

## 6.0 Cumulative Impacts

### 6.1 Introduction

In accordance with the California Environmental Quality Act (CEQA) (CEQA Guidelines Section 15130 *et seq.*) this Environmental Impact Report (EIR) analyzes the cumulative impacts of the proposed Valley-Ivyglen 115-kV Subtransmission Line Project (proposed Valley-Ivyglen Project, or VIG) and the proposed Alberhill System Project (proposed Alberhill Project, or ASP) in conjunction with other developments that affect or could affect the project area. According to CEQA, a cumulative impact refers to two or more individual effects that are considerable when taken together or that compound or increase other environmental impacts (CEQA Guidelines section 15355). CEQA requires the cumulative impacts discussion to reflect the likelihood that the impacts would occur and their severity if they did occur, but allows the discussion to contain less detail than must be provided for individual impacts (CEQA Guidelines section 15130(b)). To comply with CEQA, a cumulative scenario has been developed for this EIR that identifies and evaluates past, present, and reasonably foreseeable future projects within the cumulative study area that would be constructed or commence operation during the timeframe of activity associated with the proposed projects.

### 6.2 Methodology

#### 6.2.1 Disclosure of Impacts

To provide full disclosure of cumulative impacts for both proposed projects, this cumulative impacts section contains a separate cumulative impacts analysis for each of the proposed projects. The proposed Valley-Ivyglen Project's cumulative impacts are discussed first, followed by those of the proposed Alberhill Project, for each resource area. The installation of antennas on existing structures at the Serrano Substation and Santiago Peak Communication site as part of the proposed Alberhill Project are not considered further in this section because work at these locations is minimal and short term and would not considerably contribute to a significant cumulative impact.

#### 6.2.2 Cumulative Scenario: Project List and Summary of Projections

In discussing cumulative impacts, the CEQA Guidelines outline two approaches for characterizing the projects that may occur in the vicinity of a proposed project:

1. **Project list:** A list of past, present, and probable future projects producing related or cumulative impacts, including, if necessary, projects outside the control of the agency (CEQA Guidelines section 15130(b)(1)(A)).
2. **Summary of projections:** A summary of projections contained in an adopted local, regional or statewide plan, or related planning document, that describes or evaluates conditions contributing to the cumulative effect (CEQA Guidelines section 15130(b)(1)(B)). This summary can be supplemented with additional information, including a regional modeling program.

This document uses both approaches, depending which is more appropriate for the resource area being analyzed. The approach selected depends on the resource area and the nature and character of expected impacts. The rationale for selecting an approach is provided in the cumulative impacts discussion for each resource area. In general, the cumulative scenario in western Riverside County, whether based on a project list or a summary of projections, is one that demonstrates the rapid development in Riverside

County across all sectors. The scenario also shows the infrastructure developments and upgrades necessary to support population growth and economic development.

### 6.2.2.1 Project List

The project list approach is used for the cumulative impacts analysis for the following resource areas:

- Aesthetics
- Cultural Resources
- Geology and Soils
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Mineral Resources
- Noise
- Traffic and Transportation

Table 6-1 provides a list of development projects in the vicinity of the proposed project area with the potential to contribute to a cumulative impact. This list includes both approved and pending projects that are anticipated to be either under construction or operational by the time the proposed projects are completed. Projects that have experienced repeated delays and have no scheduled time for implementation are not considered in this analysis when timing of project implementation is needed for the cumulative impacts analysis. Information pertaining to past, present, and reasonably foreseeable future projects were obtained from:

- Riverside County
- City of Lake Elsinore
- City of Meniffee
- City of Wildomar
- City of Canyon Lake
- City of Perris
- City of Murrieta
- California Public Utilities Commission
- Southern California Edison
- United States Department of the Interior Bureau of Land Management
- United States Forest Service
- California Department of Transportation

Further, when the project list approach is used, the proposed Alberhill Project is considered part of the cumulative scenario when determining the proposed Valley-Ivyglen Project's contribution to a potentially significant cumulative impact. Likewise, the proposed Valley-Ivyglen Project is considered part of the cumulative scenario when determining the proposed Alberhill Project's contribution to a potentially significant cumulative impact. Figure 6-1 depicts the location and relative size of each proposed project.

### 6.2.2.2 Summary of Projections

The summary of projections approach is used for the cumulative impacts analysis for the following resource areas:

- Agriculture and Forestry Resources
- Air Quality
- Biological Resources
- Greenhouse Gases (GHGs)
- Population and Housing
- Public Services
- Recreation
- Utilities and Service Systems

**Table 6-1 Cumulative Projects for Project List Approach**

Number	Name	Description	Status
1	Alberhill Villages Specific Plan	Development of a master planned community comprising 5,636 residential units, a university village, open space/recreation, and roadways.	Draft EIR was released, with public review ending December 31, 2015.
2	Alberhill Ranch Residential Development	400-acre subdivision, more than 48 acres of public parks, up to 1,401 dwelling units and 1.4 million square feet of commercial and office space.	Construction of the development is ongoing, with many homes and development features (e.g., large park, swim club) completed.
3	Alberhill Ridge	The project would include over 1,000 homes, two commercial centers, parks, and other facilities. Development would occur across about 400 acres.	The vesting tentative map was approved in December 2012. Construction start date is unknown.
4	Hidden Hills	The project would involve development of approximately 511 single-family homes over about 166 acres. The project would also include open space and flood control facilities.	The development agreement was approved in 2010. Construction start date is unknown.
5	Summerly	The project involves construction of about 537 residential units in phases.	Project is being constructed in phase.
6	Oak Creek Canyon	The project would involve construction of 275 single-family residences on 150 acres	Approved, construction is delayed and has not begun as of March 2015
7	Motte Town Center	The project would involve 460,000 square feet of retail space plus parking.	Approved, construction date is unknown.
8	Talavera	The project is a residential development on 64 acres, with 173 homes as well as park space.	The project has been approved, and home builders are being sought.
9	Underwood	The project would include 543 single family homes across 225 acres. The project also contains acreage for a park and open space.	The project has been approved. Construction schedule is unknown.
11	Terracina	The project would include 468 homes across 151 acres. The project would also include park space.	Project has been proposed. Construction schedule unknown.
12	Terramor (formerly Toscana)	890-acre master planned community with up to 1,443 residential dwelling units as well as areas designated for recreational and commercial uses. Some area would be preserved as open space.	Specific Plan Approved. Specific Plan amendment and Tentative Tract Maps are in process.
13	Walmart Lake Elsinore	The project would include a commercial center with a 154,487-square-foot Walmart store and three lots for other retail uses.	Approved in December 2015.

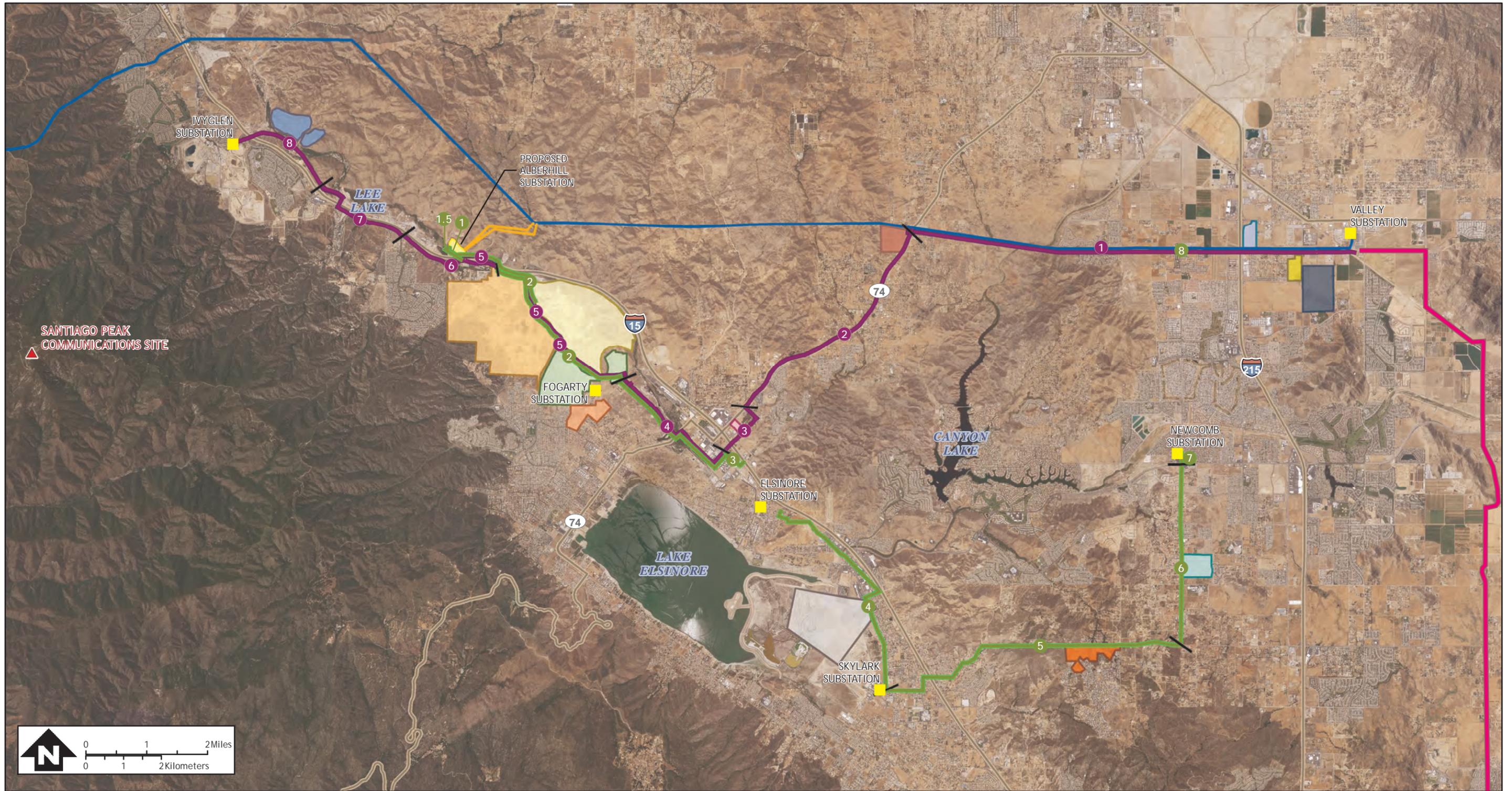
**Table 6-1 Cumulative Projects for Project List Approach**

<b>Number</b>	<b>Name</b>	<b>Description</b>	<b>Status</b>
14	Valley South Subtransmission	The project is an SCE proposal to upgrade the region's existing electrical infrastructure and improve its overall electrical reliability.	Draft EIR released January 2016. Construction anticipated to begin March 2018.
15	Colinas del Oro	This housing development would be located off of SR-74 between River Road and Ethanac Road. SR-74 will be improved in the area as part of the development. The project would have about 490 dwelling units as well as commercial development and open space.	The project has been approved.

Sources: City of Lake Elsinore 2012a,b, 2014, 2015a,b,c; City of Menifee 2010; City of Wildomar 2015; County of Riverside 2014a; CPUC 2016; Derrigo Demographic Studies 2013; Foremost Communities 2013; Lee & Associates undated; McAllister 2013; Naiman 2015; Rancon Group 2016; RCTLMA 2014; Shopoff 2007; Summerly Homes 2016; True Life Companies 2015; WD Land 2015; Williams 2015a,b;

Key:

EIR Environmental Impact Report  
SCE Southern California Edison  
SR-74 State Route 74



Source: Riverside County 2012, ESRI 2010, SCE 2011, 2013

- |        |            |        |                                         |                                         |                                   |
|--------|------------|--------|-----------------------------------------|-----------------------------------------|-----------------------------------|
| 1 VIG1 | 1 ASP1     | 5 ASP5 | Existing Substations                    | Cumulative Projects                     | Oak Creek Canyon                  |
| 2 VIG2 | 1.5 ASP1.5 | 6 ASP6 | Proposed Alberhill Substation           | Alberhill Ranch Residential Development | Summerly                          |
| 3 VIG3 | 2 ASP2     | 7 ASP7 | Proposed 500-kV transmission lines      | Alberhill Ridge                         | Talavera                          |
| 4 VIG4 | 3 ASP3     | 8 ASP8 | 500-kV Serrano Valley Transmission Line | Alberhill Villages Specific Plan        | Terracina                         |
| 5 VIG5 | 4 ASP4     |        | Segment begin / end                     | Colinas de Oro                          | Terramor (formerly Toscana)       |
| 6 VIG6 |            |        |                                         | Hidden Hills                            | Underwood                         |
| 7 VIG7 |            |        |                                         | Motte Town Center                       | Walmart Lake Elsinore             |
| 8 VIG8 |            |        |                                         |                                         | Valley South Subtransmission Line |

Figure 6-1  
 Cumulative Projects  
 Alberhill and Valley-Ivyglen Projects  
 Riverside County, California

1 The following planning documents were reviewed to develop a summary of projections that describes or  
2 evaluates conditions contributing to a cumulative effect:  
3

- 4 • City of Lake Elsinore General Plan (2011a) and Final Program Environmental Impact Report  
5 (EIR) (2011b)
- 6 • City of Menifee General Plan (2013a) and Draft EIR (2013b)
- 7 • City of Perris General Plan (2005a) and EIR (2005b); Initial Study/Mitigated Negative  
8 Declaration for General Plan Housing Element (2013)
- 9 • County of Riverside General Plan, as amended (2014b)
- 10 • Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) (County of  
11 Riverside 2003a)

### 12 **6.2.2.3 Resources Not Discussed**

13 This analysis does not address land use and planning cumulative impacts. As explained in Section 4.10,  
14 “Land Use and Planning,” neither proposed project would result in environmental impacts due to a  
15 conflict with a land use policy.  
16  
17  
18

## 19 **6.3 Resource Areas**

20 This section analyzes cumulative impacts for each CEQA resource issue. The analyses describe the  
21 approach used (project list or summary of projections) and rationale for choosing the approach. The  
22 analyses also define geographic scopes for the cumulative analysis, as these are specific to each resource.  
23 Finally, the section analyzes the projects’ potentially significant impacts in conjunction with other  
24 projects within the geographic scope that may similarly affect each resource area.  
25  
26

### 27 **6.3.1 Aesthetics and Visual Resources**

#### 28 **6.3.1.1 Approach**

29 The cumulative aesthetics and visual resources analysis uses the project list approach. Aesthetic and  
30 visual resource impacts are project-specific and highly localized. It is therefore most appropriate to use  
31 the project list approach so that aesthetic impacts of actual nearby projects can be taken into account in  
32 determining whether there would be significant cumulative aesthetic and visual impacts.  
33  
34  
35

#### 36 **6.3.1.2 Geographic Scope**

37 The geographic scope of cumulative impacts on aesthetics includes all areas where more than one project  
38 would be visible with the proposed project in the same public viewshed.  
39  
40

**6.3.1.3 Valley-Ivyglen Project**

**Cumulative Scenario**

Table 6-2 presents cumulative projects that form the cumulative scenario for the aesthetic impacts associated with the proposed Valley-Ivyglen Project.

