullion Mountains	4,077	1,610	808	0	351	87	2,856	70.1%
West Mojave and Eastern Slopes	3,348	851	1,697	49	71	802	3,470	103.6%
Grand Total	36,319	13,132	9,081	49	1,956	4,450	28,668	78.9%

Table R2.5-78
Alternative 3 – BLM Lands – Areal Surface Water Features Conserved

Row Labels	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trail Mgmt	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	36,652	12,450	22,398	0	1,710	0	36,558	99.7%
Imperial Borrego Valley	1,493	108	29	0	0	565	702	47.0%
Kingston and Funeral Mountains	21,323	9,039	3,963	0	0	463	13,465	63.1%
Mojave and Silurian Valley	17,589	1,483	8,917	0	1,406	10,214	22,020	125.2%
Owens River Valley	1,056	148	737	0	0	0	885	83.8%
Panamint Death Valley	38,808	11,889	29	0	8,944	0	20,862	53.8%
Pinto Lucerne Valley and Eastern Slopes	5,893	87	353	0	0	93	533	9.0%
Piute Valley and Sacramento Mountains	11	2	3	0	0	0	5	45.5%
Providence and Bullion Mountains	38,894	2,458	13,745	0	1,131	0	17,334	44.6%
West Mojave and Eastern Slopes	20,199	10	3,779	3	1	22	3,815	18.9%
Grand Total	181,917	37,673	53,952	3	13,192	11,357	116,177	63.9%

Table R2.5-79
Alternative 3 – GCP Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains	462,515	12,391	280	0	1,475
Not Assessed	388,549	12,384	279	0	1,475
Minimal	66,605	7	0	0	0
1% Annual Chance	7,360	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	1,260,374	32,309	98	9,896	4,897
Not Assessed	298,701	92	0	37	54
Minimal	774,772	28,410	98	8,332	4,116
1% Annual Chance	185,811	3,801	0	1,525	725
0.2% Annual Chance	1,090	7	0	3	2
Kingston and Funeral Mountains	149,125	0	0	0	0
Not Assessed	79,758	0	0	0	0
Minimal	61,239	0	0	0	0
1% Annual Chance	8,128	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	244,079	3,391	0	0	1,336
Not Assessed	227,769	3,344	0	0	1,316
Minimal	12,120	47	0	0	20
1% Annual Chance	3,913	0	0	0	0
0.2% Annual Chance	277	0	0	0	0

Table R2.5-79
Alternative 3 – GCP Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Owens River Valley	224,169	1,116	0	0	76
Not Assessed	294	0	0	0	0
Minimal	147,458	1,049	0	0	67
1% Annual Chance	76,416	67	0	0	9
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	59,027	439	0	0	0
Not Assessed	24,841	348	0	0	0
Minimal	29,967	78	0	0	0
1% Annual Chance	4,219	13	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	568,474	9,468	1,124	0	2,459
Not Assessed	464,141	9,068	1,073	0	2,345
Minimal	89,195	279	36	0	105
1% Annual Chance	14,412	122	16	0	9
0.2% Annual Chance	726	0	0	0	0
Piute Valley and Sacramento Mountains	137,216	0	0	0	0
Not Assessed	129,859	0	0	0	0
Minimal	4,186	0	0	0	0
1% Annual Chance	2,747	0	0	0	0
0.2% Annual Chance	424	0	0	0	0

Table R2.5-79
Alternative 3 – GCP Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Providence and Bullion Mountains	273,937	1,077	0	0	121
Not Assessed	256,487	1,077	0	0	121
Minimal	15,377	0	0	0	0
1% Annual Chance	2,073	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
West Mojave and Eastern Slopes	2,206,560	37,101	2,159	0	6,476
Not Assessed	516,326	7,955	619	0	1,855
Minimal	1,359,910	20,364	1,035	0	3,422
1% Annual Chance	219,048	5,413	269	0	473
0.2% Annual Chance	111,276	3,369	236	0	727
Grand Total	5,585,475	97,293	3,661	9,896	16,841

SUMMARY: 100-year Floodplains on GCP Lands in DFAs, Alternative 3	Solar	Wind	Geothermal	Transmission	Total
Sum of 100-year Floodplain Acreage that Could be Developed on GCP Lands	9,416	285	1,525	1,216	12,441
Total 100-year Floodplain Acreage on GCP Lands	524,128	524,128	524,128	524,128	524,128
Percent of 100-year Floodplains that Could be Developed on GCP Lands	1.8%	0.1%	0.3%	0.2%	2.4%
Area of 100-year Floodplains in GCP DFA	9,416	285	1,525	1,216	12,441

Table R2.5-80
Alternative 3 – GCP Lands – Linear Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	2,020	50	1	0	5	56	2.8%
Imperial Borrego Valley	5,073	167	1	48	22	237	4.7%
Kingston and Funeral Mountains	534	0	0	0	0	0	0.0%
Mojave and Silurian Valley	502	1	0	0	1	2	0.4%
Owens River Valley	612	4	0	0	0	4	0.7%
Panamint Death Valley	320	2	0	0	0	2	0.6%
Pinto Lucerne Valley and Eastern Slopes	1,463	22	3	0	5	29	2.0%
Piute Valley and Sacramento Mountains	609	0	0	0	0	0	0.0%
Providence and Bullion Mountains	807	1	0	0	0	1	0.2%
West Mojave and Eastern Slopes	6,135	61	4	0	13	77	1.3%
Grand Total	18,075	307	8	48	45	408	2.3%

