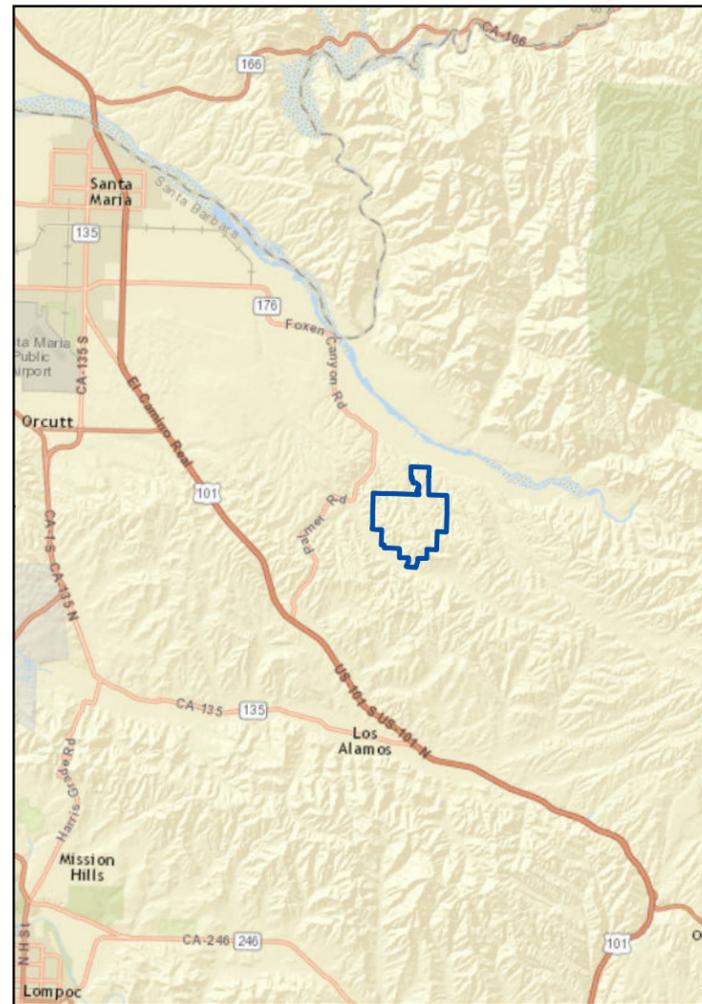


PROJECT LOCATION:

Aera Energy LLC Property Address:
6516 Cat Canyon Road

Aera Energy LLC Property APNs:
129-210-017, 101-050-042, 101-040-006, 101-040-005, 101-040-011,
101-040-012, 101-040-013, 101-040-019, 101-040-014, 101-050-013,
101-040-020, 101-050-014, 101-070-007

Aera Energy LLC Property Location:
The Aera Energy LLC Property is 2,108 acres of contiguous parcels located within the East Area of the State-designated Cat Canyon Oil Field, approximately 10 miles southeast of the City of Santa Maria and the community of Orcutt located in northern Santa Barbara County, California (5th Supervisorial District).



Aera Energy LLC Property

Source: DPSI 2013 Survey, ESRI Online Basemap
Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Notes: This map was created for informational and display purposes only.

PROJECT DESCRIPTION:

The East Cat Canyon Oil Field Redevelopment Project will re-establish oil production in an existing oil field by implementing a thermal enhanced oil recovery process that is technically, economically, and environmentally feasible. Project plans include construction and restoration of approximately 72 well pads, construction and restoration of over nine miles of field access roads, and drilling of up to 296 wells in two phases (Phase I and Phase II). Planned wells include oil/gas production wells, steam injection wells, observation wells, non-potable water production wells, water injection wells, and fresh groundwater wells.

New processing facilities and field systems will be constructed. Processing facilities will include: 1) a production group station for bulk separation of produced gas and liquids, 2) a central processing facility for oil cleaning, water cleaning, water softening, oil storage, and oil sales, and 3) a steam generation site (up to six once-through steam generators rated at 85 million British thermal units/hour each) for production of saturated steam to be used for thermal enhanced oil recovery. An additional 62.5 million British thermal units/hour steam generator will be used to generate steam from the project's produced gas. No fresh water will be used to generate steam; only non-potable water will be used.

Field systems will include: 1) a production gathering network, 2) a steam distribution network and 3) electrical power distribution and supervisory control and data acquisition (SCADA) networks. Project infrastructure will also include an office building, a multipurpose building, a warehouse and maintenance building, and a facility control building. A fresh water system with a 3,000 barrel tank and water distribution pipelines is planned for drinking water and ancillary purposes, including fire protection, lavatories, showers, equipment cleaning, dust control, and minor landscape irrigation.

Utility connections for the Project include a 14-mile, 8-inch natural gas pipeline and associated facilities, capable of providing 13 million standard cubic feet per day of natural gas to the Project at a delivery pressure of 300 pounds per square inch gage. The new pipeline will originate at the existing Southern California Gas Company Line Divide Station, located along Graciosa Road, and will terminate at Aera's proposed central processing facility. Project electrical power will be provided by transmission-level service from Pacific Gas and Electric Company's Santa Ynez – Sisquoc 115 kilovolt Line to a new Aera-owned substation located at the central processing facility.

LIST OF MAPS:

Map Name	Map Size	Map Orientation	Map Scale	SB County Map Requirements Section
Project Overview	24" x 36"	Landscape	1" = 2,000'	n/a
Project Site Topography	24" x 36"	Portrait	1" = 500'	I. General
Project Site Grading Plan	24" x 36"	Portrait	1" = 500'	II. Grading
Project Site Access	24" x 36"	Portrait	1" = 500'	III. Access
Project Site Development-Overview	24" x 36"	Portrait	1" = 500'	IV. Development and Use VI. Public/Private Services
Project Site Development-Detailed View of Facilities	24" x 36"	Portrait	1" = 150'	IV. Development and Use VI. Public/Private Services
Project Site Information	24" x 36"	Portrait	1" = 500'	V. Site Information

GENERAL MAP NOTES:

All maps were created using GIS software to manage and depict data from multiple sources. Data sources include, but are not limited to TJ Cross Grading Plans and Design, Spec Services Surveys, DPSI Surveys, TetraTech Site Assessment Report, RRM Architects building and landscape design, Fugro Consultants geologic hazards report, FEMA flood plain GIS data, USGS Topographic Maps, and Santa Barbara County parcel, road centerline and stream channel GIS data.