**Table 6-2 VIG Cumulative Projects within the Aesthetics Geographic Scope**

<b>Valley-Ivyglen Project Component</b>	<b>Cumulative Projects within the Geographic Scope</b>
115-kV Segment VIG1	Alberhill Project (115-kV Segment ASP8), Motte Town Center, Talavera, Valley South Subtransmission Project
115-kV Segment VIG2	Colinas de Oro
115-kV Segment VIG3	Alberhill Project (115-kV Segments ASP2 and ASP3)
115-kV Segment VIG4	Alberhill Project (115-kV Segments ASP2 and ASP3)
115-kV Segment VIG5	Alberhill Project (115-kV Segments ASP1, ASP1.5, ASP2, and Alberhill Substation), Alberhill Village, Alberhill Ranch, Alberhill Ridge
115-kV Segment VIG6	Alberhill Project (115-kV Segments ASP1, ASP1.5, ASP2, and Alberhill Substation)
115-kV Segment VIG8	Terramor
115-kV Segment VIG1	Alberhill Project (115-kV Segment ASP8), Motte Town Center, Talavera, Valley South Subtransmission Project
115-kV Segment VIG2	Colinas de Oro
115-kV Segment VIG3	Alberhill Project (115-kV Segments ASP2 and ASP3)
115-kV Segment VIG4	Alberhill Project (115-kV Segments ASP2 and ASP3)
115-kV Segment VIG5	Alberhill Project (Alberhill Substation, 500-kV lines, and 115-kV Segments ASP1, ASP1.5, ASP2), Alberhill Village, Alberhill Ranch, Alberhill Ridge
115-kV Segment VIG6	Alberhill Project (Alberhill Substation, 500-kV lines, and 115-kV Segments ASP1, ASP1.5, ASP2)
115-kV Segment VIG8	Terramor

**Cumulative Impacts**

The proposed Valley-Ivyglen Project would have no impact on a designated scenic vista. This proposed project therefore would not contribute to a cumulative impact on a scenic vista.

None of the cumulative projects would be clearly visible at the same time as the proposed project from Interstate (I-15) or State Route 74 (SR-74), which are both Eligible Scenic Highways. All of the cumulative projects are either too far away from I-15 to be clearly visible or are otherwise shielded from the views of drivers on I-15 or SR-74. There would be no cumulative impact.

Several Valley-Ivyglen Project components would be in the same viewshed as cumulative projects (Table 6-2). All of these cumulative projects except those associated with the proposed Alberhill Project are housing developments, some of which may include minor commercial uses and, in at least one case, educational facilities.

Construction of new homes and commercial facilities within large residential developments and in developments that encroach on open space is typical in the region, given the extensive housing construction that has taken place there in recent years. The construction and presence of housing developments are consistent with the existing visual character of the area.

The proposed Valley-Ivyglen Project’s visual impact during construction would be similar to construction activities associated with housing developments and therefore would be visually consistent with other activities in the area. Where the proposed Alberhill Project would overlap with the proposed Valley-Ivyglen Project, the proposed Alberhill Project would only involve stringing conductor on poles

1 installed for the proposed Valley-Ivyglen Project and therefore would not have the appearances of  
2 construction activities. The proposed project's construction would therefore not combine with other  
3 project construction activities to, on a cumulative level, result in a significant impact to the aesthetic  
4 quality of the area.

5  
6 Construction of the proposed Valley-Ivyglen Project could utilize some nighttime lighting, and conductor  
7 may produce glare during operation. While construction of the cumulative projects is likely to take place  
8 during the day given the character of the projects (housing and a commercial building), constructed  
9 housing, commercial, and educational uses would contain light sources such as street lights, home lights,  
10 and sign lights. The large increase in housing in currently undeveloped areas would create a wide-ranging  
11 light source that could significantly affect nighttime views. The proposed project's use of nighttime  
12 lighting would contribute to this potentially significant cumulative impact. Construction lighting  
13 associated with the proposed Valley-Ivyglen Project would be temporary, short term, and oriented to  
14 minimize light pollution. The proposed project's contribution to a significant cumulative impact would  
15 therefore not be cumulatively considerable.

16  
17 The presence of large housing developments is visually consistent with the character of the surrounding  
18 communities, where significant numbers of houses have been constructed in recent years and are  
19 therefore commonplace among open space. Housing developments are visually consistent with the current  
20 character of the area; therefore, Motte Town Center, Talavera, Underwood, Alberhill Ranch, Alberhill  
21 Ridge, Alberhill Village, Colinas de Oro, and Terramor would not contribute to a cumulative visual  
22 impact once they are constructed.

23  
24 Operation and maintenance of the proposed project would contribute to a cumulative impact only where  
25 the proposed Alberhill Project would overlap with the proposed Valley-Ivyglen Project and where the  
26 Valley South Subtransmission Project is near the proposed Valley-Ivyglen Project. Operation and  
27 maintenance of the proposed Valley-Ivyglen Project would take place in the same location as, and within  
28 view of, the Alberhill Substation and 115-kV Segments ASP1, ASP1.5, ASP2, ASP3, and ASP8, as well  
29 as the Valley South Subtransmission Project. The presence of the proposed Valley-Ivyglen Project  
30 (including 115-kV Segments ASP1, ASP1.5, and ASP2) in the vicinity of the Alberhill Substation would  
31 significantly change the existing visual character of the area, which currently has high intactness and high  
32 to moderate unity of view. Together, the projects would detract from these qualities and change the  
33 character of the area through addition of human-made industrial structures in the area. This would be a  
34 significant impact. The principal visual changes in this area are associated with the proposed Alberhill  
35 Project, as that project would include the substation and transmission components, while the proposed  
36 Valley-Ivyglen Project would involve only pole replacement. The proposed Valley-Ivyglen Project's  
37 contribution to a significant cumulative impact would therefore not be cumulatively considerable.

38  
39 Where 115-kV Segment ASP8 and the Valley South Subtransmission Project are located near 115-kV  
40 Segment VIG1 (near the Valley Substation), there is already substantial aboveground electric  
41 transmission infrastructure. Addition of several new poles in this area as part of the projects would  
42 therefore not cumulatively affect the visual character or quality of the area. 115-kV Segments ASP3 and  
43 ASP2 would be located near or in line with 115-kV Segments VIG3 and VIG4. These areas contain  
44 electric transmission infrastructure or other overhead utilities (e.g., street lights) where and/or near to  
45 where the projects would be located. Their cumulative impact on the visual character of the area would be  
46 less than significant.

47  
48 There would be no nighttime lighting associated with the proposed Valley-Ivyglen Project. This project  
49 would not contribute to a cumulative impact related to nighttime lighting.

1 **6.3.1.4 Alberhill Project**

2  
3 **Cumulative Scenario**

4 Table 6-3 presents the cumulative projects that form the cumulative scenario for the aesthetic impacts  
5 associated with the proposed Alberhill Project.

6 **Table 6-3 ASP Cumulative Projects within the Aesthetics Geographic Scope**

Alberhill Project Component	Cumulative Projects within the Geographic Scope
Alberhill Substation, 115-kV Segment ASP1, ASP1.5, and ASP2	Valley-Ivyglen Project (115-kV Segment VIG5 and VIG6)
115-kV Segment ASP2	Valley-Ivyglen Project (115-kV Segment VIG3 and VIG4), Alberhill Village, Alberhill Ranch, Alberhill Ridge
115-kV Segment ASP3	Valley-Ivyglen Project (115-kV Segment VIG3 and VIG4)
115-kV Segment ASP4	Summerly
115-kV Segment ASP5	Oak Creek Canyon
115-kV Segment ASP6	Hidden Hills
115-kV Segment ASP8	Valley-Ivyglen Project (115-kV Segment VIG1)

7  
8 **Cumulative Impacts**

9 None of the cumulative projects would be visible from Lake Elsinore General Plan Vantage Point 1, the  
10 one scenic vista point from which part of the proposed Alberhill Project would be visible. Thus, the  
11 proposed Alberhill Project would not contribute to a cumulative visual impact related to scenic vistas.

12  
13 None of the cumulative projects would be clearly visible at the same time as the proposed project from  
14 I-15 or SR-74, which are both Eligible Scenic Highways. All of the cumulative projects are either too far  
15 away from I-15 to be clearly visible or are otherwise shielded from the views of drivers on I-15 or SR-74.  
16 There would be no cumulative impact related to scenic highways.

17  
18 Several Alberhill Project components would be in the same viewshed as projects in the cumulative  
19 scenario (Table 6-3). All of these cumulative projects except the proposed Valley-Ivyglen Project are  
20 housing developments, some of which may include minor commercial uses and, in at least one case,  
21 educational facilities.

22  
23 Construction of new homes and commercial facilities within large residential developments and in  
24 developments that encroach on open space is a typical sight in the region, given the extensive housing  
25 construction and development that has taken place there in recent years. The construction and presence of  
26 housing developments is consistent with the existing visual character of the area, such that the housing  
27 projects visible in the same viewshed as the proposed Alberhill Project would not contribute to a  
28 cumulative adverse impact to visual character or quality. The proposed project's visual impact during  
29 construction would be similar to those of construction activities associated with housing developments  
30 and therefore would be visually consistent with other activities in the area. Where the proposed Alberhill  
31 Project would overlap with the proposed Valley-Ivyglen Project, the proposed Alberhill Project would  
32 only involve stringing conductor on poles installed for the proposed Valley-Ivyglen Project and therefore  
33 would not have the appearances of construction activities. The proposed project's construction would  
34 therefore not combine with other project construction activities to, on a cumulative level, result in a  
35 significant impact to the aesthetic character or quality of the area.

36  
37 Construction of the proposed Alberhill Project could utilize some nighttime lighting, and conductor may  
38 produce glare during operation. While construction of the cumulative projects is likely to take place  
39 during the day given the character of the projects (housing and a commercial building), constructed  
40 housing, commercial, and educational uses would contain light sources such as street lights, home lights,

1 and sign lights. The large increase in housing in currently undeveloped areas would create a wide-ranging  
2 light source that could significantly affect nighttime views. The proposed Alberhill Project's use of  
3 nighttime lighting would contribute to this potentially significant cumulative impact. Construction  
4 lighting associated with the proposed Alberhill Project would be temporary, short term, and oriented to  
5 minimize light pollution. The proposed project's contribution to a significant cumulative impact would  
6 therefore not be cumulatively considerable.

7  
8 The presence of large housing developments is visually consistent with the character of the surrounding  
9 communities, where significant numbers of houses have been constructed in recent years and are  
10 therefore commonplace among open space. Alberhill Ranch, Alberhill Ridge, Alberhill Village,  
11 Summerly, Oak Creek Canyon, and Hidden Hills would therefore not contribute to a cumulative visual  
12 impact once they are constructed.

13  
14 Operation and maintenance of the proposed Alberhill Project would contribute to a cumulative impact  
15 only where it would overlap with the proposed Valley-Ivyglen Project. Operation and maintenance of the  
16 proposed Valley-Ivyglen Project would take place in the same location as, and within view of, the  
17 Alberhill Substation and 115-kV Segments ASP1, ASP1.5, ASP2, ASP3, and ASP8. The presence of  
18 aboveground components of both projects (including ASP 1, ASP1.5, and ASP2) in the vicinity of the  
19 substation would significantly change the existing visual character of the area, which currently has high  
20 intactness and high to moderate unity of view. Together, the projects would detract from these qualities  
21 and change the character of the area through addition of human-made industrial structures in the area.  
22 This would be a significant impact. The principal visual changes in this area are associated with the  
23 proposed Alberhill Project, as this project would include substation and transmission components, while  
24 the proposed Valley-Ivyglen Project would involve only pole replacement. The proposed Alberhill  
25 Project's contribution to a significant cumulative impact would therefore be cumulatively considerable.  
26 While mitigation would reduce impacts, as described for Impact VR-3 (ASP), impacts would remain  
27 significant even after mitigation. The cumulatively considerable contribution to the visual impacts in the  
28 Alberhill Substation area would be significant and unavoidable.

29  
30 Where 115-kV Segment ASP8 is located near 115-kV Segment VIG1, there is already substantial  
31 aboveground electric transmission infrastructure. Addition of several new poles in this area as part of both  
32 projects would therefore not cumulatively affect the visual character or quality of the area. 115-kV  
33 Segments ASP3 and ASP2 would be located near or in line with 115-kV Segments VIG3 and VIG4.  
34 These areas contain electric transmission infrastructure or other overhead utilities (e.g., street lights)  
35 where and/or near to where the projects would be located. Their cumulative impact on the visual character  
36 of the area would be less than significant.

37  
38 Operation of the proposed Alberhill Project may involve lighting for security at the substation. As  
39 previously discussed, constructed housing, commercial, and educational uses would contain light sources  
40 such as street lights, home lights, and sign lights. The large increase in housing in currently undeveloped  
41 areas would create a wide-ranging light source that could significantly affect nighttime views. The  
42 proposed project's use of lighting at the substation would contribute to this potentially significant  
43 cumulative impact. Lighting installed at the proposed substation would conform to Riverside County  
44 Ordinance 655, which regulates and specifies criteria for light pollution. The proposed Alberhill Project  
45 would be located in an area that requires lighting to be fully shielded, if feasible, and partially shielded in  
46 all other cases, as well as focused to minimize light spillage. Maintenance lights would be used only when  
47 required for maintenance or emergency repairs that occur at night. The proposed project's contribution to  
48 a significant cumulative impact would therefore not be cumulatively considerable.

1 **6.3.2 Agriculture and Forestry Resources**

2  
3 **6.3.2.1 Approach**

4  
5 The cumulative agriculture and forestry resources analysis uses the summary of projections approach.  
6 Agriculture and forestry resources are often managed at the County level (e.g., most California counties  
7 have Farm Bureaus) and therefore analysis at the project list level would not capture an adequately  
8 descriptive cumulative scenario. Instead, a summary of projections approach at the County level is more  
9 appropriate to characterize potentially cumulative impacts.

10  
11 **6.3.2.2 Geographic Scope**

12  
13 The geographic scope of cumulative impacts on agriculture and forestry resources includes lands  
14 designated as Prime Farmland, Unique Farmland, and Farmland of Statewide Importance in Riverside  
15 County. As discussed, the geographic scope includes the entirety of Riverside County because  
16 agricultural resources are managed at that level

17  
18 **6.3.2.3 Cumulative Scenario**

19  
20 The Riverside County General Plan EIR found that the conversion of Prime, Unique, and Statewide  
21 Important Farmland and other agricultural land under the General Plan would be significant and  
22 unavoidable (County of Riverside 2003a). The Draft EIR for Riverside County’s current General Plan  
23 update notes that under the existing General Plan, there would be a 250 percent increase in loss of Prime  
24 Farmland to urban and suburban development in unincorporated Riverside County (County of Riverside  
25 2015). Lake Elsinore does not have Farmland within its city limits (City of Lake Elsinore 2011a). The  
26 Menifee General Plan buildout would result in conversion of about 522 acres of Farmland to non-  
27 agricultural use (City of Menifee 2013a). The City of Perris eliminated agricultural land use designations  
28 under its 1991 General Plan (City of Perris 2005b). Given the substantial projected loss of Prime  
29 Farmland across the county, there would be a significant cumulative impact related to loss of Farmland.

30  
31 **6.3.2.4 Cumulative Impacts**

32  
33 ***Valley-Ivyglen Project***

34 The proposed Valley-Ivyglen Project would not impact forest land, timberland, or land zoned as  
35 Timberland Production and would therefore not contribute to cumulative impacts. The proposed Valley-  
36 Ivyglen Project would not involve changes that could indirectly result in conversion of Farmland to non-  
37 agricultural use or conversion of Forest Land to non-forest use. This section therefore does not further  
38 address the proposed Valley-Ivyglen Project’s impacts to Farmland, forest land, timber land, and land  
39 zoned as Timberland Production.