Table R2.5-81
Alternative 3 – GCP Lands – Areal Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Acres	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	15,194	28	1	0	32	60	0.4%
Imperial Borrego Valley	118,026	2,549	0	1,018	324	3,891	3.3%
Kingston and Funeral Mountains	1,273	0	0	0	0	0	0.0%
Mojave and Silurian Valley	3,459	14	0	0	9	22	0.7%
Owens River Valley	49,207	14	0	0	6	20	0.0%
Panamint Death Valley	9,572	235	0	0	0	235	2.5%
Pinto Lucerne Valley and Eastern Slopes	5,537	192	21	0	35	248	4.5%
Piute Valley and Sacramento Mountains	5,259	0	0	0	0	0	0.0%
Providence and Bullion Mountains	9,408	130	0	0	7	136	1.5%
West Mojave and Eastern Slopes	9,989	25	1	0	1	27	0.3%
Grand Total	226,923	3,185	23	1,018	413	4,639	2.0%

Table R2.5-82
Alternative 3 – GCP Lands – Mapped 100-year Floodplains that Could be Conserved

Ecoregion Subarea Flood Designations	Total Acres	Existing Conservation	Conservation Planning Areas	Percent Conserved
Cadiz Valley and Chocolate Mountains	462,515	4,084	26,515	6.6%
Not Assessed	388,549	3,763	24,122	7.2%
Minimal	66,605	163	1,935	3.2%
1% Annual Chance	7,360	159	458	8.4%
0.2% Annual Chance	0	0	0	
Imperial Borrego Valley	1,260,374	261,467	22,339	22.5%
Not Assessed	298,701	184,766	2,610	62.7%
Minimal	774,772	67,728	7,213	9.7%
1% Annual Chance	185,811	8,949	12,516	11.6%
0.2% Annual Chance	1,090	25	0	2.3%
Kingston and Funeral Mountains	149,125	11,788	38,457	26.6%
Not Assessed	79,758	8,023	20,329	35.5%
Minimal	61,239	3,734	17,308	34.4%
1% Annual Chance	8,128	31	820	10.5%
0.2% Annual Chance	0	0	0	
Mojave and Silurian Valley	244,079	11,469	25,863	15.3%
Not Assessed	227,769	9,642	22,870	14.3%
Minimal	12,120	952	2,109	25.3%
1% Annual Chance	3,913	875	883	44.9%
0.2% Annual Chance	277	0	1	0.3%

Table R2.5-82
Alternative 3 – GCP Lands – Mapped 100-year Floodplains that Could be Conserved

Ecoregion Subarea Flood Designations	Total Acres	Existing Conservation	Conservation Planning Areas	Percent Conserved
Owens River Valley	224,169	227	57,728	25.9%
Not Assessed	294	0	15	5.2%
Minimal	147,458	227	49,751	33.9%
1% Annual Chance	76,416	0	7,962	10.4%
0.2% Annual Chance	0	0	0	
Panamint Death Valley	59,027	12,396	6,904	32.7%
Not Assessed	24,841	5,027	3,426	34.0%
Minimal	29,967	6,000	3,207	30.7%
1% Annual Chance	4,219	1,369	271	38.9%
0.2% Annual Chance	0	0	0	
Pinto Lucerne Valley and Eastern Slopes	568,474	25,144	36,481	10.8%
Not Assessed	464,141	25,143	28,123	11.5%
Minimal	89,195	2	7,633	8.6%
1% Annual Chance	14,412	0	700	4.9%
0.2% Annual Chance	726	0	25	3.4%
Piute Valley and Sacramento Mountains	137,216	3,043	15,347	13.4%
Not Assessed	129,859	3,043	14,269	13.3%
Minimal	4,186	0	501	12.0%
1% Annual Chance	2,747	0	533	19.4%
0.2% Annual Chance	424	0	45	10.5%

Table R2.5-82
Alternative 3 – GCP Lands – Mapped 100-year Floodplains that Could be Conserved

Ecoregion Subarea Flood Designations	Total Acres	Existing Conservation	Conservation Planning Areas	Percent Conserved
Providence and Bullion Mountains	273,937	21,355	57,717	28.9%
Not Assessed	256,487	21,130	56,389	30.2%
Minimal	15,377	226	1,321	10.1%
1% Annual Chance	2,073	0	7	0.3%
0.2% Annual Chance	0	0	0	
West Mojave and Eastern Slopes	2,206,560	61,181	318,325	17.2%
Not Assessed	516,326	9,231	37,112	8.98%
Minimal	1,359,910	49,792	247,674	21.9%
1% Annual Chance	219,048	2,084	25,873	12.8%
0.2% Annual Chance	111,276	74	7,666	7.0%
Grand Total	5,585,475	412,156	605,676	18.2%

SUMMARY: 100-year Floodplains Conserved on GCP Lands, Alternative 3	Existing Conservation	Conservation Planning	Total
Sum of 100-year Floodplain Acreage that Could be Conserved on GCP Lands	13,467	50,022	63,489
Total 100-year Floodplain Acreage in GCP Reserve	524,128	524,128	524,128
Percent of Total 100-year Floodplains that Could be Conserved	2.6%	9.5%	12.1%

Table R2.5-83
Alternative 3 – GCP Lands – Linear Surface Water Features Conserved

Ecoregion Subarea	Total Miles	Existing Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	2,020	16	70	86	4.3%
Imperial Borrego Valley	5,073	833	46	879	17.3%
Kingston and Funeral Mountains	534	39	58	97	18.2%
Mojave and Silurian Valley	502	37	42	79	15.7%
Owens River Valley	612	0	102	102	16.7%
Panamint Death Valley	320	62	17	79	24.7%
Pinto Lucerne Valley and Eastern Slopes	1,463	99	62	161	11.0%
Piute Valley and Sacramento Mountains	609	13	33	46	7.6%
Providence and Bullion Mountains	807	88	82	170	21.1%
West Mojave and Eastern Slopes	6,135	265	707	972	15.8%
Grand Total	18,075	1,451	1,219	2,670	14.8%

