

Data Request Number: CEJA-SEU-001
Proceeding Name: A2205015_016 - SoCalGas and SDGE 2024 GRC
Proceeding Number: A2205015_016 2024 GRC
Date Received: 7/14/2022
Date Responded:7/28/2022

Preliminary Statement: Although the Data Request was directed to SoCalGas and SDG&E, the questions all appear to be directed specifically to SoCalGas. This Response therefor is provided only on behalf of SoCalGas.

QUESTION 1. Exh. SCG-06 at CHB-99:10-13 states that a main purpose of the Ventura Compressor Modernization project is to "continue providing safe and reliable compression to supply residential, business, industrial, and agricultural customers along SoCalGas's North Coastal System."

a. Please define the geographic boundaries of the North Coastal System.

SEU Response 1a:

The North Coastal System and Coastal System includes portions of Ventura County, Santa Barbara County and San Luis Obispo County. The geographic boundary is provided in the attached file named "CEJA-SEU-001_ATTACH-Q1a-Map" which includes Attachment A – "Map Showing Local Service Zones of Southern California Gas Company" of the prepared direct testimony of David M. Bisi filed June 26, 2015 as part of proceeding A.15-06-020 Curtailment Procedures.

David M. Bisi's testimony can be accessed here: socalgas.com/regulatory/documents/a-15-06-020/Ch%203%20Curtailment%20Testimony%20-%20Bisi.pdf

See pages 15, 18, 19, 22, 23 of the consolidated testimony.

b. Please provide SoCalGas' most recent gas demand forecast for the North Coastal System through 2040. Please separate the forecast by customer class (e.g., residential, core commercial & industrial, non-core commercial & industrial, enhanced oil recovery and electric generation).

SEU Response 1b:

SoCalGas develops gas demand forecasts for its service territory as a whole. SoCalGas does not have a gas demand forecast for the North Coastal System as a whole or by customer classes.

c. For the gas forecast provided in response to 1(b), please provide underlying workpapers and identify the extent to which the forecast accounts for all-electric new residential and commercial construction and fuel switching of existing gas appliances to electric alternatives.

SEU Response 1c:

Please refer to Response 1b above.

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QUESTION 2. SoCalGas response to Question 1 of Energy Division Data Request 3 Follow-Up Re: Ventura Compressor Station Dated June 21, 2021, provides historical demand by customer class for Santa Barbara and San Luis Obispo Counties from 2011 to 2020.

a. Please provide demand by customer class for Santa Barbara and San Luis Obispo Counties for 2021.

SEU Response 2a

This response contains Confidential and Protected Materials which are provided pursuant to GO 66-D, D.17-09-023, Gov. Code section 6254(k); Civil Code section 1798.80 et seq., and Pub. Util. Code section 8380(d).

Below are the 2021 historical demand by customer class for Santa Barbara and San Luis Obispo Counties in Mcf.

Year	Residential	Core C&I	Noncore C&I	EOR	EG	Total
2021	9,425,993	5,828,265	████████	████████	████████	23,145,123

Note: EOR (Enhanced Oil Recovery) includes EOR steaming and EOR Cogeneration

EG includes UEG (Utility electric generation), EWG (Exempt Wholesale Generator), and all other Cogeneration customers

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QUESTION 3. For each of the three 1,100 Horsepower (HP) gas compressors currently used at the Ventura Compressor station, please provide the date and duration of each planned and unplanned outage for 2018, 2019, 2020, 2021 as well as the total hours each year the unit was operating/providing compression services.

SEU Response 3:

As discussed in SoCalGas’s CPUC-Energy Division Data Request 6, Question 2 response submitted to the CPUC on May 6, 2022, the three existing compressors operate to maintain system integrity based on system conditions, which may warrant one, two, or all three compressors to run simultaneously. Historically, each compressor has run an average of 4,000 hours per year, however, operational needs now and in the future will dictate the frequency with which the compressors operate. Operating hours are only indicative of the amount of time a unit is operating but do not indicate overall system demand requirements. Demand varies on a daily basis and during peak demand, all units are essential to maintain system reliability. Table Q3a: Ventura Compressor Station Annual Run Hours provides detailed information about the station use.

Table Q3a: Ventura Compressor Station Annual Run Hours			
Year	Compressor 1	Compressor 2	Compressor 3
2018	4,461.1	3,822.9	3,853.7
2019	3,503.2	4,510.1	3,679.4
2020	3,168.1	3,954.3	3,856.4
2021	2,982.3	3,463.7	3,312.0

As noted in SoCalGas CPUC-Energy Division Data Request 2, Question 3 response submitted to the CPUC on May 24, 2021, SoCalGas interprets “maintenance events” as an event where operations needed to perform planned or unplanned maintenance activities on a specific compressor unit or any equipment related to a specific compressor unit that results or may result in a reduction in the station gas throughput. Annual maintenance events are shown in Table Q3b: Ventura Compressor Station Annual Maintenance Events.

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SEU Response 3:-Continued

Table Q3b: Ventura Compressor Station Annual Maintenance Events			
Year	Maintenance Events per Year	Dates of Event	Duration of Event (Days)
2018	10	11/5/2018	5
		9/12/2018	2
		7/8/2018	2
		6/18/2018	2
		1/30/2018	2
		1/29/2018	2
		1/23/2018	2
		1/18/2018	1
		1/5/2018	4
		12/28/2017*	8
2019	18	12/2/2019	19
		10/17/2019	1
		10/4/2019	1
		9/17/2019	2
		7/27/2019	4
		7/16/2019	5
		6/12/2019	12
		6/10/2019	1
		6/1/2019	2
		5/31/2019	2
		5/29/2019	0.5
		5/21/2019	9
		5/13/2019	12
		4/11/2019	2
		3/6/2019	18
		3/5/2019	2
		2/26/2019	8
		1/24/2019	1

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Table Q3b: Ventura Compressor Station Annual Maintenance Events			
Year	Maintenance Events per Year	Dates of Event	Duration of Event (Days)
2020	12	11/23/2020	2
		11/12/2020	2
		11/9/2020	4
		9/14/2020	4
		7/20/2020	6
		7/13/2020	0
		6/1/2020	19
		5/20/2021	3
		5/12/2020	3
		4/15/2020	3
		2/18/2020	22
		1/14/2020	2
		1/6/2020	4
2021	7	8/12/2021	1
		6/21/2021	5
		6/14/2021	5
		6/1/2021	5
		5/20/2021	3
		4/1/2021	2
		2/3/2021	31
Notes: *Event began 12/28/2017 and lasted 8 days, which extended into 2018.			

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QUESTION 4. Please identify all Public Safety Power Shutoffs (PSPS) that resulted in a loss of electric service at the Ventura Compressor station from 2017 to the present and the duration of each loss of electric service.

SEU Response 4:

SoCalGas is required to provide firm natural gas service, including to core customers (primarily residences and small businesses). As such, consideration of potential power loss due to Public Safety Power Shutoffs (PSPS) events, or any other power loss, is essential to avoid disruption of service. The Ventura Compressor Station is the main feed to more than a quarter-million people on the Central Coast.

Based on available station data, SoCalGas has observed a loss in electric service as follows:

January 19, 2021: 13.2 hours

December 6, 2017: 4 hours

December 5, 2017: 5.1 hours¹

¹ SoCalGas experienced a power loss on December 5, 2017 and December 6, 2017, which occurred during the Thomas Fire. Resolution ESRB-8 was adopted on July 12, 2018, and established standards for reasonableness, notification, mitigation, and reporting by investor owned utilities other than San Diego Gas & Electric. Since specific reporting for PSPS events was not available at the time, SoCalGas infers that the loss of power was due to a PSPS, however, note that the power loss also could have been caused by the destruction of a power line.

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QUESTION 5. Exh. SCG-06 at CHB-B-5 estimates total cost of the Ventura Compressor Modernization Project at \$233.805 million. SoCalGas' March 2022 Feasibility Study of Potential Alternatives for the Ventura Compressor Station Modernization Project ("Feasibility Study"), available at <https://www.socalgas.com/stay-safe/pipeline-and-storage-safety/ventura>, identifies the nonrecurring cost of Alternative 1.B as \$454 million.

a. Is Alternative 1.B in the Feasibility Report the alternative of the Ventura Compressor station project SoCalGas is proposing in its 2022 GRC Application? If yes, please explain the difference in estimated costs for the project between the GRC and the Feasibility Study.

SEU Response 5a:

Alternative 1B of the Feasibility Study is reflected in SoCalGas's current GRC application² (TY 2024). However, given the timing of the GRC filing, the cost estimate provided in the May 2022 GRC application was based on the previous all-gas fueled compressor configuration and incorporated the refinements to the all-gas configuration scope, schedule, and cost, originally presented in SoCalGas's 2016 and 2019 GRC applications.

See also SoCalGas's CPUC-Energy Division Data Request 4, Question 7 response submitted to the CPUC on July 7, 2021 for additional detail on the development of the project.

b. Please provide all workpapers and analyses SoCalGas used in estimating costs of the Ventura Station Alternatives identified in the Feasibility Study.

SEU Response 5b:

Please refer to Appendices B, C and D in the Feasibility Study. Additionally, Class 5 cost estimates for each of the five alternative site locations, including the current site, are provided separately in the Attachments listed below:

- CEJA-SEU-001_ATTACH-Q5b-Appendix C
- CEJA-SEU-001_ATTACH-Q5b- Avocado
- CEJA-SEU-001_ATTACH-Q5b- County Line
- CEJA-SEU-001_ATTACH-Q5b- Devils Canyon
- CEJA-SEU-001_ATTACH-Q5b- Existing Site

² SoCalGas notes in our June 21, 2022 letter to the CPUC Executive Director: "SoCalGas will move forward with planning, engineering, procurement, permitting, and construction of the preferred project alternative. In addition, the Ventura Compressor Modernization Project scope and preferred project alternative is presented in our Test Year 2024 General Rate Case which was filed with the CPUC in May 2022."

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SEU Response 5b:-Continued

CEJA-SEU-001_ATTACH-Q5b- Steel

SoCalGas's data responses are accessible at the CPUC website here: https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/energy-division/documents/natural-gas/ventura-compressor-station/ventura-compressor-station-data-requests_new.zip?sc_lang=en&hash=2F2C5DD1A9182BB94C1DB49BAC19B104

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QUESTION 6. Exh. SCG-06 at CHB-B-7 states that the "scope of the VCM Project also includes the installation of supporting compressor station auxiliaries and a new natural gas fueled emergency back-up electric generator."

a. What are "supporting compressor station auxiliaries"?

SEU Response 6a:

The supporting compressor station auxiliaries include items such as air compressor(s), safety systems, security systems, air-cooled heat exchangers, filter separators, fuel gas systems, control systems, electrical switchgear, valves, pumps, lighting, communications, and emissions control equipment.

b. Is the purpose of the natural gas fueled emergency back-up electric generator to provide power to the electric compressors in the event of a PSPS event or other power outage? If no, please state the purpose of the natural gas fueled emergency back-up electric generator.

SEU Response 6b:

No. The generator will be sized to provide electric power to run the two natural gas fueled engine driven compressors and their auxiliary equipment, and other facilities, such as the main office, in the event of a planned or unplanned power outage. The generator will not be sized to provide power to the electric motor driven compressors other than to safely shut them down in the event of a power outage.

c. What is the estimated cost of including the natural gas fueled emergency back-up electric generator as part of the project?

SEU Response 6c:

The Rough Order-of-Magnitude (ROM) installed cost for the engineering, procurement, construction, and management for the installation of the backup generator is \$10.5M. This accounts for equipment, installation of equipment, foundations, piping to header, electrical to junction box, and bulk materials installed within the inside battery limit of the emergency generator itself.

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QUESTION 7. Please list all other compressor stations on SoCalGas' system. For each compressor station, please indicate:

- a. The total number of compressors, the HP of each compressor, and whether the compressor is gas or electric.
- b. Whether the compressor station includes a natural gas fueled emergency back-up electric generator and if so, its total HP.

SEU Response 7a and 7b:

SoCalGas operates nine compressor stations³ located along transmission pipelines, including the Ventura Compressor Station, to provide the pressurization needed to move the gas through the pipelines.⁴ Table Q7ab: SoCalGas Compressor Stations, provides the compressor station information requested in 7a and 7b.

Table Q7ab: SoCalGas Compressor Stations				
Station	Number of Compressors	Horsepower (HP)	Gas/Electric	Power Generation HP
Adelanto	1	10,000	Gas (1)	716*
Blythe	9	32,278	Gas (9)	5,550*
Kelso	1	8,350	Gas (1)	500*
Newberry Springs	7	14,000	Gas (7)	2,682*
North Needles	5	13,988	Gas (5)	406*
South Needles	7	14,000	Gas (7)	2,199*
Sylmar	1	3,250	Electric (1)	0

³ San Diego Gas & Electric Company owns and operates the Moreno Compressor Station.

⁴ As noted by the U.S. Energy Information Administration, “The U.S. interstate natural gas pipeline network relies on more than 1,200 natural gas compressor stations to maintain the continuous flow of natural gas between supply area and consumers. Compressor stations are ‘pumping’ facilities that advance the flow of natural gas. They are usually situated between 50 and 100 miles apart along the length of a natural gas pipeline system and are designed to operate on a nonstop basis” (USEIA 2007).

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Table Q7ab: SoCalGas Compressor Stations				
Station	Number of Compressors	Horsepower (HP)	Gas/Electric	Power Generation HP
Ventura	3	3,300	Gas (3)	68** (Diesel)
Wheeler Ridge	4	22,000	Gas (4)	760** (Natural Gas)

* Island mode power generation operations – insufficient electric utility service for station operation

** Electric utility primary power service with on-site emergency backup power.

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QUESTION 8. Page 3 of the Feasibility Study states that "Storage fields play a critical role in providing gas supplies during colder months for heating and warmer months to support electricity generation."

a. Please identify all electric generation units supplied by the Ventura Compressor Station and their net qualifying capacity (NQC).

SEU Response 8a:

SoCalGas objects as it does not have sufficient knowledge or information upon which respond. SoCalGas does not have specific information about which compressor station supplies each electric generation plant. Subject to and without waiving the foregoing objections, SoCalGas responds as follows:

The 54-megawatt (MW) GenOn Ellwood Power electric generation plant is located within the City of Goleta. Natural gas supplied to this customer may be provided from the Ventura Compressor Station and/or the La Goleta Storage Field depending on system conditions.

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QUESTION 9. Page 7 of the Feasibility Study states that "SoCalGas has made use of natural gas supply from Pacific Gas & Electric ("PG&E") that is delivered to the distribution system at Morro Bay to supplement the local demand, thereby facilitating injection at the La Goleta Storage Field. However, these operational modifications are not sufficient to address the long-term changes, such as the loss of local production, to the system."

a. Please explain why "these operational modifications are not sufficient to address the long-term changes, such as the loss of local production, to the system."

SEU Response 9a:

The supply delivered by PG&E at Morro Bay flows into the local distribution system. The local distribution system at Morro Bay operates at a lower pressure than the transmission system running from Ventura to Santa Maria. Because gas supply flows from areas of high pressure to low pressure in a pipeline network, supply delivered into the low pressure pipeline at Morro Bay cannot reach all areas necessary along the SoCalGas coastal pipeline network that are supplied by the Ventura Compressor Station.

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QUESTION 10. Page 7 of the Feasibility Study states that "SoCalGas sought CPUC authorization for compressor station modernization in the 2016 and 2019 General Rate Case (GRC)" with footnote 12 quoting D.19-09-051 and the Commission finding that "the requested amounts for the Compressor Stations should be authorized." In the 2019 GRC, SoCalGas stated that, with regard to the Ventura Compressor Replacement Project, "there are no explicit representations for this project in this General Rate Case. The project and revised capital expenditures for this Project will be presented in a future General Rate Case with a significantly more detailed scope than presented in the TY 2016 General Rate Case forecast." (SoCalGas 2019 GRC, Exh. SCG-07, MAB-23:29-MAB-24:1) As set forth in Tables JGT-10 and JGT-13 of Exh. SCG-07, the extent to which SoCalGas sought revenue authorization for large compressor station projects was for the Blythe Compressor Station.

TABLE JGT-10
Compressor Station Capital Improvements

GAS TRANSMISSION (In 2016 \$)			
COMPRESSOR STATION CAPITAL IMPROVEMENTS	Estimated 2017(000s)	Estimated 2018(000s)	Estimated 2019(000s)
SMALL PROJECTS	2,794	11,831	10,826
MEDIUM PROJECTS	10,500	7,520	1,800
LARGE PROJECTS	34,000	84,000	104,000
COMPRESSOR DECOMMISSIONING	3,138	0	0
TOTAL	50,432	103,351	116,626

3. Large Capital Compressor Projects including Compressor Replacements (Blythe and Ventura)

TABLE JGT-13
Compressor Station Capital Improvements – Large Capital Projects

GAS TRANSMISSION (In 2016 \$)			
COMPRESSOR STATIONS - Replacements	Estimated 2017(000s)	Estimated 2018(000s)	Estimated 2019(000s)
BLYTHE COMPRESSOR PROJECT PHASE 1	24,000	20,000	4,000
BLYTHE COMPRESSOR PROJECT PHASE 2	10,000	64,000	100,000
TOTAL	34,000	84,000	104,000

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a. Is it SoCalGas' position that the Commission authorized any costs related to the Ventura Compressor Station in the 2019 GRC? If yes, please explain your answer.

SEU Response 10a:

In the Decision the Commission found that

With respect to the requested amounts for this GRC, we note that other largescale projects are being planned specifically for the Ventura Compressor Station and the Honor Rancho Compressor Station (and the Moreno Compressor station for SDG&E). **Because we recognize the importance of the proposed projects and the role of compressor stations in maintaining operational reliability and safety of the gas transmission system, we find that it is prudent and reasonable to authorize the proposed projects and for SoCalGas to have the necessary funding to conduct these projects (and Moreno Compressor station for SDG&E).** At this point, we do not find it necessary to deviate from current GRC practice and authorize funding only for specific projects because of the large scope covered in the GRC and because of the many challenges associated with planning and executing multiple and large projects within a specified timeframe. **We do however encourage SoCalGas to place a high priority on critical projects under this category as most of its compressors are over 50 years old and because of key risks that need to be mitigated in this area. Therefore, we find that the requested amounts for Compressor Stations should be authorized."** [emphasis added].

See also SoCalGas's Data Response 4, Question 7 response submitted to the CPUC on July 7, 2021 for additional details in the development of the Ventura Compressor Station modernization project.

SoCalGas's data responses are accessible at the CPUC website here: https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/energy-division/documents/natural-gas/ventura-compressor-station/ventura-compressor-station-data-requests_new.zip?sc_lang=en&hash=2F2C5DD1A9182BB94C1DB49BAC19B104

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QUESTION 11. Page 81 of the Feasibility Report states that "The primary operational cost driver for all hybrid alternatives is the cost of SCE electricity."

a. Please provide the methodology and assumptions underlying SoCalGas' calculation of operational cost estimates for Ventura Compressor Station alternatives, included the assumed cost of both gas and electricity.

SEU Response 11a:

The operational cost estimates are listed in tabular form in Appendix C of the Feasibility Study and as provided in the supplemental materials included in the Attachments referenced in 5b of this data response. The evaluation criteria and the assumptions are shown in the "Evaluation Criteria" column of the table. In summary, the operational cost for the all-gas engine alternative is approximately half the cost of the hybrid alternative.

SoCalGas provided the underlying cost assumptions for natural gas and electricity rates used in the Feasibility Study in CPUC-Energy Division Data Request 6 response submitted to the CPUC on May 6, 2022.

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QUESTION 12. Please provide the average annual gas supply in the Goleta Storage Field, the date and amount of the lowest annual supply level and the date and amount of the highest annual supply level for each of the past 10 years.