40  
41 The proposed Valley-Ivyglen Project would result in permanent conversion of 0.60 acres of Farmland to  
42 non-Farmland use. In 2012, there were about 426,226 acres of Important Farmland in Riverside County  
43 (CDC 2012). The average annual acreage loss is about 4,883 acres, or about 1.1 percent of Farmland per  
44 year. The proposed project’s contribution to Farmland conversion would be about 0.005 percent of the  
45 annual conversion amount and would therefore not be cumulatively considerable.

46  
47 ***Alberhill Project***

48 The proposed Alberhill Project would not impact forest land, timberland, or land zoned as Timberland  
49 Production and would therefore not contribute to cumulative impacts. The proposed Alberhill Project  
50 would not involve changes that could indirectly result in conversion of Farmland to non-agricultural use

1 or conversion of Forest Land to non-forest use. This section therefore does not further address the  
2 proposed Alberhill Project’s impacts to Farmland, forest land, timber land, and land zoned as Timberland  
3 Production.

4  
5 The Alberhill Project would result in permanent conversion of 0.05 acres of Farmland to non-Farmland  
6 use. In 2012, there were about 196,568 acres of Important Farmland in Riverside County (CDC 2012).  
7 The average annual acreage loss is about 4,883 acres, or about 1.1 percent of Farmland per year. The  
8 project’s contribution to Farmland conversion would be about 0.001 percent of the annual conversion  
9 amount. Therefore, the project’s contribution to Farmland conversion would not be cumulatively  
10 considerable.

11  
12 **6.3.3 Air Quality**

13  
14 **6.3.3.1 Approach**

15  
16 The South Coast Air Quality Management District (SCAQMD) applies the same significance thresholds  
17 to cumulative impacts as to project-level impacts. The SCAQMD considers impacts that exceed  
18 significance thresholds to be cumulatively considerable (SCAQMD 2015). Given that the significance  
19 thresholds are based on attainment of air quality standards across a large area, this analysis uses the  
20 summary of projections approach via application of SCAQMD significance thresholds.

21  
22 **6.3.3.2 Geographic Scope**

23  
24 The geographic scope for air quality impacts is the air basin in which the proposed projects are located—  
25 the South Coast Air Basin—given that air basins are defined for air quality management based on their  
26 “similar meteorological and geographic conditions throughout” (CARB 2014a).

27  
28 **6.3.3.3 Valley-Ivyglen Project**

29  
30 Riverside County, the area of the South Coast Air Basin where the proposed Valley-Ivyglen Project  
31 would be located, is in nonattainment status for several criteria pollutants:

- 32
- |                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• National Ambient Air Quality Standards               <ul style="list-style-type: none"> <li>- Ozone</li> <li>- Particulate matter less than or equal to 2.5 microns in diameter (PM<sub>2.5</sub>)</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• California Ambient Air Quality Standards               <ul style="list-style-type: none"> <li>- Ozone</li> <li>- PM<sub>2.5</sub></li> <li>- Particulate matter less than or equal to 10 microns in diameter (PM<sub>10</sub>)</li> </ul> </li> </ul> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

33  
34 Nonattainment status is a significant cumulative air quality impact. As discussed in Section 4.3, “Air  
35 Quality,” Impact AQ-3 (VIG), the proposed Valley-Ivyglen Project would make a cumulatively  
36 considerable contribution to PM<sub>10</sub> and PM<sub>2.5</sub> emissions that cause non-attainment. Project Commitment J  
37 would be implemented, but PM<sub>10</sub> and PM<sub>2.5</sub> emissions would still be cumulatively considerable.  
38 Mitigation Measure (MM) AQ-1 and MM AQ-3 would be implemented to further reduce PM<sub>10</sub> and PM<sub>2.5</sub>  
39 emissions, but emissions would still be significant and therefore cumulatively considerable.  
40

1 **6.3.3.4 Alberhill Project**

2  
3 Riverside County, the area of the South Coast Air Basin where the proposed Alberhill Project would be  
4 located, is in nonattainment for several criteria pollutants:

- 5
- |                                                                                                                                         |                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• National Ambient Air Quality Standards</li> <li>- Ozone</li> <li>- PM<sub>2.5</sub></li> </ul> | <ul style="list-style-type: none"> <li>• California Ambient Air Quality Standards</li> <li>- Ozone</li> <li>- PM<sub>2.5</sub></li> <li>- PM<sub>10</sub></li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6  
7 Nonattainment status is a significant cumulative air quality impact. As discussed in Section 4.3, Impact  
8 AQ-3 (ASP), the proposed Alberhill Project would make a cumulatively considerable contribution to  
9 PM<sub>2.5</sub>, PM<sub>10</sub>, and volatile organic compounds (VOC) and oxides of nitrogen (NO<sub>x</sub>) (ozone precursors).  
10 Project Commitment J would be implemented, but PM<sub>2.5</sub>, PM<sub>10</sub>, VOC, and NO<sub>x</sub> emissions would still be  
11 cumulatively considerable. MM AQ-1 and MM AQ-2 would reduce NO<sub>x</sub> emissions to less than  
12 significant. MM AQ-1 and MM AQ-5 would reduce VOC levels to less than significant. MM AQ-1 and  
13 MM AQ-3 would reduce PM<sub>2.5</sub> and PM<sub>10</sub> emissions, but not to less than significant levels. Thus,  
14 construction of the proposed Alberhill Project would result in a cumulatively considerable net increase of  
15 PM<sub>10</sub> and PM<sub>2.5</sub>.

16  
17 **6.3.4 Biological Resources**

18  
19 **6.3.4.1 Approach**

20  
21 The cumulative biological resources analysis for this EIR uses the summary of projections approach. The  
22 proposed project area is located in a region covered by the Western Riverside County MSHCP, a  
23 coordinated planning effort to protect biodiversity in the region. The Western Riverside County MSHCP  
24 is a comprehensive, multi-jurisdictional plan that focuses on conservation of 146 species and their  
25 associated habitats throughout Western Riverside County’s 1.26 million acres over a 75-year time frame.  
26 Therefore, the most appropriate cumulative analysis for this EIR is to use information in the MSHCP to  
27 determine if there would be cumulative impacts to biological resources as a result of the proposed  
28 projects.

29  
30 **6.3.4.2 Geographic Scope**

31  
32 The geographic scope of cumulative impacts on biological resources includes the Western Riverside  
33 County MSHCP planning area, given that conservation and biological resources protection efforts are  
34 coordinated at a regional level within the planning area.

35  
36 **6.3.4.3 Cumulative Scenario**

37  
38 The Final EIR/Environmental Impact Statement for the Western Riverside County MSHCP contains  
39 projections that describe or evaluate conditions contributing to cumulative biological effects, which were  
40 used to identify the cumulative scenario for the proposed Alberhill Project. These projections include:

- 41
- 42 • Planned Land Use Within Western Riverside County from County and City General Plans;
  - 43 • Growth forecasts from the Southern California Association of Governments and Western  
44 Riverside County Cities; and
  - 45 • Land use change under a No Project/No MSHCP Alternative.

1  
2 **6.3.4.4 Cumulative Impacts**

3  
4 ***Valley-Ivyglen Project***

5 Riverside County is expected to experience dramatic residential and commercial development over the  
6 next 20 years. Such development would involve many large-scale construction projects that may encroach  
7 on biological resources, potentially impacting sensitive communities, special status species, and  
8 biological diversity. Urbanization and development will impact the ability of certain plant and animal  
9 species to forage, breed, and develop in their natural habitat. The Western Riverside County MSHCP is  
10 intended to minimize impacts to Listed Covered Species and Non-Listed Species to the extent feasible  
11 and requires development projects undertaken within the plan area to implement mitigation that will  
12 reduce their impacts. Given these elements, development within the MSHCP area while the MSHCP is in  
13 effect would result in a less than significant cumulative impact to Listed Covered Species, but would  
14 result in a significant, unavoidable cumulative impact to Non-Covered Species

15  
16 As analyzed in this EIR's Section 4.4, "Biological Resources," the proposed Valley-Ivyglen Project  
17 would result in a less than significant impact to special status species, riparian habitat and coast live oak  
18 woodlands, federally protected wetlands, and migration of native resident or migratory fish or wildlife  
19 with the implementation of mitigation. The mitigation measures detailed in the biological resource section  
20 require the avoidance and minimization of impacts to special status species and habitat and the  
21 implementation of restoration measures for areas that are temporarily disturbed in order for the applicant  
22 to become a Participating Special Entity (PSE) to the Western Riverside MSHCP. Because Southern  
23 California Edison (SCE) would be a PSE to the Western Riverside County MSHCP, permanent impacts  
24 to biological resources would amount to approximately 118 acres of land (Table 2-5). Moreover, planned  
25 buildout of the General Plan, as outlined in the MSHCP, would include conversion of 491,300 acres of  
26 land to permanent development; for these reasons, the proposed Valley-Ivyglen Project's incremental  
27 effects would not be cumulatively considerable.

28  
29 ***Alberhill Project***

30 As noted above, Riverside County is expected to experience dramatic residential and commercial  
31 development over the next 20 years. Such development will involve many large-scale construction  
32 projects that may encroach on biological resources, potentially impacting sensitive communities, special  
33 status species, and biological diversity. Urbanization and development will impact the ability of certain  
34 plant and animal species to forage, breed, and develop in their natural habitat. The Western Riverside  
35 County MSHCP is intended to minimize impacts to Listed Covered Species and Non-Listed Species to  
36 the extent feasible and requires development projects undertaken within the plan area to implement  
37 mitigation that will reduce their impacts. Given these elements, development within the MSHCP area  
38 while the MSHCP is in effect would result in a less than significant impact to Listed Covered Species and  
39 Non-Listed Covered Species but would result in a significant, unavoidable cumulative impact to Non-  
40 Covered Species.

41  
42 As analyzed in Section 4.4, "Biological Resources," the proposed Alberhill Project would result in a less  
43 than significant impact with mitigation to special status species, riparian habitat and coast live oak  
44 woodlands, federally protected wetlands, and migration of native resident or migratory fish or wildlife  
45 with the implementation of mitigation. The mitigation measures detailed in the biological resource section  
46 require the avoidance and minimization of impacts to special status species and habitat and the  
47 implementation of restoration measures for areas that are temporarily disturbed in order for the applicant  
48 to become a PSE to the Western Riverside County MSHCP. Because SCE would be a PSE to the Western  
49 Riverside MSHCP, permanent impacts to biological resources would amount to approximately 94.9 acres  
50 of land (Table 2-5). Moreover, planned buildout of the General Plan, as outlined in the MSHCP, would

1 include conversion of 491,300 acres of land to permanent development; for these reasons, the proposed  
2 Alberhill Project’s incremental effects would not be cumulatively considerable.

3  
4 **6.3.5 Cultural Resources**

5  
6 **6.3.5.1 Approach**

7  
8 The cumulative cultural resources analysis for this EIR uses the project list approach. Cultural resources  
9 impacts are project-specific and highly localized. It is therefore most appropriate to use the project list  
10 approach so that cultural resources impacts of actual nearby projects can be taken into account in  
11 determining whether there would be significant cumulative cultural resources impacts as a result of the  
12 proposed projects.

13  
14 **6.3.5.2 Geographic Scope**

15  
16 The geographic scope of cumulative impacts to cultural resources would include all ground-disturbing  
17 projects within 100 feet of the proposed project that could impact known or undiscovered cultural  
18 resources.

19  
20 **6.3.5.3 Valley-Ivyglen Project**

21 ***Cumulative Scenario***

22  
23 Table 6-4 lists the cumulative projects that form the cumulative scenario for Valley-Ivyglen cultural  
24 resources impacts. The proposed Alberhill Project would overlaps with the proposed Valley-Ivyglen  
25 Project along 115-kV Segment ASP2; however, there would be no ground-disturbance in this location as  
26 a result of the proposed Alberhill Project and 115-kV Segment ASP2 would not contribute to a  
27 cumulative impact to cultural resources in these locations. Therefore, the proposed Alberhill Project is  
28 not included in this discussion.

29 **Table 6-4 VIG Cumulative Projects within the Cultural Resources Geographic Scope**

Valley-Ivyglen Project Component	Cumulative Projects within the Geographic Scope
115-kV Segment VIG2	Colinas de Oro
115-kV Segment VIG5	Alberhill Village, Alberhill Ranch, Alberhill Ridge
115-kV Segment VIG8	Terramor

30  
31 This section addresses impacts along the entire lengths of 115-kV Segments VIG2, VIG5, and VIG8 to  
32 avoid disclosing precise locations of known cultural resources.

33  
34 ***Cumulative Impacts***

35 There are known cultural resources that could be impacted during construction or operation activities  
36 associated with 115-kV Segments VIG2, VIG5, and/or VIG8. Development associated with Alberhill  
37 Village, Colinas de Oro, Terramor, Alberhill Ranch, and Alberhill Ridge in these areas could also impact  
38 known resources through activities such as excavation and demolition of existing structures. There is a  
39 potential that these projects could impact the same resources as the proposed Valley-Ivyglen Project. If  
40 the affected resources are also eligible, and the impacts cause a substantial adverse change in the  
41 significance of the resource, there could be a cumulative significant impact.

42  
43 The contribution of the proposed Valley-Ivyglen Project to a potentially cumulative significant impact  
44 would be minimal. The proposed Valley-Ivyglen Project would involve Project Commitment B, a  
45 Worker Environmental Awareness Plan, which would train workers to recognize cultural resources.

1 Further, the proposed project would incorporate several mitigation measures that would further reduce  
2 impacts. MM CR-1 would require avoidance as mitigation and, when avoidance is not feasible, following  
3 procedures to ensure that any impacts to eligible historic resources or unique archaeological resources are  
4 not substantial and adverse. The proposed project's contribution to any significant impact on known  
5 historic resources would therefore not be cumulatively considerable.

6  
7 The cumulative projects may also significantly impact previously unknown cultural resources.  
8 Cumulative impacts would be potentially significant. The proposed project would incorporate measures to  
9 reduce impacts to cultural resources. MM CR-2 requires outlining monitoring procedures for ground  
10 disturbing activities in areas with moderate and high archaeological sensitivity. MM CR-3 outlines  
11 procedures for construction when a resource is discovered. If a resource is discovered, MM CR-1 would  
12 require avoidance as mitigation and, when avoidance is not feasible, following procedures to ensure that  
13 any impacts to eligible historic resources or unique archaeological resources are not substantial and  
14 adverse. The proposed Valley-Ivyglen Project's contribution to any significant impact on previously  
15 unknown historic resources would therefore not be cumulatively considerable.

16  
17 There are no known special paleontological resources or unique geologic features in the project area.  
18 There is a possibility of uncovering paleontological resources along 115-kV Segments VIG2, VIG5, and  
19 VIG8 given the paleontological sensitivity of these areas. It follows that the cumulative projects located  
20 along these segments may also result in discovery of paleontological resources during excavation and  
21 grading activities. There is a possibility, therefore, of a significant cumulative impact. The proposed  
22 Valley-Ivyglen Project, however, would be implemented with mitigation measures that would reduce  
23 potential impacts. MM CR-4 would require monitoring of paleontologically sensitive areas. MM CR-5  
24 outlines procedures to follow in the case of discovery of a paleontological resource to ensure that any  
25 impacts to discovered unique paleontological resources are reduced. The proposed Valley-Ivyglen  
26 Project's contribution to any significant impact on previously unknown paleontological resources would  
27 therefore not be cumulatively considerable.