Table R2.5-84
Alternative 3 – GCP Lands – Areal Surface Water Features Conserved

Ecoregion Subarea	Total Acres	Existing Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	15,194	52	205	257	1.7%
Imperial Borrego Valley	118,026	6,482	12,811	19,293	16.3%
Kingston and Funeral Mountains	1,273	16	27	43	3.4%
Mojave and Silurian Valley	3,459	112	289	401	11.6%
Owens River Valley	49,207	119	3,601	3,720	7.6%
Panamint Death Valley	9,572	677	341	1,018	10.6%
Pinto Lucerne Valley and Eastern Slopes	5,537	11	184	195	3.5%
Piute Valley and Sacramento Mountains	5,259	0	570	570	10.8%
Providence and Bullion Mountains	9,408	1	855	856	9.1%
West Mojave and Eastern Slopes	9,989	276	530	806	8.1%
Grand Total	226,923	7,746	19,412	27,158	12.0%

R2.5.6 Alternative 4

**Table R2.5-85
Alternative 4 – Plan Area – Mapped 100-year Floodplains Potentially Affected by Development**

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains	3,063,647	38,254	2,529	0	3,672
Not Assessed	2,667,638	38,248	2,529	0	3,672
Minimal	374,347	6	0	0	0
1% Annual Chance	21,661	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	2,399,945	31,044	101	15,933	6,177
Not Assessed	544,445	83	0	104	183
Minimal	1,544,422	25,789	101	13,309	4,925
1% Annual Chance	309,965	5,166	0	2,517	1,067
0.2% Annual Chance	1,113	6	0	3	2
Kingston and Funeral Mountains	2,470,534	603	0	0	0
Not Assessed	1,265,823	0	0	0	0
Minimal	1,148,556	548	0	0	0
1% Annual Chance	56,155	56	0	0	0
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	2,644,097	2,865	0	0	3,637
Not Assessed	2,583,278	2,825	0	0	3,618
Minimal	41,331	40	0	0	19
1% Annual Chance	19,201	0	0	0	0
0.2% Annual Chance	288	0	0	0	0

Table R2.5-85
Alternative 4 – Plan Area – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Owens River Valley	417,603	1,753	0	1,233	4
Not Assessed	342	0	0	0	0
Minimal	339,607	1,632	0	1,137	4
1% Annual Chance	77,655	121	0	96	0
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	1,937,498	843	0	0	0
Not Assessed	604,076	747	0	0	0
Minimal	1,200,594	96	0	0	0
1% Annual Chance	132,828	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	2,318,717	6,391	1,291	0	5,072
Not Assessed	2,178,741	6,089	1,231	0	5,028
Minimal	123,386	213	45	0	44
1% Annual Chance	15,856	89	16	0	0
0.2% Annual Chance	734	0	0	0	0
Piute Valley and Sacramento Mountains	1,091,951	0	0	0	0
Not Assessed	1,080,489	0	0	0	0
Minimal	7,162	0	0	0	0
1% Annual Chance	3,876	0	0	0	0
0.2% Annual Chance	424	0	0	0	0

Table R2.5-85
Alternative 4 – Plan Area – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designations	Total Acres	Solar	Wind	GT	Transmission
Providence and Bullion Mountains	2,615,216	1,082	0	0	25
Not Assessed	2,533,237	1,082	0	0	25
Minimal	77,509	0	0	0	0
1% Annual Chance	4,470	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
West Mojave and Eastern Slopes	3,626,946	40,520	2,944	0	8,560
Not Assessed	1,369,232	7,546	672	0	2,655
Minimal	1,903,389	22,938	1,619	0	4,513
1% Annual Chance	241,730	6,978	496	0	670
0.2% Annual Chance	112,595	3,058	157	0	722
Grand Total	22,586,154	123,356	6,865	17,165	27,147

SUMMARY: 100-year Floodplains in DFAs, Alternative 4	Solar	Wind	Geothermal	Transmission	Total
Sum of 100-year Floodplain Acreage that Could be Developed in Plan Area	12,410	513	2,613	1,737	17,273
Total 100-year Floodplain Acreage in Plan Area	883,396	883,396	883,396	883,396	883,396
Percent of 100-year Floodplains that Could be Developed in Plan Area	1.4%	0.1%	0.3%	0.2%	2.0%

Table R2.5-86
Alternative 4 – Plan Area – Linear Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	12,081	99	6	0	10	115	1.0%
Imperial Borrego Valley	7,308	145	1	58	23	227	3.1%
Kingston and Funeral Mountains	9,727	1	0	0	0	1	0.0%
Mojave and Silurian Valley	8,534	1	0	0	7	8	0.1%
Owens River Valley	1,493	11	0	11	0	21	1.4%
Panamint Death Valley	10,089	7	0	0	0	7	0.1%
Pinto Lucerne Valley and Eastern Slopes	6,297	16	3	0	11	31	0.5%
Piute Valley and Sacramento Mountains	4,818	0	0	0	0	0	0.0%
Providence and Bullion Mountains	7,933	1	0	0	0	1	0.0%
West Mojave and Eastern Slopes	11,275	81	7	0	19	107	1.0%
Grand Total	79,556	361	17	69	72	519	0.7%

Table R2.5-87
Alternative 4 – Plan Area – Areal Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Acres	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	55,078	971	77	0	47	1,095	2.0%
Imperial Borrego Valley	208,021	4,035	0	1,932	643	6,611	3.2%
Kingston and Funeral Mountains	22,685	0	0	0	0	0	0.0%
Mojave and Silurian Valley	46,254	12	0	0	12	24	0.1%
Owens River Valley	50,264	17	0	8	0	25	0.1%
Panamint Death Valley	123,646	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	15,638	110	21	0	32	163	1.0%
Piute Valley and Sacramento Mountains	7,045	0	0	0	0	0	0.0%
Providence and Bullion Mountains	54,670	113	0	0	2	114	0.2%
West Mojave and Eastern Slopes	86,308	1,293	103	0	32	1,429	1.7%
Grand Total	669,610	6,551	201	1,940	768	9,461	1.4%

