

Name	Source	Approx Coords	Preferred Alternative	Alternative 1	Alternative 2	Alternative 3	Alternative 4
Afton Canyon	Gem Trails of Southern California by James R. Mitchell (1996). Location is called Canon Rio de las Animas for Site B in the book called Desert Gem Trails by Mary Frances Strong (1971).	35.019865, -116.383544	Afton Canyon is overlapped by NLCS and ACEC on BLM land.	Same as Preferred Alternative except the ACEC is only overlapped about 50% by NLCS.	Same as Preferred Alternative except less than 10% of the ACEC will not be overlapped by NLCS.	Same as Preferred Alternative.	Same as Alternative 1.
Alvord Mountains	Gem Trails of Southern California by James R. Mitchell (1996).	35.068908, -116.628514	The mine and roads are on BLM land proposed as ACEC, but the area is checker boarded with Military Expansion Mitigation Lands that could be on part of the mine and roads.	Same as Preferred Alternative.	Same as Preferred Alternative except most of the ACEC is overlapped with NLCS.	Same as Preferred Alternative.	Same as Preferred Alternative.
Anza-Borrego	Gem Trails of Southern California by James R. Mitchell (1996).	32.801105, -115.990147	Over 50% of Coyote Mountains are not in the DRECP boundary. There is some area on the N side that has no impact on private lands, some area that is Legislatively and Legally Protected Areas on BLM Lands, and some area that is in an ACEC on BLM lands. To the south of the mountains is an area that is ACEC on BLM lands that has a little area that is overlapped with NLCS. The roads going to the area are in a no impact zone that is on private lands.	Same as Preferred Alternative.	Same except there is NLCS in some area N side of Coyote Mountains and there is NLCS on the S side that there is a mix of NLCS and no impact areas.	Same as Preferred Alternative.	Same as Preferred Alternative.
Ash Hill	Desert Gem Trails by Mary Frances Strong (1971).		The sites and roads are overlapped with NLCS and ACEC. The entire area is on BLM land except on part of a road is private land. The entire area is in a Proposed Special Recreation Management Areas (SRMA), Preferred Alt.	The area is ACEC only with no NLCS.	Same as Preferred Alternative except to the W there is DFA that is really close if not part way on Site B.	Same as Preferred Alternative.	Same as Preferred Alternative except to the W there is DRECP Variance Lands that is really close if not part way on Site B.
Bagdad	Desert Gem Trails by Mary Frances Strong (1971).		The site and road are overlapped with NLCS and ACEC. All land is BLM; however, over half the road is in a Proposed Special Recreation Management Areas (SRMA), Preferred Alt.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.

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Ballarat	Gem Trails of Southern California by James R. Mitchell (1996).		Site A is on the border of outside of the DRECP boundary to the E and Legislatively and Legally Protected Areas. The road to Site A has no impact. Site B and C are on the border between the overlap of NLCS and ACEC to the W and ACEC only to the E. All other roads are in an overlap between NLCS and ACEC. The road to Site A and the bottom of it is on private lands and in a Proposed Special Recreation Management Areas (SRMA), Preferred Alt. All other areas are on BLM and in a Proposed Special Recreation Management Areas (SRMA), Preferred Alt.	Same as Preferred Alternative except the road at the bottom of Site A is ACEC to the W and Site B and C is on the border of to the W and ACEC to the E.	Same as Preferred Alternative except the road to Site A is NLCS, the bottom of that road is a mix of ACEC and NLCS but not overlapped, and Sites B and C and all the other roads are completely overlapped with NLCS and ACEC.	Same as Preferred Alternative.	Same as Preferred Alternative.
Bedrock Spring	Gem Trails of Southern California by James R. Mitchell (1996). Location is called Bedrock Canyon in the book called Desert Gem Trails by Mary Frances Strong (1971).		Sites A and B are on Legislatively and Legally Protected Areas. The sides roads start as ACEC then go to NLCS and ACEC to Legislatively and Legally Protected Areas this also includes the side roads. Site C and road are on OHV Areas. The entire area is on BLM land and is a Proposed Special Recreation Management Areas (SRMA), Preferred Alt.	Same as Preferred Alternative.	Same as Preferred Alternative except the ACEC is overlapped with NLCS.	Same as Preferred Alternative except no NLCS.	Same as Preferred Alternative except Site C and road are in ACEC.
Big River	Gem Trails of Southern California by James R. Mitchell (1996). Location called Earp Badlands from Desert Gem Trails by Mary Frances Strong (1971).		The sites and roads are completely on Tribal Lands.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Black Mountain/Opal Canyon	Gem Trails of Southern California by James R. Mitchell (1996).		Black Mountain is on BLM property that is overlapped by Legislatively and Legally Protected Areas and ACEC except for a small piece near the NW corner and another in the SE that is ACEC only. There is a Military Expansion Mitigation Lands offset to the SE of the center of Black Mountain. Around Black Mountain with a 1-2 mile buffer is completely surrounded by ACEC with about 90% of it overlapped by NLCS.	Same as Preferred Alternative except the buffer is completely surrounded by ACEC with about 40% of it overlapped with a NLCS.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Blythe	Gem Trails of Southern California by James R. Mitchell (1996). Location called the Arlington Mine from Desert Gem Trails by Mary Frances Strong (1971).		The two sites are on BLM land that intercept from the S: DFA and Solar Energy Zones, DRECP; and from the N only the ACEC.	Same as Preferred Alternative except the N side is Wildlife Allocation and ACEC.	Same as Preferred Alternative except the N side is NLCS and ACEC.	Same as Preferred Alternative except the S side is only Solar Energy Zones, DRECP.	Same as Preferred Alternative.