SEU Response 12:

This response contains Confidential and Protected Materials which are provided pursuant to GO 66-D, D.17-09-023, Gov. Code section 6254(k); Civil Code section 1798.80 et seq., and Pub. Util. Code section 8380(d).

Please refer to separately attached CEJA-SEU-001_ATTACH-Q12- Goleta Inventory_CONFIDENTIAL

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QUESTION 13. In a letter dated June 21, 2022 from SoCalGas CEO Scott Drury to Commission Executive Director Rachel Peterson, SoCalGas stated it "will now move forward with planning, engineering, and construction of the preferred project alternative" for the Ventura Compressor Station.

a. To the extent the Commission does not approve SoCalGas' preferred project alternative in the GRC Application or other proceeding, will SoCalGas ratepayers assume the cost of expenses incurrent as a result of its decision to "now move forward with planning, engineering, and construction of the preferred project alternative" that are not necessarily for the project ultimately approved by the Commission? If yes, please explain SoCalGas' basis for imposing these costs on SoCalGas ratepayers.

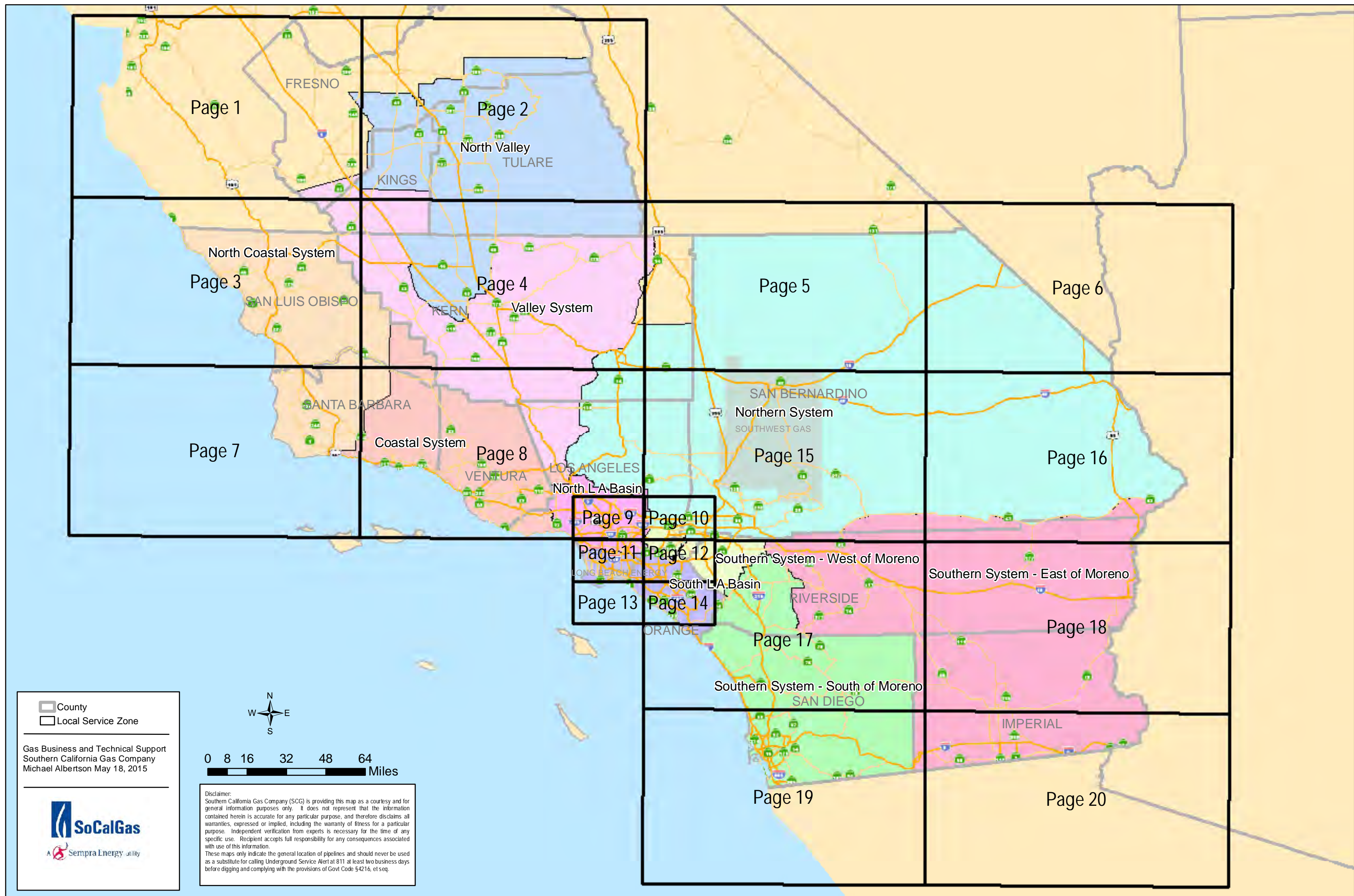
SEU Response 13a:

SoCalGas objects to this request on the grounds that it calls for speculation. In addition, Question 13 misquotes SoCalGas's June 21, 2022, letter to CPUC Executive Director Rachel Peterson and incorrectly identifies the signatory. The letter states: "SoCalGas will move forward with planning, engineering, procurement, permitting, and construction of the preferred project alternative." The signatory is Devin Zornizer, Vice President – Construction, not CEO Scott Drury.

Attachment A

Map Showing Local Service Zones of Southern California Gas Company

CEJA DR01 Q1a

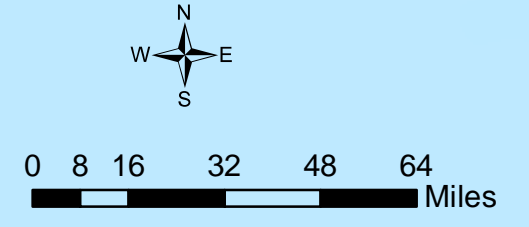


County
 Local Service Zone

Gas Business and Technical Support
 Southern California Gas Company
 Michael Albertson May 18, 2015

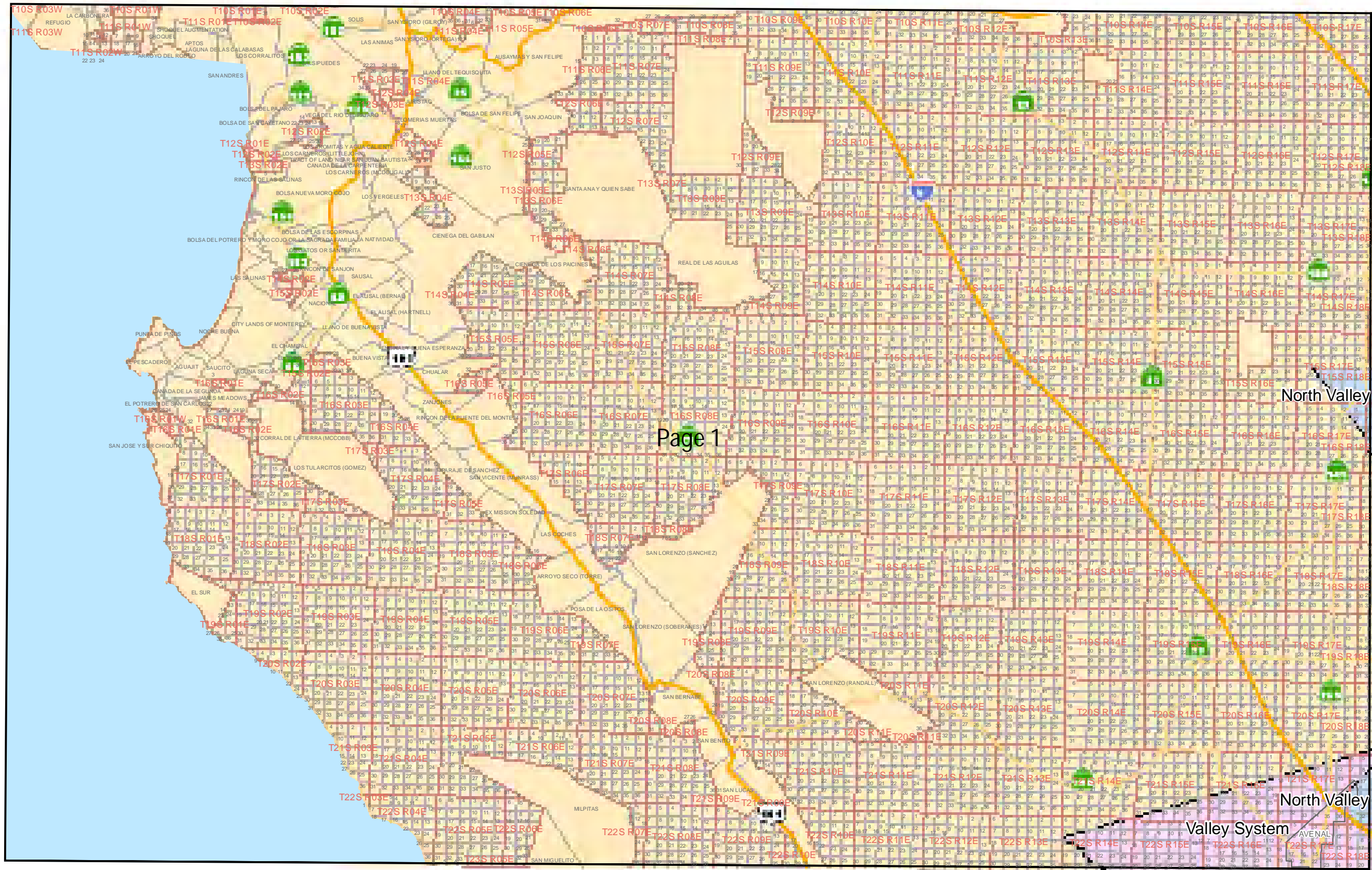


A Sempra Energy utility



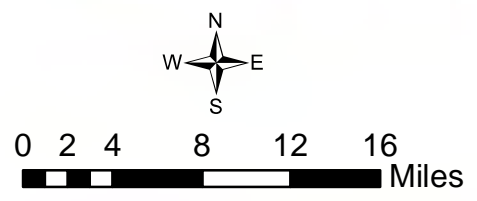
Disclaimer:
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 These maps only indicate the general location of pipelines and should never be used as a substitute for calling Underground Service Alert at 811 at least two business days before digging and complying with the provisions of Govt Code §4216, et seq.

Map Showing Local Service Zones of Southern California Gas Company



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Disclaimer:
Southern California Gas Company (SCG) is providing this map as a courtesy and for general information purposes only. It does not represent that the information contained herein is accurate for any particular purpose, and therefore disclaims all warranties, expressed or implied, including the warranty of fitness for a particular purpose. Independent verification from experts is necessary for the time of any specific use. Recipient accepts full responsibility for any consequences associated with use of this information. These maps only indicate the general location of pipelines and should never be used as a substitute for calling Underground Service Alert at 811 at least two business days before digging and complying with the provisions of Govt Code §4216, et seq.

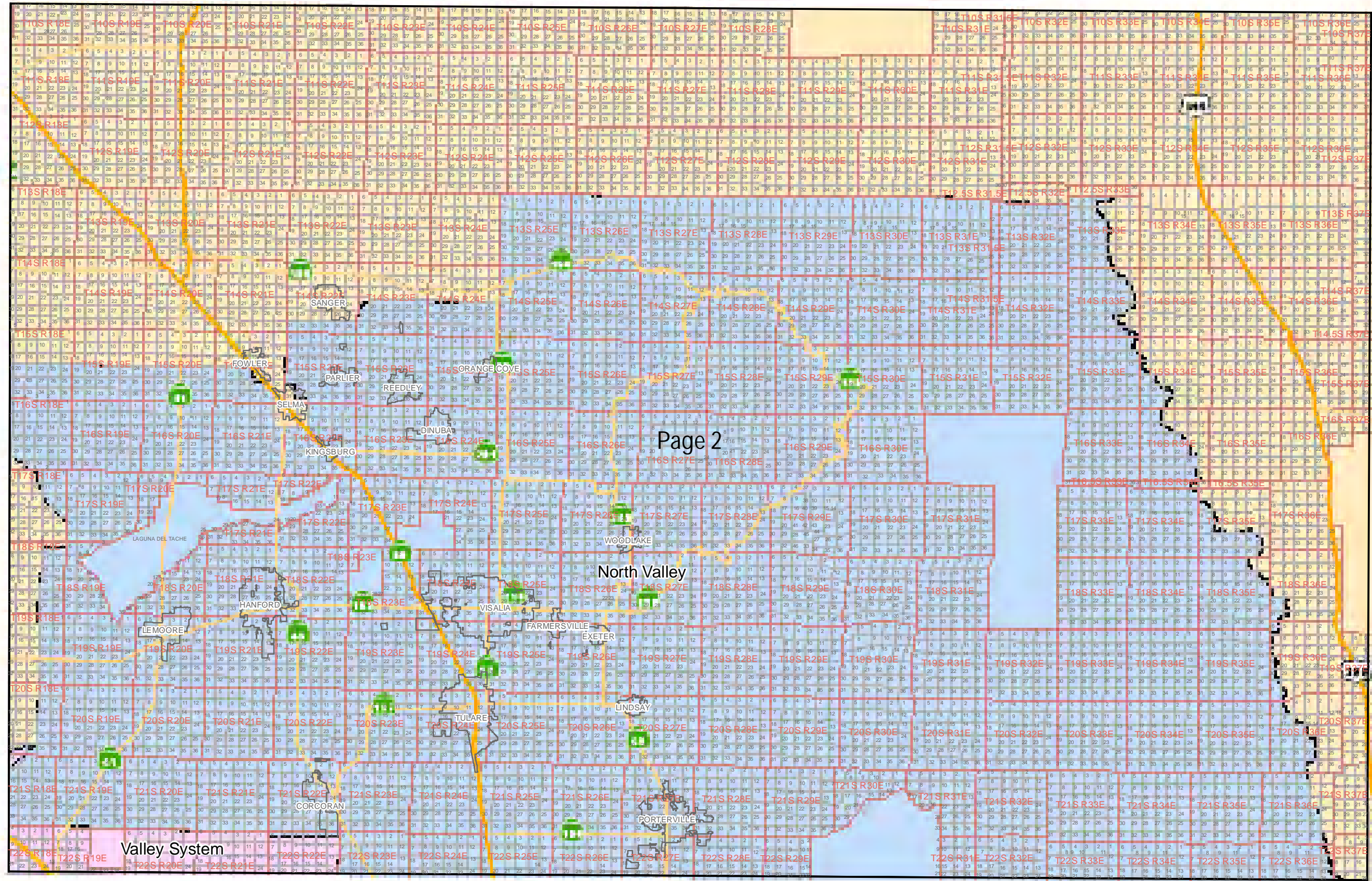


- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

Gas Business and Technical Support
Southern California Gas Company
Michael Albertson May 18, 2015

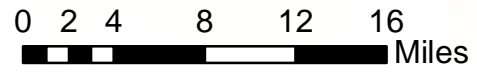


Map Showing Local Service Zones of Southern California Gas Company



Page 2

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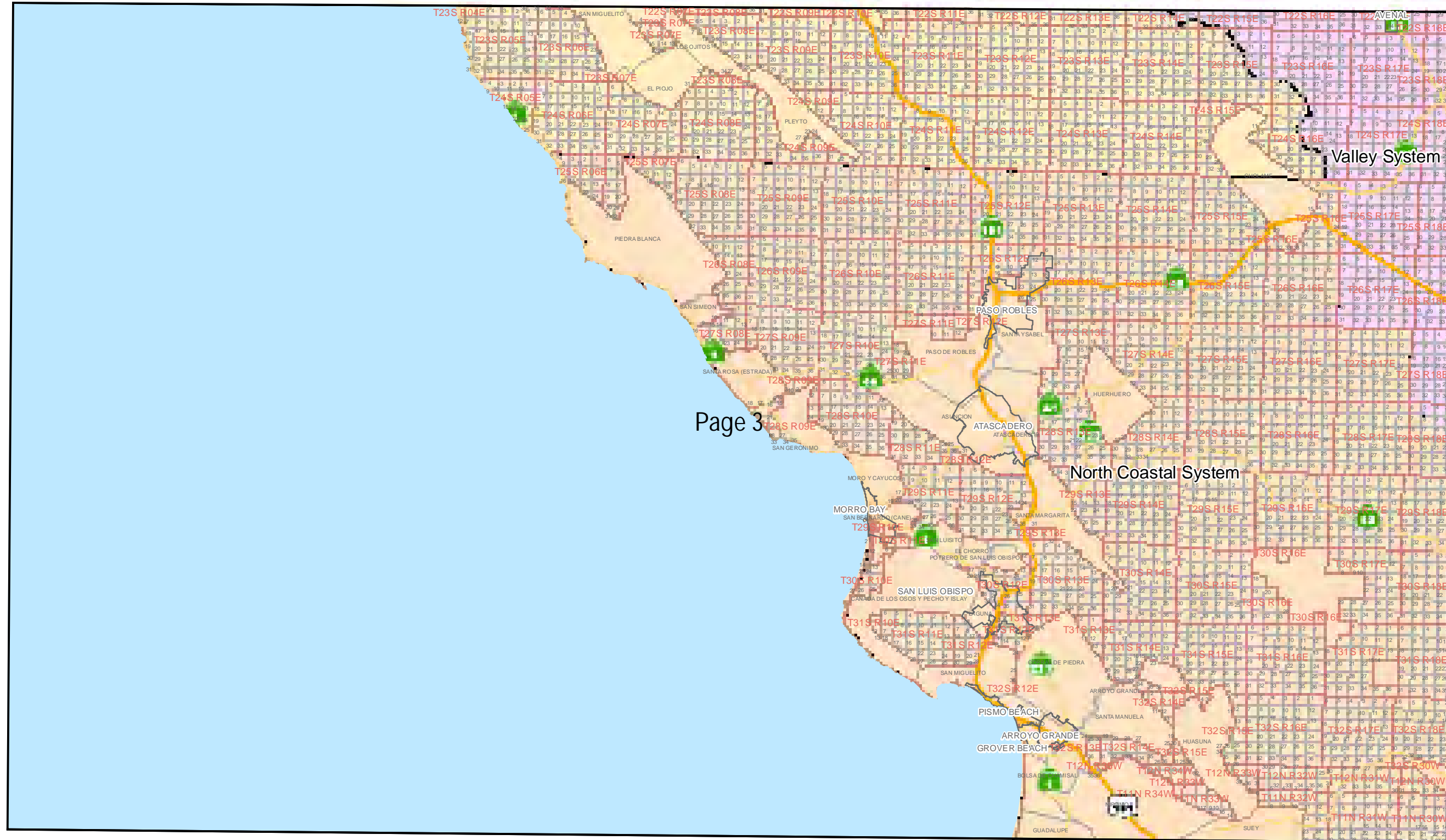


- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

Gas Business and Technical Support
Southern California Gas Company
Michael Albertson May 18, 2015

