

## **5.0 CUMULATIVE DEVELOPMENT**

### **5.1 CUMULATIVE DEVELOPMENT SCENARIO**

Section 15130 of the California Environmental Quality Act Guidelines requires that an environmental impact report discuss cumulative impacts of a project when the project's incremental effect is cumulatively considerable, as defined in Section 15065(c). Section 15355 of the California Environmental Quality Act Guidelines defines "cumulative impacts" as two or more individual effects that, when considered together, are either considerable or compound other environmental impacts. The goal of the cumulative project analysis is to identify those reasonably foreseeable projects that could have spatial and temporal overlaps with the proposed Project.

The cumulative development scenario analyzed for the East Cat Canyon Redevelopment Project (Project) was based on a list of projects provided by Santa Barbara County Planning and Development Department (March 2014). Table 5.1-1 – Cumulative Development Summary provides a brief summary of each project and Figure 5.1-1 through Figure 5.1-3 depict the locations of each project on a regional map.

PAGE LEFT INTENTIONALLY BLANK

**Table 5.1-1. Cumulative Development Summary**

Map Key Number	County Case Number	Project Name	APN(s)	County Area	Description	Permit Status (as of March 2014)	Permit Type
1	09PPP-00000-00002	Santa Maria Energy ODP	101-020-074	San Antonio Creek	136 wells, 3-mile oil line	Approved	Production Plan
2	06PPP-00000-00001	Cimarex Oil Production Plan	113-190-001	Santa Maria	2 exploratory wells	Approved	Production Plan
3	08PPP-00000-00001	Rock Energy Oil & Gas Production Plan	129-100-014	Santa Maria	Oil wells and facilities	Under Construction	Production Plan
4	09PPP-00000-00001	Underground Energy Production Plan	133-050-011 133-050-015 133-080-004 133-080-005	Santa Maria	26 wells	Approved	Production Plan
5	10PRE-00000-00013	ERG -Fugler Lease	101-040-017	Santa Maria	20 wells	Proposed	Preapplication
6	11PPP-00000-00001	North Garey ODP	129-080-011 129-100-017 129-100-023 129-100-029 129-100-030 129-100-031 129-180-007	Santa Maria	56 wells	In Process	Production Plan
7	05PPP-00000-00001	Breitburn Production Plan	101-020-041	Santa Maria	96 wells	Under Construction	Production Plan
8	11PRE-00000-00013	ERG Resources-Los Alamos Fee	101-060-053 101-060-054 101-070-001	Santa Maria	17 oil and gas wells	In Process	Preapplication
9	11PRE-00000-00017	Petrorock, LLC - Schopp Lease	128-100-027	Santa Maria	3 oil wells	In Process	Preapplication
10	11PRE-00000-00020	Amrich Energy - Tognazzini-Adams Lease	113-080-006 113-100-027 113-110-001	Santa Maria	12 oil wells, 2 produced water disposal wells	In Process	Preapplication
11	11PRE-00000-00021	ERG - Gwinn Fee Lease	101-070-003	Santa Maria	4 wells	In Process	Preapplication

**Table 5.1-1. Cumulative Development Summary**

Map Key Number	County Case Number	Project Name	APN(s)	County Area	Description	Permit Status (as of March 2014)	Permit Type
12	10PRE-00000-00011	ERG Resources, LLC Pre-Application	101-040-006	Santa Maria	20 wells	Proposed	Preapplication
13	11PRE-00000-00003	Amrich Energy - Hansen Lease	113-270-006	Santa Maria	4 wells	Proposed	Preapplication
14	11PRE-00000-00007	ERG Resources - GWP	129-180-013 129-180-015	Santa Maria	6 wells	Proposed	Preapplication
15	12DVP-00000-00005	ERG Foxen Pipeline	129-080-006 129-080-007 129-090-016 129-090-021 129-090-032 129-090-033 129-090-037 129-090-038 129-100-014 129-100-015 129-100-025 129-100-034 129-100-035 129-100-036 129-180-007 129-180-008 129-180-013 129-180-015	Santa Maria	2.9 Mile Oil Pipeline	In Process	Development Plan
16	11PRE-00000-00002	ERG Resources - Pinal Lease	101-020-078	Santa Maria	2 wells	Proposed	Preapplication
17	03CUP-00000-00059	Ventucopa Rock Plant Expansion	149-170-036 149-210-011 149-210-022	Cuyama Valley	400,000 tons/year	In Process	Conditional Use Permit

**Table 5.1-1. Cumulative Development Summary**

Map Key Number	County Case Number	Project Name	APN(s)	County Area	Description	Permit Status (as of March 2014)	Permit Type
18	07PPP-00000-00002	E&B Natural Resources Mgmt Production Plan	147-030-019 147-100-021	Cuyama Valley	2 oil wells	Under Construction	Production Plan
19	02TPM-00000-00011	Silverado Premium Properties TPM	101-080-019 101-080-020 101-080-062	San Antonio Creek	Four way lot split	In Process	Tentative Parcel Map
20	06TRM-00000-00002	Rancho La Laguna Tract Map 14,709	133-080-026 133-080-036 133-080-037	San Antonio Creek	Tract map for creation of 13 new parcels	In Process	Tract Map
21	07TPM-00000-00010	Carrari Lot Split (TPM 14,733)	099-030-051	San Antonio Creek	Tentative Parcel Map, 3 way lot split	Approved	Tentative Parcel Map
22	02TRM-00000-00007	Legacy Estates Tract Map	101-201-001 101-202-001 101-231-001 101-232-001 101-233-001 101-234-001 101-242-001	San Antonio Creek/ Los Alamos Community Plan	Creation of 59 lots from antiquated lots within urban boundary of Los Alamos.	Approved	Tract Map
23	05TRM-00000-00006	Jackson Tract Map 14,690	101-182-003 101-182-009 101-182-011 101-182-012	San Antonio Creek/ Los Alamos Community Plan	Tract map to split two parcels into six lots.	Approved	Tract Map
24	06TPM-00000-00026	Alamo Trust Lot Split (TPM 14,717)	101-184-007	San Antonio Creek/ Los Alamos Community Plan	Tentative parcel map for a two-way lot split	Approved	Tentative Parcel Map

**Table 5.1-1. Cumulative Development Summary**

Map Key Number	County Case Number	Project Name	APN(s)	County Area	Description	Permit Status (as of March 2014)	Permit Type
25	07TPM-00000-00007	Alamos Foxen LLC (TPM 14,728)	101-270-028	San Antonio Creek/ Los Alamos Community Plan	Tentative parcel map for division of 1 parcel into 3 parcels	Approved	Tentative Parcel Map
26	07TPM-00000-00009	Almada Lot Split (TPM 14,731)	101-260-017	San Antonio Creek/ Los Alamos Community Plan	Tentative parcel map for a two-way lot split	Approved	Tentative Parcel Map
27	09CUP-00000-00026	Helgeland Mixed Use Building	101-183-010	San Antonio Creek/ Los Alamos Community Plan	11,921 sq ft commercial building	Approved	Development Plan
28	10PRE-00000-00010	The Children's Project Academy Pre-application	101-100-038 101-100-040	San Antonio Creek/ Los Alamos Community Plan	Small village	Proposed	Preapplication
29	11LUP-00000-00148	Rosemary Commons	101-173-001	San Antonio Creek/ Los Alamos Community Plan	5,720 sq ft building	Approved	

**Table 5.1-1. Cumulative Development Summary**

Map Key Number	County Case Number	Project Name	APN(s)	County Area	Description	Permit Status (as of March 2014)	Permit Type
30	11LUP-00000-00149	Sagebrush Junction	101-260-006 101-260-007	San Antonio Creek/ Los Alamos Community Plan	Three two-story apartment buildings (10,320 sf), two single story commercial buildings (5,600 sf).	Under Construction	
31	06DVP-00000-00009	OSR Enterprising/NRG Enterprises LP	128-096-001 128-096-004 128-096-005	Santa Maria Valley	185,820 sf cooler, 10,496 sf office, 22,000 sf shop	Approved	Development Plan
32	06DVP-00000-00013	HIN Development Plan	128-093-021	Santa Maria Valley	9,750 sf fenced area	In Process	Development Plan
33	06TPM-00000-00019	OSR/NRG Enterprises (TPM 14,707)	128-096-001 128-096-004 128-096-005	Santa Maria Valley	Tentative parcel map for lot split and rezone.	Approved	Tentative Parcel Map
34	07DVP-00000-00004	Johnson Truck Service Center	111-030-018	Santa Maria Valley	Truck service center	In Process	Development Plan
35	08DVP-00000-00007	Plantel Nurseries	129-170-004	Santa Maria Valley	2 growing areas (1.04 acres), 21 greenhouses (972,720 sf), 30,000 sf warehouse, 12,000 sf shop	Under Construction	Development Plan
36	08DVP-00000-00032	Arc Vineyards Winery	129-151-045 129-151-067 129-151-068	Santa Maria Valley	Tier III winery	Under Construction	Development Plan