Maps were prepared using the County of Santa Barbara County Planning and Development Department Site Plan/Topographic Map Requirements (Map Requirements; April 10, 2014) as a guide. Efforts were made to meet all criteria listed in the Map Requirements, however due to the scale and technical complexities of the Project, individual maps were made for each of the sections listed in the Map Requirements, as indicated in the above table.

Overview Map:

The Project Overview map depicts the Aera Energy LLC property, Project footprint and features including the proposed natural gas import pipeline route and proposed electric service line. Although this map is not listed within the Map Requirements, it was created to give an overview of the entire Project as well as context within the region.

Project Site Topography Map:

Per Section I of the Map Requirements, the Project Site Topography Map shows existing topography on the majority of the Aera Energy LLC Property at a 50-foot elevation contour interval from a topography land survey conducted by Spec Services in 2011. The data collected in the Spec Services survey was also used to create a slope model. The areas with slopes above 20 percent grade are depicted on the map. The map also depicts the USGS 7.5 Minute Topographic Quadrangle to give context for the topography in areas outside of the 2011 survey data depicted.

Project Site Grading Plan Map:

Per Section II of the Map Requirements, the Project Site Grading Plan Map provides the following information.

- Areas of proposed grading (Project limits of disturbance).
- Revised contour lines.
- Estimated cut and fill volumes.
- Proposed drainage features.

Project Site Access Map:

Per Section III of the Map Requirements, the Project Site Access Map depicts the following:

- Location, name, and width of all existing and proposed roads, streets, and access driveways within the parcel.
- Location, name, and width of all existing roads, streets, alleys and street intersections along the boundaries of the proposed land division. Approximate width and location of proposed streets and their connector roads and other major highways on surrounding property.
- Location, width, nature and status of all existing and proposed easements, reservations and rights-of-way, whether or not on record, to which the subject property is, or will be subject to.
- Statement regarding proximity to existing community services.

The Project does not include new proposed public roads, recreational areas, or trails, therefore these features are not depicted on the map.

Project Site Development Plan Map and Detailed View of Facilities Map:

Per Section IV of the Map Requirements, the Site Development Plan Map and the Detailed View of Facilities Map depict the following:

- Proposed and existing structures (e.g., offices, facilities, equipment, drainage basins, and other infrastructure).
- Building/equipment heights and square footage.
- Proposed buildings, equipment, proposed wells, proposed freshwater source wells, proposed basins, proposed utility poles and lines, proposed grading and pads, proposed roads, proposed parking areas, proposed landscaping, and proposed pipelines
- Buildings and structures within 50 feet of the property, and their use.
- Existing or proposed fences or walls. Note- Fencing/gates near entrance locations are depicted on the map. Additional existing fencing is located along portions of the property boundary and grazing lease boundaries; due to scale, this fencing is not depicted on maps.
- Development envelopes (referred to on the map as "Proposed Phase I Development and Proposed Phase II Development")
- Location and number of parking spaces.
- Existing disturbed area (as a percent of total net land area).
- Impervious Surfaces as a percent of total net land area.
- Phases of development

Some of the Section IV Map Requirements were not applicable to the Project, such as the number and type of dwellings units in each building and the location and description of proposed recreational facilities, therefore these features are not depicted on the map.

Project Site Information Map:

Per Section V of the Map Requirements, the Project Site Information Map depicts the following:

- Vegetation communities.
- Oak trees with diameter at breast height of 8 inches or more located within the Project footprint.
- Existing grazing leases.
- Federal Emergency Management Agency mapped 100 year flood plain
- Existing stream channels
- Inferred faults and potential geologic hazards.

Proposed limits of disturbance including proposed storm water basins and drainage infrastructure are also depicted as an overlay. This map depicts vegetation for the entire project site, not just the areas nearest proposed disturbance as called out in the Map Requirements. Results from archeological studies are also omitted from this map due to the sensitive and confidential nature of the sites.

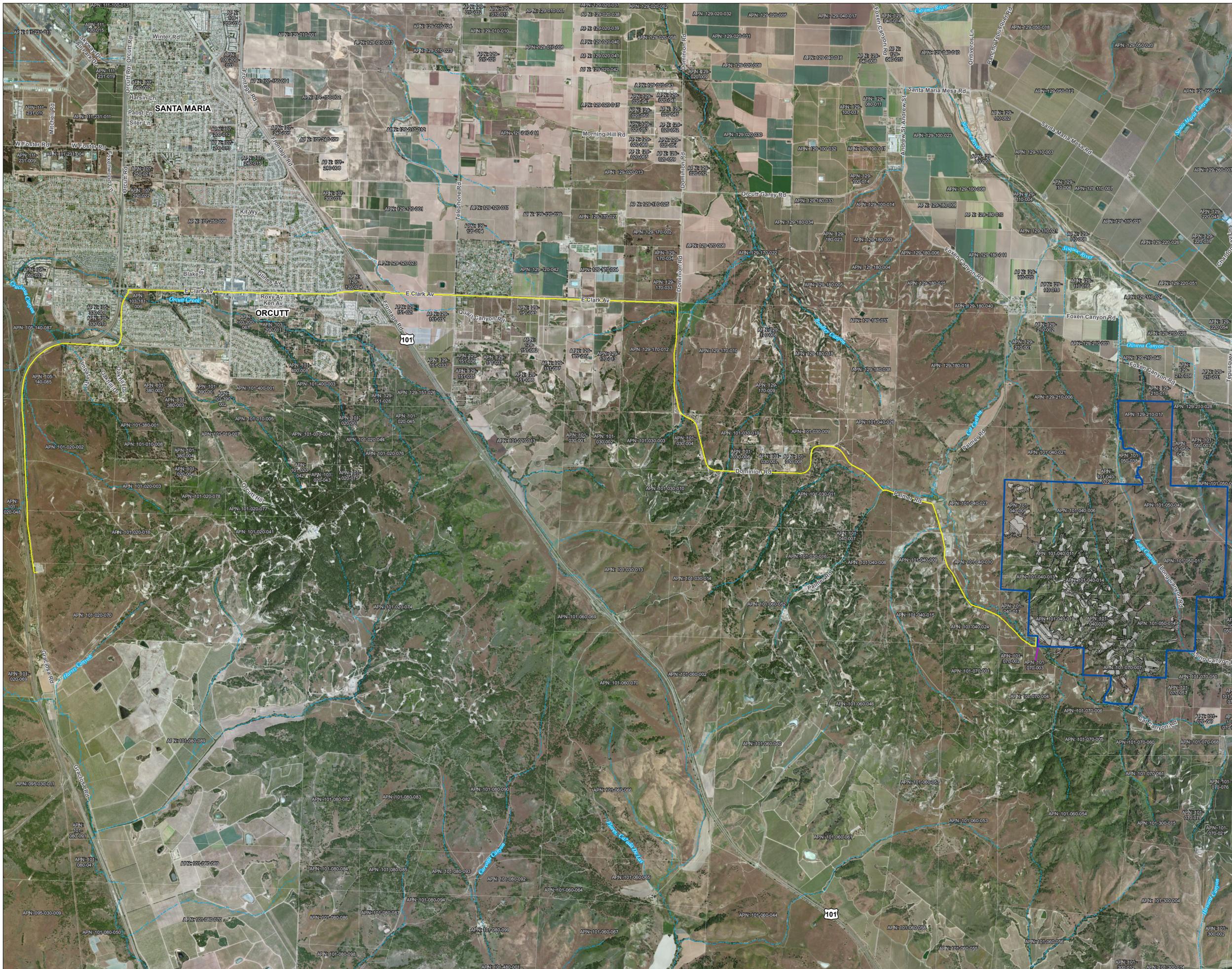
PROJECT NAME: EAST CAT CANYON OIL FIELD REDEVELOPMENT PROJECT	
PROJECT NUMBER: 1002-0455	DATE: March 2016