Table R2.5-88
Alternative 4 – Mapped 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Percent Conserved
Cadiz Valley and Chocolate Mountains	799,988	1,114,613	40,332	63.8%
Not Assessed	700,021	892,220	37,729	61.1%
Minimal	98,008	210,053	1,957	82.8%
1% Annual Chance	1,960	12,340	646	69.0%
0.2% Annual Chance	0	0	0	
Imperial Borrego Valley	336,836	336,080	35,360	29.5%
Not Assessed	197,762	65,298	2,996	48.9%
Minimal	109,957	260,674	10,024	24.7%
1% Annual Chance	29,092	10,108	22,340	19.9%
0.2% Annual Chance	25	0	0	2.2%
Kingston and Funeral Mountains	1,678,614	456,882	40,976	88.1%
Not Assessed	848,110	214,646	24,557	85.9%
Minimal	808,203	222,679	15,802	91.1%
1% Annual Chance	22,301	19,557	616	75.6%
0.2% Annual Chance	0	0	0	
Mojave and Silurian Valley	747,003	445,981	27,886	46.2%
Not Assessed	726,529	428,992	24,703	45.7%
Minimal	6,526	16,217	2,227	60.4%
1% Annual Chance	13,948	772	955	81.6%
0.2% Annual Chance	0	0	1	0.3%

Table R2.5-88
Alternative 4 – Mapped 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Percent Conserved
Owens River Valley	30,131	98,168	59,397	44.9%
Not Assessed	0	0	15	4.5%
Minimal	30,131	85,112	51,420	49.1%
1% Annual Chance	0	13,056	7,962	27.1%
0.2% Annual Chance	0	0	0	
Panamint Death Valley	1,189,923	288,888	7,851	76.7%
Not Assessed	204,846	59,459	4,162	44.4%
Minimal	876,158	215,446	3,392	91.2%
1% Annual Chance	108,918	13,983	297	92.7%
0.2% Annual Chance	0	0	0	
Pinto Lucerne Valley and Eastern Slopes	701,984	466,825	36,835	52.0%
Not Assessed	692,996	453,698	28,477	53.9%
Minimal	8,146	12,881	7,633	23.2%
1% Annual Chance	836	107	700	10.4%
0.2% Annual Chance	6	139	25	23.2%
Piute Valley and Sacramento Mountains	401,549	420,934	15,349	76.7%
Not Assessed	401,549	420,934	14,270	77.4%
Minimal	0	0	501	7.0%
1% Annual Chance	0	0	533	13.7%
0.2% Annual Chance	0	0	45	10.5%

Table R2.5-88
Alternative 4 – Mapped 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Percent Conserved
Providence and Bullion Mountains	1,239,329	705,618	64,465	76.8%
Not Assessed	1,206,352	673,410	63,137	76.7%
Minimal	32,976	30,113	1,321	83.1%
1% Annual Chance	0	2,095	7	47.0%
0.2% Annual Chance	0	0	0	
West Mojave and Eastern Slopes	154,085	998,807	280,555	39.5%
Not Assessed	40,801	506,444	32,357	42.3%
Minimal	110,400	483,709	216,680	42.6%
1% Annual Chance	2,811	8,115	23,944	14.4%
0.2% Annual Chance	74	539	7,574	7.3%
Grand Total	7,279,441	5,332,796	609,006	58.5%

SUMMARY: 100-year Floodplains Conserved, Alternative 4	Existing Conservation	BLM LUPA Conservation	Conservation Planning	Total
Sum of 100-year Floodplain Acreage that Could be Conserved in Plan Area	179,865	80,133	57,998	317,996
Total 100-year Floodplain Acreage in Plan Area	883,396	883,396	883,396	883,396
Percent of 100-year Floodplain Acreage that Could be Conserved in Plan Area	20.4%	9.1%	6.6%	36.0%

Table R2.5-89
Alternative 4 – Plan Area – Linear Surface Water Features Conserved

Ecoregion Subarea	Total Miles	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	12,081	3,100	3,961	144	7,205	59.6%
Imperial Borrego Valley	7,308	978	451	71	1,500	20.5%
Kingston and Funeral Mountains	9,727	6,276	1,935	64	8,275	85.1%
Mojave and Silurian Valley	8,534	2,593	1,042	47	3,682	43.1%
Owens River Valley	1,493	136	326	106	568	38.0%
Panamint Death Valley	10,089	5,471	2,051	17	7,539	74.7%
Pinto Lucerne Valley and Eastern Slopes	6,297	2,331	1,178	63	3,572	56.7%
Piute Valley and Sacramento Mountains	4,818	1,727	1,651	33	3,411	70.8%
Providence and Bullion Mountains	7,933	4,480	1,736	89	6,305	79.5%
West Mojave and Eastern Slopes	11,275	537	3,012	659	4,208	37.3%
Grand Total	79,556	27,630	17,344	1,293	46,267	58.2%

Table R2.5-90
Alternative 4 – Plan Area – Areal Surface Water Features Conserved

Ecoregion Subarea	Total Acres	Existing Conservation	BLM LUPA Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	55,078	929	30,121	254	31,304	56.8%
Imperial Borrego Valley	208,021	26,028	176	22,626	48,830	23.5%
Kingston and Funeral Mountains	22,685	4,389	12,314	27	16,730	73.7%
Mojave and Silurian Valley	46,254	23,408	6,978	329	30,715	66.4%
Owens River Valley	50,264	127	8,027	3,601	11,755	23.4%
Panamint Death Valley	123,646	71,953	11,550	457	83,960	67.9%
Pinto Lucerne Valley and Eastern Slopes	15,638	324	383	184	891	5.7%
Piute Valley and Sacramento Mountains	7,045	288	2	570	860	12.2%
Providence and Bullion Mountains	54,670	1,124	15,400	883	17,407	31.8%
West Mojave and Eastern Slopes	86,308	812	4,133	529	5,474	6.3%
Grand Total	669,610	129,383	89,085	29,458	247,926	37.0%