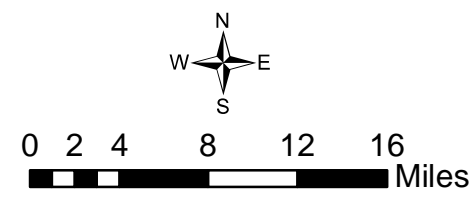


Map Showing Local Service Zones of Southern California Gas Company



Page 3

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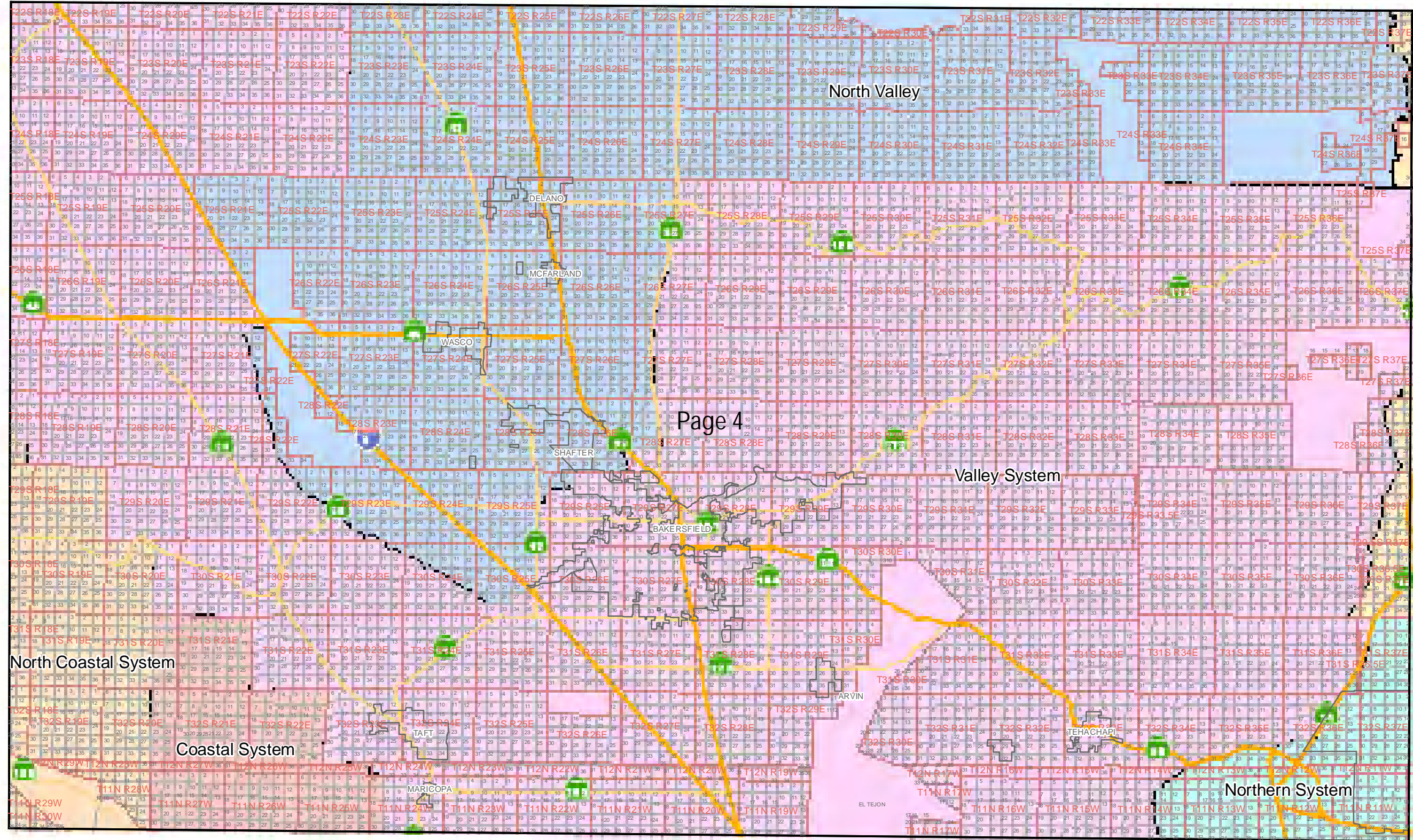


- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

Gas Business and Technical Support
Southern California Gas Company
Michael Albertson May 18, 2015

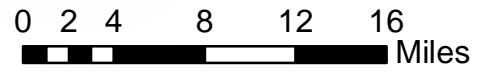


Map Showing Local Service Zones of Southern California Gas Company



Page 4

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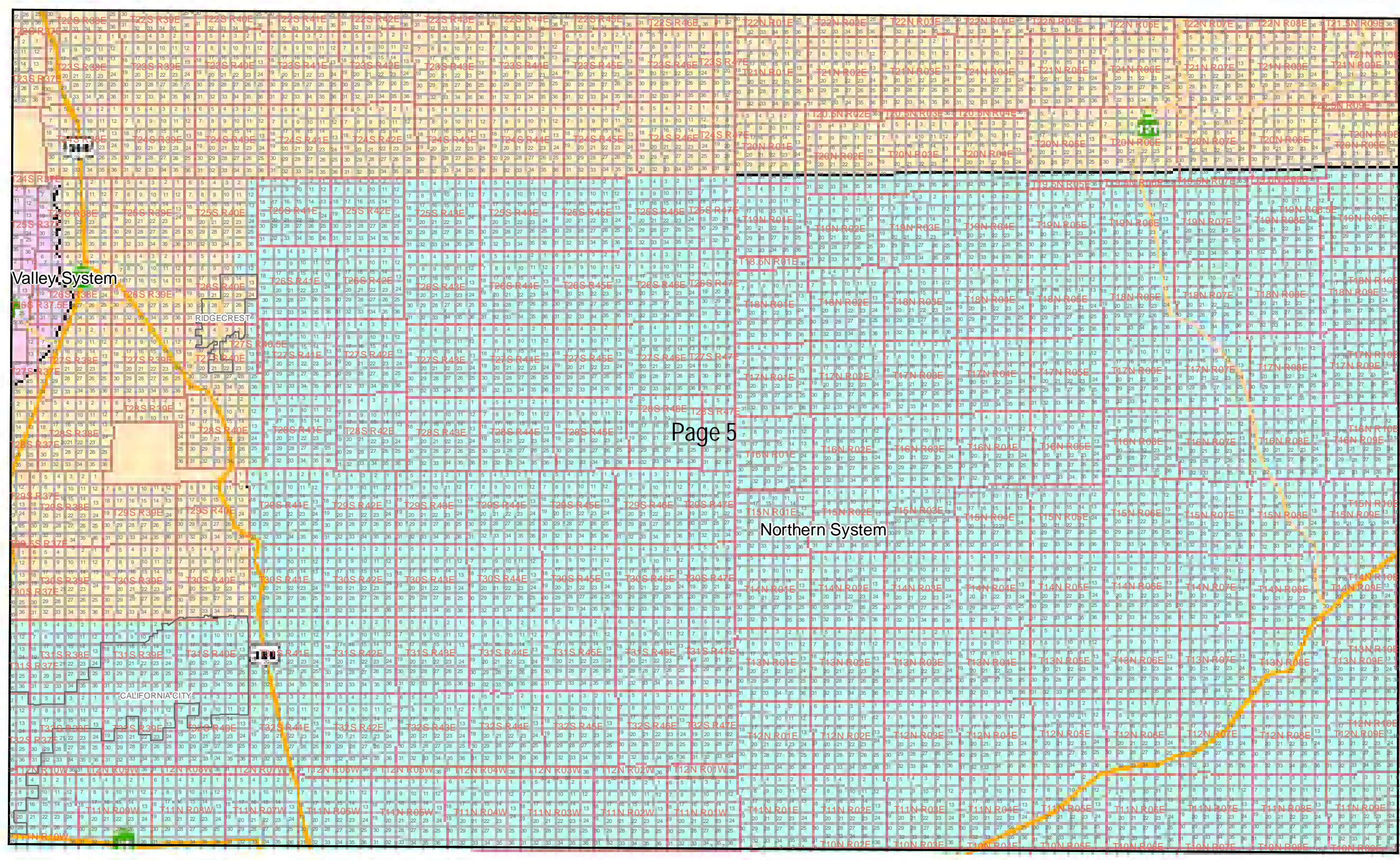


- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

Gas Business and Technical Support
Southern California Gas Company
Michael Albertson May 18, 2015



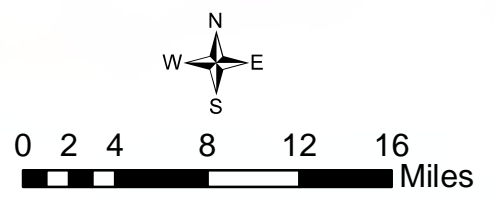
Map Showing Local Service Zones of Southern California Gas Company



Page 5

Northern System

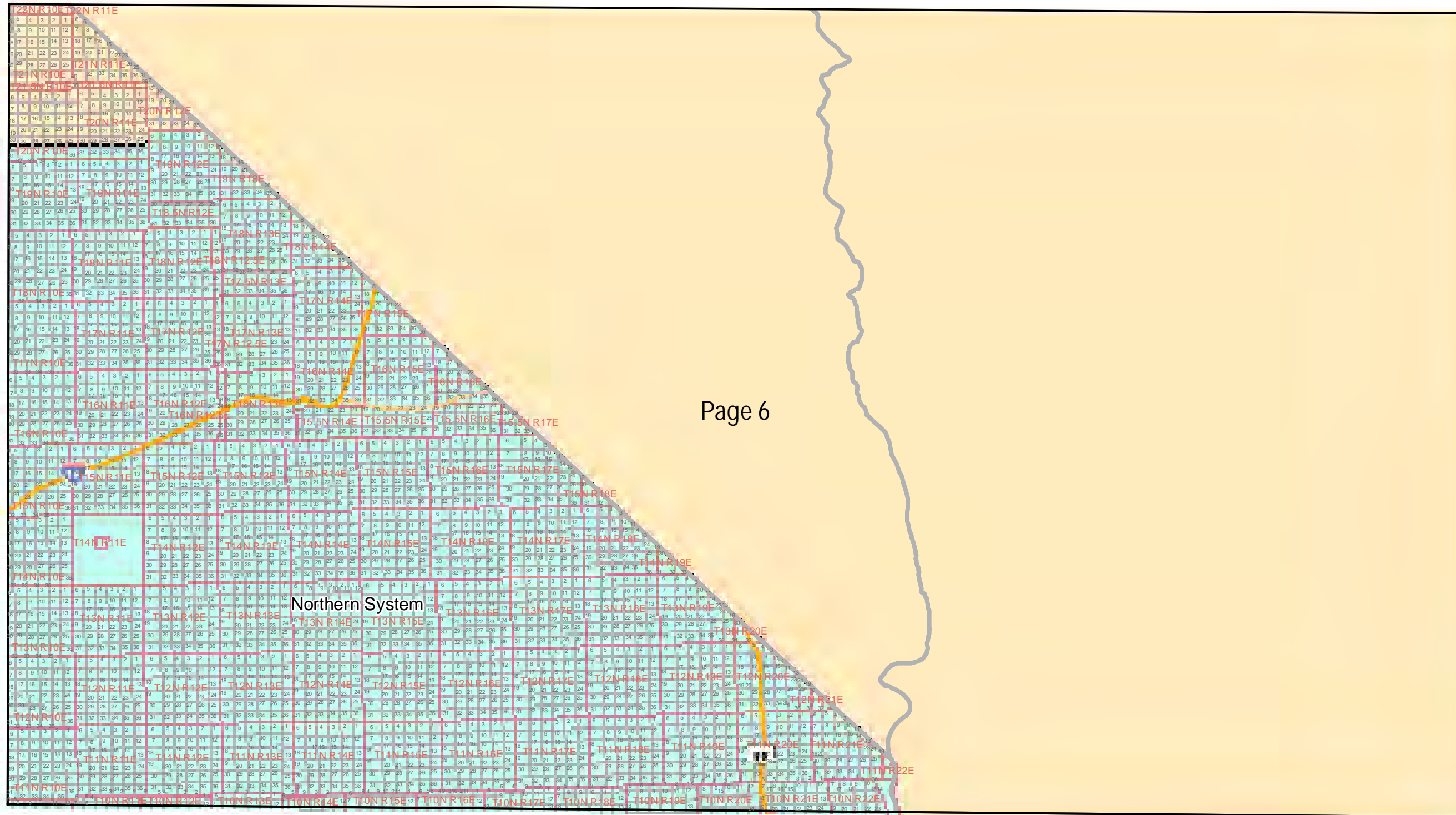
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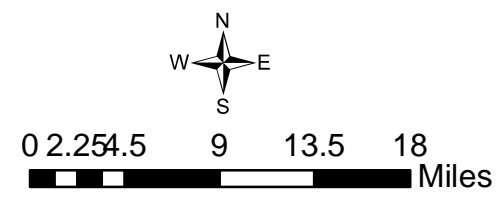
- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

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Southern California Gas Company
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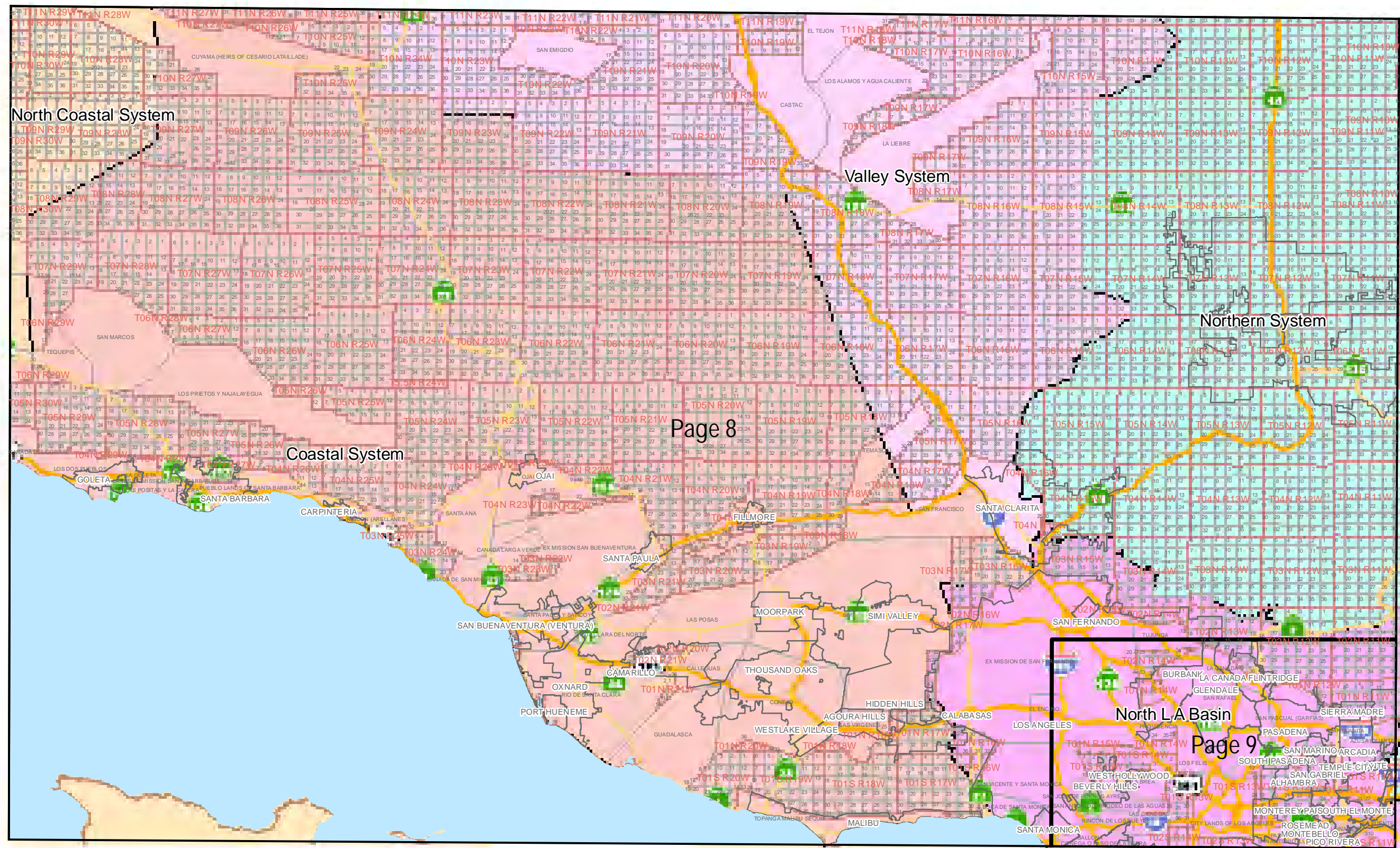


- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

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Southern California Gas Company
Michael Albertson May 18, 2015



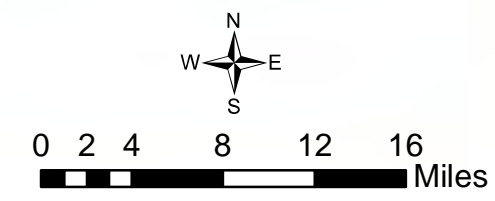
Map Showing Local Service Zones of Southern California Gas Company



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Page 9

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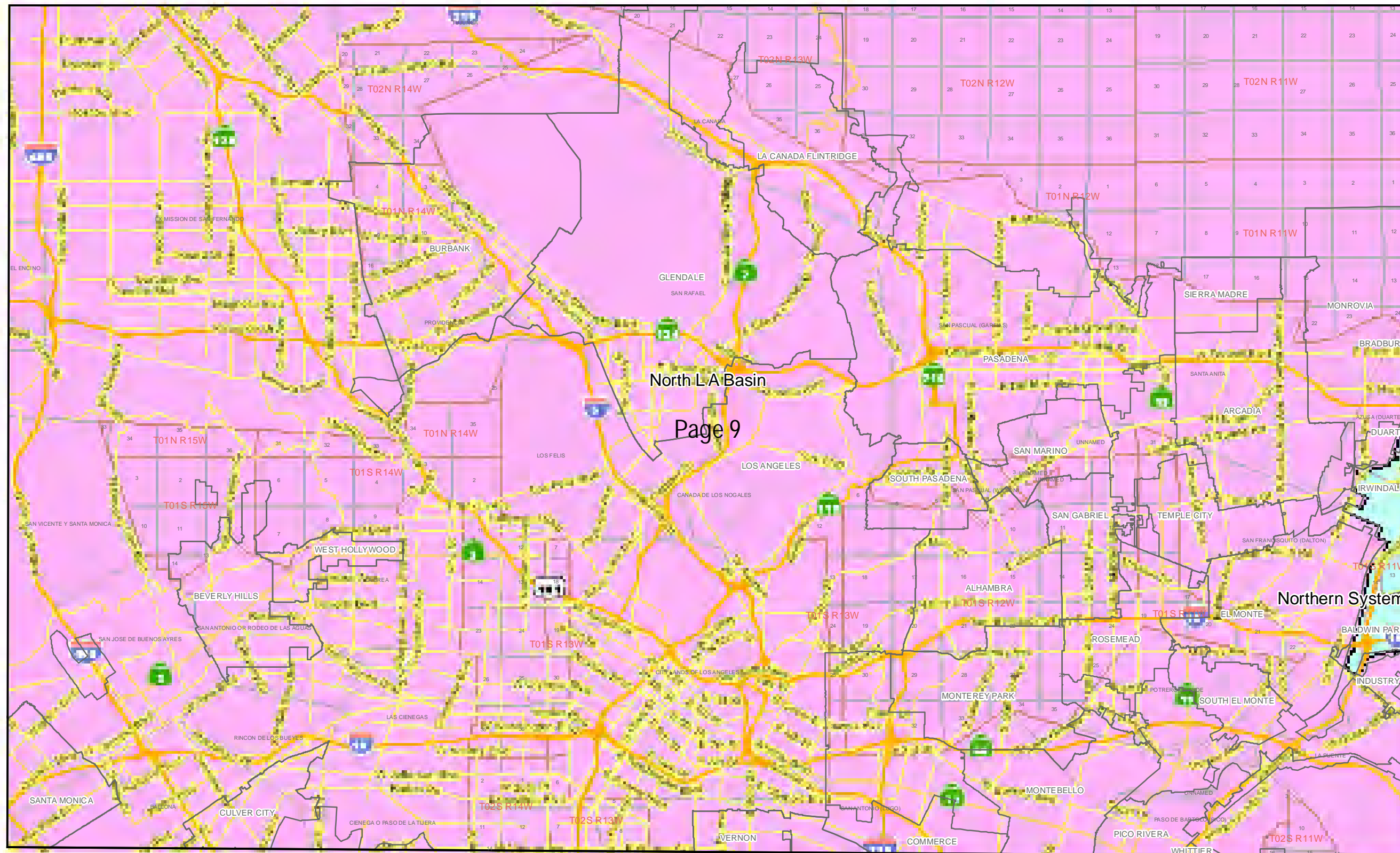


- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

Gas Business and Technical Support
Southern California Gas Company
Michael Albertson May 18, 2015

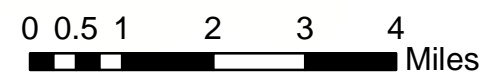


Map Showing Local Service Zones of Southern California Gas Company



Page 9

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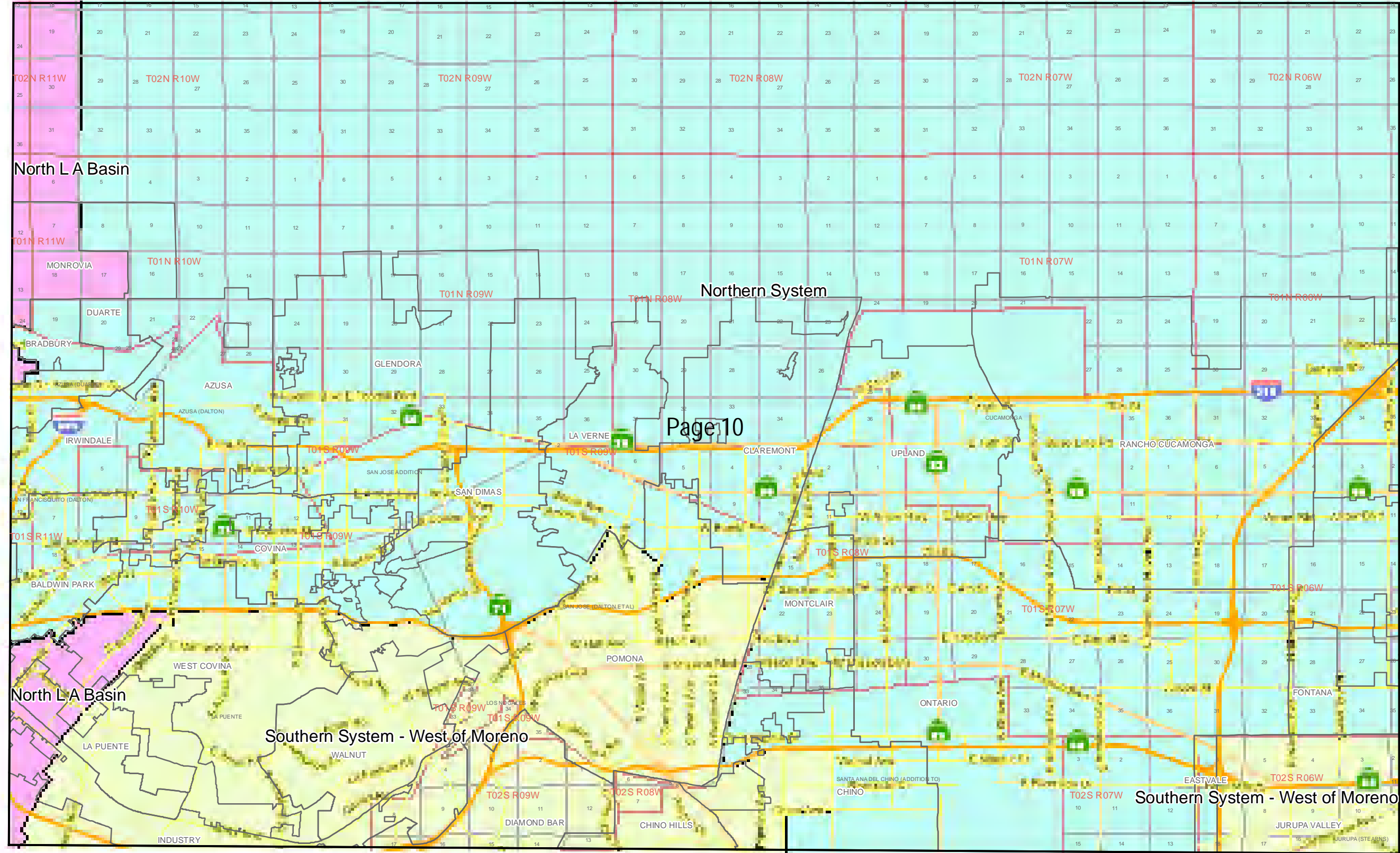


- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

Gas Business and Technical Support
Southern California Gas Company
Michael Albertson May 18, 2015

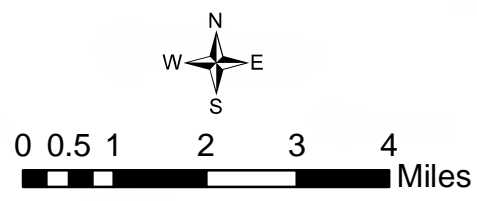


Map Showing Local Service Zones of Southern California Gas Company



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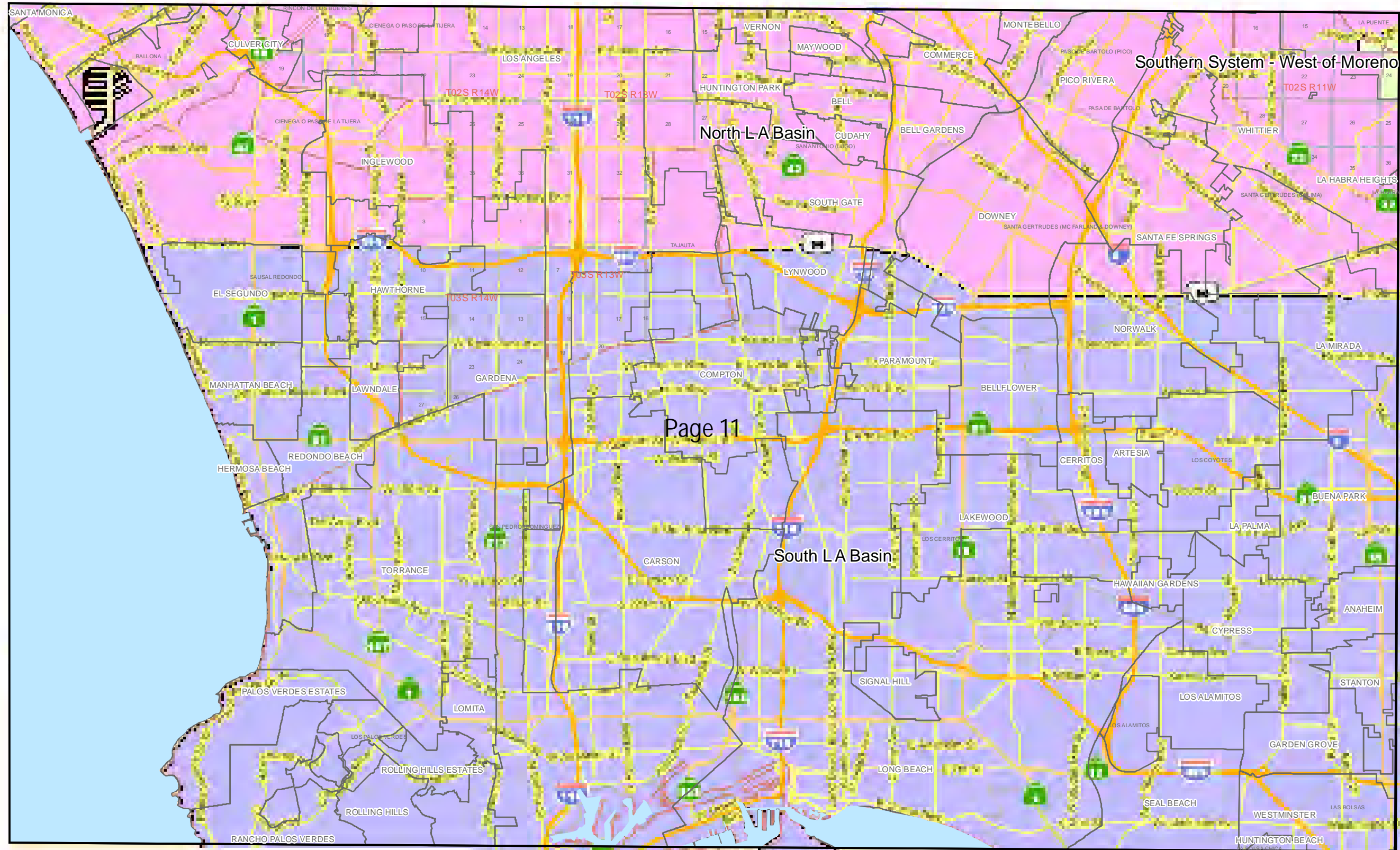


- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

Gas Business and Technical Support
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Michael Albertson May 18, 2015

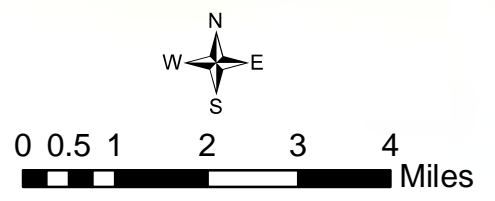


Map Showing Local Service Zones of Southern California Gas Company



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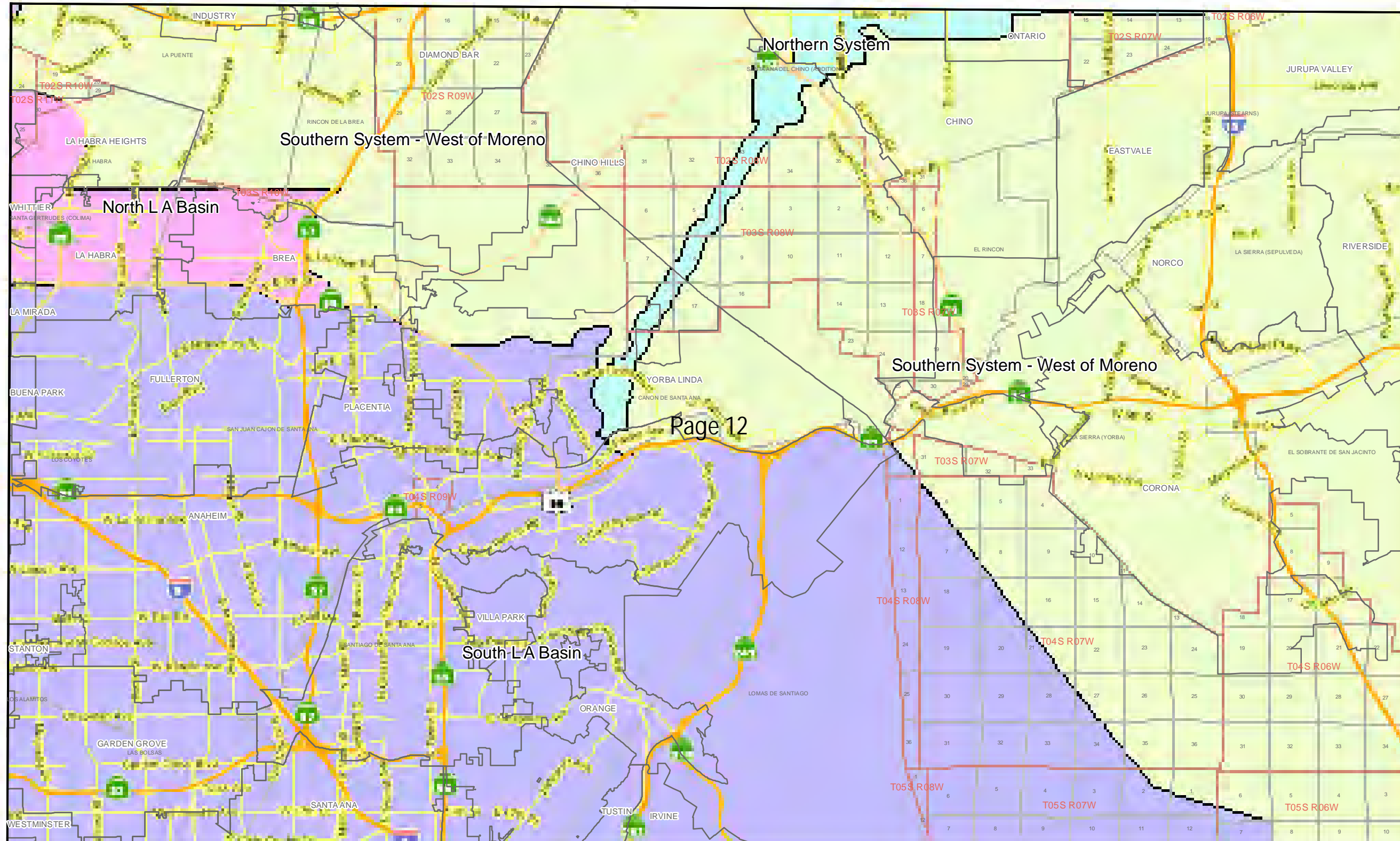


- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

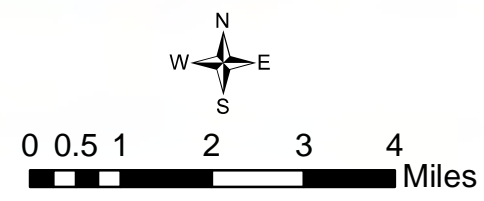
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Map Showing Local Service Zones of Southern California Gas Company



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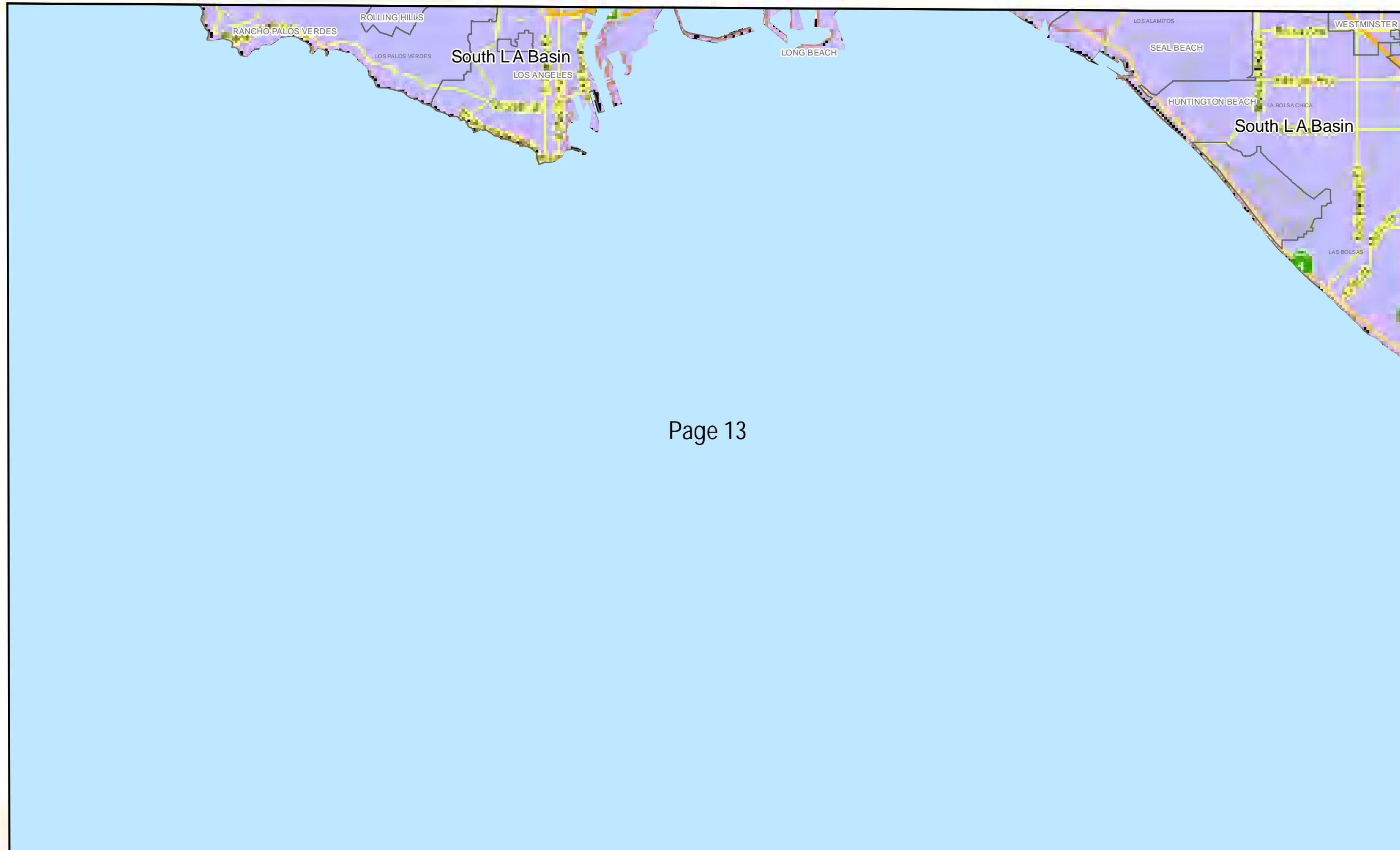


- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

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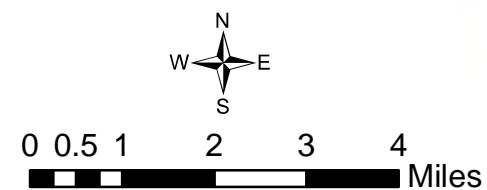






Map Showing Local Service Zones of Southern California Gas Company



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-  Incorporated Cities
-  Township and Range
-  Sections and Landgrants
-  Local Service Zone

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Michael Albertson May 18, 2015