MAP TITLE SHEET

OVERVIEW MAP

EAST CAT CANYON OIL FIELD REDEVELOPMENT PROJECT

SANTA BARBARA COUNTY, CA



LEGEND:

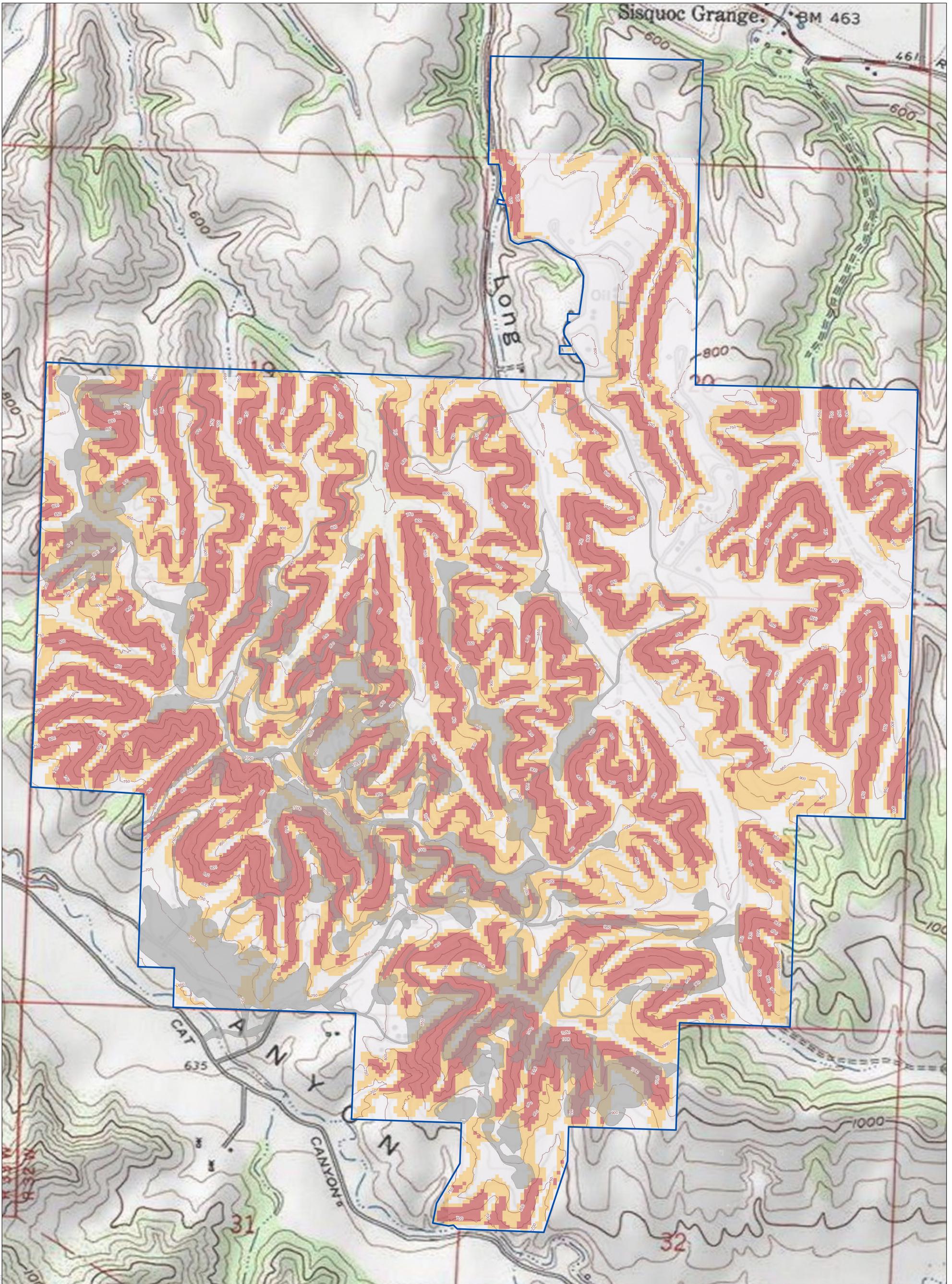
- Aera Energy LLC Property
- Proposed Project Site Development
- Proposed 115kV Service Line
- Proposed Natural Gas Import Pipeline Route
- Existing Stream Channel
- County Parcel Boundary



DECEMBER 2014



Source: Spec Services, DPSI Survey, TJCross Engineers, County of Santa Barbara, ESRI Online Basemap, US Census TIGER Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
Notes: This map was created for informational and display purposes only



- LEGEND:**
- Aera Energy LLC Property
 - Proposed Limits of Disturbance
 - Existing 50-Foot Interval Elevation Contour
 - Existing Area of Slope >30%
 - Existing Area of Slope 20-30%

Source: USGS 7.5 Minute Topo Quad, DPSI 2013 Survey, Spec Services 2011 Survey, T.J. Cross 8/20/14
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.