Table R2.5-91
Alternative 4 – BLM Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designation	Total Acres	Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains	2,159,110	27,436	2,208	0	2,206
Not Assessed	1,863,871	27,436	2,208	0	2,206
Minimal	284,281	0	0	0	0
1% Annual Chance	10,957	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	849,955	1,569	0	4,265	1,181
Not Assessed	98,828	0	0	64	140
Minimal	716,192	1,569	0	4,167	993
1% Annual Chance	34,914	0	0	34	49
0.2% Annual Chance	21	0	0	0	0
Kingston and Funeral Mountains	1,184,862	0	0	0	0
Not Assessed	590,319	0	0	0	0
Minimal	551,793	0	0	0	0
1% Annual Chance	42,751	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	1,002,999	0	0	0	1,576
Not Assessed	974,232	0	0	0	1,574
Minimal	24,378	0	0	0	1
1% Annual Chance	4,378	0	0	0	0
0.2% Annual Chance	11	0	0	0	0

Table R2.5-91
Alternative 4 – BLM Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designation	Total Acres	Solar	Wind	GT	Transmission
Owens River Valley	189,098	819	0	1,130	3
Not Assessed	47	0	0	0	0
Minimal	187,812	754	0	1,041	3
1% Annual Chance	1,238	65	0	90	0
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	457,137	628	0	0	0
Not Assessed	172,821	628	0	0	0
Minimal	269,024	0	0	0	0
1% Annual Chance	15,293	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	882,997	208	169	0	2,139
Not Assessed	848,243	199	161	0	2,138
Minimal	34,192	9	7	0	2
1% Annual Chance	561	0	0	0	0
0.2% Annual Chance	1	0	0	0	0
Piute Valley and Sacramento Mountains	896,363	0	0	0	0
Not Assessed	895,278	0	0	0	0
Minimal	741	0	0	0	0
1% Annual Chance	344	0	0	0	0
0.2% Annual Chance	0	0	0	0	0

Table R2.5-91
Alternative 4 – BLM Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designation	Total Acres	Solar	Wind	GT	Transmission
Providence and Bullion Mountains	1,415,824	155	0	0	14
Not Assessed	1,351,295	155	0	0	14
Minimal	62,131	0	0	0	0
1% Annual Chance	2,397	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
West Mojave and Eastern Slopes	878,482	2,523	190	0	1,023
Not Assessed	421,884	117	0	0	253
Minimal	435,827	1,423	111	0	710
1% Annual Chance	19,762	983	79	0	53
0.2% Annual Chance	1,009	0	0	0	7
Grand Total	9,916,826	33,339	2,567	5,396	8,141

SUMMARY: 100-year Floodplains in DFAs, Alternative 5	Solar	Wind	Geothermal	Transmission	Total
100-year Floodplains on BLM within DFA	1,048	79	124	101	1,352
100-year Floodplains within DFA	883,396	883,396	883,396	883,396	883,396
Percent of BLM Floodplains within DFA Floodplains	0.1%	0.0%	0.0%	0.0%	0.2%

Table R2.5-92
Alternative 4 – BLM Lands – Linear Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	8,660	55	4	0	6	65	0.8%
Imperial Borrego Valley	1,629	0	0	3	2	5	0.3%
Kingston and Funeral Mountains	4,851	0	0	0	0	0	0.0%
Mojave and Silurian Valley	3,548	0	0	0	4	4	0.1%
Owens River Valley	834	8	0	11	0	18	2.2%
Panamint Death Valley	2,930	5	0	0	0	5	0.2%
Pinto Lucerne Valley and Eastern Slopes	2,500	1	0	0	5	6	0.2%
Piute Valley and Sacramento Mountains	3,941	0	0	0	0	0	0.0%
Providence and Bullion Mountains	4,077	0	0	0	0	0	0.0%
West Mojave and Eastern Slopes	3,338	10	1	0	4	14	0.4%
Grand Total	36,309	78	6	14	21	119	0.3%

Table R2.5-93
Alternative 4 – BLM Lands – Areal Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Acres	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	36,652	947	76	0	15	1,038	2.8%
Imperial Borrego Valley	1,493	0	0	0	2	2	0.2%
Kingston and Funeral Mountains	21,323	0	0	0	0	0	0.0%
Mojave and Silurian Valley	17,589	0	0	0	2	2	0.0%
Owens River Valley	1,056	5	0	7	0	12	1.2%
Panamint Death Valley	38,808	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	5,893	1	1	0	11	13	0.2%
Piute Valley and Sacramento Mountains	11	0	0	0	0	0	0.0%
Providence and Bullion Mountains	38,894	1	0	0	1	2	0.0%
West Mojave and Eastern Slopes	20,199	1,274	102	0	23	1,400	6.9%
Grand Total	181,917	2,229	179	7	54	2,470	1.4%

Table R2.5-94
Alternative 4 – BLM Lands – Mapped 100-year Floodplains Conserved

Ecoregion Subarea Flood Designation	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trails Management
Cadiz Valley and Chocolate Mountains	2,159,110	576,437	398,324	215,527	106,775	0
Not Assessed	1,863,871	414,487	378,868	214,528	62,549	0
Minimal	284,281	153,206	18,606	958	41,598	0
1% Annual Chance	10,957	8,744	850	41	2,628	0
0.2% Annual Chance	0	0	0	0	0	0
Imperial Borrego Valley	849,955	259,812	86,335	0	42,083	43,791
Not Assessed	98,828	49,787	7,828	0	0	12,753
Minimal	716,192	201,317	77,030	0	40,856	28,394
1% Annual Chance	34,914	8,708	1,477	0	1,228	2,644
0.2% Annual Chance	21	0	0	0	0	0
Kingston and Funeral Mountains	1,184,862	349,752	142,155	0	42,581	53,122
Not Assessed	590,319	106,295	135,211	0	26,050	2,736
Minimal	551,793	221,237	6,871	0	16,531	49,921
1% Annual Chance	42,751	22,220	74	0	0	465
0.2% Annual Chance	0	0	0	0	0	0
Mojave and Silurian Valley	1,002,999	110,247	300,628	0	62,644	90,211
Not Assessed	974,232	110,056	284,165	0	60,874	83,136
Minimal	24,378	192	15,695	0	1,109	3,396
1% Annual Chance	4,378	0	768	0	662	3,668
0.2% Annual Chance	11	0	0	0	0	11