Name	Source	Approx Coords	Preferred Alternative	Alternative 1	Alternative 2	Alternative 3	Alternative 4
Boron Dry Lakes	CA 21 T32S, R38E, Sections 2, 12, 10, 14, 24, 26, and 34. Location called Castle Butte from Gem Trails of Southern California by James R. Mitchell (1996). Location called Castle Butte and Boron Dry Lakes from Desert Gem Trails by Mary Frances Strong (1971).	35.1479, -117.8725	Section 34 SW corner is in a BLM DFA, while the rest of the sections are not in a DFA and are in private lands. Section 14 has about half of the land designated as Conservation Planning Areas, Preferred Alt. and half that has no impact. Sections 2, 10, 12, 24, 26 (incl. Castle Butte), and most of 34 do not have anything on it.	In Sections 2 and 10, the NW corner has it designated as ACEC. No impact in any other sections except Section 14 is half no impact and half Conservation Planning Areas, Alt. 1.	There is DFA in Section 26, 34, and half of 24. In Sections 2 and 10, the NW corner has it designated as ACEC. All of Sections 2, 10, and 12 are NLCS. Section 14 has half of NLCS and half of Conservation Planning Areas, Alt. 2.	Same as Alternative 1.	Same as Alternative 1 except the no impact area is DRECP Variance Lands.
Bristol Mountains	Gem Trails of Southern California by James R. Mitchell (1996).	34.787670, -116.038518	The area is Legislatively and Legally Protected Areas on BLM land and the main road is in a no impact zone.	Same as Preferred Alternative.	Same as Preferred Alternative except the main road is in a NLCS zone.	Same as Preferred Alternative.	Same as Preferred Alternative.
Bristol Mountain Roses	Desert Gem Trails by Mary Frances Strong (1971).		The site by Black Ridge and southern roads are overlapped with NLCS and ACEC. The other sites are on Legislatively and Legally Protected Areas. The entire area is on BLM land except on parcel that the road might go through. The site by Black Ridge and the southern parts of the roads are in a Proposed Special Recreation Management Areas (SRMA), Preferred Alt.	Same as Preferred Alternative except site by Black Ridge and southern roads are ACEC only.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Broadwell Dry Lake	Gem Trails of Southern California by James R. Mitchell (1996).	34.785273, -116.191984	The dry lake and surrounding areas are overlapped with NLCS and ACEC. The road from the dry lake cross Legislatively and Legally Protected Areas to get to Afton Canyon to Site D is overlapped with NLCS and ACEC. All land is on BLM lands except two small areas that are private lands.	Same as Preferred Alternative except S part of the dry lake and roads are ACEC only.	Same as Preferred Alternative.	Same as Alternative 1.	Same as Alternative 1.
Brown Butte/Lonely Butte	T10N, R11W, Sections 2, 3, 10 and 11. Gem Trails of Southern California by James R. Mitchell (1996).	34.9877, -118.0347	All sections are in DFA. Sections 3 and 11, incl. Lonely Butte, is private property; Section 10 is mostly BLM property, Section 2 is BLM property.	No DFA, but a few small pieces of Conservation Planning Areas, Alt. 1 in Section 10.	Sections 3 and 11, incl. Lonely Butte, there is no impact. Section 10 has half DFA and the other half is NLCS. Section 2 is completely NLCS.	Same as Alternative 1.	Sections 3 and 11 are DFA. Section 2 is mostly DFA with some DRECP Variance Lands. Section 10 has about half DFA and the other half is DRECP Variance Lands.
Cadiz	Gem Trails of Southern California by James R. Mitchell (1996).	34.527732, -115.494398	The sites and roads are on NLCS. The roads and area are on private lands to the S and BLM lands on the N side.	The sites are on a no impact zone. The main road is on Conservation Planning Areas, Alt. 1, while the other small roads are on a no impact zone.	The roads are on Conservation Planning Areas, Alt. 2. The sites are on an intercept with Conservation Planning Areas, Alt. 2 to the S and NLCS to the N.	The roads are on NLCS area. The sites are at an intercept of NLCS to the W and an overlap of NLCS and ACEC to the E.	Same as Preferred 3 except the main road to the N is on Conservation Planning Areas, Alt. 4.