**Table 5.1-1. Cumulative Development Summary**

Map Key Number	County Case Number	Project Name	APN(s)	County Area	Description	Permit Status (as of March 2014)	Permit Type
37	08CUP-00000-00074	Arc Vineyards Employee Dwellings	129-151-045 129-151-067 129-151-069	Santa Maria Valley	3 employee units, 2 manager's units	Approved	
38	08TPM-00000-00012	Rancho Real LLC Lot Split (TPM 14,752)	101-020-013	Santa Maria Valley	Tentative parcel map to creat four parcels	Approved	Tentative Parcel Map
39	10DVP-00000-00016	Adam Bros Farming As-Built Development Plan	113-150-013	Santa Maria Valley	Structures (100,00 sf)	Under Construction	Development Plan
40	10PRE-00000-00007	Grayson Service Preapplication	129-180-015	Santa Maria Valley	Steam generator	Approved	Preapplication
41	10TPM-00000-00005	Greka Land Holdings Tentative Parcel Map (TPM 14,773)	129-170-027	Santa Maria Valley	Lot split to place oil & gas operations in minimum lot	Approved	Tentative Parcel Map
42	11DVP-00000-00012	Coastal Growers Supply Storage Yard	111-020-013	Santa Maria Valley	Two 7,500 sf metal buildings.	Under Construction	Development Plan
43	11DVP-00000-00013	Sierra Madre Ranch Winery	129-010-007	Santa Maria Valley	Tier II winery	Approved	Development Plan
44	11DVP-00000-00014	F' Street Development Plan - Parcel 3	111-030-025	Santa Maria Valley	Office (1,500 sf), garage/shop (4,000 sf), 10,000 gal domestic water service	In Process	Development Plan
45	11DVP-00000-00015	F' Street Development Plan - Parcel 4	111-030-026	Santa Maria Valley	Office (1,500 sf), garage/shop (4,000 sf), 10,000 gal domestic water service	In Process	Development Plan

**Table 5.1-1. Cumulative Development Summary**

Map Key Number	County Case Number	Project Name	APN(s)	County Area	Description	Permit Status (as of March 2014)	Permit Type
46	11PRE-00000-00001	ERG Resources Pre-application - Fugler 880 Lease	129-170-006	Santa Maria Valley	4 wells	In Process	Preapplication
47	12AMD-00000-00008	Rock Energy Oil & Gas Production Plan	129-080-011 129-100-014 129-100-017 129-100-023 129-100-029 129-100-030 129-100-031 129-180-007	Santa Maria Valley	56 wells	In Process	Production Plan
48	06DVP-00000-00016	Orcutt Union Plaza/Will Commercial Bldgs	105-091-001 105-091-006	Santa Maria Valley/Old Town Orcutt & OC Plan	4 buildings (66,831 sf total)	Under Construction	Development Plan
49	06TPM-00000-00014	Gayda Lot Split (TPM 14,703)	105-060-013	Santa Maria Valley/Old Town Orcutt & OC Plan	Tentative parcel map for the creation of three new parcels	Approved	Tentative Parcel Map
50	09GPA-00000-00004	Key Site 17 General Plan Amendment	105-134-004 105-134-005 105-330-005 105-330-006	Santa Maria Valley/Old Town Orcutt & OC Plan	Senior housing project	In Process	General Plan Amendment
51	10LUP-00000-00461	Van Veen Mixed Use Building	105-101-012	Santa Maria Valley/Old Town Orcutt & OC Plan	1 building (8601 sf)	In Process	Land Use Permit
52	01CUP-00000-00115	Orcutt Aquacenter	107-470-011	Santa Maria Valley/Orcutt Community Plan	Aquacenter	Approved	Conditional Use Permit

**Table 5.1-1. Cumulative Development Summary**

Map Key Number	County Case Number	Project Name	APN(s)	County Area	Description	Permit Status (as of March 2014)	Permit Type
53	02NEW-00000-00053	Leo Evans-Northpointe (OLD 98-DP-023)	107-560-001	Santa Maria Valley/Orcutt Community Plan	32 Condominium units	Approved	Development Plan
54	02TRM-00000-00010	Addamo Winery/ Diamente [Tract Map 14,616]	129-151-042	Santa Maria Valley/Orcutt Community Plan	Creation of five RR-10 lots and two AG-I-20 lots	Approved	Tract Map
55	03DVP-00000-00009	Rice Ranch Development Plan	101-010-013 101-020-004 105-140-016	Santa Maria Valley/Orcutt Community Plan	Divide property into 512 lots.	Under Construction	Development Plan
56	03TPM-00000-00008	Daniels Lot Split (TPM 14,626)	129-151-038	Santa Maria Valley/Orcutt Community Plan	Divide one 23.42 acre parcel into two parcels	Approved	Tentative Parcel Map
57	03TRM-00000-00001	Fetyko Tract Map (TM 14,627)	103-740-016	Santa Maria Valley/Orcutt Community Plan	18 lot subdivision	Approved	Tract Map
58	04TPM-00000-00010	Burinda Lot Split (TPM 14,656)	129-151-040	Santa Maria Valley/Orcutt Community Plan	Two-way lot split	Approved	Tentative Parcel Map
59	04TPM-00000-00013	Mendoza Lot Split (TPM 14,659)	103-200-048	Santa Maria Valley/Orcutt Community Plan	Two-way lot split	Approved	Tentative Parcel Map

**Table 5.1-1. Cumulative Development Summary**

Map Key Number	County Case Number	Project Name	APN(s)	County Area	Description	Permit Status (as of March 2014)	Permit Type
60	05SPP-00000-00002	English-Joseph Specific Plan	103-181-006	Santa Maria Valley/Orcutt Community Plan	Commercial retail and office condominiums (56,806 sf)	In Process	Specific Plan
61	05TPM-00000-00015	Meyer Lot Split (TPM 14,679)	103-181-013	Santa Maria Valley/Orcutt Community Plan	Three-way lot split of 4.25 acre parcel into 3 parcels	Approved	Tentative Parcel Map
62	05TPM-00000-00018	Treur Lot Split (TPM 14,683)	129-151-015	Santa Maria Valley/Orcutt Community Plan	Two-way lot split	Approved	Tentative Parcel Map
63	05TRM-00000-00004	Wilks Tract Map 14,681	105-210-032	Santa Maria Valley/Orcutt Community Plan	Tract map 14,681	Approved	Tract Map
64	06DVP-00000-00008	Orcutt Marketplace	129-120-024	Santa Maria Valley/Orcutt Community Plan	Commercial and hotel development	Approved	Development Plan
65	06GPA-00000-00016	Key Site 3 General Plan Amendment	129-151-026	Santa Maria Valley/Orcutt Community Plan	Change from RR-10 to Residential	In Process	General Plan Amendment
66	06TPM-00000-00003	Conley Lot Split (TPM 14,693)	105-010-032	Santa Maria Valley/Orcutt Community Plan	Three-way lot split	Approved	Tentative Parcel Map
67	06TPM-00000-00022	Hope Community Church (TPM 14,711)	107-150-019	Santa Maria Valley/Orcutt Community Plan	Creation of 3 lots from 1	Approved	Tentative Parcel Map