EAST CAT CANYON OIL FIELD REDEVELOPMENT PROJECT

DECEMBER 2014

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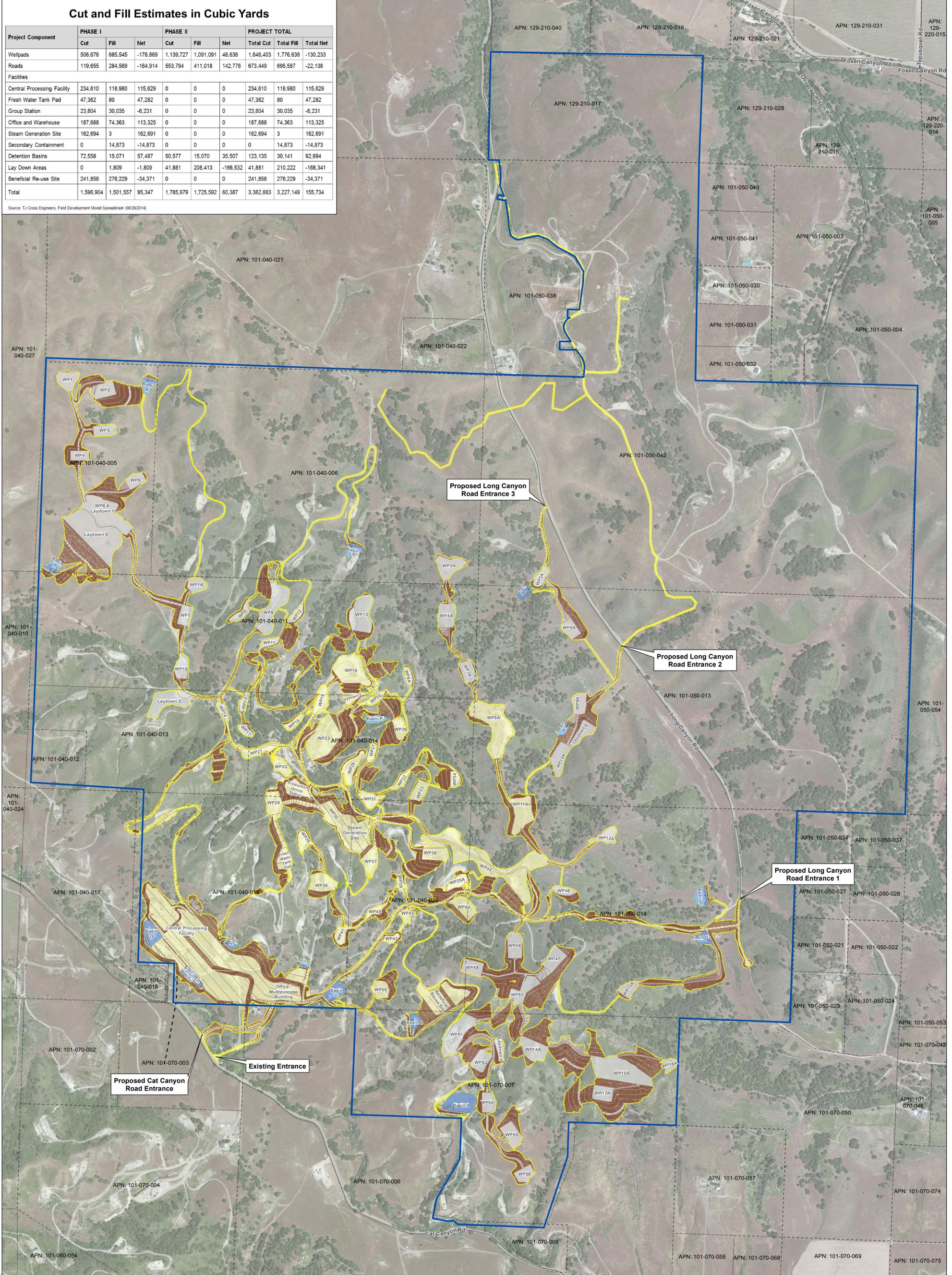
PROJECT SITE TOPOGRAPHY



Cut and Fill Estimates in Cubic Yards

Project Component	PHASE I			PHASE II			PROJECT TOTAL		
	Cut	Fill	Net	Cut	Fill	Net	Total Cut	Total Fill	Total Net
Wellpads	506,676	685,545	-178,869	1,139,727	1,091,091	48,636	1,646,403	1,776,636	-130,233
Roads	119,655	284,569	-164,914	553,794	411,018	142,776	673,449	695,587	-22,138
Facilities									
Central Processing Facility	234,610	118,980	115,629	0	0	0	234,610	118,980	115,629
Fresh Water Tank Pad	47,362	80	47,282	0	0	0	47,362	80	47,282
Group Station	23,804	30,035	-6,231	0	0	0	23,804	30,035	-6,231
Office and Warehouse	187,688	74,363	113,325	0	0	0	187,688	74,363	113,325
Steam Generation Site	162,694	3	162,691	0	0	0	162,694	3	162,691
Secondary Containment	0	14,873	-14,873	0	0	0	0	14,873	-14,873
Detention Basins	72,558	15,071	57,487	50,577	15,070	35,507	123,135	30,141	92,994
Lay Down Areas	0	1,809	-1,809	41,881	208,413	-166,532	41,881	210,222	-168,341
Beneficial Re-use Site	241,858	276,229	-34,371	0	0	0	241,858	276,229	-34,371
Total	1,596,904	1,501,557	95,347	1,785,979	1,725,592	60,387	3,382,883	3,227,149	155,734