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Cady Mountains	Gem Trails of Southern California by James R. Mitchell (1996).	34.749949, -116.251507	The Cady Mountains is mostly on BLM land that is about a 85% Legislatively and Legally Protected Areas and the other 15% is Conservation Planning Areas, Preferred Alt. with one square near Cady Peak that is no impact and the N side has less than 5% overlap with ACEC and/or NLCS. The roads to get to the area are overlapped with ACEC and NLCS. The side S to SE side most of the sites and the area is an overlap of ACEC and NLCS.	Same as Preferred Alternative except half of the S to SE side is ACEC and the other half is an overlap of ACEC and NLCS.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Alternative 1.
Calico	Gem Trails of Southern California by James R. Mitchell (1996).	34.939859, -116.836518	Sites A, D, and E are in private land with a no impact zone with Conservation Planning Areas, Preferred Alt. nearby. Sites B and C are in ACEC on private land. The roads on private property are mostly on no impact but a little bit goes into ACEC.	Same as Preferred Alternative except Site A and D are in NLCS area.	Same as Alternative 1.	Same as Preferred Alternative.	Same as Preferred Alternative except DRECP Variance Lands nearby Sites A, D, and E instead of Conservation Planning Areas.
Camp Irwin	Desert Gem Trails by Mary Frances Strong (1971).		This site is located on Military property.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Cargo Muchacho Mountains	Gem Trails of Southern California by James R. Mitchell (1996). Location called Midway Well sites E-F and N from Desert Gem Trails by Mary Frances Strong (1971).		Site A is in an ACEC. The road below Site A has no impact but above the road will be in a NLCS to the left and an overlap of ACEC and NLCS to the right. However, half way between Site B and C the road become ACEC and NLCS on both sides of it. Site B is overlap with ACEC and NLCS. Site C is overlap with ACEC and NLCS. The road, sites, and most of the surrounding lands are on BLM lands.	All three sites are in a Wildlife Allocation. The road from Site A to halfway between Site B and C to the left is the Wildlife Allocation and to the right is no impact. Then the road halfway between Site B and C to Site C is on the Wildlife Allocation area.	Most of the road except by Site C is in DFA. Site A and B is in the DFA. Site C is the same.	Same as Preferred Alternative.	Site A is in Conservation Planning Areas, Alt. 4. Site B is in DRECP Variance Lands. Site C is a no impact area. The road from below Site A to halfway between Site B and C is on DRECP Variance Lands. The road from halfway between Site B and C and Site C is on NLCS lands.
Carthage Creek	Desert Gem Trails by Mary Frances Strong (1971).	36.313238, -118.036348	There is no impact on the site but there is Conservation Planning Areas, Preferred Alt. really close to the site. The entire area is on private lands.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative except there is DRECP Variance Lands nearby if not on part of the W side of the site.
Chambless	Gem Trails of Southern California by James R. Mitchell (1996).	34.605003, -115.552415	All sites have an overlap of NLCS and Legislatively and Legally Protected Areas on BLM land. The roads go on and off from NLCS on private land to NLCS and Legislatively and Legally Protected Areas on BLM land.	Same as Preferred Alternative except there is no NLCS and the roads go on and off from Conservation Planning Areas, Alt. 1 and Legally Protected Areas.	Same as Alternative 1.	Same as Preferred Alternative.	Same as Preferred 1 except Site B is overlapped with NLCS and Legally Protected Areas.

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Chocolate Mountains	Gem Trails of California by James R. Mitchell (1986).		Site A is half way on Military land and the other half is ACEC overlapped with NLCS. Site B is on ACEC overlapped with NLCS; however, it is very close to Military land that part of it could be on it. Site A is halfway on Military land and halfway on BLM land. Site B is on private land, BLM land, and possibly Military land.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Chuckwalla Well and Chuckwalla Spring (including the Chuckwalla Mountains)	Gem Trails of Southern California by James R. Mitchell (1996).		This area is on BLM lands and is Proposed Special Recreation Management Areas (SRMA), Preferred Alt.. The land is mostly Legislatively and Legally Protected Areas that is completely overlapped with ACEC. The rest of the mountain range is overlapped with NLCS and ACEC. The big entire in the center and around the Chuckwalla Mountains are proposed as NLCS except for NE border where the Chuckwalla Spring is ACEC.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Cinco	Gem Trails of Southern California by James R. Mitchell (1996).		The site is overlapped with OHV Areas, Legislatively and Legally Protected Areas, and ACEC. The roads are completely on ACEC with some of the N parts being in OHV Areas. Most of the roads are on private lands but the site is on BLM land. The area is in a Proposed Special Recreation Management Areas (SRMA), Preferred Alt.	Same as Preferred Alternative.	Same as Preferred Alternative except right off of HWY 14 there is a very thin piece of a DFA.	Same as Alternative 2.	Same as Preferred Alternative.
Clark Mountain	Desert Gem Trails by Mary Frances Strong (1971).		The Cooper Mine is on Legislatively and Legally Protected Areas. The Mohawk Mine is on an intercept between NLCS to the W and NLCS and ACEC to the E. The roads are on NLCS. The Cooper Mine, the roads, and part of the Mohawk Mine is on BLM land. The other part of Mojawk Mine is on private land.	Same as Preferred Alternative except the Mohawk Mine and roads are all ACEC.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Alternative 1.
Coon Hollow	Gem Trails of Southern California by James R. Mitchell (1996).		The sites and roads are on BLM Lands. The sites are on the border of Legislatively and Legally Protected Areas to the S and an overlap of ACEC and NLCS to the N.	The S side is overlapped with ACEC and Legislatively and Legally Protected Areas. The N side is overlapped with ACEC and Wildlife Allocation.	Same as Preferred Alternative.	Same as Preferred Alternative except the N side is ACEC only.	Same as Preferred Alternative except the N side is no impact.