Table R2.5-94
Alternative 4 – BLM Lands – Mapped 100-year Floodplains Conserved

Ecoregion Subarea Flood Designation	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trails Management
Owens River Valley	189,098	32,712	17,194	0	7,462	0
Not Assessed	47	0	0	0	0	0
Minimal	187,812	32,709	16,921	0	7,462	0
1% Annual Chance	1,238	3	274	0	0	0
0.2% Annual Chance	0	0	0	0	0	0
Panamint Death Valley	457,137	186,061	109,652	0	79,511	0
Not Assessed	172,821	5,866	58,625	0	5,449	0
Minimal	269,024	166,010	50,692	0	65,422	0
1% Annual Chance	15,293	14,185	335	0	8,640	0
0.2% Annual Chance	0	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	882,997	282,242	169,795	62	1,920	6,965
Not Assessed	848,243	281,088	169,255	62	1,920	6,521
Minimal	34,192	1,142	540	0	0	444
1% Annual Chance	561	12	0	0	0	0
0.2% Annual Chance	1	0	0	0	0	0
Piute Valley and Sacramento Mountains	896,363	317,974	264,387	0	0	14,219
Not Assessed	895,278	317,974	264,387	0	0	14,219
Minimal	741	0	0	0	0	0
1% Annual Chance	344	0	0	0	0	0
0.2% Annual Chance	0	0	0	0	0	0

**Table R2.5-94
Alternative 4 – BLM Lands – Mapped 100-year Floodplains Conserved**

Ecoregion Subarea Flood Designation	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trails Management
Providence and Bullion Mountains	1,415,824	406,161	334,243	41,660	127,407	2,126
Not Assessed	1,351,295	383,681	330,676	41,660	127,407	2,126
Minimal	62,131	20,638	3,564	0	0	0
1% Annual Chance	2,397	1,843	2	0	0	0
0.2% Annual Chance	0	0	0	0	0	0
West Mojave and Eastern Slopes	878,482	167,097	475,703	18,457	18,807	43,046
Not Assessed	421,884	16,627	328,092	0	2,718	2,929
Minimal	435,827	147,912	143,448	18,423	16,071	39,991
1% Annual Chance	19,762	2,557	4,145	30	18	126
0.2% Annual Chance	1,009	0	18	5	0	0
Grand Total	9,916,826	2,688,495	2,298,418	275,706	489,192	253,480

SUMMARY: 100-year Floodplains Conserved on BLM Land, Alternative 4	NLCS	ACEC	Wilderness Characteristics	Wildlife Allocations	Trail Mgmt	Total
Subtotal in 100-year Floodplain	58,272	7,925	13,176	71	6,903	86,347
Total 100-year Floodplains in BLM Reserve	132,595	132,595	132,595	132,595	132,595	132,595
Percent of 100-year Floodplains in BLM Ownership Floodplain	43.95%	6.0%	9.9%	0.0%	5.2%	65.1%

**Table R2.5-95
Alternative 4 – BLM Lands – Linear Surface Water Features Conserved**

Ecoregion Subarea	Total Miles	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trail Mgmt	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	8,660	2,405	1,579	635	416	0	5,036	58.16%
Imperial Borrego Valley	1,629	365	91	0	27	67	640	39.30%
Kingston and Funeral Mountains	4,851	1,370	802	0	269	205	2,664	54.91%
Mojave and Silurian Valley	3,548	333	786	0	280	389	1,936	54.57%
Owens River Valley	834	172	129	0	42	0	383	45.90%
Panamint Death Valley	2,930	1,476	679	0	493	0	2,948	100.62%
Pinto Lucerne Valley and Eastern Slopes	2,500	898	490	0	6	27	1,931	77.22%
Piute Valley and Sacramento Mountains	3,941	1,364	1,029	0	0	85	2,606	66.14%
Providence and Bullion Mountains	4,077	1,180	1,043	78	351	6	2,658	65.18%
West Mojave and Eastern Slopes	3,338	735	1,768	66	71	146	3,087	92.46%
Grand Total	36,309	10,299	8,396	779	1,956	925	23,889	65.79%

Table R2.5-96
Alternative 4 – BLM Lands – Areal Surface Water Features Conserved

Ecoregion Subarea	Total Acres	NLCS	ACEC	Wildlife Allocation	Wilderness Characteristics	Trail Mgmt	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	36,652	6,558	49	22,396	1,710	0	30,713	83.8%
Imperial Borrego Valley	1,493	61	50	0	0	34	787	52.7%
Kingston and Funeral Mountains	21,323	9,038	3,965	0	0	112	13,115	61.5%
Mojave and Silurian Valley	17,589	158	8,855	0	1,406	5,660	16,130	91.7%
Owens River Valley	1,056	156	107	0	0	0	263	25.0%
Panamint Death Valley	38,808	11,889	29	0	8,944	0	20,862	53.8%
Pinto Lucerne Valley and Eastern Slopes	5,893	57	94	0	0	23	3,312	56.2%
Piute Valley and Sacramento Mountains	11	2	0	0	0	0	2	20.0%
Providence and Bullion Mountains	38,894	1,783	0	13,745	1,131	0	16,659	42.8%
West Mojave and Eastern Slopes	20,199	7	3,782	3	1	5	10,388	51.4%
Grand Total	181,917	29,709	16,930	36,144	13,192	5,835	112,231	61.7%