Source: TJCross Engineers, Field Development Model Spreadsheet (08/26/2014)



- LEGEND:**
- Aera Energy LLC Property
 - County Parcel Boundary
 - Proposed Storm Water Basin
 - Proposed Drainage Infrastructure
 - Proposed Limits of Disturbance
 - Proposed Phase I Development
 - Proposed Phase II Development
 - Proposed 2-Foot Topographic Elevation Contour
 - Proposed Natural Gas Import Pipeline Route
 - Proposed 115kV Service Line
 - Existing County Road

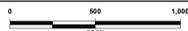
Source: ESRI Online Imagery Basemap (5/2010; 1ft resolution), TJCross Engineers 8/20/14, DPSI 2013 Survey
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: WP = Well Pad
 Discrepancies exist between data sourced from the County of Santa Barbara, such as land parcels and land use, and the Aera Energy LLC property boundary. This is due to the Aera Energy LLC property boundary and Aera Energy LLC lease boundaries having been surveyed and field verified by a registered land surveyor (DPSI, 2013) and the County sourced data being created at a desktop level as a cadastral fabric best fitted to cover the entire County area. This map was created for informational and display purposes only.

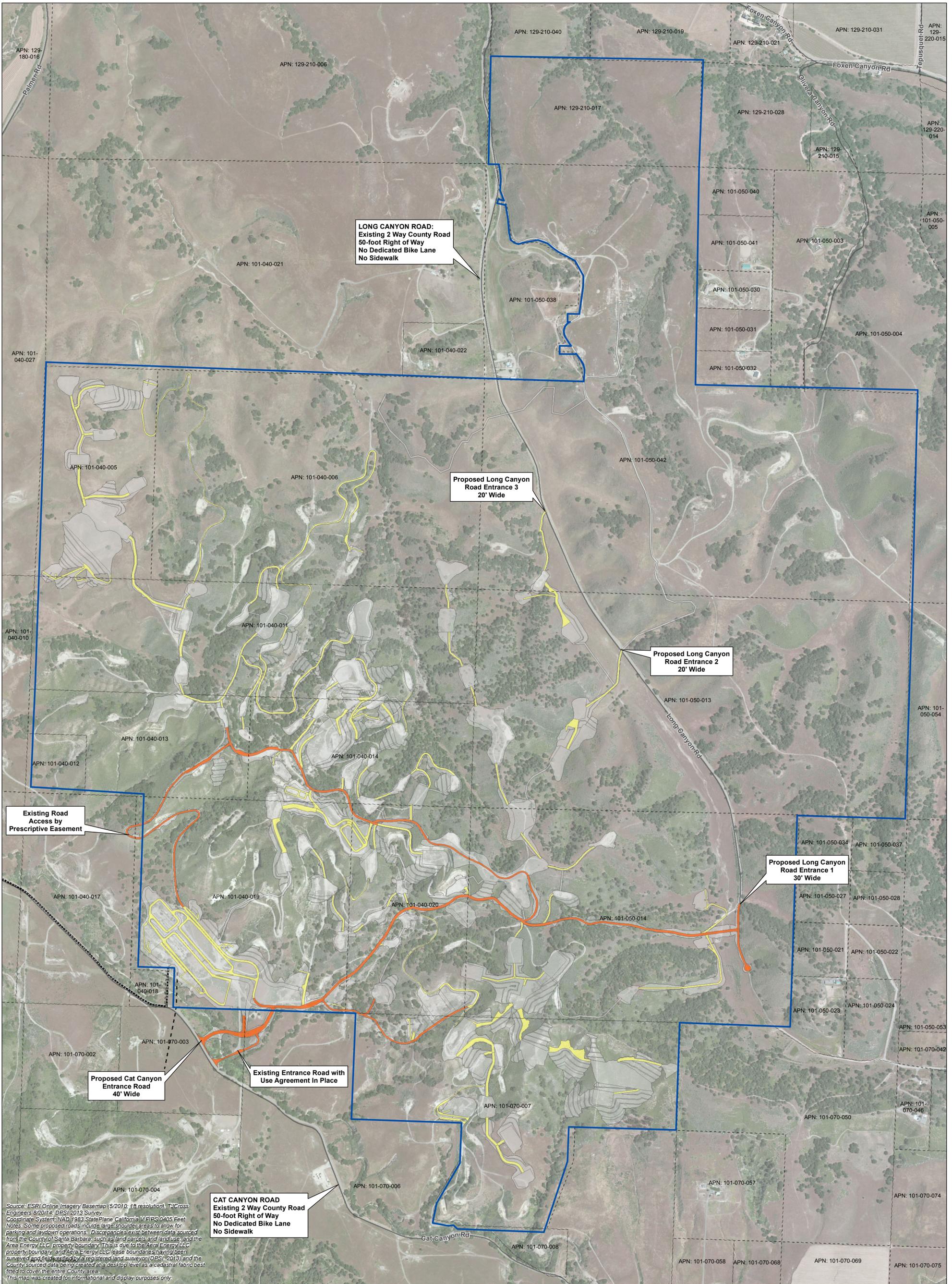


EAST CAT CANYON OIL FIELD REDEVELOPMENT PROJECT

PROJECT SITE GRADING PLAN

DECEMBER 2014





Source: ESRI Online Imagery Basemap (5/2010; 1ft resolution), TJCross Engineers 8/2014; DPSI 2013 Survey Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: Some proposed roads include large shoulder areas to allow for parking and laydown operations. Discrepancies exist between data sourced from the County of Santa Barbara, such as land parcels and land use, and the Aera Energy LLC property boundary. This is due to the Aera Energy LLC property boundary, and Aera Energy LLC lease boundaries having been surveyed and field verified by a registered land surveyor (DPSI, 2013) and the County sourced data being created at a desktop level as a cadastral fabric best fitted to cover the entire County area. This map was created for informational and display purposes only.