**Table 5.1-1. Cumulative Development Summary**

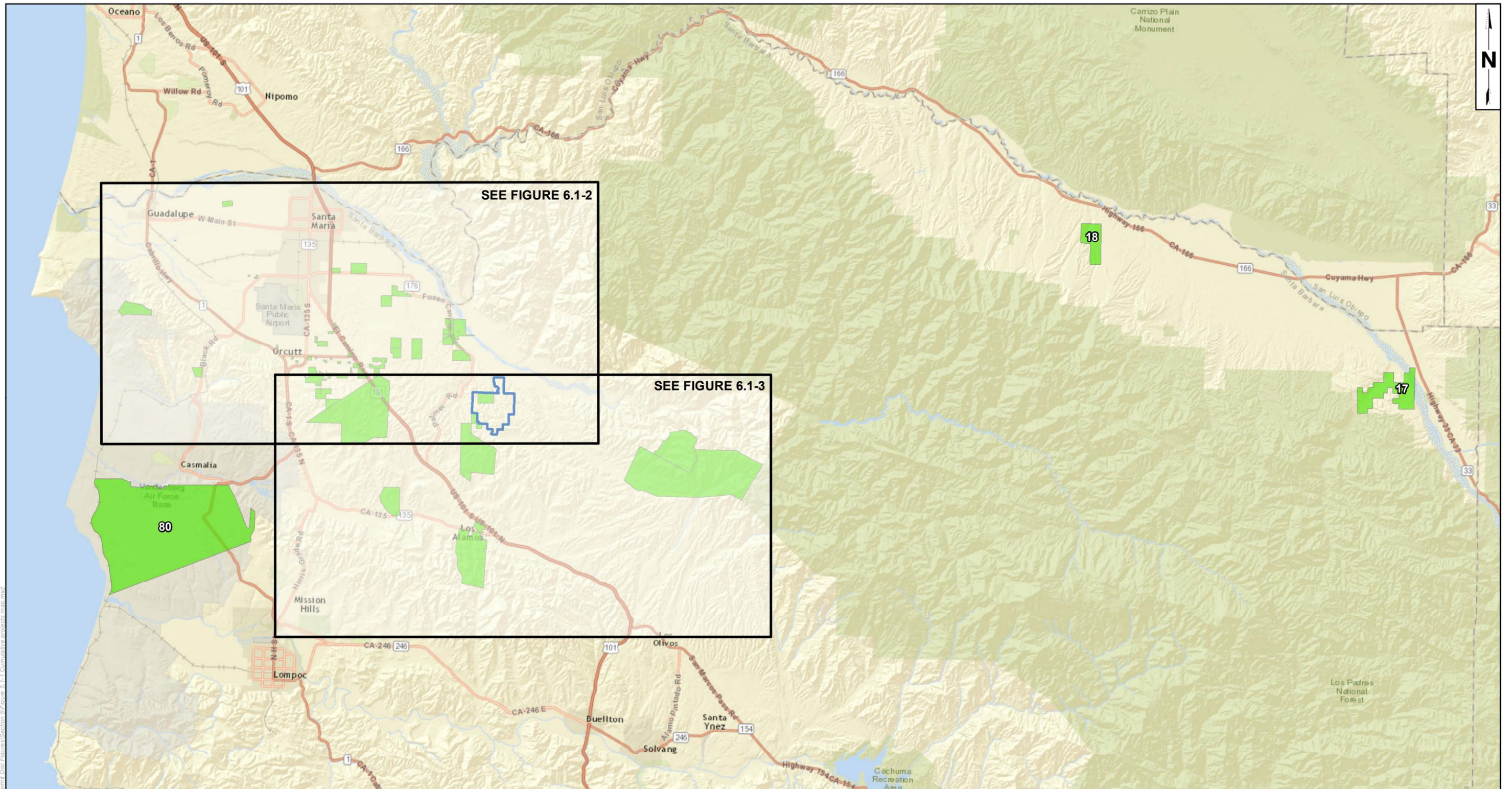
Map Key Number	County Case Number	Project Name	APN(s)	County Area	Description	Permit Status (as of March 2014)	Permit Type
68	06TPM-00000-00024	Chaloupka Lot Split (TPM 14,714)	129-151-019	Santa Maria Valley/Orcutt Community Plan	Tentative parcel map for the creation of two parcels	Approved	Tentative Parcel Map
69	07DVP-00000-00009	PR Investments/Evergreen Shopping Ctr Development Plan	109-200-012 109-200-013 109-200-015 109-200-016	Santa Maria Valley/Orcutt Community Plan	Demolition of structures (~32,000 sf), redevelopment of shopping center (61,958 sf).	Under Construction	Development Plan
70	07DVP-00000-00020	St. Joseph Development Plan	107-240-015	Santa Maria Valley/Orcutt Community Plan	Processing will continue under this Development Plan	Under Construction	Development Plan
71	07DVP-00000-00026	St. Louis De Montfort Church	103-200-071	Santa Maria Valley/Orcutt Community Plan	New structure	Under Construction	Development Plan
72	07TRM-00000-00004	Orcutt Marketplace Tract Map (TM 14,734)	129-120-024	Santa Maria Valley/Orcutt Community Plan	Vesting tentative tract map with the creation of twelve lots	Approved	Tract Map
73	08TRM-00000-00001	Hummel Village II Airspace Condos (TM 14,740)	107-270-003	Santa Maria Valley/Orcutt Community Plan	Parcel map for the creation of twenty airspace condominiums	Approved	Tract Map
74	09DVP-00000-00029	Clark Avenue Commercial	103-750-038	Santa Maria Valley/Orcutt Community Plan	3 buildings (12,938 sf total)	Approved	Development Plan

**Table 5.1-1. Cumulative Development Summary**

Map Key Number	County Case Number	Project Name	APN(s)	County Area	Description	Permit Status (as of March 2014)	Permit Type
75	10DVP-00000-00002	Key Site 30 Development Plan	107-250-008	Santa Maria Valley/Orcutt Community Plan	Development Plan for recreation part of site.	Approved	Development Plan
76	10GPA-00000-00006	Revised Rice Ranch General Plan Amendment 2011	101-380-001 101-380-002 101-380-003 101-390-001 101-400-001 101-400-002 101-400-003 101-440-029	Santa Maria Valley/Orcutt Community Plan	General Plan Amendment for the revision to Rice Ranch	In Review	General Plan Amendment
77	10TRM-00000-00003	Terrace Villas Tract Map 14,770	129-300-001 129-300-002 129-300-003 129-300-004 129-300-005 129-300-006 129-300-007 129-300-008 129-300-009 129-300-010 129-300-011 129-300-012 129-300-013 129-300-014 129-300-015 129-300-016 129-300-017 129-300-018 129-300-019 129-300-020	Santa Maria Valley/Orcutt Community Plan	The project would re-design the currently recorded tract map for Terrace Ranch under a new tract map	Approved	Tract Map

**Table 5.1-1. Cumulative Development Summary**

<b>Map Key Number</b>	<b>County Case Number</b>	<b>Project Name</b>	<b>APN(s)</b>	<b>County Area</b>	<b>Description</b>	<b>Permit Status (as of March 2014)</b>	<b>Permit Type</b>
78	11CUP-00000-00003	Primrose Special Care Facility	105-010-080	Santa Maria Valley/Orcutt Community Plan	Residential care facility	Approved	Conditional Use Permit
79	11TPM-00000-00003	Richardson Tentative Parcel Map (TPM 14,780)	129-151-037	Santa Maria Valley/Orcutt Community Plan	Subdividing 40.69 acre lot into 4 lots of 10.17 acres each	In Process	Tentative Parcel Map
80	11PRE-00000-00006	PXP Pre-application - Fire Fighter Road	095-030-006	Vandenberg	1 well	Proposed	Preapplication



- LEGEND:**
- Cumulative Projects Detailed View Extent
  - Aera Energy LLC Property
  - Cumulative Projects

Number	Project Name
17	Ventucopa Rock Plant Expansion
18	E&B Natural Resources Mgmt Production Plan
80	PXP Pre-application - Fire Fighter Road