28  
29 There are no known burial sites along 115-kV segments VIG2, VIG5, and VIG8, but there is a potential  
30 that any of the cumulative projects may unearth previously undiscovered human remains. Given that  
31 statutory and regulatory requirements that outline procedures in such an event would apply to all the  
32 projects, the same remains would not be unearthed by multiple projects. There would be no cumulative  
33 significant impact.

#### 34 35 **6.3.5.4 Alberhill Project**

##### 36 37 ***Cumulative Scenario***

38 Where the proposed Alberhill Project would occur in the same location as the proposed Valley-Ivyglen  
39 Project, the ASP project components would be placed on structures for the VIG project. Thus, there  
40 would be no ground-disturbance in these locations as a result of the ASP project and 115-kV segment  
41 ASP2 would not contribute to a cumulative impact to cultural resources in these locations. Cumulative  
42 impacts along ASP2 are therefore not discussed. Table 6-5 lists cumulative projects that form the  
43 cumulative scenario for cultural resources impacts associated with the proposed Alberhill Project.  
44

**Table 6-5 ASP Cumulative Projects within the Cultural Resources Geographic Scope**

Alberhill Project Component <sup>(1)</sup>	Cumulative Projects within the Geographic Scope
115-kV Segment ASP4	Summerly
115-kV Segment ASP5	Oak Creek Canyon
115-kV Segment ASP6	Hidden Hills

Note:

(1) 115-kV Segment ASP2 would not require any ground-disturbance activities; and would not contribute to a cumulative impact to cultural resources. Therefore, this component is not included in this discussion.

1  
2 This section addresses impacts along the entire lengths of ASP4, ASP5, and ASP6 to avoid disclosing  
3 precise locations of resources.  
4

5 **Cumulative Impacts**

6 There are known resources that could be impacted during construction or operation activities associated  
7 with 115-kV Segments ASP4, ASP5, and/or ASP6. Development in these areas associated with  
8 Summerly (ASP4), Oak Creek Canyon (ASP5), and Hidden Hills (ASP6) could also impact known  
9 resources through activities such as excavation and demolition of existing structures. There is a potential  
10 that these projects could impact the same resources as the proposed Alberhill Project. If the affected  
11 resources are also eligible or found to be eligible, and the impacts cause a substantial adverse change in  
12 the significance of the resource, there could be a cumulative significant impact.  
13

14 The contribution of the proposed Alberhill Project to a potentially cumulative significant impact would be  
15 minimal. The proposed project would involve Project Commitment B, a Worker Environmental  
16 Awareness Plan, which would train workers to recognize cultural resources. Further, the proposed project  
17 would incorporate several mitigation measures that would further reduce impacts. MM CR-1 would  
18 require avoidance as mitigation and, when avoidance is not feasible, following procedures to ensure that  
19 any impacts to eligible historic resources or unique archaeological resources are not substantial and  
20 adverse. The proposed Alberhill Project’s contribution to any significant impact on known historic  
21 resources would therefore not be cumulatively considerable.  
22

23 The cumulative projects and the proposed Alberhill Project may also impact previously unknown cultural  
24 resources, with impacts potentially being significant in the case that a historic resource or a unique  
25 archaeological resource experiences a substantial adverse effect. Cumulative impacts would be potentially  
26 significant. The proposed Alberhill Project would incorporate measures to reduce impacts to cultural  
27 resources. The proposed project would involve Project Commitment B, a Worker Environmental  
28 Awareness Plan, which would train workers to recognize cultural resources. MM CR-2 requires outlining  
29 monitoring procedures for ground disturbing activities in areas with moderate and high archaeological  
30 sensitivity. MM CR-3 outlines procedures for construction when a resource is discovered. If a resource is  
31 discovered, MM CR-1 would require avoidance as mitigation and, when avoidance is not feasible,  
32 following procedures to ensure that any impacts to eligible historic resources or unique archaeological  
33 resources are not substantial and adverse. The proposed Alberhill Project’s contribution to any significant  
34 impact on previously unknown historic resources would therefore not be cumulatively considerable.  
35

36 There are no known special paleontological resources or unique geologic features in the project area.  
37 There is a possibility of uncovering paleontological resources along 115-kV Segments VIG5 and VIG8,  
38 given the paleontological sensitivity of these areas. It follows that the cumulative projects located along  
39 these segments may also result in discovery of paleontological resources during excavation and grading  
40 activities. There is a possibility, therefore, of a significant cumulative impact. The proposed Alberhill  
41 Project, however, would be implemented with mitigation measures that would reduce potential impacts.  
42 MM CR-4 would require monitoring of paleontologically sensitive areas. MM CR-5 outlines procedures  
43 to follow in the case of discovery of a paleontological resource to ensure that any impacts to discovered

1 unique paleontological resources are reduced. The proposed project’s contribution to any significant  
2 impact on previously unknown paleontological resources would therefore not be cumulatively  
3 considerable.

4  
5 There are no known burial sites along 115-kV segments ASP4, ASP5, and ASP6, but there is a potential  
6 that any of the cumulative projects may unearth previously undiscovered human remains. Given that  
7 statutory and regulatory requirements that outline procedures in such an event would apply to all the  
8 projects, the same remains would not be unearthed by multiple projects. There would be no cumulative  
9 significant impact.

10  
11 **6.3.6 Geology, Soils, and Mineral Resources**

12  
13 **6.3.6.1 Approach**

14  
15 The cumulative geology, soils, and mineral resources analysis uses the project list approach. Geology,  
16 soils, and mineral resources impacts are project-specific and highly localized. It is therefore most  
17 appropriate to use the project list approach so that geology, soils, and mineral resources impacts of actual  
18 nearby projects can be taken into account in determining whether there would be significant cumulative  
19 geology, soils, and mineral resources impacts.

20  
21 **6.3.6.2 Geographic Scope**

22  
23 The geographic scope of cumulative impacts would include all ground-disturbing projects in the within  
24 about 0.1 mile of the proposed project. For geology, soils, and mineral resources impacts of different  
25 projects to accumulate, the projects must be close together so that impacts occur in the same location.

26  
27 **6.3.6.3 Valley-Ivyglen Project**

28  
29 ***Cumulative Scenario***

30 Note that where the proposed Alberhill Project would overlap with the proposed Valley-Ivyglen Project  
31 along 115-kV Segment ASP2, there would be no ground-disturbance as a result of the proposed Alberhill  
32 Project, and 115-kV segment ASP2 would not contribute to a cumulative impact to cultural resources in  
33 these locations. The proposed Alberhill Project is therefore not included in this discussion. Table 6-6 lists  
34 cumulative projects that form the cumulative scenario for proposed Valley-Ivyglen Project geology, soils,  
35 and mineral resources impacts.

36  
37 **Table 6-6 VIG Cumulative Projects within the Geology, Soils, and Mineral Resources Geographic Scope**

Valley-Ivyglen Project Component	Cumulative Projects within the Geographic Scope
115-kV Segment VIG1	Valley South Subtransmission Project
115-kV Segment VIG2	Colinas de Oro
115-kV Segment VIG3	Walmart Lake Elsinore
115-kV Segment VIG5	Alberhill Village, Alberhill Ranch, Alberhill Ridge
115-kV Segment VIG8	Terramor

38  
39 ***Cumulative Impacts***

40 The cumulative projects may have the potential to expose people or structures to seismic risks. However,  
41 there is a less than significant potential of the cumulative projects in combination with the proposed  
42 Valley-Ivyglen Project to expose people or structures to a substantial adverse risk. Structures and  
buildings would be constructed consistent with current building codes, which would minimize the

1 potential for severe damage and loss of life. There would not be a significant cumulative impact related to  
2 seismic hazards.

3  
4 All of the cumulative projects would require ground disturbance, with many of them requiring a  
5 substantial amount of ground disturbance or grading given their size, which could lead to increased  
6 erosion rates. The cumulative projects would each disturb more than 1 acre of land and therefore would  
7 have to comply with the National Pollutant Discharge Elimination System (NPDES) program. The  
8 NPDES would require the preparation and implementation of Stormwater Pollution Prevention Plans  
9 (SWPPPs) for construction activities to ensure the reduction of pollutants during stormwater discharges.  
10 Given that the cumulative projects and the proposed Valley-Ivyglen Project would implement standard  
11 stormwater pollution prevention mitigation measures to ensure that earthwork activities do not result in  
12 substantial erosion off-site, the proposed Valley-Ivyglen Project would make no cumulatively  
13 considerable contribution to any significant cumulative impact.

14  
15 It is likely that the cumulative projects would be located at least partially on an unstable geologic unit or  
16 on expansive soil given their sizes and locations. However, the component of the proposed Valley-  
17 Ivyglen Project adjacent to the cumulative project would not be located on soils known to be geologically  
18 unstable. Additionally, the proposed Valley-Ivyglen Project would incorporate Project Commitment F,  
19 which states that the applicant would follow recommendations from a geotechnical study. With this  
20 project commitment, the proposed project's contribution to a cumulative impact in this area would not be  
21 cumulatively considerable. The proposed Valley-Ivyglen Project would therefore not contribute to a  
22 cumulative impact in this area.

23  
24 The proposed Valley-Ivyglen Project would not utilize a septic system and would therefore not contribute  
25 to any cumulative soil impact related to septic systems.

26  
27 Most of the proposed Valley-Ivyglen Project would be located in MRZ-3 (mineral resources unknown)  
28 and therefore would not contribute to impacts on known mineral resources. Some portions of Segments  
29 VIG8 and VIG5 are located in MRZ-2 areas, where mineral deposits are present or likely to be present.  
30 Alberhill Village, Alberhill Ridge, and Alberhill Ranch are also located in this area at least partially in  
31 areas mapped as MRZ-2. The Final Program EIR for the General Plan Update for Lake Elsinore states  
32 that compliance with the General Plan policies related to mineral extraction would maintain availability of  
33 mineral resources (City of Lake Elsinore 2011b). Given that ground disturbing activities associated with  
34 the proposed Valley-Ivyglen Project would occur only where poles would be erected, would not interfere  
35 with ongoing recovery activities, and would not be located in areas where future resource recovery could  
36 reasonably occur, the cumulative impact of all of these projects would be less than significant.

#### 37 38 **6.3.6.4 Alberhill Project**

##### 39 ***Cumulative Scenario***

40  
41 Where the proposed Alberhill Project would occur in the same location as the proposed Valley-Ivyglen  
42 Project, the ASP project components would be placed on structures for the VIG project. Thus, there  
43 would be no ground-disturbance in these locations as a result of the proposed Alberhill Project, and 115-  
44 kV segment ASP2 would not contribute to a cumulative impact to cultural resources in these locations.  
45 Cumulative impacts along ASP2 are therefore not discussed. Table 6-7 lists cumulative projects that form  
46 the cumulative scenario for proposed Alberhill Project geology, soils, and mineral resources impacts.

**Table 6-7 ASP Cumulative Projects within the Geology, Soils, and Mineral Resources Geographic Scope**

Alberhill Project Component <sup>(1)</sup>	Cumulative Projects within the Geographic Scope
115-kV Segment ASP4	Summerly
115-kV Segment ASP5	Oak Creek Canyon
115-kV Segment ASP6	Hidden Hills

Note:

(1) 115-kV Segment ASP2 would not require any ground-disturbance activities and would not contribute to a cumulative impact to cultural resources. Therefore, this component is not included in this discussion.

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42

**Cumulative Impacts**

The cumulative projects may have the potential to expose people or structures to seismic risks. However, there is a less than significant potential of the cumulative projects in combination with the proposed Alberhill Project to expose people or structures to a substantial adverse risk. Structures and buildings would be constructed consistent with current building codes, which would minimize the potential for severe damage and loss of life. There would not be a significant cumulative impact related to seismic hazards.

All of the cumulative projects would require ground disturbance, with many of them requiring a substantial amount of ground disturbance or grading given their size, which could lead to increased erosion rates. The cumulative projects would each disturb more than 1 acre of land and therefore would have to comply with the NPDES program. The NPDES would require the preparation and implementation of SWPPPs for construction activities to ensure the reduction of pollutants during stormwater discharges. Given that the cumulative projects and the proposed Alberhill Project would implement standard stormwater pollution prevention mitigation measures to ensure that earthwork activities do not result in substantial erosion off site, the proposed Alberhill Project would make no cumulatively considerable contribution to any significant cumulative impact.

It is likely that the cumulative projects would be located at least partially on an unstable geologic unit or on expansive soil given their sizes and locations. However, the components of the proposed Alberhill Project adjacent to the cumulative project are not located on soils known to be geologically unstable. Additionally, the proposed Alberhill Project would incorporate Project Commitment F, which states the applicant would perform and implement recommendations from a geotechnical study. With this project commitment, the proposed project’s contribution to a cumulative impact in this area would not be cumulatively considerable. The proposed Alberhill Project would therefore not contribute to a cumulative impact in this area.

The proposed Alberhill Project would include a restroom in approximately the middle of the substation on an on-site septic system. No other septic systems would be located in the area of the substation septic system, eliminating the potential for cumulative impacts due to septic systems.

None of the ground-disturbing components of the proposed project would be located in an area with known mineral resources; therefore, the proposed Alberhill Project would not contribute to a cumulative impact in this resource area.

**6.3.7 Greenhouse Gases**

**6.3.7.1 Approach**

The cumulative GHG analysis for this EIR uses the summary of projections approach. GHGs and their impacts are a global phenomenon and therefore analysis at the project list level would not capture an

1 adequately descriptive cumulative scenario. Instead, a summary of projections approach at the state level  
2 is more appropriate to characterize potentially cumulative impacts for the proposed projects.

3  
4 The CEQA Guidelines address how a lead agency can assess cumulative impacts of projects that emit  
5 GHGs (CEQA Guidelines section 15064(h)(3)) as follows:

6  
7 A lead agency may determine that a project's incremental contribution to a cumulative effect is  
8 not cumulatively considerable if the project will comply with the requirements in a previously  
9 approved plan or mitigation program (including, but not limited to . . . regulations for the  
10 reduction of greenhouse gas emissions) that provides specific requirements that will avoid or  
11 substantially lessen the cumulative problem within the geographic area in which the project is  
12 located.

### 13 14 **6.3.7.2 Geographic Scope**

15  
16 The geographic scope of cumulative impacts from GHGs is global; however, state-level projections are  
17 used since a substantial amount of GHG reduction programs are undertaken at the state level.

### 18 19 **6.3.7.3 Cumulative Scenario**

20  
21 Regional and global development patterns continue to rely on methods and practices that contribute large  
22 volumes of GHGs to the atmosphere, and impacts related to GHGs have widespread and potentially very  
23 harmful consequences. The increase in GHGs in the atmosphere caused in large part by human activity is  
24 now considered a key cause of global climate change. Current scientific research indicates that potential  
25 effects of climate change include variations in temperature and precipitation, sea-level rise, impacts on  
26 biodiversity and habitat, impacts on agriculture and forestry, and human health and social impacts. As  
27 described in the state's Climate Change Scoping Plan of 2008 (CARB 2008), GHG sources in the state  
28 collectively result in emissions that are higher than the targets established by Assembly Bill 32, which  
29 indicates that GHG emissions in the state continue to contribute to a total significant statewide cumulative  
30 impact.