- LEGEND:**
- Aera Energy LLC Property
 - County Parcel Boundary
 - Proposed Phase I and II Development
 - Proposed Two-Way Primary Access Road*
 - Other Proposed Two-Way Access Road*
 - Proposed Natural Gas Import Pipeline Route
 - Proposed 115kV Service Line
 - Existing County Road

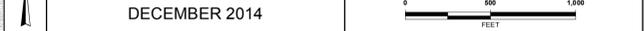
*Primary access roads will be graded 28-feet wide to accommodate a 24-foot paved access road. Primary access roads have been designed to maintain a maximum 15 percent grade and withstand a 20 ton vehicle, per Santa Barbara County Fire Department Development Standard #1. Where approved by the Santa Barbara County Fire Department, road grades may exceed 15 percent, and paving will consist of a concrete structural section. Refer to Civil Grading Plans for roadway details (TJ Cross Engineers, 2014).
 Approximately 43.7 percent of the total area proposed for access road grading is located within the existing onsite access road network and other previously-disturbed areas of the Project Site.

Nearest Community Services:
Fire Station: Santa Barbara County Fire Station 23 in Sisquoc ~1.5 miles from Project Site
Police Station: Santa Barbara County Sheriff's Office on Foster Rd in Santa Maria ~9.5 miles from Project Site
Bus Stop: Clark Ave at Oak Ridge Park in Orcutt ~7 miles from Project Site



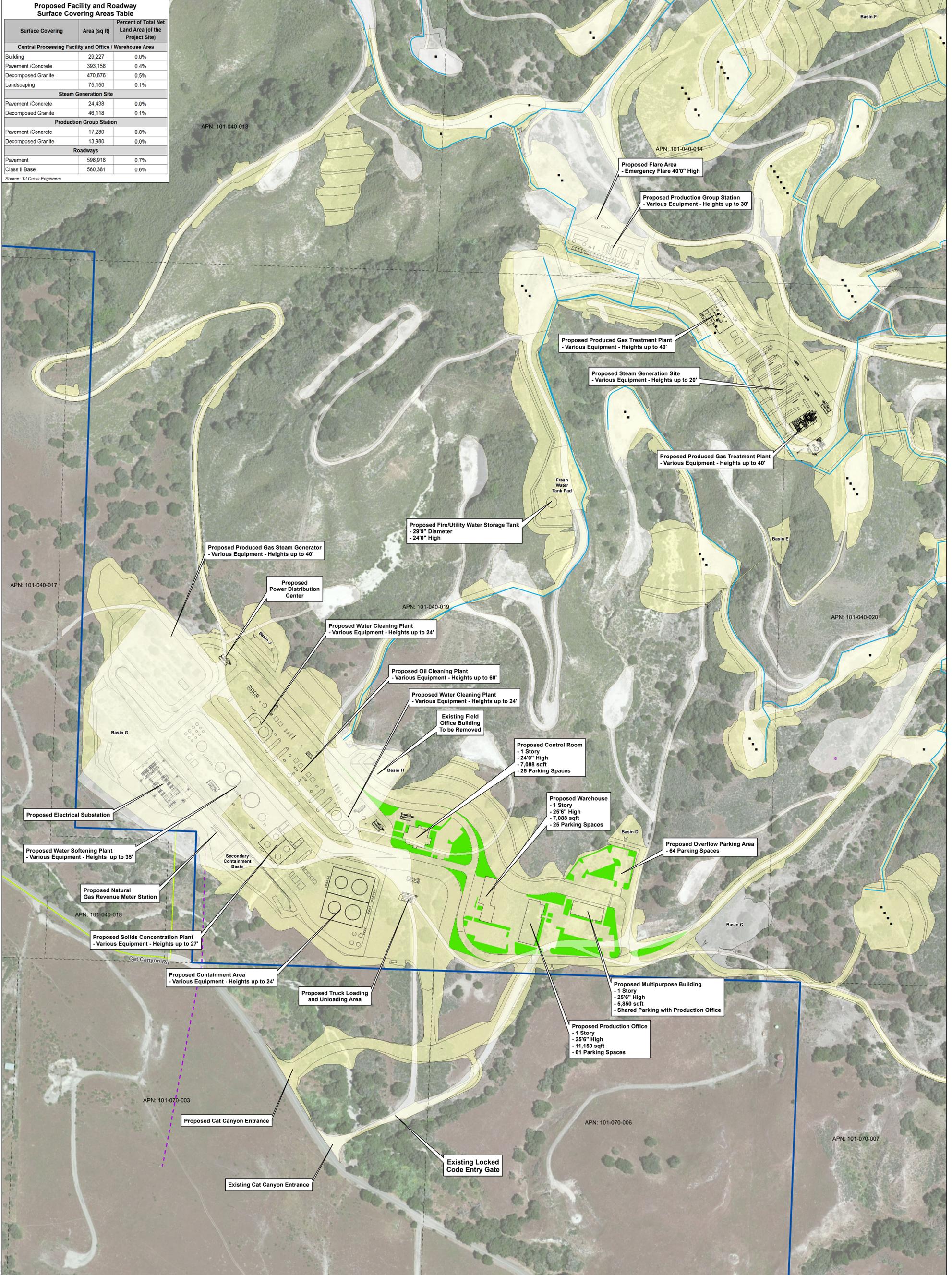
EAST CAT CANYON OIL FIELD REDEVELOPMENT PROJECT
 DECEMBER 2014

PROJECT SITE ACCESS



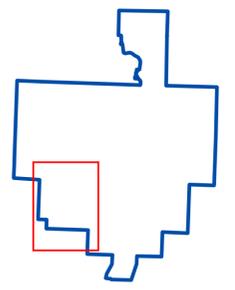
Proposed Facility and Roadway Surface Covering Areas Table		
Surface Covering	Area (sq ft)	Percent of Total Net Land Area (of the Project Site)
Central Processing Facility and Office / Warehouse Area		
Building	29,227	0.0%
Pavement /Concrete	393,158	0.4%
Decomposed Granite	470,676	0.5%
Landscaping	75,150	0.1%
Steam Generation Site		
Pavement /Concrete	24,438	0.0%
Decomposed Granite	46,118	0.1%
Production Group Station		
Pavement /Concrete	17,280	0.0%
Decomposed Granite	13,980	0.0%
Roadways		
Pavement	598,918	0.7%
Class II Base	560,381	0.6%