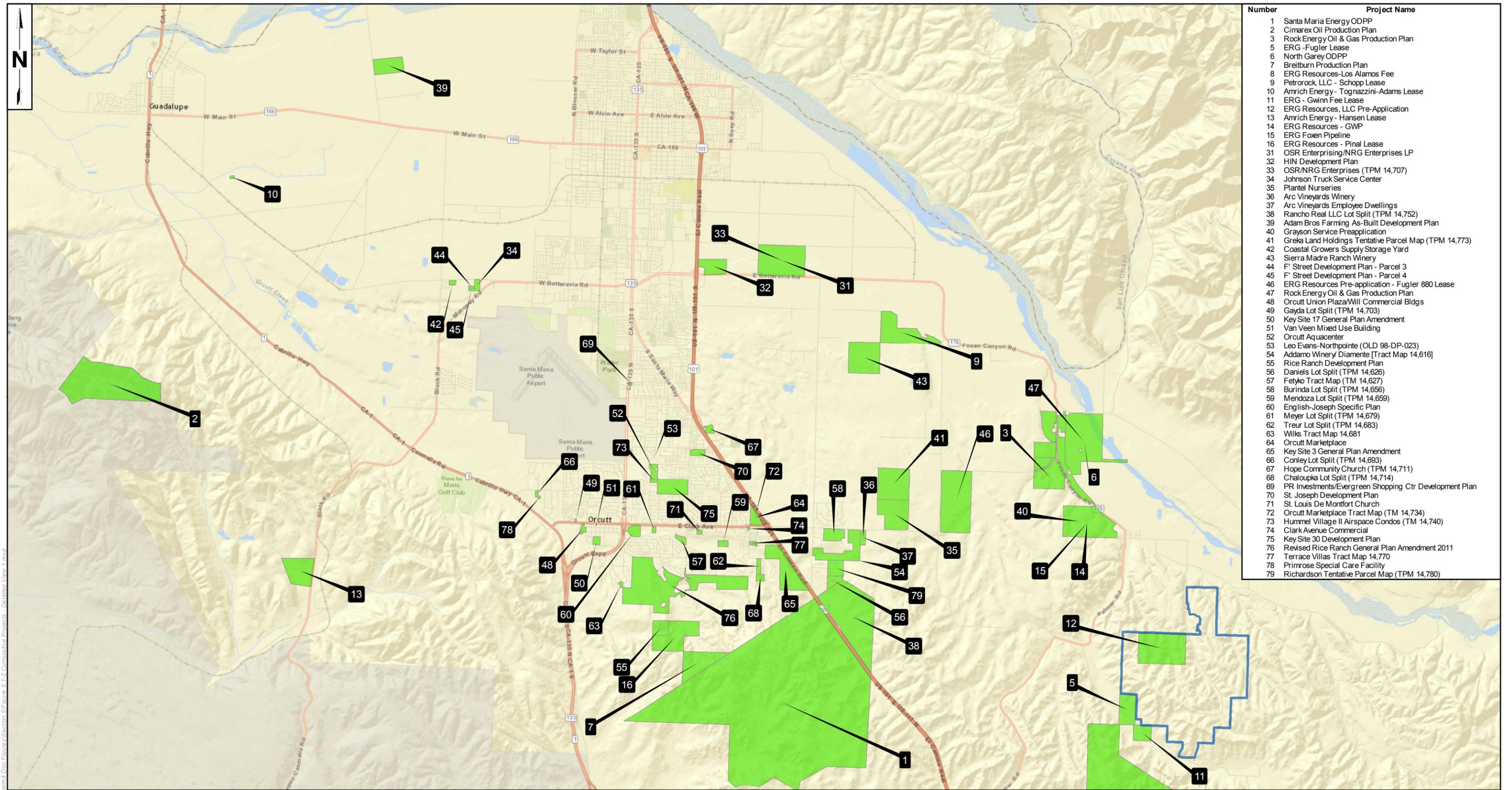
Source: ESRI Basemap, County of Santa Barbara  
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet  
 Notes: This map was created for informational and display purposes only

PROJECT NAME:	EAST CAT CANYON OIL FIELD REDEVELOPMENT PROJECT	
PROJECT NUMBER:	1002-0455	DATE: November 2014

## CUMULATIVE PROJECTS OVERVIEW

FIGURE 5.1-1

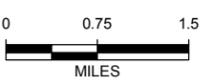




Number	Project Name
1	Santa Maria Energy ODP
2	Cimarex Oil Production Plan
3	Rock Energy Oil & Gas Production Plan
5	ERG -Fugler Lease
6	North Garey ODP
7	Breitburn Production Plan
8	ERG Resources-Los Alamos Fee
9	Petrorock, LLC - Schopp Lease
10	Amrich Energy - Tognazzini-Adams Lease
11	ERG - Gwinn Fee Lease
12	ERG Resources, LLC Pre-Application
13	Amrich Energy - Hansen Lease
14	ERG Resources - GWP
15	ERG Foxen Pipeline
16	ERG Resources - Pinal Lease
31	OSR Enterprising/NRG Enterprises LP
32	HIN Development Plan
33	OSR/NRG Enterprises (TPM 14,707)
34	Johnson Truck Service Center
35	Plantel Nurseries
36	Arc Vineyards Winery
37	Arc Vineyards Employee Dwellings
38	Rancho Real LLC Lot Split (TPM 14,752)
39	Adam Bros Farming As-Built Development Plan
40	Grayson Service Preapplication
41	Greka Land Holdings Tentative Parcel Map (TPM 14,773)
42	Coastal Growers Supply Storage Yard
43	Sierra Madre Ranch Winery
44	F' Street Development Plan - Parcel 3
45	F' Street Development Plan - Parcel 4
46	ERG Resources Pre-application - Fugler 880 Lease
47	Rock Energy Oil & Gas Production Plan
48	Orcutt Union Plaza/Will Commercial Bldgs
49	Gayda Lot Split (TPM 14,703)
50	Key Site 17 General Plan Amendment
51	Van Veen Mixed Use Building
52	Orcutt Aquacenter
53	Leo Evans-Northpointe (OLD 98-DP-023)
54	Addamo Winery Diamante [Tract Map 14,616]
55	Rice Ranch Development Plan
56	Daniels Lot Split (TPM 14,626)
57	Fetyko Tract Map (TM 14,627)
58	Burinda Lot Split (TPM 14,656)
59	Mendoza Lot Split (TPM 14,659)
60	English-Joseph Specific Plan
61	Meyer Lot Split (TPM 14,679)
62	Treuer Lot Split (TPM 14,683)
63	Wilks Tract Map 14,681
64	Orcutt Marketplace
65	Key Site 3 General Plan Amendment
66	Conley Lot Split (TPM 14,693)
67	Hope Community Church (TPM 14,711)
68	Chaloupka Lot Split (TPM 14,714)
69	PR Investments/Evergreen Shopping Ctr Development Plan
70	St. Joseph Development Plan
71	St. Louis De Montfort Church
72	Orcutt Marketplace Tract Map (TM 14,734)
73	Hummel Village II Airspace Condos (TM 14,740)
74	Clark Avenue Commercial
75	Key Site 30 Development Plan
76	Revised Rice Ranch General Plan Amendment 2011
77	Terrace Villas Tract Map 14,770
78	Primrose Special Care Facility
79	Richardson Tentative Parcel Map (TPM 14,780)