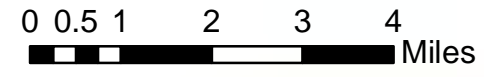


Map Showing Local Service Zones of Southern California Gas Company



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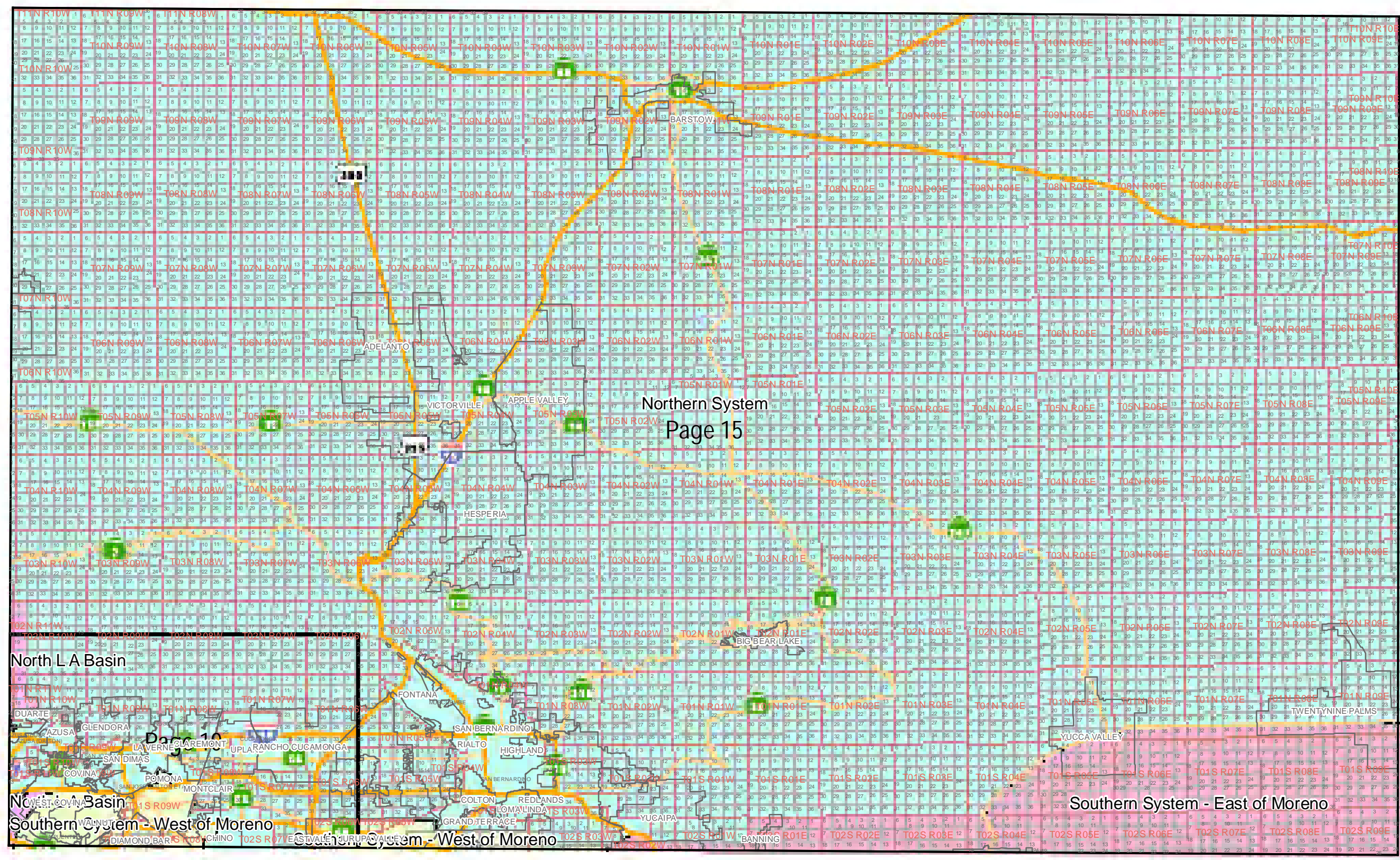


- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

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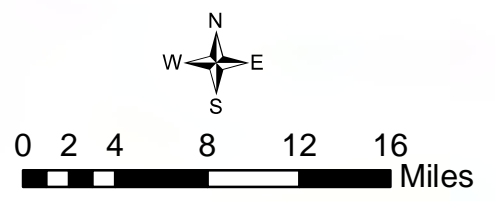


Map Showing Local Service Zones of Southern California Gas Company



Northern System
Page 15

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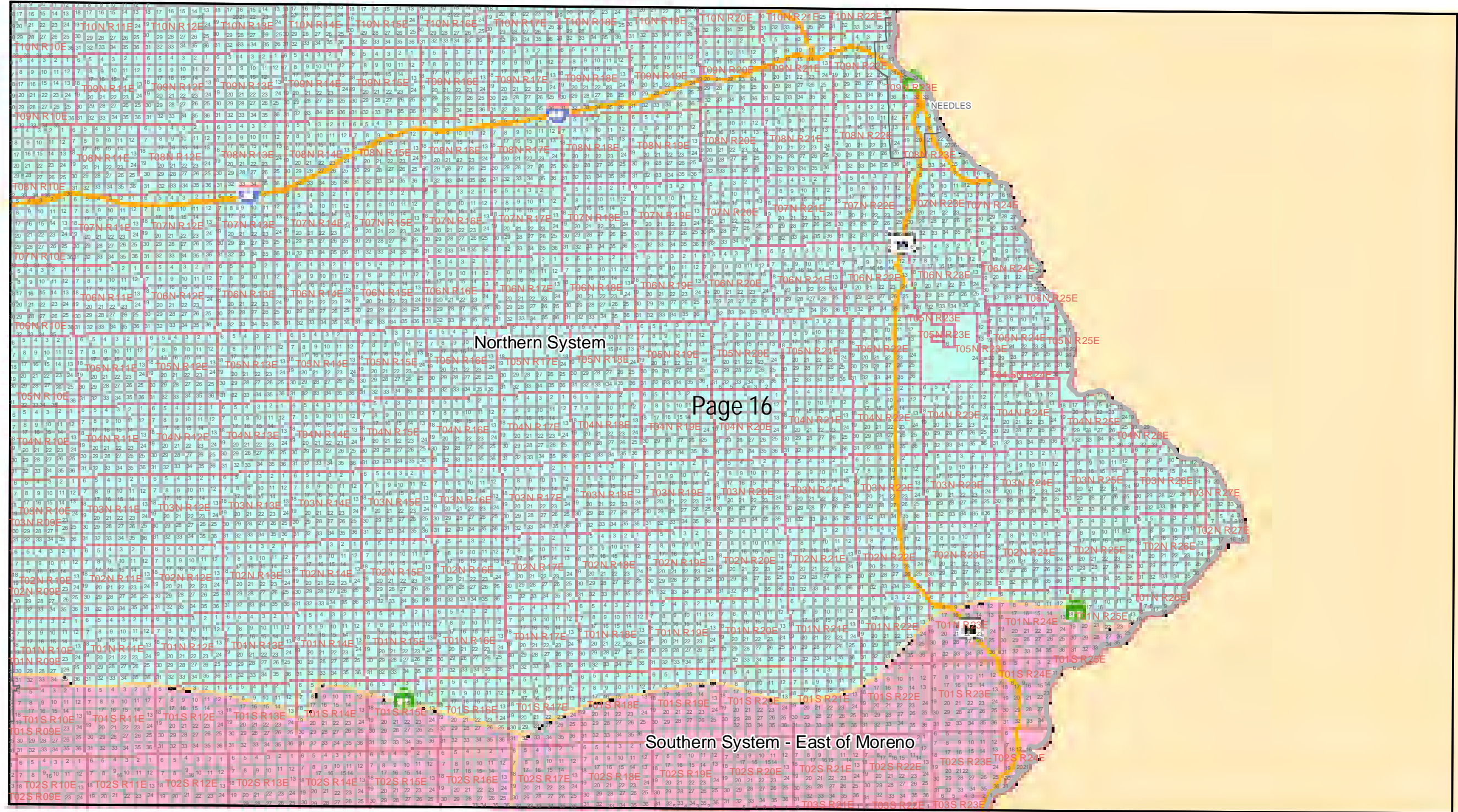


- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

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Map Showing Local Service Zones of Southern California Gas Company



Northern System

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Southern System - East of Moreno

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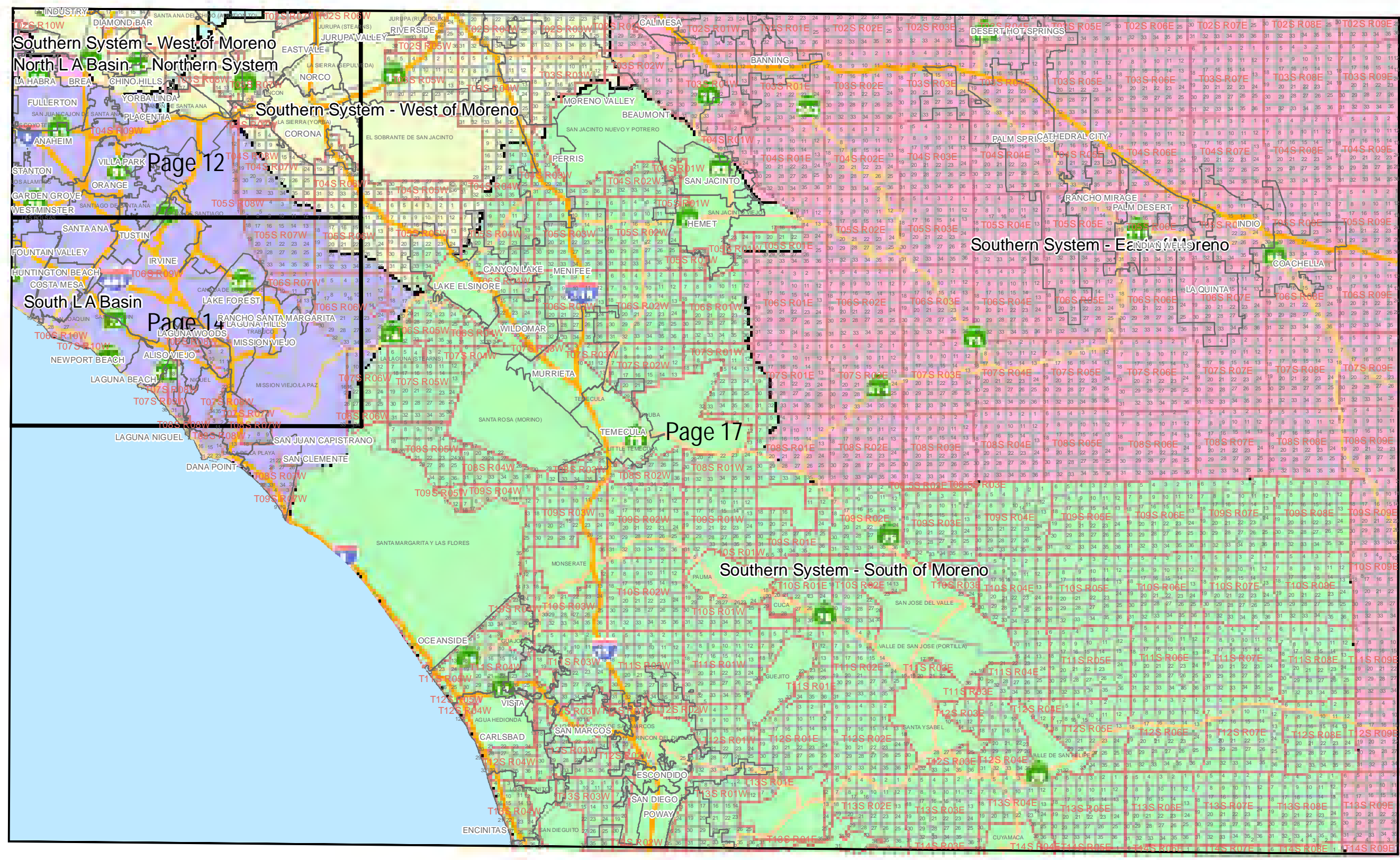
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Miles

- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

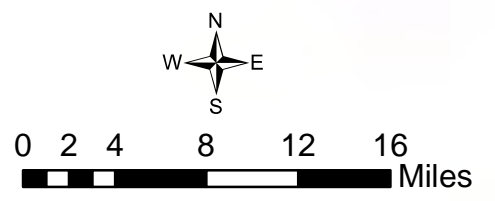
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Map Showing Local Service Zones of Southern California Gas Company



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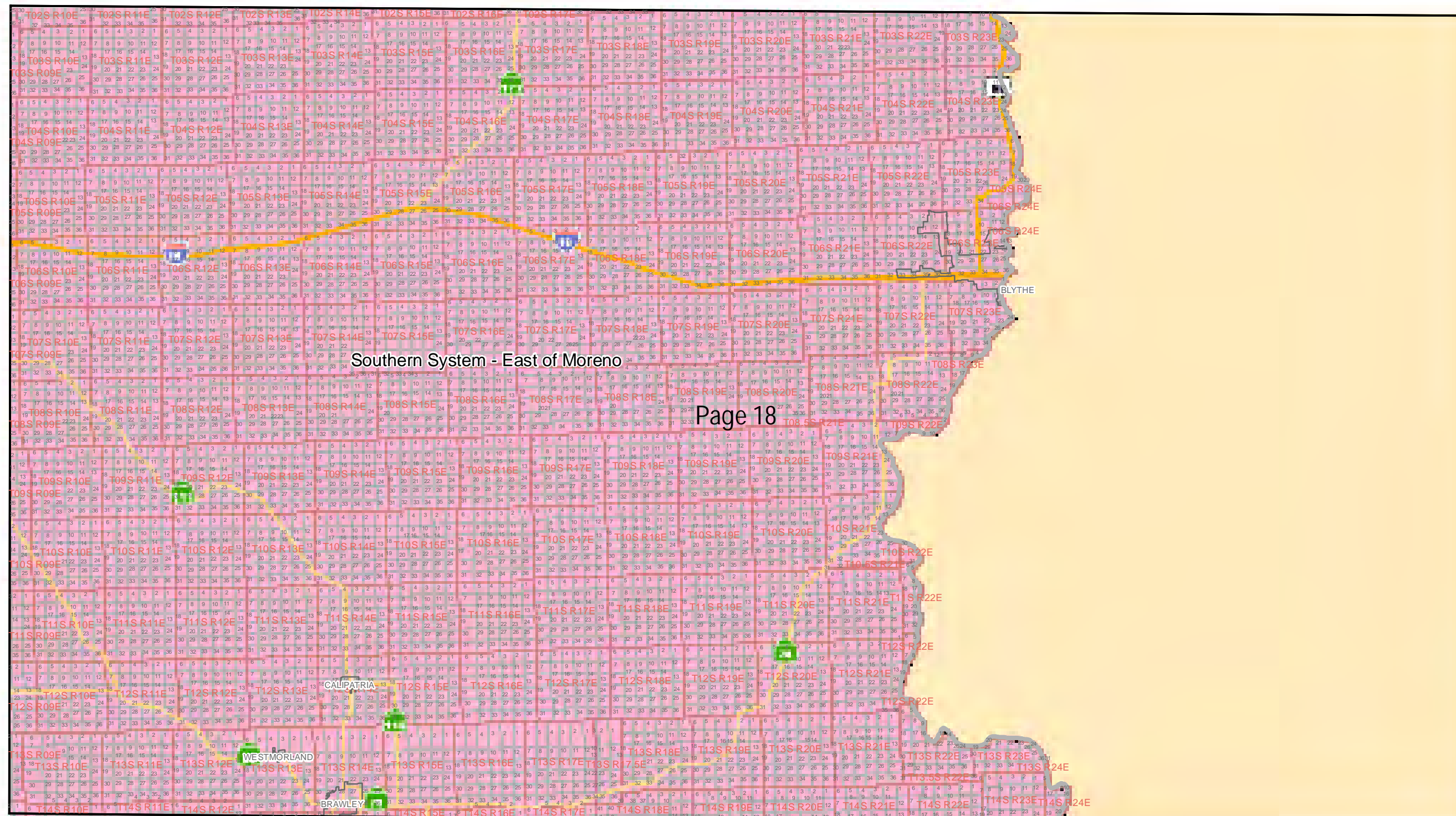


- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

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Michael Albertson May 18, 2015



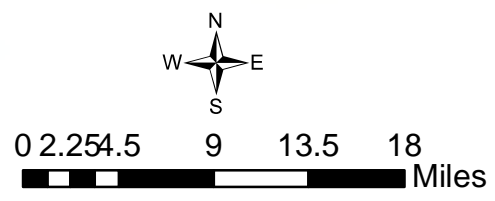
Map Showing Local Service Zones of Southern California Gas Company



Southern System - East of Moreno

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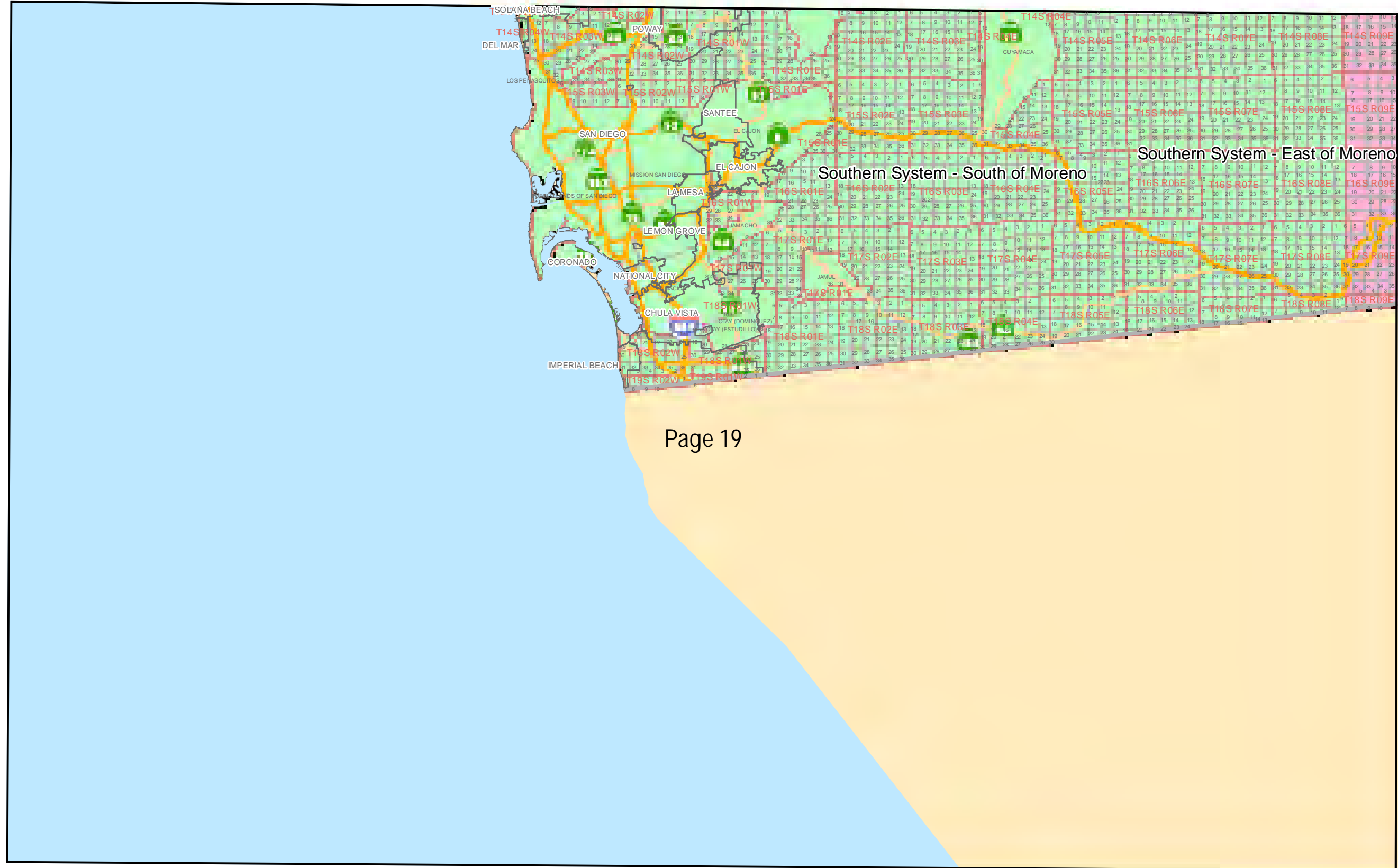


- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

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Southern California Gas Company
Michael Albertson May 18, 2015