Source: TJCross Engineers



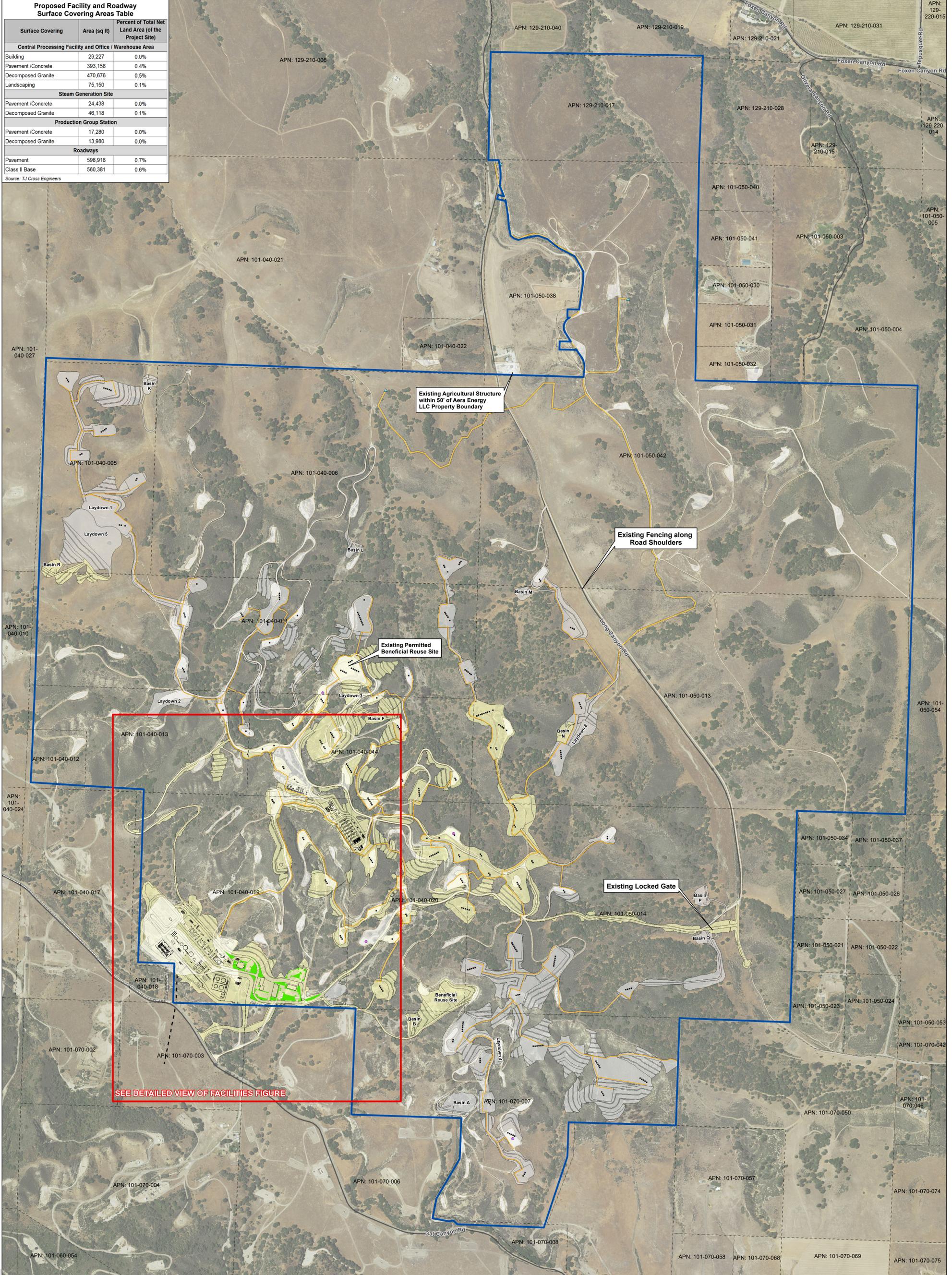
- LEGEND:**
- Aera Energy LLC Property
 - County Parcel Boundary
 - Existing Developed Area
 - Proposed Observation, Production, Sisuoc Production, Steam Injection, or Sisuoc Injection Well
 - Proposed Phase I Development
 - Proposed Phase II Development
 - Proposed Landscaping
 - Proposed In-Field Pipe Route
 - Proposed Natural Gas Import Pipeline Route
 - Proposed 115kV Service Line
 - Existing Test Well

Source: ESRI Online Imagery Basemap (5/2010: 1ft resolution), TJCross Engineers 8/20/14 and 3/4/2016, DPSI 2013 Survey, Santa Barbara County Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: Discrepancies exist between data sourced from the County of Santa Barbara, such as land parcels and land use, and the Aera Energy LLC property boundary. This is due to the Aera Energy LLC property boundary and Aera Energy LLC lease boundaries having been surveyed and field verified by a registered land surveyor (DPSI, 2013) and the County sourced data being created at a desktop level as a cadastral fabric best fitted to cover the entire County area.
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Proposed Facility and Roadway Surface Covering Areas Table		
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Landscaping	75,150	0.1%
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Decomposed Granite	46,118	0.1%
Production Group Station		
Pavement /Concrete	17,280	0.0%
Decomposed Granite	13,980	0.0%
Roadways		
Pavement	598,918	0.7%
Class II Base	560,381	0.6%

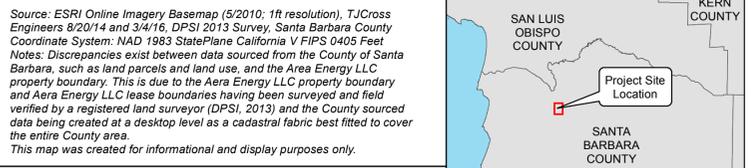
Source: TJCross Engineers



LEGEND:

- Aera Energy LLC Property
- County Parcel Boundary
- Existing Disturbed Area (as a percent of total net land area: 6%)
- Existing County Road
- Proposed Observation, Production, Sisquoc Production, Steam Injection, or Sisquoc Injection Well
- ▲ Existing Fresh Water Well
- Existing Test Well
- Proposed In-Field Pipe Route
- Proposed Landscaping
- Proposed Phase I Development
- Proposed Phase II Development
- Proposed Natural Gas Import Pipeline Route
- - - Proposed 115kV Service Line