### 31 32 **6.3.7.4 Cumulative Impacts**

33  
34 GHG emissions on a global level would result in a significant cumulative impact, as described in the  
35 cumulative scenario. Climate change causes impacts such as more hot days, changes in agricultural  
36 growing cycles, degraded air quality, increased wildfire danger, and rising sea level (CARB 2014b).

### 37 38 ***Valley-Ivyglen Project***

39 The proposed Valley-Ivyglen Project would contribute to the significant cumulative GHG impact  
40 because it would result in emissions of GHGs. During construction and operation, emissions would be  
41 generated by equipment/vehicle usage. The proposed project would comply with regulations related to  
42 reduction of GHG emissions from heavy-duty trucks during construction, including the Low Carbon Fuel  
43 Standard and, if applicable by the start of the proposed project, "Phase 2" heavy-duty truck GHG  
44 standards and other standards and regulations adopted over time.

45  
46 Given compliance with GHG emissions reduction regulations with specific requirements to lessen the  
47 cumulative effects of such emissions, the proposed Valley-Ivyglen Project's contribution to the  
48 cumulative significant impact would not be cumulatively considerable.

1 **Alberhill Project**

2 The proposed Alberhill Project would contribute to the significant cumulative GHG impact because it  
3 would result in emissions of GHGs. During construction, emissions would be generated by  
4 equipment/vehicle usage. During operation, emissions would be generated by equipment/vehicle usage  
5 and through sulfur hexafluoride (SF<sub>6</sub>) leakage from gas-insulated equipment at the proposed substation.  
6

7 The proposed Alberhill Project would comply with regulations related to reduction of GHG emissions  
8 from heavy-duty trucks during construction, including the Low Carbon Fuel Standard and, if applicable  
9 by the start of the proposed project, “Phase 2” heavy-duty truck GHG standards and other standards and  
10 regulations adopted over time.  
11

12 The proposed Alberhill Project would comply with regulations for the reduction of SF<sub>6</sub> emissions that are  
13 designed to reduce SF<sub>6</sub> emissions from gas insulated switchgear (17 California Code of Regulations  
14 [CCR] § 95350), including:  
15

- 16 • **17 CCR § 95352:** Sets the maximum annual SF<sub>6</sub> emission rate for active gas insulated  
17 switchgear, decreasing to 1.0 percent per year in 2020
- 18 • **17 CCR § 95354–55:** Outlines inventory measurement procedures and recordkeeping
- 19 • **17 CCR § 95356:** Outlines annual reporting requirements  
20

21 Given compliance with GHG emissions reduction regulations with specific requirements to lessen the  
22 cumulative effects of such emissions, the proposed Alberhill Project’s contribution to the cumulative  
23 significant impact would not be cumulatively considerable.  
24

25 **6.3.8 Hazards and Hazardous Materials**

26  
27 **6.3.8.1 Approach**  
28

29 The cumulative analysis related to hazardous materials for this EIR uses the project list approach to  
30 identify impacts. Hazardous materials impacts are project-specific and highly localized. It is therefore  
31 most appropriate to use the project list approach so that likely hazardous materials impacts of nearby  
32 projects can be taken into account in determining whether there would be significant cumulative hazards  
33 and hazardous materials impacts.  
34

35 The cumulative impacts discussion related to wildfire risk uses the summary of projections approach.  
36 Given that wildfires can spread across hundreds or thousands of acres, it is more meaningful to use a  
37 larger, countywide approach in assessing cumulative wildfire impacts.  
38

39 **6.3.8.2 Geographic Scope**  
40

41 The geographic scope of cumulative impacts would be the area within 0.1 miles of the proposed project  
42 disturbance areas. The limited geographic scope is due to the fact that there is low risk for a hazardous  
43 material spill or release as a result of the proposed project. The greatest risk includes spillage of gasoline,  
44 diesel fuel, oil, and lubricants during construction. In the event of an accident, none of the aforementioned  
45 substances are expected to be released in large quantities or to travel long distances. The geographic  
46 scope for wildfires is Riverside County.  
47

**6.3.8.3 Summary of Projections Cumulative Scenario (Wildfire)**

The 2003 Riverside County General Plan EIR does not address wildfire risk in terms of hazards (County of Riverside 2003a). The 2015 Riverside County General Plan EIR, however, states that Riverside County buildout would place development in areas with high and very high fire hazard (County of Riverside 2015). This buildout would be accompanied by an increase in fire occurrence from an increase in human presence in hazardous areas. The EIR concludes this growth would be a cumulatively considerable increase in fire hazard (County of Riverside 2015). Thus, the cumulative scenario moving forward is that of a cumulative significant impact related to wildfire exposure.

**6.3.8.4 Valley-Ivyglen Project**

***Project List Cumulative Scenario***

Table 6-8 lists cumulative projects that form the cumulative scenario for proposed Valley-Ivyglen Project hazards and hazardous materials impacts.

**Table 6-8 VIG Cumulative Projects within the Hazards and Hazardous Materials Geographic Scope**

<b>Valley-Ivyglen Project Component</b>	<b>Cumulative Projects within the Geographic Scope</b>
115-kV Segment VIG1	Valley South Subtransmission Project, Talavera, Mott Town Center
115-kV Segment VIG2	Colinas de Oro
115-kV Segment VIG3	Walmart Lake Elsinore
115-kV Segment VIG4	Alberhill Project(115-kV Segment ASP2)
115-kV Segment VIG5	Alberhill Project (115-kV Segment ASP2) , Alberhill Village, Alberhill Ranch, Alberhill Ridge
115-kV Segment VIG8	Terramor

***Cumulative Impacts***

All of the projects in the project list cumulative scenario would involve the use of hazardous materials in some form and to some degree. All projects would involve the use of heavy equipment and vehicles, which would introduce various fuels and oils and other associated materials into the project area. There is an intrinsic risk of spill of these materials during construction activities and, for the proposed Alberhill Project, during the post-construction phase. Any of these nearby projects being constructed at the same time as the proposed project would have to adhere to federal, state, and local regulations regarding handling, use, and disposal of hazardous materials. The cumulative projects would not have a significant impact on the routine transport, use, and disposal of hazardous materials and the proposed Valley-Ivyglen Project would not considerably contribute to create a cumulative significant impact.

The cumulative projects are not within 0.325 miles of a school that is within 0.25 miles of the proposed Valley-Ivyglen Project. Cumulative projects would not have a significant impact on release of hazardous materials within 0.25 miles of a school. Proposed Valley-Ivyglen Project would not considerably contribute to a cumulatively significant impact.

The proposed Valley-Ivyglen Project would have no impact on safety hazards from an airport land use plan or private airstrip; therefore, the proposed Valley-Ivyglen Project would not contribute to a cumulatively considerable impact.

No emergency or evacuation routes are identified in the Riverside County General Plan, Riverside County Emergency Operations Plan (EOP), or Local Hazard Mitigation Plan, the City of Lake Elsinore General Plan, the City of Perris General Plan, and the City of Menifee Draft General Plan in the vicinity of any of

1 component of the proposed Valley-Ivyglen Project (County of Riverside 2006, 2008, 2012; City of Perris  
2 2005a; City of Lake Elsinore 2011a; City of Menifee 2013a). The proposed Valley-Ivyglen Project would  
3 have no cumulative impact due to interference with an adopted emergency response plan or emergency  
4 evacuation plan.

5  
6 The proposed Valley-Ivyglen Project’s contribution to the significant cumulative fire risk impact would  
7 be mitigated through adhering to rules and regulations and standards. Additionally, MM HZ-5 would  
8 require preparation and implementation of a Fire Control and Emergency Response plan to reduce the risk  
9 of fire and impacts that would result should a fire occur. The proposed Valley-Ivyglen Project’s impacts  
10 on wildfire exposure would not be cumulatively considerable.

11  
12 **6.3.8.5 Alberhill Project**

13  
14 ***Project List Cumulative Scenario***

15 Table 6-9 lists the cumulative projects that form the cumulative scenario for the proposed Alberhill  
16 Project’s hazards and hazardous materials impacts.

17  
18 **Table 6-9 ASP Cumulative Projects within the Hazards and Hazardous Materials Geographic  
19 Scope**

<b>Alberhill Project Component</b>	<b>Cumulative Projects within the Geographic Scope</b>
115-kV Segment ASP2	Valley-Ivyglen Project (115-kV Segment VIG4 and VIG5), Alberhill Village, Alberhill Ranch, Alberhill Ridge
115-kV Segment ASP4	Summerly
115-kV Segment ASP5	Oak Creek Canyon
115-kV Segment ASP6	Hidden Hills

20  
21 ***Cumulative Impacts***

22 All of the projects in the project list cumulative scenario would involve the use of hazardous materials in  
23 some form and to some degree. All projects would involve the use of heavy equipment and vehicles  
24 during their construction, which would introduce various fuels, oils, and other associated materials into  
25 the project area. There is an intrinsic risk of spill of these materials during construction. Any of these  
26 nearby projects being constructed at the same time as the proposed project would have to adhere to  
27 federal, state, and local regulations regarding handling, use, and disposal of hazardous materials.  
28 Furthermore, both the Alberhill Project and Hidden Hills project are within 0.25 miles of the Menifee  
29 Valley Middle School. Cumulative impacts related to the routine transport, use, and disposal of hazardous  
30 materials, including within 0.25 miles of a school and the proposed Alberhill Project, would not  
31 considerably contribute to create cumulative significant impact.

32 While there are known leaking underground storage sites within 100 feet of the 115-kV Segment ASP4,  
33 neither site is in an area where it could be impacted by any of the projects in the project list cumulative  
34 scenario. There would be no cumulative impact.

35 None of the projects in the project list cumulative scenario except the proposed Valley-Ivyglen Project  
36 would pose a safety hazard to people living or residing within 2 miles of a public or private airport  
37 because the projects are not close enough to an airstrip to result in a hazardous condition for residents or  
38 workers and because they are residential projects and do not contain components tall enough to interfere  
39 with air traffic. While the proposed Alberhill Project would involve placement of tall structures, the area  
40 where this project would overlap with the proposed Valley-Ivyglen Project would be in an area where the  
41 poles are associated with the proposed Valley-Ivyglen Project, and no additional poles would be placed.  
42 Cumulative impacts would be less than significant.

1  
2 No emergency or evacuation routes are identified in the Riverside County General Plan, Riverside County  
3 EOP, or Local Hazard Mitigation Plan, the City of Lake Elsinore General Plan, or the City of Menifee  
4 Draft General Plan in the vicinity of any of component of the proposed Alberhill Project (County of  
5 Riverside 2006, 2008, 2012; City of Lake Elsinore 2011a; City of Menifee 2013a). The City of Orange’s  
6 EOP does not define evacuation routes for emergencies (City of Orange 2010). There would be no  
7 cumulative impact due to interference with an adopted emergency response plan or emergency evacuation  
8 plan.  
9

10 The proposed Alberhill Project’s contribution to the significant cumulative fire risk impact would be  
11 mitigated through adhering to rules, regulations, and standards. Additionally, MM HZ-5 would require  
12 preparation and implementation of a Fire Control and Emergency Response plan to reduce the risk of fire  
13 and impacts that would result should a fire occur. The proposed Alberhill Project’s impacts related to  
14 wildfire exposure would not be cumulatively considerable.  
15

### 16 **6.3.9 Hydrology and Water Quality**

#### 17 **6.3.9.1 Approach**

18  
19 This cumulative hydrology and water quality analysis uses both the project list approach and the plan  
20 approach, depending on the impact. Certain hydrology and water quality impacts are project-specific and  
21 highly localized. In such a case, it is most appropriate to use the project list approach so that hydrology  
22 and water quality impacts of actual nearby projects can be taken into account in determining whether  
23 there would be significant cumulative hydrology and water quality impacts. Some impacts, however, are  
24 basin- or countywide, making a projections approach most appropriate to characterize cumulative impacts  
25 for this resource area.  
26  
27

#### 28 **6.3.9.2 Geographic Scope**

29  
30 The geographic scope of cumulative impacts for hydrology and water quality would depend on the  
31 impact. Impacts related to groundwater supply, stormwater runoff, and dam failure are regional and thus  
32 examined at the county level. The remainder of the impacts is more localized, and the geographic scope is  
33 within 0.25 miles of the proposed projects. The temporal scope of cumulative impacts would include  
34 construction and operation of the proposed projects.  
35

#### 36 **6.3.9.3 Summary of Projections Cumulative Scenario**

37  
38 There may be groundwater removal from the Elsinore Groundwater Basin due to dewatering for the  
39 proposed projects. The Elsinore Groundwater Basin is projected to continue to lose water due to overdraft  
40 and result in a net deficit through 2020 (EVMWD 2005).  
41

42 The 2003 Riverside County General Plan EIR only evaluates with regards to dam inundation hazards  
43 related to placing habitable structures in dam inundation areas (County of Riverside 2003b). The  
44 Riverside County General Plan update EIR, however, characterizes the risks from dam failure in that  
45 future development would increase the number of structures in dam inundation zones, but this  
46 development would be subject to current County regulations that would reduce those impacts (County of  
47 Riverside 2015). Buildout of the Menifee General Plan would increase the number of people and  
48 structures exposed to dam inundation threat (City of Menifee 2013a). The Perris General Plan would also  
49 increase the number of people and structures at risk of inundation in the event of dam failure, but such  
50 impacts would be reduced with measures in the General Plan that outline evacuation of the city (City of  
51 Perris 2005a). The Lake Elsinore General Plan would also increase the number of people and structures at

1 risk of inundation in the case of dam failure, but such impacts are limited due to the feasibility of  
2 evacuation of the City (City of Lake Elsinore 2011b).