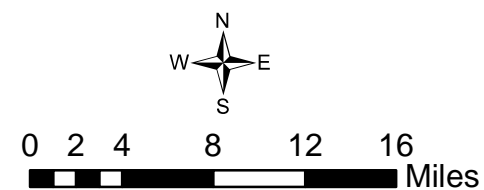


Map Showing Local Service Zones of Southern California Gas Company



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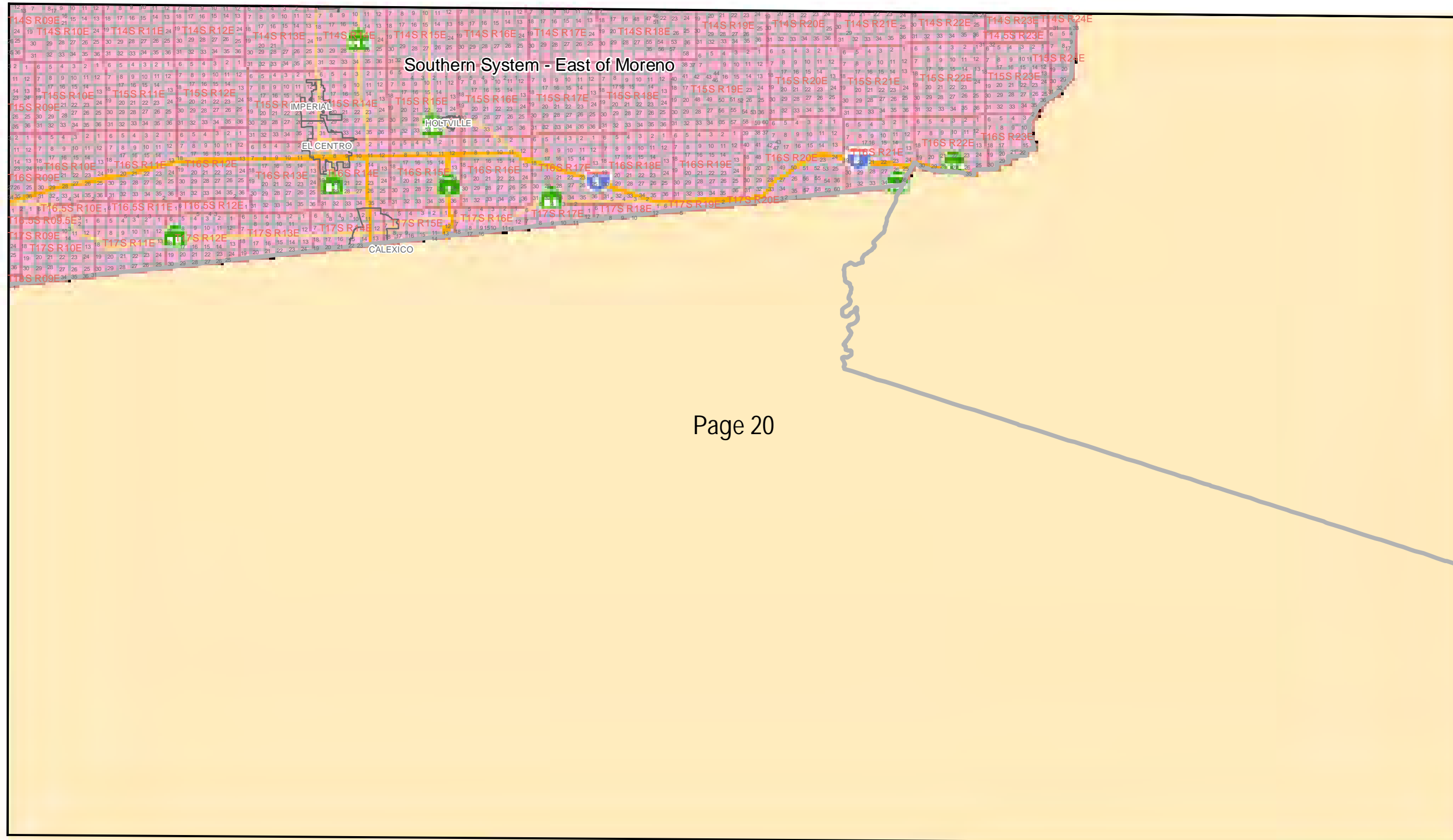


- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

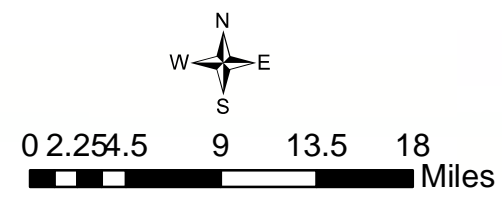
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Map Showing Local Service Zones of Southern California Gas Company



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- Incorporated Cities
- Township and Range
- Sections and Landgrants
- Local Service Zone

Gas Business and Technical Support
Southern California Gas Company
Michael Albertson May 18, 2015



COASTAL LOCAL SERVICE ZONE

THOSE PORTIONS OF SAN LUIS OBISPO, SANTA BARBARA, VENTURA, AND LOS ANGELES COUNTIES, DESCRIBED AS FOLLOWS:

PORTIONS OF SANTA BARBARA AND SAN LUIS OBISPO COUNTIES

THAT PORTION OF SANTA BARBARA AND SAN LUIS OBISPO COUNTIES LYING EAST OF A LINE DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF THE PARCEL DESCRIBED IN THE GRANT DEED RECORDED AS DOCUMENT 88-011895, OF OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SANTA BARBARA COUNTY;

THENCE NORTHERLY IN A STRAIGHT LINE TO THE SOUTHWEST CORNER OF SECTION 24, TOWNSHIP 5 NORTH, RANGE 32 WEST, S.B.B.&M.;

THENCE NORTHEASTERLY IN A STRAIGHT LINE TO THE SOUTHWEST CORNER OF SECTION 17, TOWNSHIP 5 NORTH, RANGE 31 WEST, S.B.B.&M.;

THENCE EASTERLY ALONG THE SOUTH LINES OF SECTIONS 17, 16, 15, 14, AND 13, TOWNSHIP 5 NORTH, RANGE 31 WEST, S.B.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 13;

THENCE CONTINUING EASTERLY ALONG THE SOUTH LINES OF SECTIONS 18 AND 17, TOWNSHIP 5 NORTH, RANGE 30 WEST, S.B.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 17;

THENCE NORTHERLY ALONG THE EAST LINES OF SECTIONS 17, 8, AND 5, TOWNSHIP 5 NORTH, RANGE 30 WEST, S.B.B.&M., TO A POINT IN THE SOUTH LINE OF RANCHO LOMAS DE LA PURIFICACION;

THENCE NORTHERLY IN A STRAIGHT LINE TO THE CENTERLINE INTERSECTION OF STATE HIGHWAY 154 (SAN MARCOS PASS RD) AND AMOUR RANCH ROAD;

THENCE EASTERLY ALONG THE CENTERLINE OF STATE HIGHWAY 154 TO A POINT IN THE EAST LINE OF RANCHO LOMAS DE LA PURIFICACION;

THENCE NORTHERLY IN A STRAIGHT LINE TO THE SOUTHWEST CORNER OF SECTION 18, TOWNSHIP 7 NORTH, RANGE 29 WEST, S.B.B.&M.;

THENCE NORTHERLY ALONG THE WEST LINES OF SECTIONS 18, 7, AND 6, TOWNSHIP 7 NORTH, RANGE 29 WEST, S.B.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 6;

THENCE CONTINUING NORTHERLY ALONG THE WEST LINES OF SECTIONS 31 AND 30, TOWNSHIP 8 NORTH, RANGE 29 WEST, S.B.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 30;

THENCE NORTHEASTERLY IN A STRAIGHT LINE TO THE NORTHEAST CORNER OF SECTION 30, TOWNSHIP 9 NORTH, RANGE 27 WEST, S.B.B.&M.;

THENCE NORTHERLY ALONG THE EAST LINES OF SECTIONS 19, 18, 7, AND 6, TOWNSHIP 9 NORTH, RANGE 27 WEST, S.B.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 6;

THENCE CONTINUING NORTHERLY ALONG THE EAST LINES OF SECTIONS 31, 30, 19, AND 18, TOWNSHIP 10 NORTH, RANGE 27 WEST, S.B.B.&M, TO THE NORTHEAST CORNER OF SAID SECTION 18;

THENCE NORTHERLY IN A STRAIGHT LINE TO THE INTERSECTION OF THE NORTHERLY LINE OF RANCHO CUYAMA CESARIO LATAILADE AND THE EAST LINE OF SECTION 25, TOWNSHIP 11 NORTH, RANGE 28 WEST, S.B.B.&M.;

THENCE NORTHERLY ALONG THE WEST LINES OF SECTIONS 25, 24, 13, 12, AND 1, TOWNSHIP 11 NORTH, RANGE 28 WEST, S.B.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 1;

THENCE CONTINUING NORTHERLY ALONG THE WEST LINE OF SECTION 36, TOWNSHIP 12 NORTH, RANGE 28 WEST, S.B.B.&M. TO THE NORTHEAST CORNER OF SAID SECTION 36;

THENCE WESTERLY ALONG THE NORTH LINE OF SAID SECTION 36 TO THE SOUTHEAST CORNER OF SECTION 34, TOWNSHIP 32 SOUTH, RANGE 20 EAST, M.D.B.&M.;

THENCE NORTHERLY ALONG THE EAST LINES OF SECTIONS 34, 27, 22, 15, 10, AND 3, TOWNSHIP 32 SOUTH, RANGE 20 EAST, M.D.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 3;

THENCE CONTINUING NORTHERLY ALONG THE EAST LINES OF SECTIONS 34, 27, 22, 15, 10, AND 3, TOWNSHIP 31 SOUTH, RANGE 20 EAST, M.D.B.&M. TO THE NORTHEAST CORNER OF SAID SECTION 3, SAID CORNER BEING A POINT IN THE BOUNDARY OF SAN LUIS OBISPO AND KERN COUNTIES.

PORTIONS OF VENTURA AND LOS ANGELES COUNTIES

THAT PORTION OF VENTURA AND LOS ANGELES COUNTIES LYING WEST OF THE FOLLOWING LINE:

BEGINNING AT THE NORTHEAST CORNER OF VENTURA COUNTY;

THENCE SOUTHEASTERLY ALONG THE BOUNDARY OF VENTURA AND LOS ANGELES COUNTIES TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 126;

THENCE EASTERLY ALONG THE CENTERLINE OF STATE HIGHWAY 126 TO A POINT IN THE CENTERLINE OF COMMERCE CENTER DR;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF COMMERCE CENTER DR TO A POINT IN THE CENTERLINE OF HENRY MAYO DR;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF HENRY MAYO DR TO A POINT IN THE CENTERLINE OF THE OLD ROAD;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF THE OLD ROAD TO A POINT IN THE CENTERLINE OF MC BEAN PARKWAY;

THENCE EASTERLY ALONG THE CENTERLINE OF MC BEAN PARKWAY TO A POINT IN THE CENTERLINE OF INTERSTATE HIGHWAY 5;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF INTERSTATE HIGHWAY 5 TO A POINT IN THE NORTH LINE OF RANCHO EX MISSION DE SAN FERNANDO;

THENCE SOUTHWESTERLY ALONG THE NORTH LINE OF RANCHO EX MISSION DE SAN FERNANDO TO A POINT IN THE NORTH LINE OF SECTION 26, TOWNSHIP 3 NORTH, RANGE 16 WEST, S.B.B.&M.;

THENCE WESTERLY ALONG THE NORTH LINES OF SECTIONS 26, 27, 28, 29, AND 30, TOWNSHIP 3 NORTH, RANGE 16 WEST , S.B.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 30;

THENCE SOUTHERLY ALONG THE WEST LINE OF SAID SECTION 30 TO THE NORTHEAST CORNER OF SECTION 25, TOWNSHIP 3 NORTH, RANGE 17 WEST , S.B.B.&M.;

THENCE WESTERLY ALONG THE NORTH LINES OF SECTIONS 25 AND 26, TOWNSHIP 3 NORTH, RANGE 17 WEST , S.B.B.&M., TO A POINT IN THE EAST LINE OF RANCHO SIMI;

THENCE WESTERLY ALONG THE WESTERLY PROLONGATION OF THE NORTH LINE OF SAID SECTION 26 TO A POINT IN THE BOUNDARY OF LOS ANGELES AND VENTURA COUNTIES;

THENCE SOUTHERLY ALONG THE BOUNDARY OF LOS ANGELES AND VENTURA COUNTIES TO A POINT IN THE CENTERLINE OF VICTORY BL;

THENCE EASTERLY ALONG THE CENTERLINE OF VICTORY BL TO A POINT IN THE CENTERLINE OF VALLEY CIRCLE BL;

THENCE SOUTHERLY AND SOUTHEASTERLY ALONG THE CENTERLINE OF VALLEY CIRCLE BL (CHANGES NAME TO MULHOLLAND DR) TO A POINT IN THE CENTERLINE OF VALMAR RD;

THENCE SOUTHERLY ALONG THE CENTERLINE OF VALMAR RD (CHANGES NAME TO OLD TOPANGA CANYON RD) TO A POINT IN THE CENTERLINE OF MULHOLLAND HWY;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF MULHOLLAND HWY TO A POINT IN THE CENTERLINE OF OLD TOPANGA CANYON RD;

THENCE SOUTHERLY AND SOUTHEASTERLY ALONG THE CENTERLINE OF OLD TOPANGA CANYON RD TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 27 (TOPANGA CANYON BL);

THENCE SOUTHERLY ALONG THE CENTERLINE OF STATE HWY 27 TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 1 (PACIFIC COAST HWY);

THENCE SOUTHERLY ALONG THE SOUTHERLY PROLONGATION OF THE MOST SOUTHERLY COURSE OF STATE HIGHWAY 27 TO THE MEAN HIGH TIDE LINE OF THE PACIFIC OCEAN.

NORTH COASTAL LOCAL SERVICE ZONE

THAT PORTION OF SANTA BARBARA AND SAN LUIS OBISPO COUNTIES LYING WEST OF A LINE DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF THE PARCEL DESCRIBED IN THE GRANT DEED RECORDED AS DOCUMENT 88-011895, OF OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SANTA BARBARA COUNTY;

THENCE NORTHERLY IN A STRAIGHT LINE TO THE SOUTHWEST CORNER OF SECTION 24, TOWNSHIP 5 NORTH, RANGE 32 WEST, S.B.B.&M.;

THENCE NORTHEASTERLY IN A STRAIGHT LINE TO THE SOUTHWEST CORNER OF SECTION 17, TOWNSHIP 5 NORTH, RANGE 31 WEST, S.B.B.&M.;

THENCE EASTERLY ALONG THE SOUTH LINES OF SECTIONS 17, 16, 15, 14, AND 13, TOWNSHIP 5 NORTH, RANGE 31 WEST, S.B.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 13;

THENCE CONTINUING EASTERLY ALONG THE SOUTH LINES OF SECTIONS 18 AND 17, TOWNSHIP 5 NORTH, RANGE 30 WEST, S.B.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 17;

THENCE NORTHERLY ALONG THE EAST LINES OF SECTIONS 17, 8, AND 5, TOWNSHIP 5 NORTH, RANGE 30 WEST, S.B.B.&M., TO A POINT IN THE SOUTH LINE OF RANCHO LOMAS DE LA PURIFICACION;

THENCE NORTHERLY IN A STRAIGHT LINE TO THE CENTERLINE INTERSECTION OF STATE HIGHWAY 154 (SAN MARCOS PASS RD) AND AMOUR RANCH ROAD;

THENCE EASTERLY ALONG THE CENTERLINE OF STATE HIGHWAY 154 TO A POINT IN THE EAST LINE OF RANCHO LOMAS DE LA PURIFICACION;

THENCE NORTHERLY IN A STRAIGHT LINE TO THE SOUTHWEST CORNER OF SECTION 18, TOWNSHIP 7 NORTH, RANGE 29 WEST, S.B.B.&M.;

THENCE NORTHERLY ALONG THE WEST LINES OF SECTIONS 18, 7, AND 6, TOWNSHIP 7 NORTH, RANGE 29 WEST, S.B.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 6;

THENCE CONTINUING NORTHERLY ALONG THE WEST LINES OF SECTIONS 31 AND 30, TOWNSHIP 8 NORTH, RANGE 29 WEST, S.B.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 30;

THENCE NORTHEASTERLY IN A STRAIGHT LINE TO THE NORTHEAST CORNER OF SECTION 30, TOWNSHIP 9 NORTH, RANGE 27 WEST, S.B.B.&M.;

THENCE NORTHERLY ALONG THE EAST LINES OF SECTIONS 19, 18, 7, AND 6, TOWNSHIP 9 NORTH, RANGE 27 WEST, S.B.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 6;

THENCE CONTINUING NORTHERLY ALONG THE EAST LINES OF SECTIONS 31, 30, 19, AND 18, TOWNSHIP 10 NORTH, RANGE 27 WEST, S.B.B.&M, TO THE NORTHEAST CORNER OF SAID SECTION 18;

THENCE NORTHERLY IN A STRAIGHT LINE TO THE INTERSECTION OF THE NORTHERLY LINE OF RANCHO CUYAMA CESARIO LATAILADE AND THE EAST LINE OF SECTION 25, TOWNSHIP 11 NORTH, RANGE 28 WEST, S.B.B.&M.;

THENCE NORTHERLY ALONG THE WEST LINES OF SECTIONS 25, 24, 13, 12, AND 1, TOWNSHIP 11 NORTH, RANGE 28 WEST, S.B.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 1;

THENCE CONTINUING NORTHERLY ALONG THE WEST LINE OF SECTION 36, TOWNSHIP 12 NORTH, RANGE 28 WEST, S.B.B.&M. TO THE NORTHEAST CORNER OF SAID SECTION 36;

THENCE WESTERLY ALONG THE NORTH LINE OF SAID SECTION 36 TO THE SOUTHEAST CORNER OF SECTION 34, TOWNSHIP 32 SOUTH, RANGE 20 EAST, M.D.B.&M.;

THENCE NORTHERLY ALONG THE EAST LINES OF SECTIONS 34, 27, 22, 15, 10, AND 3, TOWNSHIP 32 SOUTH, RANGE 20 EAST, M.D.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 3;

THENCE CONTINUING NORTHERLY ALONG THE EAST LINES OF SECTIONS 34, 27, 22, 15, 10, AND 3, TOWNSHIP 31 SOUTH, RANGE 20 EAST, M.D.B.&M. TO THE NORTHEAST CORNER OF SAID SECTION 3, SAID CORNER BEING A POINT IN THE BOUNDARY OF SAN LUIS OBISPO AND KERN COUNTIES.