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Coyote Dry Lake	Gem Trails of Southern California by James R. Mitchell (1996).	35.047334, -116.790813	The sites are in ACEC area near Military Expansion Mitigation Lands with them being on BLM land and private land. The Calico Mountains are in a no impact zone. The roads area mostly on ACEC except for the piece is the Calico Mountains.	Same as Preferred Alternative except a good amount of Calico Mountains is NLCS.	Same as Alternative 1 except the sites on them and surrounding them are ACEC and NLCS and ACEC.	Same as Preferred Alternative.	Same as Alternative 1.
Danby	Gem Trails of Southern California by James R. Mitchell (1996).		The area and roads are completely on the overlap of ACEC and NLCS being on BLM lands.	Same as Preferred Alternative ACEC only only.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Danby Dry Lake	Desert Gem Trails by Mary Frances Strong (1971).		The site, roads, and surrounding areas is ACEC. The site and roads are on BLM land.	The site, roads, and surrounding areas is Wildlife Allocation.	The site, roads, and surrounding areas is Wildlife Allocation and NLCS.	Same as Preferred Alternative.	Same as Alternative 1.
Eagle Peak	Desert Gem Trails by Mary Frances Strong (1971).	36.193957, -116.440980	The area is intercepted with the Legislatively and Legally Protected Areas to the S 25% and NLCS and ACEC at the over 75%. The entire area is BLM except one parcel to the SE is private land.	Same as Preferred Alternative ACEC only only for the 75%.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
El Paso Mountains/Last Chance Canyon	CA 21, T28S, R37E, Sections 25, 30, 31, and 36. Gem Trails of Southern California by James R. Mitchell (1996).	35.425069, -117.955810	The El Paso Mountains are on BLM lands that are in Legislatively and Legally Protected Areas with an area offset to the W being 75% Legislatively and Legally Protected Areas and the other quarter being no impact. The S side of the El Paso Mountains will have about a 15% overlap with the ACEC. All of Sections 31 and 30 will have an overlap of NLCS and ACEC. Section 36 will have an overlap of NLCS and ACEC by 95% with the other 5% being ACEC only. Section 25 will have an overlap of NLCS and ACEC by 25% with the other 75% being ACEC only.	The El Paso Mountains are in Legislatively and Legally Protected Areas with an area offset to the W being 75% Legislatively and Legally Protected Areas and the other quarter being no impact. All sections are ACEC.	Same as 1 except all section are in DFA.	Same as Alternative 1.	Same as Alternative 1.
Field Road	Gem Trails of Southern California by James R. Mitchell (1996).	35.015828, -116.537371	Site A and roads on private land is Conservation Planning Areas, Preferred Alt. but next to it is NLCS. Site B and roads go off and on to ACEC and Military Expansion Mitigation Lands with most of the area on BLM lands but not all.	Same as Preferred Alternative except Site A and roads are only Conservation Planning Areas, Preferred Alt.	Same as Preferred Alternative except for Site B and roads most of the ACEC is overlapped with NLCS.	Same as Alternative 1.	Same as Alternative 1.
Gem Hill	CA T10N, R13W, Sections 26, 27, 34, and 35	34.926516, -118.225827	All sections are in DFA. Sections 26 and 35, incl. Gem Hill, is private property; Sections 27 and 34 is mixed private and BLM property.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.

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Gem Valley	Desert Gem Trails by Mary Frances Strong (1971). Location called Lone Pine from Gem Trails of Southern California by James R. Mitchell (1986)	36.602745, -117.983685	The mountain is half inside the DRECP boundary and half out. The half that is inside is on BLM land designated as Legislatively and Legally Protected Areas. The roads to get there are on either no impact or Conservation Planning Areas, Preferred Alt.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Gold Basin	Gem Trails of Southern California by James R. Mitchell (1996). Location called Midway Well sites A-D from Desert Gem Trails by Mary Frances Strong (1971).	33.175161, -114.857350	The road and all the sites are overlapped with ACEC and NLCS on BLM lands.	The location is overlapped with NLCS and Wildlife Allocation.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred 1.
Golden Valley	Desert Gem Trails by Mary Frances Strong (1971).	35.389826, -117.496091	The site is in a Legislatively and Legally Protected Areas. It is on BLM land in a Proposed Special Recreation Management Areas (SRMA), Preferred Alt.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Hackberry Wash	Desert Gem Trails by Mary Frances Strong (1971). Location called Goff from Gem Trails of California by James R. Mitchell (1986).		All the sites and roads are on Legislatively and Legally Protected Areas. The site near Vantrigger Hills might be partly on Conservation Planning Areas, Preferred Alt. Most of the land is on BLM land except for a few parcels that are on the road and partly on the Vantrigger Hills is on private land.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Hauser Bed MOU	T8 1/2S, R19E, Sections 1, 2, 4, 6, 8, 10, 11, 12, 14, 16, 18, 20, 21, 22, 24, 26, and 28. T8 1/2S, R20E, Sections 6, 7, and 18.	33.465617, -114.928294	All sections of R19E are in ACEC and NLCS except 24 which is 60% NLCS and the other 40% is an overlap of Legislatively and Legally Protected Areas and ACEC. Section 1 of R19E is in the Proposed Special Recreation Management Areas (SRMA), Preferred Alt. Section 6 of R20E are about 50% Proposed Special Recreation Management Areas (SRMA), Preferred Alt., ACEC, and NLCS to the W and about 50% Legislatively and Legally Protected Areas and ACEC to the E. Section 7 of R20E is about 50% ACEC and NLCS to the W and about 50% Legislatively and Legally Protected Areas and ACEC to the E. Section 18 of R20E is about 25% ACEC and NLCS to the W and about 75% Legislatively and Legally Protected Areas and ACEC to the E. All sections are on BLM land except for R19E Section 16.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.