Table R2.5-97
Alternative 4 – GCP Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designation	Total Acres	Solar	Wind	GT	Transmission
Cadiz Valley and Chocolate Mountains	462,475	10,818	320	0	1,466
Not Assessed	388,510	10,812	320	0	1,466
Minimal	66,605	6	0	0	0
1% Annual Chance	7,360	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Imperial Borrego Valley	1,260,374	27,747	101	10,840	4,695
Not Assessed	298,701	83	0	40	43
Minimal	774,772	24,220	101	9,142	3,897
1% Annual Chance	185,811	3,438	0	1,655	753
0.2% Annual Chance	1,090	6	0	3	2
Kingston and Funeral Mountains	149,125	603	0	0	0
Not Assessed	79,758	0	0	0	0
Minimal	61,239	548	0	0	0
1% Annual Chance	8,128	56	0	0	0
0.2% Annual Chance	0	0	0	0	0
Mojave and Silurian Valley	244,079	2,865	0	0	1,560
Not Assessed	227,769	2,825	0	0	1,543
Minimal	12,120	40	0	0	17
1% Annual Chance	3,913	0	0	0	0
0.2% Annual Chance	277	0	0	0	0

Table R2.5-97
Alternative 4 – GCP Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designation	Total Acres	Solar	Wind	GT	Transmission
Owens River Valley	224,169	934	0	102	1
Not Assessed	294	0	0	0	0
Minimal	147,458	878	0	96	1
1% Annual Chance	76,416	56	0	6	0
0.2% Annual Chance	0	0	0	0	0
Panamint Death Valley	59,027	215	0	0	0
Not Assessed	24,841	119	0	0	0
Minimal	29,967	96	0	0	0
1% Annual Chance	4,219	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
Pinto Lucerne Valley and Eastern Slopes	568,474	6,183	1,123	0	2,894
Not Assessed	464,141	5,890	1,070	0	2,852
Minimal	89,195	204	37	0	42
1% Annual Chance	14,412	89	16	0	0
0.2% Annual Chance	726	0	0	0	0
Piute Valley and Sacramento Mountains	137,216	0	0	0	0
Not Assessed	129,859	0	0	0	0
Minimal	4,186	0	0	0	0
1% Annual Chance	2,747	0	0	0	0
0.2% Annual Chance	424	0	0	0	0

Table R2.5-97
Alternative 4 – GCP Lands – Mapped 100-year Floodplains Potentially Affected by Development

Ecoregion Subarea Flood Designation	Total Acres	Solar	Wind	GT	Transmission
Providence and Bullion Mountains	273,937	927	0	0	11
Not Assessed	256,487	927	0	0	11
Minimal	15,377	0	0	0	0
1% Annual Chance	2,073	0	0	0	0
0.2% Annual Chance	0	0	0	0	0
West Mojave and Eastern Slopes	2,206,560	37,997	2,754	0	7,377
Not Assessed	516,326	7,429	672	0	2,316
Minimal	1,359,910	21,516	1,508	0	3,731
1% Annual Chance	219,048	5,995	418	0	614
0.2% Annual Chance	111,276	3,058	157	0	715
Grand Total	5,585,436	88,290	4,298	10,942	18,004

SUMMARY: 100-year Floodplains in DFAs on GCP Lands, Alternative 4	Solar	Wind	Geothermal	Transmission	Total
Sum of 100-year Floodplain Acreage that Could be Developed on GCP Lands	9,635	434	1,661	1,367	13,098
Total 100-year Floodplain Acreage on GCP Lands	524,128	524,128	524,128	524,128	524,128
Percent of 100-year Floodplains that Could be Developed on GCP Lands	1.8%	0.1%	0.3%	0.3%	2.5%
Acres of 100-year Floodplains in GCP DFA	9,635	434	1,661	1,367	13,098
DFA Acreage	1,608,230	1,608,230	1,608,230	1,608,230	1,608,230

Percent of GCP Development in Total DFA Floodplain	0.6%	0.0%	0.1%	0.1%	0.8%
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Table R2.5-98
Alternative 4 – GCP Lands – Linear Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Miles	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	2,020	44	1	0	5	50	2.5%
Imperial Borrego Valley	5,073	142	1	53	21	217	4.3%
Kingston and Funeral Mountains	534	1	0	0	0	1	0.1%
Mojave and Silurian Valley	502	1	0	0	1	2	0.5%
Owens River Valley	612	3	0	0	0	3	0.5%
Panamint Death Valley	320	2	0	0	0	2	0.5%
Pinto Lucerne Valley and Eastern Slopes	1,463	15	3	0	6	25	1.7%
Piute Valley and Sacramento Mountains	609	0	0	0	0	0	0.0%
Providence and Bullion Mountains	807	1	0	0	0	1	0.1%
West Mojave and Eastern Slopes	6,134	71	7	0	15	93	1.5%
Grand Total	18,074	280	11	53	49	393	2.2%

Table R2.5-99
Alternative 4 – GCP Lands – Areal Surface Water Features Potentially Affected by Development

Ecoregion Subarea	Total Acres	Solar	Wind	GT	Transmission	Subtotal	Percent Developed
Cadiz Valley and Chocolate Mountains	15,194	24	1	0	32	57	0.4%
Imperial Borrego Valley	118,026	2,308	0	1,104	376	3,788	3.2%
Kingston and Funeral Mountains	1,273	0	0	0	0	0	0.0%
Mojave and Silurian Valley	3,459	12	0	0	8	20	0.6%
Owens River Valley	49,207	12	0	1	0	13	0.0%
Panamint Death Valley	9,572	0	0	0	0	0	0.0%
Pinto Lucerne Valley and Eastern Slopes	5,537	109	20	0	21	150	2.7%
Piute Valley and Sacramento Mountains	5,259	0	0	0	0	0	0.0%
Providence and Bullion Mountains	9,408	112	0	0	1	112	1.2%
West Mojave and Eastern Slopes	9,989	19	1	0	4	24	0.2%
Grand Total	226,923	2,595	21	1,105	442	4,164	1.8%