**LEGEND:**

-  Aera Energy LLC Property
-  Cumulative Projects



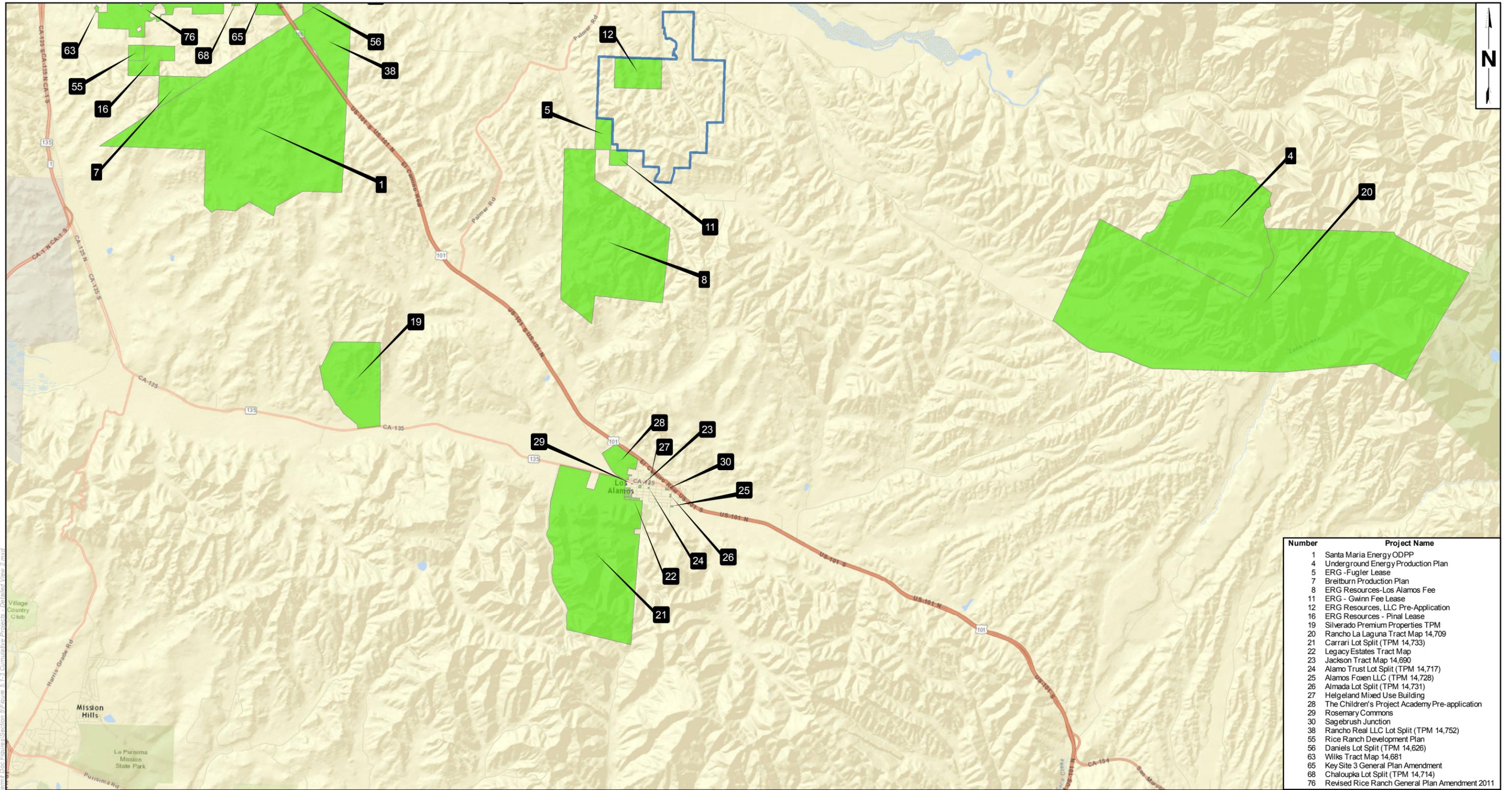
Source: ESRI Basemap, County of Santa Barbara  
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet  
 Notes: This map was created for informational and display purposes only

PROJECT NAME: EAST CAT CANYON OIL FIELD REDEVELOPMENT PROJECT	
PROJECT NUMBER: 1002-0455	DATE: November 2014

**CUMULATIVE PROJECTS  
 DETAILED VIEW 1**

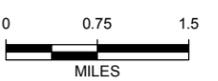
FIGURE  
**5.1-2**





Number	Project Name
1	Santa Maria Energy ODP
4	Underground Energy Production Plan
5	ERG - Fugler Lease
7	Breitburn Production Plan
8	ERG Resources-Los Alamos Fee
11	ERG - Gwinn Fee Lease
12	ERG Resources, LLC Pre-Application
16	ERG Resources - Pinal Lease
19	Silverado Premium Properties TPM
20	Rancho La Laguna Tract Map 14,709
21	Carrari Lot Split (TPM 14,733)
22	Legacy Estates Tract Map
23	Jackson Tract Map 14,690
24	Alamo Trust Lot Split (TPM 14,717)
25	Alamos Foxen LLC (TPM 14,728)
26	Almada Lot Split (TPM 14,731)
27	Helgeland Mixed Use Building
28	The Children's Project Academy Pre-application
29	Rosemary Commons
30	Sagebrush Junction
38	Rancho Real LLC Lot Split (TPM 14,752)
55	Rice Ranch Development Plan
56	Daniels Lot Split (TPM 14,626)
63	Wilks Tract Map 14,681
65	Key Site 3 General Plan Amendment
68	Chaloupka Lot Split (TPM 14,714)
76	Revised Rice Ranch General Plan Amendment 2011

**LEGEND:**  
 Aera Energy LLC Property  
 Cumulative Projects



Source: ESRI Basemap, County of Santa Barbara  
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet  
 Notes: This map was created for informational and display purposes only

PROJECT NAME: EAST CAT CANYON OIL FIELD REDEVELOPMENT PROJECT  
 PROJECT NUMBER: 1002-0455 DATE: November 2014

**CUMULATIVE PROJECTS  
 DETAILED VIEW 2**

FIGURE  
**5.1-3**

E:\ministry\GIS\Mapas\Mapa\Project\East\_Cat\_Canyon\01\Map\Doc\Figures\Section 5\Figure 5.1-3 Cumulative Projects - Detailed View 2.mxd



## 5.2 AIR QUALITY

Santa Barbara County Air Pollution Control District under California Environmental Quality Act defines cumulative impacts as two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts. Based on the analysis conducted for this project, the Project is individually significant for unmitigated NOx emissions from long-term operations and unmitigated GHG impacts. The following paragraphs, which summarize the results of Insight Environmental Consultant's Air Quality Impact Assessment (Appendix J), consider the impacts of the Project along with the impacts of other projects previously proposed in the area. Cumulative ozone impacts (reactive organic gases and nitrogen oxides) were considered from numerous sources within the region including transport from outside the region. Ozone is formed through chemical reactions of reactive organic gases and nitrogen oxides in the presence of sunlight.

### 5.2.1 Cumulative Regional Air Quality Impacts

The most recent, certified South Central Coast Air Basin Emission Inventory data available from the California Air Resources Board is based on data gathered for the 2012 annual inventory. This data will be used to assist the Santa Barbara County Air Pollution Control District in demonstrating attainment of Federal 1-hour ozone Standards. Table 5.2-1 provides a comparative look at the impacts proposed by the subject Project to the South Central Coast Air Basin Emissions Inventory and the Santa Barbara County portion of the South Central Coast Air Basin.

**Table 5.2-1. Project Emissions Relative to 2012 Emission Inventory for South Central Coast Air Basin**

Emission Sources	Carbon monoxide (tons/year)	Reactive Organic Gases (tons/year)	Nitrogen Oxides (tons/year)	Sulfur Oxides (tons/year)	Particulate matter up to 10 microns in diameter (tons/year)	Particulate matter up to 2.5 microns in diameter (tons/year)
Santa Barbara County (South Central Coast Air Basin Portion)	98,404	66,905	9,819	803	10,147	6,716
South Central Coast Air Basin	231,082	163,520	27,302	1,643	26,864	14,126
Project	57.91	12.39	28.76	5.49	12.01	6.62
Project's % of Santa Barbara County	0.06%	0.02%	0.29%	0.68%	0.12%	0.10%
Project's % of South Central Coast Air Basin	0.03%	0.01%	0.11%	0.33%	0.04%	0.05%

Source: California Air Resources Board 2014a

As shown in Table 5.2-1, the Project does not appear to pose a significant increase to current basin emissions, as such basin emissions would be essentially the same if the Project is approved.

Tables 5.2-2 through 5.2-4 provide California Air Resources Board Emissions Inventory projections for the year 2020 for the Santa Barbara County Air Pollution Control District. The Project produces a small portion of the total emissions within Santa Barbara County Air Pollution Control District boundaries.

**Table 5.2-2. Emission Inventory South Central Coast Air Basin 2020 Projection**

	<b>Reactive Organic Gases (tons/year)</b>	<b>Nitrogen Oxides (tons/year)</b>	<b>Particulate matter up to 10 microns in diameter (tons/year)</b>
Total Emissions	148,044	18,652	27,594
Total Stationary Source Emissions	7,446	2,811	803
Total Area-Wide Source Emissions	9,928	1,022	14,381
Total Mobile Source Emissions	7,446	13,250	1,351
Total Natural Source Emissions	123,224	1,570	11,060
Note: Total may not add due to rounding.			