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Hector Hills	CA 27, T8N, R5E Sections 15, 16, 21, and 22. Gem Trails of Southern California by James R. Mitchell (1996).	34.7850, -116.4599	The area is a no impact zone on private lands. The Hector Mine is Impervious and Urban on private land.	Same as Preferred Alternative.	The area is in NLCS.	Same as Preferred Alternative.	Same as Preferred Alternative.
Jasper Hill	CA 27, T8N, R5E Sections 4, 5, and 6. Gem Trails of Southern California by James R. Mitchell (1996). Location is called Desert Oasis from Desert Gem Trails by Mary Frances Strong (1971).	34.8139, -116.4775	The area is ACEC with NLCS overlapped completely on BLM land.	The area is ACEC only with no NLCS.	The area is ACEC with NLCS overlapped about 95%.	Same as Preferred Alternative.	Same as Alternative 2.
Kelbaker Road	Gem Trails of Southern California by James R. Mitchell (1996).	34.613833, -115.649812	The sites and roads are overlapped with NLCS and Legislatively and Legally Protected Areas on BLM lands with NLCS bordering the E side.	Everything is on Legislatively and Legally Protected Areas with Conservation Planning Areas, Alt. 1 bordering the E side.	Same as Alternative 1.	Same as Preferred Alternative except only Legislatively and Legally Protected Areas.	Same as Alternative 1 except the Conservation Planning Areas, Alt. 4 is split half into it and the other half is NLCS.
Kingston Mountain	Gem Trails of Southern California by James R. Mitchell (1996).		The area and roads area on NLCS and ACEC with Legislatively and Legally Protected Areas. The main area, sides roads, and a part of the main road is on private land, the rest of the main road is on BLM land.	Same as Preferred Alternative.	Same as Preferred Alternative except the part of private land is ACEC only.	Same as Preferred Alternative.	Same as Preferred Alternative.
Kokoweef	Gem Trails of California by James R. Mitchell (1986).		The site and surrounding area is in Future Assessment Areas. The site might be slight on ACEC and NLCS. The entire area is on BLM land.	Same as Preferred Alternative except the Future Assessment Areas is no impact.	Same as Preferred Alternative except the Future Assessment Areas is NLCS.	Same as Alternative 1.	Same as Alternative 1.
Kramer Hills	CA 27, T10N, R6W, Section 9, 15, 16, 21, 22, and 28. Gem Trails of Southern California by James R. Mitchell (1996).	34.9586, -117.5196	All sections are in ACEC and on BLM lands.	Same as Preferred Alternative.	Same expect section 16 has a small area of NLCS but it is overlapped with ACEC and section 15 is completely overlapped with NLCS and ACEC.	Same as Preferred Alternative.	Same as Preferred Alternative.
Lake Havasu	Gem Trails of Southern California by James R. Mitchell (1996). Location called Chemehuevi Wash from Desert Gem Trails by Mary Frances Strong (1971).		The site is in a no impact area on private land.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Lavic Siding	Location is called Lavic from Gem Trails of Southern California by James R. Mitchell (1996). Desert Gem Trails by Mary Frances Strong (1971).	34.761676, -116.364839	Site A and surrounding roads are overlapped with NLCS and ACEC on BLM land. Site B and roads are in a no impact area on private land. In Mary Frances Strong (1971) book, Site A is expanded and the area is NLCS and ACEC.	Same as Preferred Alternative except Site B and surrounding area is ACEC.	Same as Preferred Alternative except Site B and surrounding area is NLCS.	Same as Preferred Alternative.	Same as Preferred Alternative.



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Ludlow Obsidian	Gem Trails of Southern California by James R. Mitchell (1996).	34.721029, -116.131344	The area and roads are completely on the overlap of ACEC and NLCS being on BLM lands except for the town on private lands.	Same as Preferred Alternative except ACEC only.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Marble Mountains	Desert Gem Trails by Mary Frances Strong (1971).		The Marble Mountains are on Legislatively and Legally Protected Areas. The Marble Quarry is on ACEC and NLCS. The roads are 50%-50% of each zone.	Same as Preferred Alternative except Marble Quarry is partly on Conservation Planning Areas, Alt. 1, ACEC, and Wildlife Allocation.	Same as Preferred Alternative except Marble Quarry is halfway on Conservation Planning Areas, Alt. 2, and ACEC with NLCS.	Same as Preferred Alternative.	Same as Preferred Alternative.
Newberry Nodules	Desert Gem Trails by Mary Frances Strong (1971).	34.808007, -116.664903	The road going to the site is in a DFA. The site is intercepted by Conservation Planning Areas, Preferred Alt. to the NE, no impact to the NW, and NLCS/ACEC to the S. The site is on private land but there is BLM land bordering the area which might be on the site.	The site is proposed as DFA to the E and ACEC to the W.	Same as Alternative 2.	Same as Alternative 2 except ACEC is ACEC and NLCS.	Same as Alternative 2.
North Edwards	CA 27 T12N, R8W, Section 32 and T11N, R8W, Section 4, 6, 8, and 18. Gem Trails of Southern California by James R. Mitchell (1996). The given name was Boron Jaspers.	35.0751, -117.7693	Section 32 is completely in the Conservation Planning Areas, Preferred Alt. Sections 4, 6, and 8 have about 50% in the Conservation Planning Areas, Preferred Alt. and the other half being no impact. Sections 18 have about 75% in the Conservation Planning Areas, Preferred Alt. and the other quarter being no impact. All sections are on private lands.	Same as Preferred Alternative.	Same as Preferred Alternative except the no impact area is NLCS lands.	Same as Preferred Alternative.	Same as Preferred Alternative except the no impact area is half no impact and the other half is DRECP Variance Lands.
Mule Mountains	Desert Gem Trails by Mary Frances Strong (1971).		The sites and their surrounding area are in an overlap with NLCS and ACEC. The roads going from Palo Verde are in a DFA, then it changes to impact with a few spots of Conservation Planning Areas, Preferred Alt., then it goes to ACEC overlapped with NLCS, then ACEC only, and finally ACEC and NLCS. The sites are on BLM land; however, most of the roads are on private land.	Same as Preferred Alternative except the sites and surrounding area are on Wildlife Allocation.	Same as Preferred Alternative.	Same as Preferred Alternative except the sites and surrounding area are ACEC only.	Same as Preferred Alternative except the sites and surrounding area are on Conservation Planning Areas, Alt. 4.
Olancha	Gem Trails of Southern California by James R. Mitchell (1996).		The site is mostly on Conservation Planning Areas, Preferred Alt. but there are some parts on Legislatively and Legally Protected Areas to the E and NLCS and ACEC overlap to the W. The site is on private land and the main road is on BLM land.	Same as Preferred Alternative except W side of the site is ACEC only.	Same as Alternative 1.	Same as Preferred Alternative.	Same as Preferred Alternative.