NORTH L.A. BASIN LOCAL SERVICE ZONE

THOSE PORTIONS LOS ANGELES AND ORANGE COUNTIES MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE CENTERLINE OF INTERSTATE HIGHWAY 5 AND THE CENTERLINE OF SOUTHERN CALIFORNIA GAS CO.(SCG) TRANSMISSION LINE 3000;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF SCG TRANSMISSION LINE 3000 TO THE CENTERLINE OF SCG TRANSMISSION LINE NO. 235;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF SCG TRANSMISSION LINE NO. 235 TO A POINT IN THE CENTERLINE OF GOLDEN VALLEY RD;

THENCE EASTERLY ALONG THE CENTERLINE OF GOLDEN VALLEY RD TO A POINT IN THE CENTERLINE OF SIERRA HIGHWAY;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF SIERRA HIGHWAY TO A POINT IN THE CENTERLINE OF PLACERITA CANYON RD;

THENCE EASTERLY ALONG THE CENTERLINE OF PLACERITA CANYON RD TO A POINT IN THE CENTERLINE OF SAND CANYON RD;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF SAND CANYON RD (CHANGES NAME TO LITTLE TUJUNGA RD) TO A POINT IN THE NORTH LINE OF SECTION 33, TOWNSHIP 3 NORTH, RANGE 14 WEST, S.B.B.&M.;

THENCE EASTERLY ALONG THE NORTH LINES OF SECTIONS 33, 34, 35 AND 36, TOWNSHIP 3 NORTH, RANGE 14 WEST, S.B.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 36;

THENCE NORTHERLY ALONG THE WEST LINE OF SECTION 31, TOWNSHIP 3 NORTH, RANGE 13 WEST, S.B.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 31;

THENCE EASTERLY ALONG THE NORTH LINES OF SECTIONS 31 AND 32, TOWNSHIP 3 NORTH, RANGE 13 WEST, S.B.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 32;

THENCE SOUTHERLY ALONG THE EAST LINE OF SAID SECTION 32 TO A POINT IN THE CENTERLINE OF BIG TUJUNGA RD;

THENCE EASTERLY ALONG THE CENTERLINE OF BIG TUJUNGA RD TO A POINT IN THE CENTERLINE OF ANGELES FOREST HWY;

THENCE SOUTHWESTERLY AND SOUTHEASTERLY ALONG THE CENTERLINE OF ANGELES FOREST HWY TO A POINT IN THE CENTERLINE OF STATE HWY 2 (ANGELES CREST HWY);

THENCE EASTERLY ALONG THE CENTERLINE OF STATE HWY 2 TO A POINT IN THE NORTH LINE OF SECTION 2, TOWNSHIP 2 NORTH, RANGE 11 WEST, S.B.B.&M.;

THENCE EASTERLY ALONG THE NORTH LINES OF SECTIONS 2 AND 1, TOWNSHIP 2 NORTH, RANGE 11 WEST, S.B.B.&M.;

THENCE CONTINUING EASTERLY ALONG THE NORTH LINE OF SECTION 6, TOWNSHIP 2 NORTH, RANGE 10 WEST, S.B.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 6;

THENCE SOUTHERLY ALONG THE EAST LINES OF SECTIONS 6, 7, 18, 19, 30, AND 31, TOWNSHIP 2 NORTH, RANGE 10 WEST, S.B.B.&M. , TO THE SOUTHEAST CORNER OF SAID SECTION 31;

THENCE CONTINUING SOUTHERLY ALONG THE EAST LINES OF SECTIONS 6 AND 7, TOWNSHIP 1 NORTH, RANGE 10 WEST, S.B.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 7;

THENCE EASTERLY ALONG THE SOUTH LINE OF SECTION 8, TOWNSHIP 1 NORTH, RANGE 10 WEST, S.B.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 8;

THENCE SOUTHERLY ALONG THE WEST LINE OF SECTION 16, TOWNSHIP 1 NORTH, RANGE 10 WEST, S.B.B.&M., TO THE SOUTHWEST CORNER OF SAID SECTION 16;

THENCE WESTERLY ALONG THE SOUTH LINES OF SECTIONS 17 AND 18, TOWNSHIP 1 NORTH, RANGE 10 WEST, S.B.B.&M., TO THE SOUTHWEST CORNER OF SAID SECTION 18, SAID CORNER BEING A POINT IN THE CORPORATE BOUNDARY OF THE CITY OF BRADBURY;

THENCE SOUTHERLY ALONG THE CORPORATE BOUNDARY OF THE CITY OF BRADBURY TO A POINT IN THE CORPORATE BOUNDARY OF THE CITY OF DUARTE;

THENCE WESTERLY AND SOUTHERLY ALONG THE CORPORATE BOUNDARY OF THE CITY OF DUARTE TO A POINT IN THE CORPORATE BOUNDARY OF THE CITY OF IRWINDALE;

THENCE SOUTHERLY ALONG THE CORPORATE BOUNDARY OF THE CITY OF IRWINDALE TO A POINT IN THE CORPORATE BOUNDARY OF THE CITY OF BALDWIN PARK;

THENCE SOUTHERLY AND EASTERLY ALONG THE CORPORATE BOUNDARY OF THE CITY OF BALDWIN PARK TO A POINT AT THE INTERSECTION OF THE SOUTHEASTERLY CORPORATE BOUNDARY OF THE CITY OF BALDWIN PARK AND THE CENTERLINE OF INTERSTATE HWY 10 (SAN BERNARDINO FWY);

THENCE EASTERLY ALONG THE CENTERLINE OF INTERSTATE HIGHWAY 10 TO A POINT IN THE CENTERLINE OF VINCENT AVE;

THENCE SOUTHERLY ALONG THE CENTERLINE OF VINCENT AVE TO A POINT IN THE CENTERLINE OF COVINA PKWY;

THENCE WESTERLY ALONG THE CENTERLINE OF COVINA PKWY TO A POINT IN THE CENTERLINE OF CALIFORNIA AVE;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF CALIFORNIA AVE TO A POINT IN THE CENTERLINE OF VALLEY BL;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF VALLEY BL TO A POINT IN THE CENTERLINE OF 9TH AVE;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF 9TH AVE TO A POINT IN THE CENTERLINE OF DON JULIAN RD;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF DON JULIAN RD TO A POINT IN THE CENTERLINE OF TURNBULL CANYON RD;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF TURNBULL CANYON RD TO A POINT IN THE CENTERLINE OF VALLECITO DR;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF VALLECITO DR TO A POINT IN THE CENTERLINE OF LAS LOMITAS DR;

THENCE WESTERLY ALONG THE CENTERLINE OF LAS LOMITAS DR TO A POINT IN THE CENTERLINE OF TURNBULL CANYON RD;

THENCE WESTERLY ALONG THE CENTERLINE OF TURNBULL CANYON RD TO A POINT IN THE CORPORATE BOUNDARY OF THE CITY OF HACIENDA HEIGHTS;

THENCE SOUTHERLY AND EASTERLY ALONG SAID CORPORATE BOUNDARY TO A POINT IN THE CENTERLINE OF HACIENDA BL;

THENCE SOUTHERLY ALONG THE CENTERLINE OF HACIENDA BL TO A POINT IN THE BOUNDARY BETWEEN LOS ANGELES AND ORANGE COUNTIES;

THENCE EASTERLY ALONG THE BOUNDARY OF ORANGE AND LOS ANGELES COUNTIES TO A POINT IN THE CENTERLINE OF STATE HWY 57 (ORANGE FWY);

THENCE SOUTHERLY ALONG THE CENTERLINE OF STATE HWY 57 TO A POINT IN THE CENTERLINE OF THE PACIFIC ELECTRIC RAILWAY;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF THE PACIFIC ELECTRIC RAILWAY TO A POINT IN THE CENTERLINE OF BIRCH ST;

THENCE EASTERLY ALONG THE CENTERLINE OF BIRCH ST TO A POINT IN THE EAST LINE OF SECTION 13, TOWNSHIP 3 SOUTH, RANGE 10 WEST, S.B.B.&M.;

THENCE SOUTHERLY ALONG SAID EAST LINE OF SECTION 13 TO A POINT IN THE CENTERLINE OF IMPERIAL HWY;

THENCE WESTERLY ALONG THE CENTERLINE OF IMPERIAL HWY AND THE WESTERLY PROLONGATION OF IT'S MOST WESTERLY COURSE TO THE MEAN HIGH TIDE LINE OF THE PACIFIC OCEAN;

THENCE NORTHWESTERLY ALONG THE MEAN HIGH TIDE LINE OF THE PACIFIC OCEAN TO A POINT IN THE SOUTHERLY PROLONGATION OF THE MOST SOUTHERLY COURSE OF STATE HIGHWAY 27 (TOPANGA CANYON BL);

THENCE NORTHERLY ALONG THE CENTERLINE OF STATE HWY 27 TO A POINT IN THE CENTERLINE OF OLD TOPANGA CANYON RD;

THENCE NORTHWESTERLY AND NORTHERLY ALONG THE CENTERLINE OF OLD TOPANGA CANYON RD TO A POINT IN THE CENTERLINE OF MULHOLLAND HWY;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF MULHOLLAND HWY TO A POINT IN THE CENTERLINE OF OLD TOPANGA CANYON RD;

THENCE NORTHERLY ALONG THE CENTERLINE OF OLD TOPANGA CANYON RD (CHANGES NAME TO VALMAR RD) TO A POINT IN THE CENTERLINE OF MULHOLLAND DR;

THENCE NORTHWESTERLY AND NORTHERLY ALONG THE CENTERLINE OF MULHOLLAND DR (CHANGES NAME TO VALLEY CIRCLE BL) TO A POINT IN THE CENTERLINE OF VICTORY BL;

THENCE WESTERLY ALONG THE CENTERLINE OF VICTORY BL TO A POINT IN THE BOUNDARY OF LOS ANGELES AND VENTURA COUNTIES;

THENCE NORTHERLY ALONG THE BOUNDARY OF LOS ANGELES AND VENTURA COUNTIES TO A POINT IN THE WESTERLY PROLONGATION OF THE NORTH LINE OF SECTION 26, TOWNSHIP 3 NORTH, RANGE 17 WEST , S.B.B.&M.;

THENCE EASTERLY ALONG SAID PROLONGATION OF THE NORTH LINE OF SAID SECTION 26 TO A POINT IN THE EAST LINE OF RANCHO SIMI;

THENCE CONTINUING EASTERLY ALONG THE NORTH LINES OF SECTIONS 26 AND 25, TOWNSHIP 3 NORTH, RANGE 17 WEST , S.B.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 25;

THENCE NORTHERLY ALONG THE WEST LINE OF SECTION 30, TOWNSHIP 3 NORTH, RANGE 16 WEST , S.B.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 30;

THENCE EASTERLY ALONG THE NORTH LINES OF SECTIONS 30, 29, 28, 27, AND 26, TOWNSHIP 3 NORTH, RANGE 16 WEST , S.B.B.&M., TO A POINT IN THE NORTH LINE OF RANCHO EX MISSION DE SAN FERNANDO;

THENCE NORTHEASTERLY ALONG THE NORTH LINE OF RANCHO EX MISSION DE SAN FERNANDO TO A POINT IN THE CENTERLINE OF INTERSTATE HIGHWAY 5;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF INTERSTATE HIGHWAY 5 TO THE POINT OF BEGINNING.

NORTH VALLEY LOCAL SERVICE ZONE

THOSE PORTIONS OF FRESNO, TULARE, KINGS, AND KERN COUNTIES MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FRESNO COUNTY PORTION

THAT PORTION OF FRESNO COUNTY LYING SOUTH OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE INTERSECTION OF THE BOUNDARY BETWEEN INYO AND FRESNO COUNTIES AND THE NORTH LINE OF SECTION 3, TOWNSHIP 13 SOUTH, RANGE 33 EAST, M.D.B.&M.;

THENCE WESTERLY ALONG THE NORTH LINES OF SECTIONS 3, 4, 5, AND 6, TOWNSHIP 13 SOUTH, RANGE 33 EAST, M.D.B.&M, TO THE NORTHWEST CORNER OF SAID SECTION 6;

THENCE SOUTHERLY ALONG THE WEST LINE OF SAID SECTION 6 TO THE NORTHEAST CORNER OF SECTION 1, TOWNSHIP 13 SOUTH, RANGE 32 EAST, M.D.B.&M.;

THENCE WESTERLY ALONG THE NORTH LINES OF SECTIONS 1, 2, 3, 4, 5, AND 6, TOWNSHIP 13 SOUTH, RANGE 32 EAST, M.D.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 6;

THENCE CONTINUING WESTERLY ALONG THE NORTH LINES OF SECTIONS 1, 2, 3, 4, 5, AND 6, TOWNSHIP 13 SOUTH, RANGE 31 EAST, M.D.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 6;

THENCE CONTINUING WESTERLY ALONG THE NORTH LINES OF SECTIONS 1, 2, 3, 4, 5, AND 6, TOWNSHIP 13 SOUTH, RANGE 30 EAST, M.D.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 6;

THENCE CONTINUING WESTERLY ALONG THE NORTH LINES OF SECTIONS 1, 2, 3, 4, 5, AND 6, TOWNSHIP 13 SOUTH, RANGE 29 EAST, M.D.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 6;

THENCE CONTINUING WESTERLY ALONG THE NORTH LINES OF SECTIONS 1, 2, 3, 4, 5, AND 6, TOWNSHIP 13 SOUTH, RANGE 28 EAST, M.D.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 6;

THENCE CONTINUING WESTERLY ALONG THE NORTH LINES OF SECTIONS 1, 2, 3, 4, 5, AND 6, TOWNSHIP 13 SOUTH, RANGE 27 EAST, M.D.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 6;

THENCE CONTINUING WESTERLY ALONG THE NORTH LINES OF SECTIONS 1, 2, 3, 4, 5, AND 6, TOWNSHIP 13 SOUTH, RANGE 26 EAST, M.D.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 6;

THENCE CONTINUING WESTERLY ALONG THE NORTH LINES OF SECTIONS 1, 2, 3, 4, 5, AND 6, TOWNSHIP 13 SOUTH, RANGE 25 EAST, M.D.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 6;

THENCE SOUTHERLY AND WESTERLY ALONG THE TERRITORIAL BOUNDARY BETWEEN SOUTHERN CALIFORNIA GAS CO. AND PACIFIC GAS AND ELECTRIC COMPANY DESCRIBED IN CALIFORNIA P.U.C. SHEET NUMBERS 40428-G, 40429-G, 40430-G, 40431-G AND 40432-G TO A POINT IN THE BOUNDARY OF FRESNO AND KINGS COUNTIES;

KINGS COUNTY PORTION

THAT PORTION OF KINGS COUNTY LYING NORTH OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE INTERSECTION OF THE CENTERLINE OF INTERSTATE HIGHWAY 5 AND THE BOUNDARY OF KINGS AND FRESNO COUNTIES;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF INTERSTATE HIGHWAY 5 TO A POINT IN THE SOUTH LINE OF SECTION 31, TOWNSHIP 21 SOUTH, RANGE 18 EAST, M.D.B.&M.;

THENCE EASTERLY ALONG THE SOUTH LINES OF SECTIONS 31, 32, 33, 34, 35, AND 36, TOWNSHIP 21 SOUTH, RANGE 18 EAST, M.D.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 36;

THENCE CONTINUING EASTERLY ALONG THE SOUTH LINES OF SECTIONS 31, 32, 33, 34, 35, AND 36, TOWNSHIP 21 SOUTH, RANGE 19 EAST, M.D.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 36;

THENCE CONTINUING EASTERLY ALONG THE SOUTH LINES OF SECTIONS 31, 32, 33, 34, 35, AND 36, TOWNSHIP 21 SOUTH, RANGE 20 EAST, M.D.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 36;

THENCE CONTINUING EASTERLY ALONG THE SOUTH LINES OF SECTIONS 31, 32, 33, 34, 35, AND 36, TOWNSHIP 21 SOUTH, RANGE 21 EAST, M.D.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 36;

THENCE SOUTHERLY ALONG THE WEST LINE OF SECTION 6, TOWNSHIP 22 SOUTH, RANGE 22 EAST, M.D.B.&M., TO A POINT IN THE SOUTH LINE OF THE

NORTH HALF OF SAID SECTION 6, TOWNSHIP 22 SOUTH, RANGE 22 EAST,
M.D.B.&M.;

THENCE EASTERLY ALONG THE SOUTH LINES OF THE NORTH HALVES OF
SECTIONS 6, 5, 4, 3, 2, AND 1, TOWNSHIP 22 SOUTH, RANGE 22 EAST, M.D.B.&M., TO
A POINT IN THE EAST LINE OF SAID SECTION 1, SAID POINT BEING A POINT IN
THE BOUNDARY BETWEEN KINGS AND TULARE COUNTIES;

TULARE COUNTY PORTION

ALL OF TULARE COUNTY

KERN COUNTY PORTION

BEGINNING AT THE INTERSECTION OF THE BOUNDARY OF KINGS AND KERN
COUNTIES WITH THE CENTERLINE OF INTERSTATE HIGHWAY 5;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF INTERSTATE HIGHWAY 5
TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 46;

THENCE WESTERLY ALONG THE CENTERLINE OF STATE HIGHWAY 46 TO A POINT
IN THE CENTERLINE OF ALOMA ST;

THENCE SOUTHERLY ALONG THE CENTERLINE OF ALOMA ST TO A POINT IN THE
CENTERLINE OF LAWTON ST;

THENCE EASTERLY ALONG THE CENTERLINE OF LAWTON ST AND IT'S
EASTERLY PROLONGATION TO A POINT IN THE EAST LINE OF SECTION 1,
TOWNSHIP 27 SOUTH, RANGE 21 EAST, M.D.B.&M.;

THENCE SOUTHERLY ALONG THE EAST LINE OF SAID SECTION 1 TO THE EAST
QUARTER CORNER OF SAID SECTION 1;

THENCE WESTERLY IN A STRAIGHT LINE TO THE WEST QUARTER CORNER OF
SAID SECTION 1;

THENCE SOUTHERLY ALONG THE WEST LINE OF SAID SECTION 1 TO THE
SOUTHWEST CORNER OF SAID SECTION 1;

THENCE WESTERLY ALONG THE SOUTH LINE OF SECTION 2, TOWNSHIP 27
SOUTH, RANGE 21 EAST, M.D.B.&M. TO THE CENTERLINE OF THE CALIFORNIA
AQUEDUCT;

THENCE SOUTHERLY AND SOUTHEASTERLY ALONG THE CENTERLINE OF THE CALIFORNIA AQUEDUCT TO A POINT IN THE NORTH LINE OF SECTION 31, TOWNSHIP 30 SOUTH, RANGE 25 EAST, M.D.B.&M.;

THENCE EASTERLY ALONG THE NORTH LINES OF SECTIONS 31, 32, AND 33, TOWNSHIP 30 SOUTH, RANGE 25 EAST, M.D.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 33;

THENCE NORTHERLY ALONG THE WEST LINE OF SECTION 27, TOWNSHIP 30 SOUTH, RANGE 25 EAST, M.D.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 27;

THENCE EASTERLY ALONG THE NORTH LINES OF SECTIONS 27 AND 26, TOWNSHIP 30 SOUTH, RANGE 25 EAST, M.D.B.&M., TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 43 (ENOS LN);

THENCE NORTHERLY ALONG THE CENTERLINE OF STATE HIGHWAY 43 TO THE WEST QUARTER CORNER OF SECTION 13, TOWNSHIP 29 SOUTH, RANGE 25 EAST, M.D.B.&M.;

THENCE EASTERLY IN A STRAIGHT LINE TO THE CENTER OF SAID SECTION 13;

THENCE NORTHERLY IN A STRAIGHT LINE TO THE NORTH QUARTER CORNER OF SAID SECTION 13;

THENCE ALONG THE NORTH LINE OF SAID SECTION 13 TO THE NORTHEAST CORNER OF SAID SECTION 13;

THENCE NORTHERLY ALONG THE WEST LINE OF SECTION 7, TOWNSHIP 29 SOUTH, RANGE 26 EAST, M.D.B.&M., TO THE WEST QUARTER CORNER OF SAID SECTION 7;

THENCE EASTERLY IN A STRAIGHT LINE TO THE EAST QUARTER CORNER OF SAID SECTION 7;

THENCE CONTINUING EASTERLY IN A STRAIGHT LINE TO THE CENTER OF SECTION 8, TOWNSHIP 29 SOUTH, RANGE 26 EAST, M.D.B.&M.;

THENCE NORTHERLY IN A STRAIGHT LINE TO THE NORTH QUARTER CORNER OF SAID SECTION 8;

THENCE EASTERLY ALONG THE NORTH LINE OF SAID SECTION 8 TO THE NORTHEAST CORNER OF SAID SECTION 8;

THENCE NORTHERLY ALONG THE WEST LINE OF SECTION 4, TOWNSHIP 29 SOUTH, RANGE 26 EAST, M.D.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 4;

THENCE EASTERLY ALONG THE NORTH LINES OF SECTIONS 4, 3, 2, AND 1, TOWNSHIP 29 SOUTH, RANGE 26 EAST, M.D.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 1;

THENCE CONTINUING EASTERLY ALONG THE NORTH LINE OF SECTION 6, TOWNSHIP 29 SOUTH, RANGE 27 EAST, M.D.B.&M., TO A POINT IN THE CENTERLINE OF THE FRIANT-KERN CANAL;

THENCE NORTHERLY ALONG THE CENTERLINE OF THE FRIANT-KERN CANAL TO A POINT IN THE NORTH LINE OF THE SOUTH HALF OF SECTION 25, TOWNSHIP 28 SOUTH, RANGE 26 EAST, M.D.B.&M.;

THENCE EASTERLY ALONG THE NORTH LINE OF THE SOUTH HALF OF SAID SECTION 25 TO A POINT IN THE EAST LINE OF SAID SECTION 25;

THENCE CONTINUING EASTERLY ALONG THE NORTH LINE OF THE SOUTH HALF OF SECTION 30, TOWNSHIP 28 SOUTH, RANGE 27 EAST, M.D.B.&M., TO A POINT IN THE CENTERLINE OF THE BEARDSLEY CANAL;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF THE BEARDSLEY CANAL TO A POINT IN THE NORTH LINE OF SAID SECTION 25, TOWNSHIP 28 SOUTH, RANGE 26 EAST, M.D.B.&M.;

THENCE EASTERLY ALONG THE NORTH LINE OF SAID SECTION 25 TO THE NORTHEAST CORNER OF SAID SECTION 25;

THENCE CONTINUING EASTERLY ALONG THE NORTH LINES OF SECTIONS 30, 29, AND 28, TOWNSHIP 28 SOUTH, RANGE 27 EAST, M.D.B.&M., TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 65;

THENCE NORTHERLY ALONG THE CENTERLINE OF STATE HIGHWAY 65 TO A POINT IN THE BOUNDARY OF KERN AND TULARE COUNTIES;

THENCE WESTERLY ALONG THE NORTH BOUNDARY OF KERN COUNTY TO THE POINT OF BEGINNING.