Source: California Air Resources Board 2014 ([www.arb.ca.gov/app/emsinv/2013/emssumcat.php](http://www.arb.ca.gov/app/emsinv/2013/emssumcat.php))

**Table 5.2-3. Emission Inventory South Central Coast Air Basin – Santa Barbara County Portion 2020 Projection**

	<b>Reactive Organic Gases (tons/year)</b>	<b>Nitrogen Oxides (tons/year)</b>	<b>Particulate matter up to 10 microns in diameter (tons/year)</b>
Total Emissions	59,678	6,972	10,220
Total Stationary Source Emissions	3,577	1,497	365
Total Area-Wide Source Emissions	3,212	365	4,015
Total Mobile Source Emissions	2,008	4,453	402
Total Natural Source Emissions	50,881	694	5,439
Note: Total may not add due to rounding.			

Source: California Air Resources Board 2014 ([www.arb.ca.gov/app/emsinv/2013/emssumcat.php](http://www.arb.ca.gov/app/emsinv/2013/emssumcat.php))

**Table 5.2-4. 2020 Emissions Projections – Proposed Project and Santa Barbara County Air Pollution Control District**

	<b>Reactive Organic Gases (tons/year)</b>	<b>Nitrogen Oxides (tons/year)</b>	<b>particulate matter up to 10 microns in diameter (tons/year)</b>
Project	12.39	28.76	12.01
Santa Barbara County	59,678	6,972	10,220
South Central Coast Air Basin	148,044	18,652	27,594
Project Percent of Santa Barbara County	0.02%	0.41%	0.12%
Project Percent of South Central Coast Air Basin	0.01%	0.15%	0.04%
Notes: The emission estimates for Santa Barbara County and the South Central Coast Air Basin are based on 2020 projections. The Proposed Project emission estimates are for the proposed emissions that are not already included in the South Central Coast Air Basin Emissions Inventory. Project emissions are based on the worst case year emissions estimates to present the most conservative comparison. The Project's emissions are expected to decline as cleaner, less polluting vehicles replace vehicles with higher emissions.			

Source: California Air Resources Board 2014 ([www.arb.ca.gov/app/emssumcat.php](http://www.arb.ca.gov/app/emssumcat.php))

As shown above, the proposed Project would pose no substantial impact on forecasted future regional ozone and particulate matter up to 10 microns in diameter formation. The regional contribution to these cumulative impacts would be negligible. It is reasonable to conclude that the Project is not considered cumulatively significant with regard to regional ozone and particulate matter up to 10 microns in diameter impacts based on evaluation of the regional emission inventory.

### 5.2.2 Cumulative Localized Air Quality Impacts

Except for ERG's Cat Canyon projects (Map Key Numbers 5, 11, and 12), none of the projects in the above Cumulative Development Summary (Table 5.1-1) would be built in the immediate vicinity of the Project; therefore there would be no operational localized impacts associated with cumulative projects and criteria pollutant emissions. ERG's projects propose additional wells and pipelines on and near the Project site, but these do not significantly contribute to emissions. ERG's emitting equipment is not in the immediate vicinity of the Project. Operational regional impacts from criteria pollutants could be produced, however, as multiple projects would emit into the same air basin at the same time. Additionally, no cumulative significance thresholds are shown since no cumulative thresholds have been established by the Santa Barbara County Air Pollution Control District, California Air Resources Board or other regulatory authority. These projects represent all known and reasonably foreseeable projects in the area. Air quality regional impacts from cumulative development could be cumulatively significant because the air basin is in nonattainment for several criteria pollutants.

The Project's unmitigated operational impacts would be significant, therefore, the Project's unmitigated cumulative contribution would be cumulatively considerable and would be a significant cumulative impact. To reduce these Project impacts, Project-incorporated

minimization and avoidance measures will be implemented (refer to Section 4.1). Even with the Project's impacts reduction with implementation of Project-incorporated minimization and avoidance measures, the Project's contribution to cumulative impacts with mitigation would be cumulatively considerable and would be considered significant and unavoidable.

### **5.3 HAZARDOUS MATERIALS/RISK OF UPSET**

Projects contributing to cumulative hazardous materials/risk of upset impacts consist of industrial activities (primarily on the adjacent ERG Resources LLC leases and pipelines and other oil and gas related projects within the vicinity) which are identified within Table 5.1-1.

The County of Santa Barbara does not include thresholds of significance for cumulative impacts to hazardous materials within its Thresholds and Guidelines Manual (County of Santa Barbara, 2008). However, as discussed within the County Guidelines for the Implementation of the California Environmental Quality Act of 1970 (Santa Barbara County, 2010), unless otherwise specified, a project's potential contribution to cumulative impacts should be assessed utilizing the same significance criteria as those for project-specific impacts.

As discussed within Section 4.2 (Hazardous Materials/Risk of Upset), Project-specific hazardous materials impacts are associated with exposure to hazardous materials during the handling, use, and storage of hazardous materials on-site. This potential may occur during grading activities that have the potential to encounter legacy fill petroleum-hydrocarbon containing soils, as well as during the use and storage of hazardous materials throughout construction, well drilling, and operation of the Project. Although the Project will re-introduce use and storage of hazardous materials to this area, the Quantitative Risk Assessment did not show a significant impact to public safety as a result of the Project. In addition, Project-incorporated avoidance and minimization measures provided to reduce Project-specific impacts (HAZ-1 through HAZ-11) will reduce potential impacts to a less than significant level. No cumulative hazardous materials impacts will occur, and no Project-incorporated avoidance or minimization measures are required to address cumulative impacts.

### **5.4 WATER RESOURCES**

#### **5.4.1 Storm Water and Surface Water Quality and Quantity**

Storm water generated from the Project site during construction and operational activities is not anticipated to result in a significant impact to storm water quality or quantity because of the implementation of several avoidance and minimization measures, as stated in Section 4.3. These measures include the preparation and implementation of a construction storm water pollution prevention plan, in accordance with the State Water Resources Control Board's General Permit for Storm Water Discharges Associated with Construction Activities and Land Disturbance. Throughout Project operation, storm water discharge from the central processing facility will be directed to on-site retention basins for percolation or injection into the oil reservoir via on-site injection wells. Storm water discharges from well pads, roads, and staging areas will be captured within several on-site detention basins for temporary storage, visual inspection, and controlled release.

On a cumulative level, each project listed on the County's cumulative projects list will also be required to comply with the State Water Resources Control Board's Construction General

Permit and local storm water regulations. Therefore cumulative impacts to storm water are anticipated to be less than significant.

#### **5.4.2 Groundwater Quality and Quantity**

The Project will not utilize fresh water resources for steam generation; fresh water use during operations will be limited to domestic, irrigation, and fire water uses at the Project site. Construction-related water will come from on-site water wells and will be used primarily for dust control and soil compaction requirements. On a cumulative level, the proposed ERG Resources LLC oil field production plan will also utilize brackish produced water for steam generation. The proposed Petrorock production plan will primarily utilize produced water for steam generation, but also has a stated projection of up to 24 acre-feet/year of fresh water use. Therefore, groundwater use resulting from the proposed project in conjunction with other proposed oil and gas production projects is not anticipated to result in a cumulative water resources impact to the Santa Maria Valley Groundwater Basin.

The Project will implement several avoidance and minimization measures to reduce the potential for spills or other releases that could impact groundwater quality, including: Spill Prevention, Control, and Countermeasures Plan, Spill Contingency Plans, and Hazardous Materials Business Plan. These measures are required by federal and state regulations and will also be required for other oil and gas production plans listed within the cumulative development scenario. Compliance with existing federal and state will adequately reduce cumulative impacts to groundwater quality to less than significant levels.

### **5.5 BIOLOGICAL RESOURCES**

Cumulative biological impacts are the collective result of any number of related or unrelated projects ongoing or proposed within geographical areas that together have a greater impact on biological resources than any one project considered individually. The Project site and surrounding areas consist of current and past land disturbance from oil development activities, agriculture, and other industrial uses. As discussed in Section 5.1, projects within the immediate vicinity (i.e., within one mile) of the Project site include the development of oil wells either proposed or in process. Specifically, the following projects are located within the same watersheds as the Project: 20 ERG Resources LLC wells proposed within the Fugler Lease (10PRE-00000-00013); 20 ERG Resources LLC wells proposed within the Aera property (10PRE-00000-00011); and an approved lot split to place oil and gas operations in Greka Land Holdings (10TPM-00000-00005).