Name	Source	Approx Coords	Preferred Alternative	Alternative 1	Alternative 2	Alternative 3	Alternative 4
Opal Hill Mine	Gem Trails of Southern California by James R. Mitchell (1996).		The area and roads are completely on the overlap of ACEC and NLCS being on BLM lands.	The mine is overlapped with ACEC and Wildlife Allocation.	Same as Preferred Alternative.	The mine is only in ACEC.	The area is mixed with no impact and DRECP Variance Lands.
Orange Blossom	Gem Trails of Southern California by James R. Mitchell (1996). Location called Bristol Mountains Copper Areas from Desert Gem Trails by Mary Frances Strong (1971).	34.666592, -115.746801	Site A and bottom 1/3 of the main road and its side roads are on NLCS lands. Site B and the other 2/3 of the main roads and its side roads are overlapped with NLCS and ACEC. All on BLM lands except one piece near Site B that has the roads to get there are on private lands.	Same as Preferred Alternative except Site B and surrounding area is ACEC only.	Same as Preferred Alternative.	Same as Alternative 1.	Same as Alternative 1.
Ord Mountain	Gem Trails of Southern California by James R. Mitchell (1996).	34.612197, -116.738904	The site is overlapped with NLCS and ACEC. The road is a divider between NLCS and ACEC area and OHV Area. The entire area is on BLM land.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Owlhead Mountain	Desert Gem Trails by Mary Frances Strong (1971).		Most of the land is Legislatively and Legally Protected Areas on BLM land with a few spots on private land being Conservation Planning Areas, Preferred Alt.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Pacific Borax Company Boron	Desert Gem Trails by Mary Frances Strong (1971).		The site is on private land as Impervious and Urban with Conservation Planning Areas, Preferred Alt. nearby.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Picacho Region	Desert Gem Trails by Mary Frances Strong (1971).		All the sites and nearby roads are on ACEC overlapped with NLCS. Winterhaven and about 1/3 of the main road is on Tribal Lands. Near all site but mostly Site L is very close if not partly on Legislatively and Legally Protected Areas. The land off of the Tribal Lands is mostly BLM land except for a few small parcels. Site J and L are on the border between BLM land and private land.	Same as Preferred Alternative except the sites and surrounding on Wildlife Allocation and NLCS.	Same as Preferred Alternative except part of the between the Tribal Lands and the sites have a DFA.	Same as Preferred Alternative.	Same as Preferred Alternative except the sites and surrounding on DRECP Variance Lands and NLCS.
Pebble Terrace	Gem Trails of Southern California by James R. Mitchell (1996).		This location is at the border of 3 proposed designations; the N side is ACEC on private land, the SE side is no impact and is on BLM land, and SW is an overlap of ACEC and NLCS on private land.	The complete area is in a Wildlife Allocation.	Same as Preferred Alternative.	Same as Preferred Alternative except the SW is ACEC only.	The SW is DRECP Variance Lands. The SE is no impact. The N is Conservation Planning Areas, Alt. 4.

Name	Source	Approx Coords	Preferred Alternative	Alternative 1	Alternative 2	Alternative 3	Alternative 4
Pipes Canyon	Desert Gem Trails by Mary Frances Strong (1971).		The site is overlapped with ACEC and Legislatively and Legally Protected Areas. The roads go off and on from ACEC and Legislatively and Legally Protected Areas to ACEC. The site is on BLM land, while the roads go off and on from BLM land and private land.	Same as Preferred Alternative.	Same as Preferred Alternative except right next to the site is proposed as DFA.	Same as Preferred Alternative.	Same as Preferred Alternative.
Plaster City	Gem Trails of Southern California by James R. Mitchell (1996).	32.816252, -115.855218	The town of Plaster City is in an ACEC on private lands, but the area N of the town where the sites area is in an OHV Area on BLM lands.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative except the two ACEC is overlapped with NLCS.	Same as Alternative 3.
Providence Mountains 1	Desert Gem Trails by Mary Frances Strong (1971).		All sites and most of the roads are on Legislatively and Legally Protected Areas. The most northerly site is Legislatively and Legally Protected Areas and NLCS. The southern roads are NLCS and ACEC. All sites and roads are on BLM land but there are a few near by private land. Some of the southern roads are in Proposed Special Recreation Management Areas (SRMA), Preferred Alt.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Providence Mountains 2	Desert Gem Trails by Mary Frances Strong (1971).		All sites and most of the roads are on Legislatively and Legally Protected Areas. The southern roads are NLCS and ACEC. All sites and roads are on BLM land. Some of the southern roads are in Proposed Special Recreation Management Areas (SRMA), Preferred Alt.	Same as Preferred Alternative except the southerly roads are ACEC only.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Rainbow Basin	Desert Gem Trails by Mary Frances Strong (1971).	35.098179, -117.102795	Rainbow Basin site is on the border of NLCS and NLCS overlapped with ACEC. The Jasp-Agate Hill site is made up of ACEC to the N and Military Expansion Mitigation Lands to the S. All roads are on ACEC land. This area is in a Proposed Special Recreation Management Areas (SRMA), Preferred Alt. All the land is on BLM land except for the half of Jasp-Agate Hill in ACEC is on private land. The goes on and off of BLM land and private land.	Same as Preferred Alternative except Rainbow Basin is ACEC only.	Same as Preferred Alternative except Rainbow Basin site is all NLCS overlapped with ACEC.	Same as Alternative 1.	Same as Preferred Alternative.