Table R2.5-100
Alternative 4 – GCP Lands – 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Total Acres	Existing Conservation	Conservation Planning Areas	Percent Conserved
Cadiz Valley and Chocolate Mountains	462,475	4,084	36,590	8.8%
Not Assessed	388,510	3,763	33,996	9.7%
Minimal	66,605	163	1,948	3.2%
1% Annual Chance	7,360	159	646	10.9%
0.2% Annual Chance	0	0	0	
Imperial Borrego Valley	1,260,374	261,467	25,231	22.7%
Not Assessed	298,701	184,766	2,610	62.7%
Minimal	774,772	67,728	9,977	10.0%
1% Annual Chance	185,811	8,949	12,645	11.6%
0.2% Annual Chance	1,090	25	0	2.3%
Kingston and Funeral Mountains	149,125	11,788	38,314	33.6%
Not Assessed	79,758	8,023	22,061	37.7%
Minimal	61,239	3,734	15,638	31.6%
1% Annual Chance	8,128	31	616	8.0%
0.2% Annual Chance	0	0	0	
Mojave and Silurian Valley	244,079	11,469	27,446	15.9%
Not Assessed	227,769	9,642	24,263	14.9%
Minimal	12,120	952	2,227	26.2%
1% Annual Chance	3,913	875	955	46.8%
0.2% Annual Chance	277	0	1	0.3%

Table R2.5-100
Alternative 4 – GCP Lands – 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Total Acres	Existing Conservation	Conservation Planning Areas	Percent Conserved
Owens River Valley	224,169	227	59,398	26.6%
Not Assessed	294	0	15	5.2%
Minimal	147,458	227	51,420	35.0%
1% Annual Chance	76,416	0	7,962	10.4%
0.2% Annual Chance	0	0	0	
Panamint Death Valley	59,027	12,396	7,600	33.9%
Not Assessed	24,841	5,027	4,100	36.7%
Minimal	29,967	6,000	3,229	30.8%
1% Annual Chance	4,219	1,369	271	38.9%
0.2% Annual Chance	0	0	0	
Pinto Lucerne Valley and Eastern Slopes	568,474	25,144	36,741	10.9%
Not Assessed	464,141	25,143	28,382	11.5%
Minimal	89,195	2	7,633	8.6%
1% Annual Chance	14,412	0	700	4.9%
0.2% Annual Chance	726	0	25	3.4%
Piute Valley and Sacramento Mountains	137,216	3,043	15,348	13.4%
Not Assessed	129,859	3,043	14,270	13.3%
Minimal	4,186	0	501	12.0%
1% Annual Chance	2,747	0	533	19.4%
0.2% Annual Chance	424	0	45	10.5%

Table R2.5-100
Alternative 4 – GCP Lands – 100-year Floodplains Conserved

Ecoregion Subarea Flood Designations	Total Acres	Existing Conservation	Conservation Planning Areas	Percent Conserved
Providence and Bullion Mountains	273,937	21,355	64,042	31.1%
Not Assessed	256,487	21,130	62,714	32.7%
Minimal	15,377	226	1,321	10.1%
1% Annual Chance	2,073	0	7	0.3%
0.2% Annual Chance	0	0	0	
West Mojave and Eastern Slopes	2,206,560	61,181	280,397	15.5%
Not Assessed	516,326	9,231	32,356	8.1%
Minimal	1,359,910	49,792	216,528	19.6%
1% Annual Chance	219,048	2,084	23,940	11.9%
0.2% Annual Chance	111,276	74	7,574	6.8%
Grand Total	5,585,436	412,156	591,107	18.0%

Table R2.5-101
Alternative 4 – GCP Lands – Linear Surface Water Features Conserved

Ecoregion Subarea	Total Miles	Existing Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	2,020	16	141	157	7.8%
Imperial Borrego Valley	5,073	833	52	885	17.4%
Kingston and Funeral Mountains	534	39	59	98	18.4%
Mojave and Silurian Valley	502	37	46	83	16.5%
Owens River Valley	612	0	106	106	17.3%
Panamint Death Valley	320	62	16	78	24.4%
Pinto Lucerne Valley and Eastern Slopes	1,463	99	63	162	11.1%
Piute Valley and Sacramento Mountains	609	13	33	46	7.6%
Providence and Bullion Mountains	807	88	89	177	21.9%
West Mojave and Eastern Slopes	6,134	265	659	924	15.1%
Grand Total	18,074	1,451	1,263	2,714	15.0%

Table R2.5-102
Alternative 4 – GCP Lands – Areal Surface Water Features Conserved

Ecoregion Subarea	Total Acres	Existing Conservation	Conservation Planning Areas	Subtotal	Percent Conserved
Cadiz Valley and Chocolate Mountains	15,194	52	254	306	2.0%
Imperial Borrego Valley	118,026	6,482	12,813	19,295	16.3%
Kingston and Funeral Mountains	1,273	16	27	43	3.4%
Mojave and Silurian Valley	3,459	112	329	441	12.7%
Owens River Valley	49,207	119	3,601	3,720	7.6%
Panamint Death Valley	9,572	677	438	1,115	11.6%
Pinto Lucerne Valley and Eastern Slopes	5,537	11	184	195	3.5%
Piute Valley and Sacramento Mountains	5,259	0	570	570	10.8%
Providence and Bullion Mountains	9,408	1	883	884	9.4%
West Mojave and Eastern Slopes	9,989	276	529	805	8.0%
Grand Total	226,923	7,746	19,626	27,372	12.1%