The increase in oil and gas operations in the Project vicinity will cumulatively increase human presence, vehicle traffic, development of roads, and noise from operations and ongoing well maintenance within Cat Canyon and Long Canyon. Wildlife that utilize the resources in the vicinity, specifically the larger drainages that provide cover and migratory passageways, such as Cat Canyon Creek, may be potentially impacted indirectly from these cumulative disturbances. Direct impacts may also result from vehicle collisions, specifically during the early morning hours and night along Cat Canyon Road. These impacts may be increased during periods when water is present within ephemeral ponds and creek channels that attract wildlife from upland areas, including semi-aquatic amphibians, such as, California tiger salamander, California red-legged frog, and western spadefoot toad.

In addition, the Project has the potential to impact California tiger salamander habitat and oak woodland habitat and add to cumulative impacts to biological resources that may result from development in the region. The Project-related impacts to biological resources can be reduced to less than significant levels with the implementation of Project-incorporated minimization and avoidance measures. With implementation of measures BIO-1 through BIO-17, the Project's impacts to biological resources will not be individually significant, nor will they be cumulatively considerable.

## **5.6 GEOLOGIC PROCESSES**

Most geologic processes impacts are site-specific and are not subject to cumulative analysis. Environmental issues pertaining to geology such as erosion are mitigated by standard measures for all development projects; as would be anticipated for those projects considered for cumulative analysis within Section 5.1 (Cumulative Projects).

Although the Project will have the potential for short-term impacts during construction resulting from disruption and displacement of soils within areas containing slopes greater than 20 percent or on unconsolidated soils leading to an increased potential for erosion or slope stability issues; these potential impacts will be mitigated to less than significant through implementation of Project-incorporated avoidance and minimization measure GEO-1. Cumulative impacts related to seismically-related ground shaking and associated ground failure, as well as landslides and other impacts, will be similar to what is described for Project-specific impacts. The impacts will be addressed on a project-by-project basis through compliance with existing building codes and any site-specific mitigation measures for individual projects.

Compliance with applicable code requirements and the recommendations of site-specific geotechnical evaluations will reduce cumulative impacts relating to geologic processes to a less than significant level. No cumulative geologic processes impacts will occur, and no Project-incorporated avoidance or minimization measures are required to address cumulative impacts.

## **5.7 CULTURAL RESOURCES**

According to the California Environmental Quality Act, cultural resources include historic properties (standing buildings or structures), historical and prehistoric archaeological sites, paleontological resources, and human remains inside or out of designated cemeteries. Grading and ground disturbing activities can significantly impact these non-renewable resources. Without mitigation, these resources may be destroyed through construction and urban expansion resulting in cumulative loss of cultural resources over time. However, applicable State and County laws and regulations, as discussed in Section 4.6 above, offer guidance for managing cultural resources, provide for preservation of significant natural and cultural resources, and direct mitigation through data recovery where avoidance is not possible.

Project redesigns to avoid impacts to cultural resources are always the preferred course of action during Project planning (Garcia and Associates, 2014). As discussed within Section 4.6.1.2 (Site-Specific Setting), and in accordance with County of Santa Barbara Thresholds and Mitigations Guidelines Manual Section 8 (2008), appropriate Phase I and Extended Phase I Cultural and Archaeological Surveys were conducted by Garcia and Associates on behalf of the Project. This included the Project site as well as the proposed natural gas important pipeline and

the electrical power transmission service routes. Based on recommendations provided within these analyses, Project-incorporated avoidance and minimization measures have been included within the Project design to protect or avoid cultural resources at the Project site. The Project has been found not to exceed the threshold of significance for cultural resources. Therefore, the project's contribution to the degradation of regionally significant cultural resources is not considerable, and its cumulative impacts to cultural resources will be less than significant.

## **5.8 FIRE PROTECTION**

Projects within the vicinity of the Project site that would draw on the same emergency response resources have the potential to result in a cumulative impact to fire protection resources. As discussed within Section 4.7 (Fire), the Project site is located within a high fire hazard area. Construction and operation of the Project, in conjunction with other planned and pending projects identified in Section 5.1, will result in an incremental increase in the creation of temporary and permanent potential fire hazards that may necessitate emergency response from the Santa Barbara County Fire Department. However, existing Fire Stations in Orcutt, Santa Maria, Sisquoc, and Los Alamos will be sufficient to provide fire protection services in the Project vicinity. Additionally, Project-incorporated avoidance and minimization measure FIRE-1 has been based upon a Master Fire Protection Plan (Collings, 2014) that is intended to reduce the potential for fire-related hazards and meet or exceed all of the County of Santa Barbara Fire Department Standards. Therefore, the Project will not have a Project-specific or cumulatively considerable effect on fire safety within the County.

## **5.9 NOISE AND VIBRATION**

The County of Santa Barbara does not include cumulative thresholds of significance for cumulative noise impacts within its Thresholds and Guidelines Manual (County of Santa Barbara, 2008). However, as discussed within the County Guidelines for the Implementation of the California Environmental Quality Act of 1970 (Santa Barbara County, 2010), unless otherwise specified, a project's potential contribution to cumulative impacts should be assessed utilizing the same significance criteria as those for project specific impacts.

Based on how noise propagates, an approximately six decibel drop occurs with a doubling of the distance from the source. Therefore, potential noise impacts would require the analysis of any projects occurring within 1,600 feet of sensitive receivers or project construction areas. Simultaneous construction or operational noise activities on parcels located within 1,600 feet of sensitive receivers would be cumulatively considerable.

Within the Noise and Vibration Impact Analysis Report (2014) (Appendix N), Behrens and Associates modeled potential cumulative noise impacts at the Project site. Based on discussions with the County and other relevant agencies, a cumulative project list compiled in February 2014 identified four future projects within proximity to the Project site that could potentially cause a cumulative noise impact if combined with the noise impacts described in the study. These included the following:

Project Site	Location	Proposed Activity	Permit Status
ERG Resources, LLC - Pre-Application	North section of the Project property	20 wells	Proposed
ERG Resources Fulgar Lease	Southwest of the Project property	20 wells	Proposed
ERG Resources Gwinn Fee Lease	Southwest of the Project property	4 wells	In Process
ERG Resources Los Alamos Fee	South/southwest of the Project property	No information available	In Process

Cumulative noise impacts are expected to be less than significant due to the following:

- Each project will be required to incorporate mitigation measures to meet County noise thresholds;
- Due to the staggered timelines for each project, there is a low likelihood that Project operations will occur on adjacent/nearby well pads simultaneously; and
- In some instances, steep topography will prevent noise from adjacent projects from creating a cumulative effect at the noise sensitive receivers considered for the Project.

Additionally, Project-incorporated avoidance and minimization measures provided to reduce Project-specific impacts including NOISE-1 through NOISE-6 will reduce potential impacts to less than significant. Therefore, based on Project timing, topographical constraints, and Project design in accordance with County requirements, implementation of the Project will not exceed noise thresholds and the Project will not contribute in a cumulatively considerable manner to noise impacts.

## 5.10 TRANSPORTATION/CIRCULATION

### 5.10.1 Roadway Operations

The Project will result in an increased usage of local roadways of up to approximately 532 total average daily trips during the peak years of Project operations. This increase in roadway usage will not increase the existing overall level of service of the Project area roadways. Table 5.10-1 – Cumulative Plus Project a.m. Peak Hour Intersection Operations compares the Cumulative and Cumulative plus Project roadway operations and identifies cumulative impacts based on Santa Barbara County's level of service C standard. The Project will not result in a cumulative impact to roadway operations within the Project area.

### 5.10.2 Intersection Operations

The Project will result in an increase of approximately 0.2 seconds during a.m. peak hour operations (Table 5.10-2 – Cumulative Plus Project a.m. Peak Hour Intersection Operations) at local intersections. In addition, the Project will result in an increase of less than one second during p.m. peak hour operations (Table 5.10-3 – Cumulative plus Project p.m. Peak Hour Intersection Operations) at local intersections. This increase in intersection usage will not result in a change in the overall level of service of the Project area roads (level of service A and level of service B). Based on the County's level of service C standard, the Project will not result in a cumulative impact to intersection operations within the Project area.