Name	Source	Approx Coords	Preferred Alternative	Alternative 1	Alternative 2	Alternative 3	Alternative 4
Rainbow Ridge	Gem Trails of Southern California by James R. Mitchell (1996).		All the sites and roads until Hwy 395 are on ACEC. The entire area is on BLM land except Site F that is on the border of BLM land and private land. The entire area is in a Proposed Special Recreation Management Areas (SRMA), Preferred Alt.	Same as Preferred Alternative.	Same as Preferred Alternative except the ACEC is overlapped with NLCS.	Same as Preferred Alternative.	Same as Preferred Alternative.
Rainbow Rock	Gem Trails of Southern California by James R. Mitchell (1996).	33.372649, -116.056472	The area is checker boarded between DFA and Legislatively and Legally Protected Areas, both on BLM lands. The location is on Legislatively and Legally Protected Areas but it is right next to a DFA. Rainbow Rock is in the DFA. The road to get there starts out as Conservation Planning Areas, Preferred Alt., then turns into Legally Protected Areas, and then DFA.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Rand Mountains	Desert Gem Trails by Mary Frances Strong (1971).	35.333033, -117.661044	Site A is on privates land and about a 50%-50% mixed of no impact and Impervious and Urban. Site B is a mixed of no impact, Impervious and Urban, and ACEC, but it is mostly no impact. The S part of Site B in the ACEC is on BLM land. The entire area is in a Proposed Special Recreation Management Areas (SRMA), Preferred Alt.	Same as Preferred Alternative.	Same as Preferred Alternative except the whole area is overlapped with NLCS.	Same as Preferred Alternative.	Same as Preferred Alternative except the whole area is overlapped with ACEC.
Sacramento Mountains Wood	Desert Gem Trails by Mary Frances Strong (1971).		The site is on NLCS. The roads are on NLCS and ACEC with NLCS. The site is partly on BLM land and partly on private land. The entire land is on Proposed Special Recreation Management Areas (SRMA), Preferred Alt.	Same as Preferred Alternative.	Same as Preferred Alternative except put of the site on private land is Conservation Planning Areas, Alt. 2.	Same as Preferred Alternative.	Same as Preferred Alternative.
Sheep Springs	CA 27, T12N, R7W Section 32, T12N, R7W Section 6	Site not found.					
Sheep Springs	Gem Trails of Southern California by James R. Mitchell (1996).		The site and roads are on ACEC with Legislatively and Legally Protected Areas right next to the site. The entire area is on BLM land and proposed as Proposed Special Recreation Management Areas (SRMA), Preferred Alt.	Same as Preferred Alternative.	Same as Preferred Alternative except the ACEC is overlapped with NLCS.	Same as Preferred Alternative.	Same as Preferred Alternative.
Ship Mountains	Desert Gem Trails by Mary Frances Strong (1971).		The sites and most of the roads are ACEC and NLCS. Some of the roads are only NLCS. The sites are on BLM land with a Proposed Special Recreation Management Areas (SRMA), Preferred Alt.	Site A is halfway on ACEC and the other half is Wildlife Allocation. Site B is overlapped with Wildlife Allocation and NLCS.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative except Site B is overlapped with Wildlife Allocation and NLCS.

Name	Source	Approx Coords	Preferred Alternative	Alternative 1	Alternative 2	Alternative 3	Alternative 4
Sperry Wash	Desert Gem Trails by Mary Frances Strong (1971).	35.777152, -116.139804	The area is mostly on ACEC and NLCS overlapped with a little bit of Legislatively and Legally Protected Areas on the S side. The location is entirely on BLM land and has a Proposed Special Recreation Management Areas (SRMA), Preferred Alt. on it.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
SPRC claim & vicinity	CA 27 T11N, R9W, Sections 2, 4 & 10 and T12N, R9W, Section 32		There is no DFA and is all located on private lands. There is no impact on Section 32. Sections 4 and 6 have about half of the area being in the Conservation Planning Areas, Preferred Alt. and the other half being no impact. Section 2 has about three-fourths in Conservation Planning Areas, Preferred Alt. and the quarter being no impact.	Same as Preferred Alternative.	Same as Preferred Alternative except no impact area is NLCS for Section 2 and 10 and DFA for Section 4.	Same as Preferred Alternative.	Same as Preferred Alternative except the no impact area is DRECP Variance Lands.
Steam Well	Gem Trails of Southern California by James R. Mitchell (1996).		All sites and side roads are on Legislatively and Legally Protected Areas. The main road borders the Legally Protected Areas and ACEC for about half the way, then it turns into ACEC only and then it goes to no impact when it gets near the towns. Most of the area is on BLM land, except one piece of private land near Site A. This area is a Proposed Special Recreation Management Areas (SRMA), Preferred Alt.	Same as Preferred Alternative except Site A is very close to a very small DFA and part of the main road runs through another DFA..	Same as Alternative 1 except the ACEC is ACEC and NLCS overlapped.	Same as Alternative 1.	Same as Alternative 1.
Stoddard Well	Gem Trails of Southern California by James R. Mitchell (1996). Location called Verde Antique Quarry from Desert Gem Trails by Mary Frances Strong (1971).	34.631815, -117.071601	The sites are on ACEC area but both roads have some area proposed as DFA. Site C is on private land. Site A and B are on the border between BLM and private land.	Same as Preferred Alternative except the roads are in a no impact zone instead of DFA.	The entire area is in a no impact zone.	Same as Alternative 1.	Same as Preferred Alternative.
Tecopa	Gem Trails of Southern California by James R. Mitchell (1996).		The site is at a intercept between NLCS and ACEC overlap and Legislatively and Legally Protected Areas. All roads are on NLCS and ACEC. The most of the site and roads are in a Proposed Special Recreation Management Areas (SRMA), Preferred Alt. The entire area is on BLM land.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Thulite Spot	34.720566 -115.97555	34.720566, -115.97555	It is on BLM that is Legislatively and Legally Protected Areas next to a Conservation Planning Areas, Preferred Alt and across the street is an overlap of NLCS and ACEC.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.