3  
4 **6.3.9.4 Valley-Ivyglen Project**

5  
6 ***Project List Cumulative Scenario***

7 Note that where the proposed Alberhill Project would overlap with the proposed Valley-Ivyglen Project  
8 along 115-kV Segment ASP2, there would be no impact on water quality or hydrology as conductor  
9 would be strung on existing structures. The proposed Alberhill Project is therefore not included in this  
10 discussion. Table 6-10 lists cumulative projects that form the cumulative scenario for hydrology and  
11 water quality impacts associated with the proposed Valley-Ivyglen Project.  
12

**Table 6-10 VIG Cumulative Projects within the Hydrology and Water Quality Geographic Scope**

Valley-Ivyglen Project Component	Cumulative Projects within the Geographic Scope
115-kV Segment VIG1	Valley South Subtransmission Project, Talavera, Mott Town Center
115-kV Segment VIG2	Colinas de Oro
115-kV Segment VIG3	Walmart Lake Elsinore
115-kV Segment VIG4	Alberhill Project (115-kV Segment ASP2)
115-kV Segment VIG5	Alberhill Project (115-kV Segment ASP2) , Alberhill Village, Alberhill Ranch, Alberhill Ridge
115-kV Segment VIG8	Terramor

13  
14 ***Cumulative Impacts***

15 The proposed Valley-Ivyglen Project and the cumulative projects would be required to adhere to  
16 applicable water quality regulations at the local, state, and federal level. Likewise, all projects would be  
17 required to comply with applicable permitting requirements and to obtain permits under Section 401 of  
18 the Clean Water Act (Water Quality Certification) and Section 1600 of the California Fish and Game  
19 Code (Waste Discharge Requirements). The cumulative projects would not have a significant impact on  
20 water quality, and the proposed Valley-Ivyglen Project would not considerably contribute to a cumulative  
21 significant impact.  
22

23 Given the cumulative significant impact on groundwater supplies (described in the summary of  
24 projections cumulative scenario), dewatering during excavation activities would contribute to a significant  
25 cumulative impact. The proposed Valley-Ivyglen Project would result in a non-substantial amount of  
26 dewatering relative to the amount of groundwater in the entire basin, and dewatering would occur only  
27 during construction. The proposed Valley-Ivyglen Project’s contribution to a significant cumulative  
28 impact related to groundwater availability in the Elsinore Groundwater Basin would be less than  
29 significant.  
30

31 All of the cumulative projects would require ground disturbance, with many of them requiring a  
32 substantial amount of ground disturbance or grading given their size, which could lead to increased  
33 erosion rates. The cumulative projects would each disturb more than 1 acre of land and therefore would  
34 have to comply with the NPDES program. The NPDES would require the preparation and implementation  
35 of SWPPPs for construction activities to ensure the reduction of pollutants during stormwater discharges.  
36 Given that the cumulative projects and the proposed Valley-Ivyglen Project would implement standard  
37 stormwater pollution prevention mitigation measures to ensure that earthwork activities do not result in  
38 substantial erosion and siltation, the proposed Valley-Ivyglen Project would make no cumulatively  
39 considerable contribution to any significant cumulative impact.  
40

1 Construction of the proposed Valley-Ivyglen Project and all the cumulative projects would likely involve  
2 alteration of drainage through grading and excavation, which in some cases could result in potential  
3 flooding. The Motte Town Center, Terramor, Valley South Subtransmission Project, and Walmart Lake  
4 Elsinore are located in flat areas and would not involve modifications that would increase surface runoff  
5 to result in flooding. Alberhill Ridge, the Terramor, and Alberhill Village would involve a substantial  
6 amount of grading that could change drainage patterns and redirect runoff. This could result in a  
7 significant cumulative impact if the altered drainage patterns and runoff were to result in flooding. The  
8 proposed Valley-Ivyglen Project would involve grading near Alberhill Ridge, Terramor, and Alberhill  
9 Village; however, the graded areas would be restored and would be negligible compared to the grading  
10 for Alberhill Ridge and Alberhill Village. The proposed project's contribution to any significant  
11 cumulative impact would not be cumulatively considerable.

12  
13 The amount of grading occurring where the proposed Valley-Ivyglen Project and Valley South  
14 Subtransmission Project would occur would be minimal and limited to the area around poles worked on  
15 for both projects. Any cumulative impact would be less than significant.

16  
17 The proposed Valley-Ivyglen Project and all of the cumulative projects would create impervious surfaces.  
18 Given the sheer size of some of the projects in the project list cumulative scenario, such as Terramor and  
19 Alberhill Village, a substantial amount of stormwater could be generated, leading to a potentially  
20 significant cumulative impact to which the proposed Valley-Ivyglen Project would contribute. The  
21 proposed Valley-Ivyglen Project would introduce a total of only 0.4 acres of new impervious surface  
22 distributed somewhat evenly over 27 miles, and only a minimal amount of this mileage would be located  
23 adjacent to the cumulative projects. Further, any construction within Riverside County Flood Control and  
24 Water Conservation District facilities would require encroachment permits to ensure reduction of impacts  
25 to any flood control facilities. The proposed project's contribution to a significant cumulative impact  
26 would not be cumulatively considerable.

27  
28 The only cumulative project located in a 100-year flood zone is the Motte Town Center. The Motte Town  
29 Center would place a substantial number of structures (484,000 square feet of retail) in a 100-year flood  
30 zone. Thus, there could be a cumulative significant impact related to redirecting flood flow. In these  
31 areas, there would be minimal structures installed associated with the proposed Valley-Ivyglen Project.  
32 Further, any flood flows would flow around poles. The proposed Valley-Ivyglen Project's contribution to  
33 a significant cumulative impact would be less than significant.

34  
35 The cumulative risks associated with dam failure as described in the summary of projections cumulative  
36 scenario are less than significant, given the potential for evacuation and that structures would be built  
37 according to various building requirements. Therefore, the proposed Valley-Ivyglen Project would not  
38 contribute to a cumulatively significant impact.

39  
40 The proposed Valley-Ivyglen Project would be located in areas where mudflows may be a risk after  
41 precipitation. None of the cumulative projects, however, are located in any of the same mudflow risk  
42 areas. Thus, the proposed project would not contribute to a cumulatively significant impact related to  
43 mudflows.

1 **6.3.9.5 Alberhill Project**

2  
3 ***Project List Cumulative Scenario***

4 Table 6-11 lists cumulative projects that form the cumulative scenario for hydrology and water quality  
5 impacts associated with the proposed Alberhill Project.  
6

7 **Table 6-11 ASP Cumulative Projects within the Hydrology and Water Quality Geographic Scope**

Alberhill Project Component	Cumulative Projects within the Geographic Scope
115-kV Segment ASP2	Valley-Ivyglen Project (115-kV Segment VIG4 and VIG5), Alberhill Village, Alberhill Ranch, Alberhill Ridge
115-kV Segment ASP4	Summerly
115-kV Segment ASP5	Oak Creek Canyon
115-kV Segment ASP6	Hidden Hills

8 ***Cumulative Impacts***

9 The proposed Alberhill Project and the cumulative projects would be required to adhere to applicable  
10 water quality regulations at the local, state, and federal level. Likewise, all projects would be required to  
11 comply with applicable permitting requirements and to obtain permits under Section 401 of the Clean  
12 Water Act (Water Quality Certification) and Section 1600 of the California Fish and Game Code (Waste  
13 Discharge Requirements). The cumulative projects would not have a significant impact on water quality,  
14 and the proposed Alberhill Project would not considerably contribute to create a cumulative significant  
15 impact.

16  
17 Given the cumulative significant impact on groundwater supplies (described in the summary of  
18 projections cumulative scenario), dewatering during excavation activities would contribute to a significant  
19 cumulative impact. The proposed Alberhill Project would result in a non-substantial amount of  
20 dewatering relative to the amount of groundwater in the entire basin, and dewatering would occur only  
21 once and would not be an ongoing use. The proposed Alberhill Project’s contribution to a significant  
22 cumulative impact related to groundwater availability in the Elsinore Groundwater Basin would be less  
23 than significant.  
24

25 All of the cumulative projects would require ground disturbance, with many of them requiring a  
26 substantial amount of ground disturbance or grading given their size, which could lead to increased  
27 erosion rates. The cumulative projects would each disturb more than 1 acre of land and therefore would  
28 have to comply with the NPDES program. The NPDES would require the preparation and implementation  
29 of SWPPPs for construction activities to ensure the reduction of pollutants during stormwater discharges.  
30 Given that the cumulative projects and the proposed Alberhill Project would implement standard  
31 stormwater pollution prevention mitigation measures to ensure that earthwork activities do not result in  
32 substantial erosion and siltation, the proposed Alberhill Project would make no cumulatively considerable  
33 contribution to any significant cumulative impact.  
34

35 Construction of the proposed Alberhill Project and all the cumulative projects would likely involve  
36 alteration of drainage through grading and excavation, which in some cases could result in potential  
37 flooding. The Summerly and Hidden Hills projects are located in flat areas and would not involve  
38 modifications that would increase surface runoff to result in flooding. The proposed Alberhill Project  
39 segment adjacent to or collocated with the proposed Valley-Ivyglen Project, Alberhill Ranch, Alberhill  
40 Ridge, and Alberhill Village projects would not involve ground disturbance and would therefore not  
41 combine with these cumulative projects to contribute to a cumulative flooding impact. Oak Creek Canyon  
42 overlaps with the proposed Alberhill Project for a minimal linear distance such that the grading in this

1 area associated with both projects would be negligible. Any cumulative impact would be less than  
2 significant.

3  
4 Construction of the proposed Alberhill Project and all the cumulative projects would involve creation of  
5 impervious surfaces. Cumulative impacts would therefore only occur where the proposed project is  
6 adjacent to Hidden Hills, Summerly, and Oak Creek Canyon. Given the sheer size of some of the projects,  
7 a substantial amount of stormwater could be generated, leading to a potentially significant cumulative  
8 impact to which the proposed Alberhill Project would contribute. The proposed Alberhill Project would  
9 involve creation of small isolated impervious surfaces only along the borders of these projects for very  
10 short distances, however, such that the proposed project's contribution to a significant cumulative impact  
11 would not be cumulatively considerable.

12  
13 The only cumulative project located in a 100-year flood zone is Summerly. The proposed Alberhill  
14 Project would not be located in the 100-year flood zone near Summerly. Therefore, the proposed  
15 Alberhill Project would not contribute to a cumulative significant impact.

16  
17 The cumulative risks associated with dam failure as described in the summary of projections cumulative  
18 scenario are less than significant, given the potential for evacuation and that structures would be built  
19 according to various building requirements. Therefore, the proposed Alberhill Project would not  
20 contribute to a cumulatively significant impact.

21  
22 The proposed Alberhill Project would be located in areas where mudflows may be a risk after  
23 precipitation. None of the cumulative projects, however, are located in any of the same mudflow risk  
24 areas. Thus, the proposed project would not contribute to a cumulatively significant impact related to  
25 mudflows.

## 26 **6.3.10 Noise and Vibration**

### 27 **6.3.10.1 Approach**

28  
29 The cumulative noise and vibration analysis uses the project list approach. Noise and vibration impacts  
30 are project-specific and highly localized. It is therefore most appropriate to use the project list approach  
31 so that noise and vibration impacts of actual nearby projects can be taken into account in determining  
32 whether there would be significant cumulative noise and vibration impacts.  
33  
34

### 35 **6.3.10.2 Geographic Scope**

36  
37 The geographic scope for cumulative noise impacts is the area in which noise from the proposed project  
38 could combine with noise from cumulative projects to affect a sensitive receptor. For the loudest projects,  
39 and given attenuation of noise over distance, this is presumed to be about 0.5 miles; there must also be a  
40 sensitive receptor located in an area in which the noise from simultaneous projects could combine. The  
41 geographic scope for cumulative vibration impacts is the area in which vibration from the proposed  
42 project could combine with vibration from cumulative projects to affect a sensitive receptor. Given rapid  
43 attenuation of vibration over distance, this is presumed to be about 50 feet.  
44  
45

1 **6.3.10.3 Valley-Ivyglen Project**

2  
3 **Project List Cumulative Scenario**

4 Table 6-12 lists the cumulative projects that form the cumulative scenario for noise impacts associated  
5 with the proposed Valley-Ivyglen Project.  
6

**Table 6-12 VIG Cumulative Projects within the Noise Geographic Scope**

Valley-Ivyglen Project Component	Cumulative Projects within the Geographic Scope
115-kV Segment VIG1	Valley South Subtransmission Project, Talavera, Mott Town Center, Underwood
115-kV Segment VIG2	Colinas de Oro
115-kV Segment VIG3	Walmart Lake Elsinore
115-kV Segment VIG4	Alberhill Project(115-kV Segment ASP2)
115-kV Segment VIG5	Alberhill Project (115-kV Segment ASP2) , Alberhill Village, Alberhill Ranch, Alberhill Ridge
115-kV Segment VIG8	Terramor

7  
8 **Cumulative Impacts**

9 Although the proposed Alberhill Project would overlap with the proposed Valley-Ivyglen Project, noise  
10 impacts would not combine during construction. Poles would first be installed for the proposed Valley-  
11 Ivyglen Project, followed by installation of conductor for the proposed Valley-Ivyglen Project, and then  
12 installation of conductor for the proposed Alberhill Project. Thus, construction noise would occur at  
13 separate times and would not combine to result in a cumulative impact.  
14

15 Noise from construction of the proposed Valley-Ivyglen Project could combine with noise from  
16 construction of cumulative projects to result in a significant cumulative impact—either exposure to noise  
17 above local standards or a substantial temporary or periodic increase in ambient noise levels. The  
18 proposed Valley-Ivyglen Project would comply with all applicable local noise ordinance and therefore  
19 would not contribute to a cumulatively significant impact on noise standards.  
20

21 Given that the noise ordinances generally place only time restrictions on construction activities, adherence  
22 to local ordinances may still allow for substantial increases in ambient noise, which could result in a  
23 significant noise impact to which the proposed project would contribute. Mitigation would require the  
24 proposed Valley-Ivyglen Project to adhere to a limit of 75 A-weighted decibels (dBA). If cumulative  
25 projects generate 75 dBA or more, noise levels would, once combined, be at most a few more decibels  
26 louder than the highest project noise level. For example, if the proposed project generates 75 dBA and  
27 another project generates 75 dBA, the combined noise level would be 78 dBA. A 3-dBA change in noise  
28 levels is barely perceptible. If the proposed project generates 75 dBA and another project generates 80  
29 dBA, the combined noise level would be 81 dBA. Should another project be louder, its volume would  
30 have more influence than the proposed project on the final sound level. The proposed project’s  
31 contribution to a significant cumulative noise impact due to non-blasting activities would therefore not be  
32 cumulatively considerable.  
33

34 Blasting could occur along 115-kV Segments VIG1, VIG2, VIG5, and VIG8. There are no cumulative  
35 projects located within 0.5 miles of the blasting locations on 115-kV Segment VIG1 or VIG2. Terramor  
36 would be located within 0.5 miles of blasting locations on 115-kV Segment VIG8, but there are no nearby  
37 sensitive receptors. The blasting location on 115-kV Segment VIG5 is located near Alberhill Ranch and  
38 Alberhill Ridge, and there are sensitive receptors already in the Alberhill Ranch development south of  
39 Nichols Road. Noise from construction of houses could combine with noise from blasting to result in a  
40 significant impact. Blasting is particularly loud and would contribute the most noise to the cumulative  
41 impact. The proposed project would therefore make a cumulatively considerable contribution to a

1 potentially significant noise impact. MM NV-1 would be implemented to reduce noise impacts, but noise  
2 impacts are not mitigable to less than significant.

3  
4 The cumulative projects would increase the permanent ambient noise levels as a result of increased  
5 human and vehicle presence. The proposed Alberhill Project would contribute corona noise in areas  
6 where the proposed Valley-Ivyglen and Alberhill Projects would overlap. The proposed Valley-Ivyglen  
7 Project would permanently contribute corona noise during the operation of the project. However, as  
8 discussed in Section 4.11, “Noise and Vibration,” corona noise would not be perceptible against the  
9 current ambient noise levels and therefore would not considerably contribute to cumulative noise levels.

10  
11 The proposed Valley-Ivyglen Project would not be located near enough to an airport to contribute to a  
12 cumulative significant impact related to proximity to a public or private airport.

13  
14 There are no cumulative projects within the geographic scope for cumulative vibrations impacts. There  
15 would be no cumulative vibration impact.

16  
17 **6.3.10.4 Alberhill Project**

18  
19 ***Project List Cumulative Scenario***

20 Table 6-13 lists the cumulative projects that form the cumulative scenario for noise impacts associated  
21 with the proposed Alberhill Project.