**Table 5.10-1. Cumulative Plus Project Roadway Operations**

Roadway Segment	Options Utilizing This Roadway Segment	Project Added Trips	Average Daily Traffic Volume / Level of Service (LOS)		Is the increase a significant impact based on SBC Thresholds?
			Cumulative	Cumulative Plus Project-Generated Trips	
Clark Avenue east of U.S. Highway 101	Option 1	532	5,700 / LOS A	6,232 / LOS A	No
	Option 2	333		6,033/ LOS A	
	Option 3	333		6,033/ LOS A	
Clark Avenue east of Telephone Road	Option 1	532	3,300 / LOS A	3,832 / LOS A	No
	Option 2	532		3,832 / LOS A	
	Option 3	333		3,633 / LOS A	
Dominion Road south of Clark Avenue	Option 1	532	1,200 / LOS A	1,732 / LOS A	No
	Option 2	532		1,732 / LOS A	
	Option 3	532		1,732 / LOS A	
Cat Canyon Road south of Palmer Road	Option 1	532	950 / LOS A	1,482 / LOS A	No
	Option 2	532		1,482 / LOS A	
	Option 3	532		1,482 / LOS A	
Betteravia Road east of U.S. Highway 101	Option 2	199	11,300 / LOS A	11,499 / LOS A	No
	Option 3	199		11,499 / LOS A	
Telephone Road north of Clark Avenue	Option 2	199	1,550 / LOS A	1,749 / LOS A	No
Betteravia east of Telephone Road	Option 3	199	4,100 / LOS A	4,299 / LOS A	No
Dominion Road north of Clark Avenue	Option 3	199	1,050 / LOS A	1,249 / LOS A	No

**Table 5.10-2. Cumulative Plus Project a.m. Peak Hour Intersection Operations**

Intersection	Options Utilizing This Intersection	Cumulative		Cumulative Plus Project		Is the increase a significant impact based on SBC Thresholds?
		Intersection Capacity Utilization Method or Delay	Level of Service	Intersection Capacity Utilization Method or Delay	Level of Service	
U.S. Highway 101 southbound Ramps/Clark Avenue	Option 1	10.7 sec.	LOS B	10.9 sec.	LOS B	No
	Option 2			10.7 sec.	LOS B	
	Option 3			10.7 sec.	LOS B	
U.S. Highway 101 northbound Ramps/Clark Avenue	Option 1	9.0 sec.	LOS A	9.0 sec.	LOS A	No
	Option 2			9.0 sec.	LOS A	
	Option 3			9.0 sec.	LOS A	
Telephone Road/Clark Avenue	Option 1	9.1 sec.	LOS A	9.1 sec.	LOS A	No
	Option 2			9.2 sec.	LOS A	
	Option 3			9.3 sec.	LOS A	
Dominion Road/Clark Avenue	Option 1	8.6 sec.	LOS A	8.5 sec.	LOS A	No
	Option 2			8.5 sec.	LOS A	
	Option 3			8.6 sec.	LOS A	
Palmer Road/Cat Canyon Road	Option 1	8.5 sec.	LOS A	8.6 sec.	LOS A	No
	Option 2			8.5 sec.	LOS A	
	Option 3			8.5 sec.	LOS A	
U.S. Highway 101 southbound Ramps/Betteravia Road	Option 2	0.49 sec	LOS A	0.49 sec	LOS A	No
	Option 3			0.49 sec	LOS A	
U.S. Highway 101 northbound Ramps/Betteravia Road	Option 2	0.37 sec	LOS A	0.37 sec	LOS A	No
	Option 3			0.37 sec	LOS A	
Telephone Road/Betteravia Road	Option 2	10.2 sec.	LOS B	10.3 sec.	LOS B	No
	Option 3			10.2 sec.	LOS B	
Dominion Road/Foxen Canyon	Option 3	9.5 sec.	LOS A	9.6 sec.	LOS A	No

**Table 5.10-3. Cumulative plus Project p.m. Peak Hour Intersection Operations**

Intersection	Options Utilizing This Intersection	Cumulative		Cumulative Plus Project		Is the increase a significant impact based on SBC Thresholds?
		Intersection Capacity Utilization Method or Delay	Level of Service	Intersection Capacity Utilization Method or Delay	Level of Service	
U.S. Highway 101 southbound Ramps/Clark Avenue	Option 1	10.3 sec.	LOS B	10.5 sec.	LOS B	No
	Option 2			10.4 sec.	LOS B	
	Option 3			10.4 sec.	LOS B	
U.S. Highway 101 northbound Ramps/Clark Avenue	Option 1	10.3 sec.	LOS B	10.5 sec.	LOS B	No
	Option 2			10.5 sec.	LOS B	
	Option 3			10.5 sec.	LOS B	
Telephone Road/Clark Avenue	Option 1	10.2 sec.	LOS B	11.1 sec.	LOS B	No
	Option 2			10.5 sec.	LOS B	
	Option 3			11.0 sec.	LOS B	
Dominion Road/Clark Avenue	Option 1	8.3 sec.	LOS A	8.4 sec.	LOS A	No
	Option 2			8.4 sec.	LOS A	
	Option 3			8.4 sec.	LOS A	
Palmer Road/Cat Canyon Road	Option 1	8.8 sec.	LOS A	9.4 sec.	LOS A	No
	Option 2			9.4 sec.	LOS A	
	Option 3			9.4 sec.	LOS A	
U.S. Highway 101 southbound Ramps/Betteravia Road	Option 2	0.61 sec	LOS B	0.61 sec	LOS B	No
	Option 3			0.61 sec	LOS B	
U.S. Highway 101 northbound Ramps/Betteravia Road	Option 2	0.63 sec	LOS B	0.63 sec	LOS B	No
	Option 3			0.63 sec	LOS B	
Telephone Road/Betteravia Road	Option 2	19.6 sec.	LOS C	19.9 sec.	LOS C	No
	Option 3			19.9 sec.	LOS C	
Dominion Road/Foxen Canyon	Option 3	13.3 sec.	LOS B	13.4 sec.	LOS B	No

PAGE INTENTIONALLY BLANK

## 5.11 AESTHETICS/VISUAL RESOURCES

The County of Santa Barbara, Environmental Thresholds and Guidelines Manual (2008) generally states that a project may have the potential to create a significantly adverse aesthetic impact if it would impact important visual resources, obstruct public views, remove significant amounts of vegetation, substantially alter the natural character of the landscape, or involve extensive grading visible from public areas. The guidelines address public, not private, views.

The scope for analysis of the Project's contribution to cumulative aesthetics/visual resource impacts is the area surrounding the Project site; from Cat Canyon Road (to the west and south), Palmer Road (to the north) and to Foxen Canyon Road (to the east). The Project site itself is within an area designated as "moderate" scenic value and is not located within a Scenic Values Study Area, as designated by the Open Space Element of the County of Santa Barbara Comprehensive Plan (May 2009). Properties adjacent to the Project site are presently used for oil production, grazing operations and other agricultural production and much of the area has been previously disturbed.

Approved and pending projects within this geographic area, and discussed within Section 5.2.1, include other oil development, primarily those at the ERG Resources LLC leases (Fuglar, Gwinn Fee, and Los Alamos Leases). These development projects, including drilling of oil wells and associated infrastructure, could be cumulatively considerable to aesthetics due to introduction of short-term construction and longer-term operational impacts similar to that of the Project.

However, as with the Project, construction activities associated with other nearby development will be required to conform to existing visual and aesthetic resource regulation measures established by the County of Santa Barbara. For temporary visual and aesthetic impacts, this includes project-specific measures to ensure that grading, vegetation removal, and landform modifications are minimized to the extent feasible to reduce the impacts to the visual character to less than significant. In addition, any permanent structures and equipment will be painted and maintained with muted, natural colors in order to be consistent with natural landforms in the area.

Implementation of Project-specific avoidance and minimization measures including AEST-1 through AEST-3 will further reduce Project visual and aesthetic impacts by ensuring that temporary and permanent facilities associated with the Project remain consistent with the existing visual character of the area. Based on Project design in accordance with County requirements, the Project will not significantly contribute to visual or aesthetic impacts in the viewshed. No cumulative impacts will result.

PAGE LEFT INTENTIONALLY BLANK