Name	Source	Approx Coords	Preferred Alternative	Alternative 1	Alternative 2	Alternative 3	Alternative 4
Toltec Mine	Gem Trails of Southern California by James R. Mitchell (1996).		Yucca Mine, Toltec Mine, and all roads are on ACEC overlapped with NLCS. Toltec is very close to Legislatively and Legally Protected Areas and Special Analysis Areas. Most land is on BLM land with a few spots being on private lands that the roads go through.	Same as Preferred Alternative except all area is ACEC only except for a part of a road going into both mines is ACEC and NLCS. Also, there is no Special Analysis Areas it is ACEC.	Same as Preferred Alternative except Toltec Mine is very close to DFA.	Same as Preferred Alternative except there is no Special Analysis Areas it is ACEC and NLCS.	The main road before Yucca Mine goes from ACEC to ACEC and NLCS to no impact. Yucca Mine, Toltec Mine, and all other roads are on no impact zone with a few DRECP Variance Lands nearby.
Trona	Gem Trails of Southern California by James R. Mitchell (1996). Location is called Panamint Valley for Site B in the book called Desert Gem Trails by Mary Frances Strong (1971).	36.035594, -117.332100	Site A's area is intercept between NLCS and Legislatively and Legally Protected Areas. Site B's area is completely NLCS. Site C's area is intercept between NLCS and ACEC overlapped with NLCS. Site C also has Legislatively and Legally Protected Areas to the W. All the roads are on NLCS except for a part between Site B and C that is out of the DRECP boundary and a part by Site C is NLCS and ACEC. All the area in the DRECP boundary in this area is in a Proposed Special Recreation Management Areas (SRMA), Preferred Alt. All the area except for most of Site B is on BLM land.	Site A is no impact and Legislatively and Legally Protected Areas. Site B is on Conservation Planning Areas, Alt. 1. Site C is at an intercept with NLCS to the N and NLCS, Wildlife Allocation to the S and with Legislatively and Legally Protected Areas to the W.	Same as Preferred Alternative except Site B is on Conservation Planning Areas, Alt. 2.	Same as Preferred Alternative.	Same as Preferred Alternative.
Tropico Hill	Location from map called Gem Hill base out of the book called Desert Gem Trails by Mary Frances Strong (1971).	34.879635, -118.233037	The Tropico Hill is 50% Conservation Planning Areas, Preferred Alt. and no impact. only off the S and SW borders of the Tropico Hill is DFA and nearby the N border. The Tropico Hill is on private land but the border of the S side is on BLM land.	Same as Preferred Alternative.	The entire hill and surrounding areas are in a DFA.	Same as Preferred Alternative.	Same as Preferred Alternative except the N side border is DRECP Variance Lands next to DFA.
Turtle Mountains	Gem Trails of Southern California by James R. Mitchell (1996).		The area on BLM land intercepts with to the SE is ACEC overlapped with NLCS and all other directions is Legislatively and Legally Protected Areas.	Same as Preferred Alternative except the SE area is ACEC only.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Vidal Junction	Gem Trails of Southern California by James R. Mitchell (1996).		The area, which is intercept with BLM and private land, and road on BLM land is overlapped with ACEC and NLCS.	Same as Preferred Alternative except some area to the SW and the S part of the road is ACEC only.	Same as Preferred Alternative.	Same as Preferred Alternative except some the S part of the road is ACEC only.	Same as Alternative 3.

Name	Source	Approx Coords	Preferred Alternative	Alternative 1	Alternative 2	Alternative 3	Alternative 4
Wall Canyon	Location from map called Gem Hill base out of the book called Desert Gem Trails by Mary Frances Strong (1971).		The sites are on Legislatively and Legally Protected Areas. The road is partly on Legislatively and Legally Protected Areas, but most of the roads are on Tribal Lands except for a no impact strip which is on private lands that are Proposed Special Recreation Management Areas (SRMA), Preferred Alt. All other land is on BLM land.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Wiley Well	Gem Trails of Southern California by James R. Mitchell (1996).		The sites and roads are on BLM lands that are overlapped with NLCS and ACEC.	Same as Preferred Alternative.	The area is checker boarded so some sites are with ACEC and some are overlapped of ACEC and NLCS.	Same as Preferred Alternative.	Same as Preferred Alternative.
Wiley Wells	33 24 2244 N 115 44 2844 W and vicinity		The site and surrounding area is in DFA. The area is checker boarded between BLM land and private land, the site is partly on BLM land and partly private land.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Winterhaven Geodes	Gem Trails of Southern California by James R. Mitchell (1996).	32.838154, -114.550337	The area is completely on Tribal Lands.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.	Same as Preferred Alternative.
Yermo	Gem Trails of Southern California by James R. Mitchell (1996). Location is call Green Ash Hill from the book called Desert Gem Trails by Mary Frances Strong (1971).	34.933913, -116.769731	It is a location nearly overlapping with Conservation Planning Areas, Preferred Alt. on private land to the NW, DFA on private land to the SW, and NLCS overlapped with ACEC on BLM land to the E.	Same as Preferred Alternative except the E side is ACEC only.	Same as Preferred Alternative except is mostly overlap with NLCS and ACEC, but there is a small piece that is ACEC only.	Same as Alternative 1.	Same as Preferred Alternative.
Yuha Basin	Gem Trails of Southern California by James R. Mitchell (1996).		It is on BLM lands that is overlapped with ACEC and NLCS and the area where the roads are coming in is only in ACEC then half way it turns into the overlap.	It is only in ACEC.	It is completely overlapped by ACEC and NLCS.	Same as Alternative 2.	Same as Alternative 1.