22  
23 **Table 6-13 ASP Cumulative Projects within the Noise Geographic Scope**

Alberhill Project Component	Cumulative Projects within the Geographic Scope
115-kV Segment ASP2	Valley-Ivyglen Project (115-kV Segment VIG4 and VIG5), Alberhill Village, Alberhill Ranch, Alberhill Ridge
115-kV Segment ASP4	Summerly
115-kV Segment ASP5	Oak Creek Canyon
115-kV Segment ASP6	Hidden Hills

24  
25 ***Cumulative Impacts***

26 Although the proposed Alberhill Project would overlap with the proposed Valley-Ivyglen Project, noise  
27 impacts would not combine during construction. Poles would first be installed for the proposed Valley-  
28 Ivyglen Project, followed by installation of conductor for the proposed Valley-Ivyglen Project, and then  
29 installation of conductor for the proposed Alberhill Project. Thus, construction noise would occur at  
30 separate times and would not combine to result in a cumulative impact.

31 Noise from construction of the proposed Alberhill Project could combine with noise from construction of  
32 cumulative projects to result in a significant cumulative impact—either exposure to noise above local  
33 standards or a substantial temporary or periodic increase in ambient noise levels. The proposed Alberhill  
34 Project would comply with all applicable local noise ordinance and therefore would not contribute to a  
35 cumulatively significant impact on noise standards.

36  
37 Given that the noise ordinances generally place only time restrictions on construction activities, adherence  
38 to local ordinances may still allow for substantial increases in ambient noise, which could result in a  
39 significant noise impact to which the proposed project would contribute. Mitigation would require the  
40 proposed Alberhill Project to adhere to a 75-dBA limit. If cumulative projects generate 75 dBA or above,  
41 noise levels would, once combined, be at most a few more decibels louder than the highest project noise  
42 level. For example, if the proposed project generates 75 dBA and another project generates 75 dBA, the  
43 combined noise level would be 78 dBA. A 3-dBA change in noise levels is barely perceptible. If the

1 proposed project generates 75 dBA and another project generates 80 dBA, the combined noise level  
2 would be 81 dBA. Should another project be louder, its volume would have more influence than the  
3 proposed Alberhill Project on the final sound level. The proposed project’s contribution to a significant  
4 cumulative noise impact would therefore not be cumulatively considerable.

5  
6 The cumulative projects would increase the permanent ambient noise levels as a result of increased  
7 human and vehicle presence. The proposed Valley-Ivyglen Project would contribute corona noise in areas  
8 where the proposed Alberhill and Valley-Ivyglen projects would overlap. Cumulative project are not  
9 located in the geographic scope of the 500-kV and substation components of the proposed Alberhill  
10 Project. The 115-kV subtransmission lines of the proposed Alberhill Project would permanently  
11 contribute corona noise during the operation of the project. However, as discussed in Section 4.11, “Noise  
12 and Vibration,” corona noise would not be perceptible against the current ambient noise levels, and  
13 therefore would not considerably contribute to cumulative noise levels.

14  
15 Only 115-kV Segment ASP8 is located within 2 miles of a public use airport. There are no cumulative  
16 projects within 0.5 miles of 115-kV Segment ASP8; therefore, there would be no cumulative noise  
17 impacts related to proximity to a public or private airport.

18  
19 There are no cumulative projects within the geographic scope for cumulative vibrations impacts. There  
20 would be no cumulative vibration impact.

## 21 **6.3.11 Population and Housing**

### 22 **6.3.11.1 Approach**

23  
24  
25  
26 The projections approach is most appropriate for analyzing the proposed project’s cumulative impact to  
27 population and housing. Each jurisdiction that overlaps the proposed project area has experienced and is  
28 forecasted to continue experiencing significant population growth. Each area’s general plan is designed to  
29 account for future population growth and associated needs on regional scales. Routine projections of  
30 population are made to assist with planning housing and other services over long time frames. Because  
31 population growth occurs at a city, county, and regional level, a project approach would not adequately  
32 represent the cumulative scenario. Therefore, a summary of projections is most appropriate to  
33 characterize potentially cumulative impacts in this resource area.

### 34 **6.3.11.2 Geographic Scope**

35  
36  
37 The geographic scope of cumulative impacts would include land uses within the jurisdictions of  
38 unincorporated Riverside County and the cities of Lake Elsinore, Wildomar, Perris, Menifee, and Orange.

### 39 **6.3.11.3 Valley-Ivyglen Project**

#### 40 ***Cumulative Scenario***

41  
42  
43 Projections of population growth and housing requirements for the cities of Lake Elsinore, Wildomar,  
44 Menifee, Perris, and Riverside County are completed at regular intervals and inform updates to each  
45 jurisdiction’s General Plan and Housing Element. The projections used to identify the cumulative  
46 scenario for the proposed Alberhill Project include:

- 47 • Population data from the Year 2010 U.S Census
- 48 • California Department of Finance 2015 Population and Housing Estimates

- Southern California Association of Governments’ Draft 2016 Regional Transportation Plan (RTP)/Sustainable Communities Strategy (SCS) Growth Forecast by Jurisdiction

### **Cumulative Impacts**

Under the projected scenarios, populations in the project area are predicted to grow by as much as 10 percent by the year 2020 (Table 4.12-1). This is a significant impact. As analyzed in Section 4.12, “Population and Housing,” the proposed Valley-Ivyglen Project would not directly induce population growth in any of the proposed project area. The applicant anticipates that most, if not all, workers would come from nearby existing service centers and that should outside contractors be used, they would not be required to relocate. Even if all workers came from elsewhere, they would represent a negligible amount of population growth. The proposed Valley-Ivyglen Project’s negligible contribution to a significant cumulative impact would not be cumulatively considerable.

### **6.3.11.4 Alberhill Project**

#### **Cumulative Scenario**

Projections of population growth and housing requirements for the cities of Lake Elsinore, Wildomar, Menifee, and Riverside County are completed at regular intervals and inform updates to each jurisdiction’s General Plan and Housing Element. The projections used to identify the cumulative scenario for the proposed Alberhill Project include:

- Population data from the Year 2010 U.S Census
- Southern California Association of Governments’ Adopted 2012 RTP Growth Forecast
- Southern California Association of Governments’ Draft 2016 RTP/SCS Growth Forecast by Jurisdiction

### **Cumulative Impacts**

Under the projected scenarios, populations in the project area are predicted to grow by as much as 10 percent by the year 2020 (Table 4.12-1). This is a significant impact. As analyzed in Section 4.12, “Population and Housing,” the proposed Alberhill Project would not directly induce population growth in any of the proposed project area. The applicant anticipates that most, if not all, workers would come from nearby existing service centers and that should outside contractors be used, they would not be required to relocate. Even if all workers came from elsewhere, they would represent a negligible amount of population growth. The proposed project’s negligible contribution to a significant cumulative impact would not be cumulatively considerable.

### **6.3.12 Public Services**

#### **6.3.12.1 Approach**

The projections approach is considered more appropriate for analyzing the proposed projects’ cumulative impact to public services. Public services are provided at the city and county levels and effects thereon are measured and planned for by service providers at city and county levels. The proposed projects cover an expansive geographic range across multiple jurisdictions. Accordingly, a summary of projections is most appropriate to characterize potentially cumulative impacts in this resource area.

1 **6.3.12.2 Geographic Scope**  
2

3 The geographic scope of cumulative impacts would include the jurisdictions where the public utilities  
4 serving the proposed project overlap with those serving the cumulative projects. Public services within  
5 the jurisdictions of unincorporated Riverside County and the cities of Lake Elsinore, Wildomar, Menifee,  
6 and Perris cover the geographic scope for this criterion.  
7

8 **6.3.12.3 Valley-Ivyglen Project**  
9

10 ***Cumulative Scenario***

11 As stated in Section 4.13 “Public Services and Utilities,” demand for public services and utilities is  
12 largely affected by an area’s population. There is a direct correlation between population size and demand  
13 for public services such as fire and police protection, schools, parks, hospitals, and libraries. Construction  
14 of the proposed Valley-Ivyglen Project could have effects on public services in Riverside County and the  
15 cities of Lake Elsinore, Perris, and Menifee. The cumulative scenario within which the proposed Valley-  
16 Ivyglen Project’s contribution to impacts is evaluated is informed by:  
17

- 18 • The City of Lake Elsinore (2011b) General Plan Update EIR
- 19 • The City of Perris (2005b) General Plan EIR
- 20 • The City of Menifee (2013b) General Plan Draft EIR
- 21 • Riverside County (2003b) General Plan Final Program EIR
- 22 • Riverside County (2015) General Plan Draft EIR No. 521
- 23 • Southern California Association of Governments (2012) Adopted 2012 TTP Growth Forecast
- 24 • Southern California Association of Governments (2015) Draft 2016 RTP/SCS Growth Forecast  
25 by Jurisdiction
- 26 • Population Data from the Year 2010 U.S. Census  
27

28 ***Cumulative Impacts***

29 Population growth in the City of Perris is projected to increase to approximately 114,000 people by the  
30 year 2035 (SCAG 2012). This will represent an approximate increase of about 66 percent from current.  
31 Riverside County predicts that at full buildout of the General Plan, 1,327 new Sworn Peace Officers and  
32 263 additional fire stations would be needed to serve the population. Additionally, schools would need to  
33 accommodate 406,300 students and provide 799,500 square feet of library space and nearly 4 million  
34 volumes (County of Riverside 2015). The City of Menifee estimates that at full General Plan buildout, 31  
35 additional Sworn Peace Officers, six fire stations, 11 elementary and two middle schools, and 48,000  
36 square feet of library space and 162,486 volumes would be necessary to serve the population (City of  
37 Menifee 2013b). The City of Lake Elsinore predicts that at full General Plan buildout, 227 Sworn Peace  
38 Officers, space for 51,928 new students, and 159,428 square feet of library space and 797,150 volumes  
39 would need to be added to accommodate population growth (City of Lake Elsinore 2011b). Forecasted  
40 growth and the associated need to increase public services would be a significant cumulative impact.  
41

42 The proposed Valley-Ivyglen Project is expected to be constructed over 27 months and would use up to  
43 125 personnel. No long-term staffing needs are anticipated for operations and maintenance. If outside  
44 contractors made up the entirety of the construction crews, then temporary impacts from the 125 workers  
45 may occur. The temporary addition of 125 people to the proposed project area is small relative to the

1 projected population growth from general plan buildout, and therefore the impact to public services from  
2 the proposed Valley-Ivyglen Project would not be cumulatively considerable.

#### 3 4 **6.3.12.4 Alberhill Project**

##### 5 ***Cumulative Scenario***

6  
7 As stated in Section 4.13 “Public Services and Utilities,” demand for public services and utilities is  
8 largely affected by an area’s population. There is a direct correlation between population size and demand  
9 for public services such as fire and police protection, schools, parks, hospitals, and libraries. Construction  
10 of the proposed Alberhill System Project could have effects on public services in Riverside County and the  
11 cities of Lake Elsinore, Wildomar, and Menifee. The cumulative scenario within which the proposed  
12 Alberhill Project’s contribution to impacts is evaluated is informed by:

- 13
- 14 • The City of Lake Elsinore (2011b) General Plan Update Final Program EIR
- 15 • The City of Menifee (2013b) General Plan Draft EIR
- 16 • Riverside County (2003a) General Plan Final Program EIR
- 17 • Riverside County (2015) General Plan Draft EIR No. 521
- 18 • Southern California Association of Governments (2012) Adopted 2012 TTP Growth Forecast
- 19 • Southern California Association of Governments (2015) Draft 2016 RTP/SCS Growth Forecast
- 20 by Jurisdiction
- 21 • Population Data from the Year 2010 U.S. Census
- 22

##### 23 ***Cumulative Impacts***

24 Under the cumulative scenario, population size within and near the proposed project area is predicted to  
25 increase significantly in the coming decades. Riverside County predicts that at full buildout of the General  
26 Plan, 1,327 new Sworn Peace Officers and 263 additional fire stations would be needed to serve the  
27 population. Additionally, schools would need to accommodate 406,300 students and provide 799,500  
28 square feet of library space and nearly 4 million volumes (County of Riverside 2015). The City of  
29 Menifee estimates that at full General Plan buildout, 31 additional Sworn Peace Officers, six fire stations,  
30 11 elementary and two middle schools, and 48,000 square feet of library space and 162,486 additional  
31 volumes (in the public library) would be necessary to serve the population (City of Menifee 2013b). The  
32 City of Lake Elsinore predicts that at full General Plan buildout 227 Sworn Peace Officers, space for  
33 51,928 new students, 159,428 square feet of library space and 797,140 additional volumes (in the public  
34 library) would need to be added to accommodate population growth (City of Lake Elsinore 2011b).  
35 Forecasted growth and the associated need to increase public services would be a significant cumulative  
36 impact.

37  
38 The proposed Alberhill Project is expected to be constructed with local construction crews and to be  
39 unstaffed during the operations phase. If outside contractors are used for construction, impacts on public  
40 services from them would be temporary—lasting no more than the 28 months and requiring no more than  
41 100 personnel. The temporary addition of 100 people to the proposed project area is small relative to the  
42 projected population growth from general plan buildout, and therefore, the impact to public services from  
43 the proposed Alberhill Project is not cumulatively considerable.

1 **6.3.13 Recreation**

2  
3 **6.3.13.1 Approach**

4  
5 The projections approach is considered more appropriate for analyzing the proposed project’s cumulative  
6 impact to recreation. Recreational facilities are provided at the city and county levels and effects to them  
7 are measured and planned for on those levels. Additionally, the proposed project’s expansive geographic  
8 range covers multiple jurisdictions and a long time frame, making a summary of projections more  
9 appropriate to characterize potentially cumulative impacts.

10  
11 **6.3.13.2 Geographic Scope**

12  
13 The geographic scope of cumulative impacts would include recreational facilities within Riverside  
14 County and the cities of Lake Elsinore, Wildomar, Perris, Menifee, and Orange.

15  
16 **6.3.13.3 Valley-Ivyglen Project**

17  
18 ***Cumulative Scenario***

19 The cumulative scenario within which the proposed Valley-Ivyglen Project’s effects on recreation are  
20 analyzed is informed by planning documents and population forecasts for the jurisdictions that overlap  
21 with the project area, including:

- 22  
23 • The City of Lake Elsinore (2008) Parks and Recreation Master Plan (2008)  
24 • The City of Menifee (2013b) General Plan Draft EIR  
25 • The City of Perris (2005c) Parks and Recreation Master Plan  
26 • Riverside County (2003b) General Plan Final Program EIR  
27 • Riverside County (2015) General Plan Draft Environmental Impact Report No. 521  
28 • Southern California Association of Governments (2012) Adopted 2012 TTP Growth Forecast  
29 • Southern California Association of Governments (2015) Draft 2016 RTP/SCS Growth Forecast  
30 by Jurisdiction

31  
32 ***Cumulative Impacts***

33 Under the cumulative scenario, jurisdictions that overlap the proposed project area are anticipated to  
34 experience significant population increases between 2015 and 2020. The City of Lake Elsinore is  
35 predicted to experience the smallest change, at 5 percent population increase, while the remaining  
36 jurisdictions are predicted to experience between 6 and 10 percent increases (see Section 4.11,  
37 “Population and Housing”). Additional parks and open space would be developed to accommodate this  
38 growth; therefore, this population increase would have a significant impact on recreation in the proposed  
39 project area. However, construction personnel for the proposed Valley-Ivyglen Project would likely be  
40 local and would not add to existing use of recreational facilities. In the event that personnel are not local,  
41 the number and variety of recreational facilities nearby would be adequate to accommodate increased use.  
42 Therefore, the proposed Valley-Ivyglen Project’s contribution to recreation impacts would not be  
43 cumulatively considerable.