Source: ESRI Online Imagery Basemap (5/2010; 1ft resolution), TJCross Engineers 8/20/14 and 3/4/16, DPSI 2013 Survey, Santa Barbara County Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: Discrepancies exist between data sourced from the County of Santa Barbara, such as land parcels and land use, and the Aera Energy LLC property boundary. This is due to the Aera Energy LLC property boundary and Aera Energy LLC lease boundaries having been surveyed and field verified by a registered land surveyor (DPSI, 2013) and the County sourced data being created at a desktop level as a cadastral fabric best fitted to cover the entire County area.
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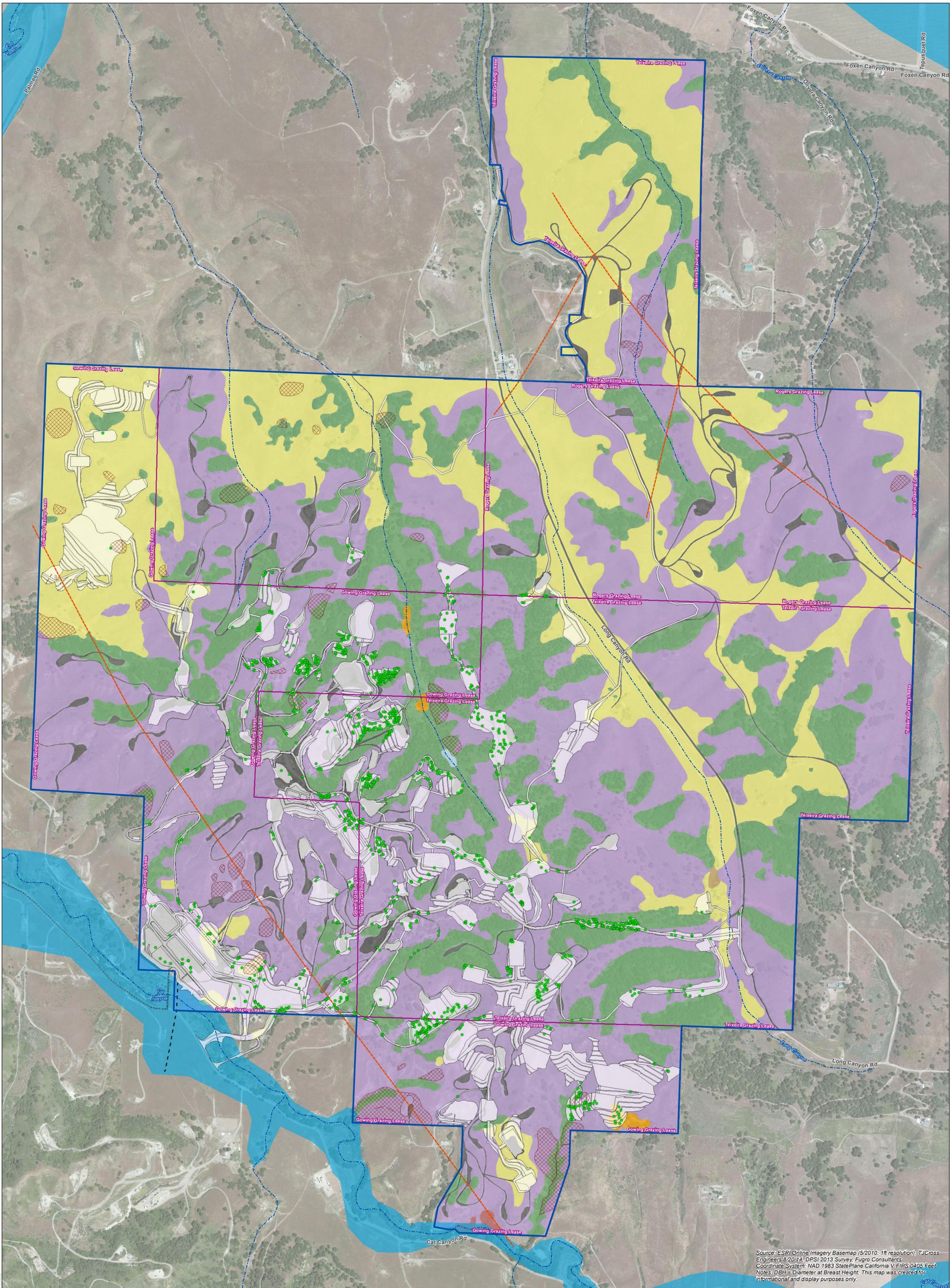


EAST CAT CANYON OIL FIELD REDEVELOPMENT PROJECT

MARCH 2016

0 500 1,000
FEET

PROJECT SITE DEVELOPMENT PLAN



Source: ESRI Online Imagery Basemap (8/2010; 1ft resolution); TJCross Engineers 8/2014; DPSI 2013 Survey; Fugro Consultants. Coordinate System: NAD 1983 StatePlane California V/FIPS 0405 Feet. Notes: DBH = Diameter at Breast Height. This map was created for informational and display purposes only.

LEGEND:

Aera Energy LLC Property	Existing Oak Tree (8-inch DBH or greater) within Project Footprint	Vegetation Community	California coffee berry scrub	Previously Disturbed/Developed	Proposed Natural Gas Import Pipeline Route
Existing Stream Channel	100 Year Flood Zones	Annual grasslands	Coast live oak woodland	Red willow thicket	Proposed 115kV Service Line
Concealed Fault (inferred)	Grazing Lease Boundary	California coastal scrub	Eucalyptus groves	Western rush marsh	Aera Energy LLC Project Footprint
Potential Geologic Hazard - Landslide Deposit					

California coffee berry scrub	Previously Disturbed/Developed	Proposed Natural Gas Import Pipeline Route
Annual grasslands	Red willow thicket	Proposed 115kV Service Line
Coast live oak woodland	Western rush marsh	Aera Energy LLC Project Footprint
California coastal scrub		
Eucalyptus groves		



EAST CAT CANYON OIL FIELD REDEVELOPMENT PROJECT

DECEMBER 2014

0 500 1,000 FEET

PROJECT SITE INFORMATION

KERN COUNTY
SAN LUIS OBISPO COUNTY
SANTA BARBARA COUNTY
Pacific Ocean