1 **6.3.13.4 Alberhill Project**

2  
3 **Cumulative Scenario**

4 Similar to Section 6.3.12, “Public Services,” above, the cumulative scenario within which the proposed  
5 Alberhill Project’s effects on recreational facilities is analyzed is informed by various jurisdictions’  
6 planning documents and population forecasts:

- 7
- 8 • The City of Lake Elsinore (2008) Parks and Recreation Master Plan The City of Menifee’s  
9 General Plan Draft EIR
- 10 • Riverside County (2003a) General Plan Final Program EIR
- 11 • Riverside County (2015) General Plan Draft EIR No. 521
- 12 • Southern California Association of Governments (2012) Adopted 2012 TTP Growth Forecast
- 13 • Southern California Association of Governments (2015) Draft 2016 RTP/SCS Growth Forecast  
14 by Jurisdiction
- 15

16 **Cumulative Impacts**

17 Under the cumulative scenario, jurisdictions that overlap the proposed project area are anticipated to  
18 experience significant population increases between 2014 and 2020. The City of Lake Elsinore is  
19 predicted to experience the smallest change, at 5 percent population increase, while the remaining  
20 jurisdictions are predicted to experience between 6 and 10 percent increases (see Section 4.11 “Population  
21 and Housing”). Additional parks and open space would be developed to accommodate this growth;  
22 therefore, this population increase would have a significant impact on recreation in the proposed project  
23 area. However, construction personnel for the proposed project would likely be local and would not add  
24 to existing use of recreational facilities. In the event that personnel are not local, the number and variety  
25 of recreational facilities nearby would be adequate to accommodate increased use. Therefore, the  
26 proposed Alberhill Project’s contribution to recreation impacts would not be cumulatively considerable.

27  
28 **6.3.14 Transportation and Traffic**

29  
30 **6.3.14.1 Approach**

31  
32 The project list approach was used to assess the proposed projects’ cumulative impact to traffic and  
33 transportation. Traffic and transportation impacts occur locally. The proposed projects’ traffic impacts  
34 would be the most intense closest to where the projects would be built. A countywide or regional  
35 approach would not provide sufficient detail to analyze cumulative traffic impacts. Therefore, a project  
36 list approach is most appropriate for this resource area.

37  
38 **6.3.14.2 Geographic Scope**

39  
40 The geographic scope for cumulative traffic impacts includes the intersections that would be indicative of  
41 the proposed projects’ impacts, as analyzed in Section 4.15, “Traffic and Transportation.” In general,  
42 these are the intersections closest to construction areas, as well as the intersections at freeway on-ramps  
43 and off-ramps.

6.3.14.3 Valley-Ivyglen Project

**Cumulative Scenario**

Table 6-14 lists the cumulative projects that form the cumulative scenario for transportation and traffic impacts associated with the proposed Valley-Ivyglen Project:

**Table 6-14 VIG Cumulative Projects within the Transportation and Traffic Geographic Scope**

Valley-Ivyglen Project Component	Cumulative Projects within the Geographic Scope
115-kV Segment VIG2	Colinas de Oro
115-kV Segment VIG3	Walmart Lake Elsinore
115-kV Segment VIG4	Alberhill Project(115-kV Segment ASP2)
115-kV Segment VIG5	Alberhill Project (115-kV Segment ASP2), Alberhill Ranch

Terramor, Terracina, Alberhill Ridge, and Alberhill Villages would generate short-term traffic during construction and long-term traffic once houses are built. Motte Town Center and Marketplace at Harvest Glen would also generate traffic both during and after construction. The construction dates of these projects are unknown, however, so it would be speculative to determine that traffic impacts could occur at the same time as the proposed project’s traffic impacts. It would also be speculative to determine whether other construction-related impacts would occur at the same time as those of the proposed Valley-Ivyglen Project. These projects are therefore omitted from the cumulative scenario for traffic generation. The Talavera project would not impact the same intersections studied for the proposed project; it has therefore been omitted from the cumulative scenario.

**Cumulative Impacts**

Table 6-15 shows cumulative traffic impacts of the proposed Valley-Ivyglen Project. The proposed Valley-Ivyglen Project would have cumulatively considerable impacts on LOS standards (Table 6-15). None of the cumulative projects would result in installation of tall structures that would interfere with air traffic. There would be no cumulative impact on air traffic.

**Table 6-15 Cumulative Traffic Impacts of the Proposed Valley-Ivyglen Project<sup>(1)</sup>**

Intersection	Cumulative Projects and Impacts	Cumulative Scenario Significant?	Proposed Valley-Ivyglen Project Impacts	Cumulatively Considerable?
Menifee Road/ Pincate Road (SR-74)	Alberhill Project – 1.9 (PM)	Yes, reduce PM LOS from D to E	5.2 (PM)	Yes, total delay 7.1 (PM). Alberhill Project would contribute approximately 73 percent of the overall delay
Lake Street/ I-15 Northbound Ramps	Alberhill Project – 54.7 (PM)	Yes, intersection is currently operating at LOS F	40.5 (PM)	Yes, total delay 95.2 (PM). Alberhill Project would contribute approximately 43 percent of the overall delay
Central Avenue (SR-74)/ Rosetta Canyon Drive	Walmart Lake Elsinore – 1.0 (AM); 0.3 (PM)  Colinas del Oro – no delay information available	No <sup>(2)</sup>	0.2 (AM) 0.1 (PM)	No, Total delay – at least 1.2 (AM); 0.4 (PM) would not degrade LOS
Central Avenue (SR-74)/I-15 Northbound Ramps	Walmart Lake Elsinore – 1.5 (AM); 2.4 (PM)  Colinas del Oro – no delay information available	No <sup>(2)</sup>	0.6 (AM) 4.3 (PM)	No, total delay – at least 2.1 (AM); 6.7 (PM) would not degrade LOS

**Table 6-15 Cumulative Traffic Impacts of the Proposed Valley-Ivyglen Project<sup>(1)</sup>**

Intersection	Cumulative Projects and Impacts	Cumulative Scenario Significant?	Proposed Valley-Ivyglen Project Impacts	Cumulatively Considerable?
Central Avenue (SR-74)/I-15 Southbound Ramps	Walmart Lake Elsinore – 2.1 (AM); 6.4 (PM)  Colinas del Oro – no delay information available	Yes, PM LOS would reduce PM LOS from D to E <sup>3</sup>	0.3 (AM) 2.3 (PM)	Yes, total delay – at least 2.4 (AM); 8.7 (PM). AM LOS would not degrade, but PM LOS would reduce from D to E. Valley-Ivyglen Project would contribute approximately 25 percent to the overall delay.

Sources: LLG 2016a; City of Lake Elsinore 2015c; County of Riverside 2014a

Notes:

(1) Impacts are measured in seconds delay

(2) Colinas de Oro is not expected to result in degradation of LOS and in some cases would improve LOS due to project improvements (County of Riverside 2014a).

(3) Colinas del Oro Project would exacerbate the significant cumulative impact.

Key:

AM Peak hour in AM

I-15 Interstate 15

LOS Level of service

PM Peak hour in PM

SR-74 State Route 74

1

2

**6.3.14.4 Alberhill Project**

3

4

**Cumulative Scenario**

5

Table 6-16 lists the cumulative projects that form the cumulative scenario for the traffic and transportation impacts associated with the proposed Alberhill Project.

6

7

**Table 6-16 ASP Cumulative Projects within the Traffic and Transportation Geographic Scope**

Alberhill Project Component	Cumulative Projects within the Geographic Scope
115-kV Segment ASP2	Valley-Ivyglen Project (115-kV Segment VIG4 and VIG5), Alberhill Ranch,
115-kV Segment ASP3	Walmart Lake Elsinore
115-kV Segment ASP4	Summerly

8

9

The Terracina, Alberhill Ridge, Hidden Hills, Oak Creek Canyon, and Alberhill Villages projects would generate short-term traffic during construction and long-term traffic once houses are built. The construction dates of these projects are unknown, however, so it would be speculative to determine that traffic impacts could occur at the same time as the proposed project’s traffic impacts. It would also be speculative to determine whether other construction-related impacts would occur at the same time as those of the proposed Alberhill Project. These projects are therefore omitted from the cumulative scenario for traffic generation.

10

11

12

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15

16

**Cumulative Impacts**

17

18

Table 6-17 shows cumulative traffic impacts of the proposed Alberhill Project. The proposed Alberhill Project would have cumulatively considerable impacts on LOS standards (Table 6-17). None of the cumulative projects would result in installation of tall structures that would interfere with air traffic. There would be no cumulative impact on air traffic.

19

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21

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23

**Table 6-17 Cumulative Traffic Impacts of the Alberhill Project<sup>(1)</sup>**

Intersection	Cumulative Projects and Impacts	Cumulative Scenario Significant?	Proposed Alberhill Project Impacts	Cumulatively Considerable?
Menifee Road/ Pincate Road (SR-74)	Valley-Ivyglen – 5.2 (PM)	Yes, reduce PM LOS from D to E	1.9 (PM)	Yes, total delay 7.1 (PM). The Alberhill Project would contribute approximately 27 percent of the overall delay.
Lake Street/ I- 15 Northbound Ramps	Valley-Ivyglen Project – 40.5 (PM)	Yes, intersection is currently operating at LOS F	54.7 (PM)	Yes, total delay 95.2 (PM). The Alberhill Project would contribute approximately 57 percent of the overall delay
East Lakeshore Drive/Diamond Drive <sup>(2)</sup>	Walmart Lake Elsinore – 2.3 (PM)	No	0.4 seconds (PM peak hour)	No, total delay – 2.7 (PM) would not degrade LOS
I-15 Northbound Ramps/Railroad Canyon Road <sup>(2)</sup>	Walmart Lake Elsinore – 0.7 (PM)	No	0.1 (PM)	No, total delay – 0.8 (PM) would not degrade LOS

Sources: LLG 2016b, City of Lake Elsinore 2015

Notes

(1) Impacts are measured in seconds delay

(2) Summerly Project would also use these intersections; however, Summerly was under construction in 2014 and 2015 and therefore construction traffic for the Summerly Project is accounted for in the baseline traffic numbers.

Key:

- AM Peak hour in AM
- I-15 Interstate 15
- LOS Level of service
- PM Peak hour in PM
- SR-74 State Route 74

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**6.3.15 Utilities and Service Systems**

**6.3.15.1 Approach**

This analysis used the summary of projections approach to assess the proposed projects’ cumulative impact to utilities and service systems. Utilities and service systems are provided at the county, city, or agency level and typically include extensive geographic areas. The proposed projects cross multiple service areas and jurisdictions and include long-term operation phases. Given the large project area and long-term duration of the projects, a project list would not capture an adequately descriptive cumulative scenario; therefore, a summary of projections approach is appropriate for this resource area.

**6.3.15.2 Geographic Scope**

The geographic scope of cumulative impacts on utilities and service systems includes water district boundaries and landfill service areas that overlap with the proposed project area. Water districts include the Elsinore Valley Municipal Water District (EVMWD), Eastern Municipal Water District (EMWD), and Lee Lake Water District. Landfill service areas include those served by the El Sobrante and Badlands Landfills.

1 **6.3.15.3 Cumulative Scenario**

2  
3 Substantial population growth that will increase demand of utility and service systems is anticipated  
4 within the proposed project area and within Riverside County as a whole. Riverside County predicts that  
5 at General Plan Buildout, in the year 2040, it will need to dispose of 4,148,156 tons, of solid waste in  
6 landfills each year (County of Riverside 2003a). The City of Lake Elsinore anticipates that at General  
7 Plan Buildout, in the year 2030, it would need to dispose of 87,747 tons of solid waste per year. The City  
8 of Perris anticipates that at general plan buildout, a total of 433,640 tons of solid waste would be disposed  
9 of per year (City of Perris 2005b). The El Sobrante Landfill and the Badlands Landfill are expected to  
10 remain open until 2045 and 2024, respectively.

11  
12 Riverside County anticipates annual water demand of its unincorporated areas at general plan buildout to  
13 be 1,913,106 acre-feet per year. The City of Lake Elsinore predicts that in a Multiple Dry-Year scenario,  
14 the demand will consist of 68,169 acre-feet per year and the EVMWD's supply totals will be 78,181 acre-  
15 feet per year (City of Lake Elsinore 2011b). Based on these predictions, the City of Lake Elsinore will  
16 have an oversupply of 10,012 acre-feet. The City of Perris anticipates that at General Plan Buildout, its  
17 water demand would be 99,689 acre-feet per year (City of Perris 2005b). The cities of Perris and Murrieta  
18 are served by the EMWD, which identifies that it will, with the assistance of the Municipal Water  
19 District, have the ability to meet increased demand as a result of population growth forecasted for each  
20 year to 2035 (EMWD 2011). Forecasted growth and the associated increased demand on water under the  
21 cumulative scenario would result in a significant impact.

22  
23 **6.3.15.4 Valley-Ivyglen Project**

24  
25 The proposed Valley-Ivyglen Project would not export wastewater to regional or municipal sanitary  
26 wastewater facilities and will have no impact to wastewater; therefore, there would be no impacts to  
27 wastewater, and the proposed project would not contribute to cumulative impacts. Cumulative impacts to  
28 wastewater are not discussed further herein.

29  
30 Construction of the proposed project would generate approximately 31,873 tons of waste over 27 months,  
31 or an average of 14,165 tons per year, that would be disposed of in either the El Sobrante or Badlands  
32 landfill. The El Sobrante landfill has an annual tonnage limit of 5,859,710, and the Badlands landfill has  
33 an annual limit of 1,460,000. Each landfill is anticipated to be open until 2045 and 2024, respectively.  
34 Therefore, the cumulative impact would be less than significant.

35  
36 The 23 anticipates a surplus of approximately 3,262,424,500 gallons of water during a Multiple Dry-Year  
37 scenario at general plan buildout. The EMWD anticipates having the ability to meet increased demand as  
38 forecasted out to 2035, indicating that cumulative water demand impacts would be less than significant.

39  
40 **6.3.15.5 Alberhill Project Impacts**

41  
42 The proposed Alberhill Project would not export wastewater to regional or municipal sanitary wastewater  
43 facilities and will have no impact to wastewater. The proposed project would have no impact to  
44 wastewater and therefore would not contribute to cumulative impacts. Cumulative impacts to wastewater  
45 are not discussed further herein.

46  
47 Construction of the proposed project would generate 142,246 tons of waste material over 28 months, or  
48 an average of approximately 61,000 tons per year. Operations would not generate measurable tonnage of  
49 waste. The El Sobrante landfill has an annual tonnage limit of 5,859,710, and the Badlands landfill has an  
50 annual limit of 1,460,000. Each landfill is anticipated to be open until 2045 and 2024, respectively.  
51 Therefore, the cumulative impact would be less than significant.

1  
2 The EVMWD anticipates a surplus of approximately 3,262,424,500 gallons of water during a Multiple  
3 Dry-Year scenario at general plan buildout. The EMWD anticipates having the ability to meet increased  
4 demand as forecasted out to 2035, indicating that cumulative water demand impacts would be less than  
5 significant.

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