NORTHERN LOCAL SERVICE ZONE

THOSE PORTIONS OF KERN, LOS ANGELES , SAN BERNARDINO, ORANGE, AND RIVERSIDE COUNTIES, DESCRIBED AS FOLLOWS:

KERN COUNTY PORTION

THAT PORTION KERN COUNTY LYING SOUTHEAST OF A LINE DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF SECTION 36, TOWNSHIP 30 SOUTH, RANGE 40 EAST, M.D.B.&M., SAID CORNER BEING A POINT IN THE BOUNDARY OF KERN AND SAN BERNARDINO COUNTIES;

THENCE WESTERLY ALONG THE SOUTH LINES OF SECTIONS 36, 35, 34, 33, 32, AND 31, TOWNSHIP 30 SOUTH, RANGE 40 EAST, M.D.B.&M. TO THE SOUTHWEST CORNER OF SAID SECTION 31;

THENCE CONTINUING WESTERLY ALONG THE SOUTH LINES OF SECTIONS 36, 35, 34, 33, 32, AND 31, TOWNSHIP 30 SOUTH, RANGE 39 EAST, M.D.B.&M., TO THE SOUTHWEST CORNER OF SAID SECTION 31;

THENCE CONTINUING WESTERLY ALONG THE SOUTH LINES OF SECTIONS 36, 35, 34, 33, 32, AND 31, TOWNSHIP 30 SOUTH, RANGE 38 EAST, M.D.B.&M. ,TO THE SOUTHWEST CORNER OF SAID SECTION 31;

THENCE CONTINUING WESTERLY ALONG THE SOUTH LINES OF SECTIONS 36, 35, 34, 33, 32, TOWNSHIP 30 SOUTH, RANGE 37 EAST, M.D.B.&M., TO THE CENTERLINE OF STATE HIGHWAY 14;

THENCE SOUTHERLY ALONG THE CENTERLINE OF STATE HIGHWAY 14 TO A POINT IN THE CENTERLINE OF CALIFORNIA CITY BL;

THENCE WESTERLY ALONG THE CENTERLINE OF CALIFORNIA CITY BL (CHANGES NAME TO RANDBURG CUTOFF RD) TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 58;

THENCE WESTERLY ALONG THE CENTERLINE OF STATE HIGHWAY 58 TO A POINT IN THE CENTERLINE OF CAMERON CANYON RD;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF CAMERON CANYON RD TO A POINT IN THE CENTERLINE OF TEHACHAPI WILLOW SPRINGS RD;

THENCE SOUTHERLY ALONG THE CENTERLINE OF TEHACHAPI WILLOW SPRINGS RD TO A POINT IN THE CENTERLINE OF THE LOS ANGELES AQUEDUCT;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF THE LOS ANGELES AQUEDUCT TO A POINT IN THE WEST LINE OF SECTION 1, TOWNSHIP 9 NORTH, RANGE 15 WEST, S.B.B.&M.;

THENCE SOUTHERLY ALONG THE WEST LINES OF SECTIONS 1, 12, 13, 24, 25, AND 36, TOWNSHIP 9 NORTH, RANGE 15 WEST, S.B.B.&M., TO THE SOUTHWEST CORNER OF SAID SECTION 36, SAID CORNER BEING A POINT IN THE BOUNDARY OF KERN AND LOS ANGELES COUNTIES.

LOS ANGELES COUNTY PORTION

THAT PORTION OF LOS ANGELES COUNTY THAT LIES EAST AND NORTH OF A LINE DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF SECTION 2, TOWNSHIP 8 NORTH, RANGE 15 WEST, S.B.B.&M., SAID CORNER BEING A POINT IN THE BOUNDARY OF LOS ANGELES AND KERN COUNTIES;

THENCE SOUTHERLY ALONG THE WEST LINES OF SECTIONS 2, 11, 14, 23, 26, AND 35, TOWNSHIP 8 NORTH, RANGE 15 WEST, S.B.B.&M., TO THE SOUTHWEST CORNER OF SAID SECTION 35;

THENCE SOUTHERLY ALONG THE WEST LINES OF SECTIONS 2, 11, 14, AND 23, TOWNSHIP 7 NORTH, RANGE 15 WEST, S.B.B.&M., TO A POINT IN THE CENTERLINE OF PINE CANYON RD;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF PINE CANYON RD (CHANGES NAME TO ELIZABETH LAKE RD) TO A POINT IN THE CENTERLINE OF SAN FRANCISQUITO CANYON RD;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF SAN FRANCISQUITO CANYON RD TO A POINT IN THE CENTERLINE OF COPPER HILL DR;

THENCE EASTERLY ALONG THE CENTERLINE OF COPPER HILL DR TO A POINT IN THE CENTERLINE OF SECO CANYON RD;

THENCE SOUTHERLY ALONG THE CENTERLINE OF SECO CANYON DR TO A POINT IN THE CENTERLINE OF BOUQUET CANYON RD;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF BOUQUET CANYON RD TO A POINT IN THE CENTERLINE OF NEWHALL RANCH RD;

THENCE EASTERLY AND SOUTHERLY ALONG THE CENTERLINE OF NEWHALL RANCH RD (CHANGES NAME TO GOLDEN VALLEY RD) TO A POINT IN THE CENTERLINE OF SIERRA HIGHWAY;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF SIERRA HIGHWAY TO A POINT IN THE CENTERLINE OF PLACERITA CANYON RD;

THENCE EASTERLY ALONG THE CENTERLINE OF PLACERITA CANYON RD TO A POINT IN THE CENTERLINE OF SAND CANYON RD;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF SAND CANYON RD (CHANGES NAME TO LITTLE TUJUNGA RD) TO A POINT IN THE NORTH LINE OF SECTION 33, TOWNSHIP 3 NORTH, RANGE 14 WEST, S.B.B.&M.;

THENCE EASTERLY ALONG THE NORTH LINES OF SECTIONS 33, 34, 35 AND 36, TOWNSHIP 3 NORTH, RANGE 14 WEST, S.B.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 36;

THENCE NORTHERLY ALONG THE WEST LINE OF SECTION 31, TOWNSHIP 3 NORTH, RANGE 13 WEST, S.B.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 31;

THENCE EASTERLY ALONG THE NORTH LINES OF SECTIONS 31 AND 32, TOWNSHIP 3 NORTH, RANGE 13 WEST, S.B.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 32;

THENCE SOUTHERLY ALONG THE EAST LINE OF SAID SECTION 32 TO A POINT IN THE CENTERLINE OF BIG TUJUNGA RD;

THENCE EASTERLY ALONG THE CENTERLINE OF BIG TUJUNGA RD TO A POINT IN THE CENTERLINE OF ANGELES FOREST HWY;

THENCE SOUTHWESTERLY AND SOUTHEASTERLY ALONG THE CENTERLINE OF ANGELES FOREST HWY TO A POINT IN THE CENTERLINE OF STATE HWY 2 (ANGELES CREST HWY);

THENCE EASTERLY ALONG THE CENTERLINE OF STATE HWY 2 TO A POINT IN THE NORTH LINE OF SECTION 2, TOWNSHIP 2 NORTH, RANGE 11 WEST, S.B.B.&M.;

THENCE EASTERLY ALONG THE NORTH LINES OF SECTIONS 2 AND 1, TOWNSHIP 2 NORTH, RANGE 11 WEST, S.B.B.&M.;

THENCE CONTINUING EASTERLY ALONG THE NORTH LINE OF SECTION 6, TOWNSHIP 2 NORTH, RANGE 10 WEST, S.B.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 6;

THENCE SOUTHERLY ALONG THE EAST LINES OF SECTIONS 6, 7, 18, 19, 30, AND 31, TOWNSHIP 2 NORTH, RANGE 10 WEST, S.B.B.&M. , TO THE SOUTHEAST CORNER OF SAID SECTION 31;

THENCE CONTINUING SOUTHERLY ALONG THE EAST LINES OF SECTIONS 6 AND 7, TOWNSHIP 1 NORTH, RANGE 10 WEST, S.B.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 7;

THENCE EASTERLY ALONG THE SOUTH LINE OF SECTION 8, TOWNSHIP 1 NORTH, RANGE 10 WEST, S.B.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 8;

THENCE SOUTHERLY ALONG THE WEST LINE OF SECTION 16, TOWNSHIP 1 NORTH, RANGE 10 WEST, S.B.B.&M., TO THE SOUTHWEST CORNER OF SAID SECTION 16;

THENCE WESTERLY ALONG THE SOUTH LINES OF SECTIONS 17 AND 18, TOWNSHIP 1 NORTH, RANGE 10 WEST, S.B.B.&M., TO THE SOUTHWEST CORNER OF SAID SECTION 18, SAID CORNER BEING A POINT IN THE CORPORATE BOUNDARY OF THE CITY OF BRADBURY;

THENCE SOUTHERLY ALONG THE CORPORATE BOUNDARY OF THE CITY OF BRADBURY TO A POINT IN THE CORPORATE BOUNDARY OF THE CITY OF DUARTE;

THENCE WESTERLY AND SOUTHERLY ALONG THE CORPORATE BOUNDARY OF THE CITY OF DUARTE TO A POINT IN THE CORPORATE BOUNDARY OF THE CITY OF IRWINDALE;

THENCE SOUTHERLY ALONG THE CORPORATE BOUNDARY OF THE CITY OF IRWINDALE TO A POINT IN THE CORPORATE BOUNDARY OF THE CITY OF BALDWIN PARK;

THENCE SOUTHERLY AND EASTERLY ALONG THE CORPORATE BOUNDARY OF THE CITY OF BALDWIN PARK TO A POINT AT THE INTERSECTION OF THE SOUTHEASTERLY CORPORATE BOUNDARY OF THE CITY OF BALDWIN PARK AND THE CENTERLINE OF INTERSTATE HWY 10 (SAN BERNARDINO FWY);

THENCE EASTERLY ALONG THE CENTERLINE OF INTERSTATE HIGHWAY 10 TO A POINT IN THE CENTERLINE OF FAIRPLEX DRIVE;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF FAIRPLEX DR. TO THE MOST EASTERLY CENTERLINE INTERSECTION WITH MC KINLEY AVE;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF FAIRPLEX DR. TO THE MOST WESTERLY CENTERLINE INTERSECTION WITH MC KINLEY AVE;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF FAIRPLEX AVE TO A POINT IN THE CENTERLINE OF ARROW HWY;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF ARROW HWY (CHANGES NAME TO LA VERNE AVE) TO A POINT IN THE CENTERLINE OF GAREY AVE;

THENCE SOUTHERLY ALONG THE CENTERLINE OF GAREY AVE TO A POINT IN THE CENTERLINE OF INTERSTATE HWY 10;

THENCE EASTERLY ALONG THE CENTERLINE OF INTERSTATE HWY 10 TO A POINT IN THE BOUNDARY OF LOS ANGELES AND SAN BERNARDINO COUNTIES.

SAN BERNARDINO AND RIVERSIDE COUNTY PORTIONS

THOSE PORTIONS OF SAN BERNARDINO AND RIVERSIDE COUNTY THAT LIE NORTH OF A LINE DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE BOUNDARY BETWEEN SAN BERNARDINO AND LOS ANGELES COUNTIES AND THE CENTERLINE OF STATE HWY 60 (POMONA FWY);

THENCE EASTERLY ALONG THE CENTERLINE OF STATE HWY 60 TO A POINT IN THE CENTERLINE OF CENTRAL AVE;

THENCE SOUTHERLY ALONG THE CENTERLINE OF CENTRAL AVE TO A POINT IN THE CENTERLINE OF CHINO AVE;

THENCE WESTERLY ALONG THE CENTERLINE OF CHINO AVE TO A POINT IN THE CENTERLINE OF RAMONA AVE;

THENCE SOUTHERLY ALONG RAMONA AVE TO A POINT IN THE CENTERLINE OF CHINO HILLS PARKWAY;

THENCE WESTERLY ALONG THE CENTERLINE OF CHINO HILLS PARKWAY TO A POINT IN THE CENTERLINE OF ROLLING RIDGE DR;

THENCE SOUTHERLY ALONG THE CENTERLINE OF ROLLING RIDGE DR TO A POINT IN THE CENTERLINE OF BAYBERRY DR;

THENCE EASTERLY ALONG THE CENTERLINE OF BAYBERRY DR TO A POINT IN A LINE 1000 FEET OFFSET TO THE NORTHWEST FROM SOUTHERN CALIFORNIA GAS COMPANY TRANSMISSION LINE NO. 4000;

THENCE SOUTHWESTERLY ALONG SAID OFFSET LINE TO A POINT IN THE BOUNDARY OF SAN BERNARDINO AND ORANGE COUNTIES;

THENCE SOUTHEASTERLY ALONG THE BOUNDARY OF SAN BERNARDINO AND ORANGE COUNTIES TO A POINT IN A LINE 1000 FEET OFFSET TO THE SOUTHEAST FROM SOUTHERN CALIFORNIA GAS COMPANY TRANSMISSION LINE NO. 4002;

THENCE NORTHEASTERLY ALONG SAID OFFSET LINE TO A POINT IN THE SOUTH LINE OF THE NORTHEAST QUARTER OF SECTION 23, TOWNSHIP 2 SOUTH, RANGE 8 WEST, S.B.B.&M.;

THENCE EASTERLY ALONG THE SOUTH LINE OF SAID NORTHEAST QUARTER OF SECTION 23 TO THE EAST QUARTER CORNER OF SAID SECTION 23;

THENCE NORTHERLY ALONG THE EAST LINE OF SAID NORTHEAST QUARTER OF SECTION 23 TO THE NORTHEAST CORNER OF SAID SECTION 23;

THENCE EASTERLY ALONG THE NORTH LINE OF SECTION 24, TOWNSHIP 2 SOUTH, RANGE 8 WEST, S.B.B.&M., TO A POINT IN A WEST LINE OF PARCEL 2 OF PARCEL MAP NO. 16441 IN THE CITY OF CHINO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 206, OF PARCEL MAPS, PAGES 23 THROUGH 28, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE NORTHWESTERLY ALONG THE WEST LINES OF SAID PARCEL 2 TO A POINT IN THE CENTERLINE OF COLLEGE PARK AVE;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF COLLEGE PARK AVE TO A POINT IN THE CENTERLINE OF EUCALYPTUS AVE;

THENCE SOUTHEASTERLY AND EASTERLY ALONG THE CENTERLINE OF EUCALYPTUS AVE TO A POINT IN THE CENTERLINE OF GROVE AVE;

THENCE NORTHERLY ALONG THE CENTERLINE OF GROVE AVE TO A POINT IN THE CENTERLINE OF EDISON AVE;

THENCE EASTERLY ALONG THE CENTERLINE OF EDISON AVE TO A POINT IN THE CENTERLINE OF MILLIKEN AVE;

THENCE NORTHERLY ALONG THE CENTERLINE OF MILLIKEN AVE TO A POINT IN THE CENTERLINE OF CANTU GALLEANO RANCH RD;

THENCE EASTERLY ALONG THE CENTERLINE OF CANTU GALLEANO RANCH RD TO A POINT IN THE CENTERLINE OF INTERSTATE HWY 15;

THENCE NORTHERLY ALONG THE CENTERLINE OF INTERSTATE HWY 15 TO A POINT IN THE BOUNDARY OF RIVERSIDE AND SAN BERNARDINO COUNTIES;

THENCE EASTERLY ALONG THE BOUNDARY OF RIVERSIDE AND SAN BERNARDINO COUNTIES TO A POINT IN THE CENTERLINE OF LIVE OAK CANYON RD;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF LIVE OAK CANYON RD TO A POINT IN THE CENTERLINE OF INTERSTATE HWY 10;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF INTERSTATE 10 TO A POINT IN THE BOUNDARY OF RIVERSIDE AND SAN BERNARDINO COUNTIES;

THENCE EASTERLY ALONG THE BOUNDARY OF RIVERSIDE AND SAN BERNARDINO COUNTIES TO A POINT IN THE CENTERLINE OF STATE HWY 62 (TWENTYNINE PALMS HWY);

THENCE EASTERLY ALONG THE CENTERLINE OF STATE HWY 62 TO A POINT IN THE BOUNDARY BETWEEN THE STATES OF CALIFORNIA AND ARIZONA.

ORANGE COUNTY PORTION

THAT PORTION OF ORANGE COUNTY DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE BOUNDARY BETWEEN ORANGE AND SAN BERNARDINO COUNTIES AND A LINE 1000 FEET OFFSET TO THE NORTHWEST FROM SOUTHERN CALIFORNIA GAS COMPANY TRANSMISSION LINE NO. 4000;

THENCE SOUTHWESTERLY ALONG SAID 1000 FOOT OFFSET LINE TO THE MOST NORTHERLY INTERSECTION OF THE CENTERLINE OF SAN ANTONIO RD AND SAID OFFSET LINE;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF SAN ANTONIO RD TO A POINT IN THE CENTERLINE OF ALDER AVE;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF ALDER AVE TO A POINT IN THE CENTERLINE OF VIA CORZO;

THENCE SOUTHERLY ALONG THE CENTERLINE OF VIA CORZO TO THE CENTERLINE OF THE EASEMENT TO METROPOLITAN WATER DISTRICT SHOWN ON TRACT MAP NO. 10043 IN THE CITY OF YORBA LINDA, COUNTY OF ORANGE,

STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 542, OF MISCELLANEOUS MAPS, PAGES 29 THROUGH 30, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY AND ALSO SHOWN ON TRACT MAP 10119 IN THE CITY OF YORBA LINDA, COUNTY OF ORANGE, STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 449, OF MISCELLANEOUS MAPS, PAGES 29 THROUGH 33, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY ;

THENCE WESTERLY ALONG THE CENTERLINE OF SAID EASEMENT TO METROPOLITAN WATER DISTRICT TO A POINT IN THE CENTERLINE OF AVE DE LOS ARBOLES;

THENCE SOUTHERLY ALONG THE CENTERLINE OF AVE DO LOS ARBOLES TO A POINT IN THE CENTERLINE OF VISTA DEL SOL;

THENCE WESTERLY ALONG THE CENTERLINE OF VISTA DEL SOL TO A POINT IN THE CENTERLINE OF AVE DE LAS ESTRELLAS;

THENCE SOUTHERLY ALONG THE CENTERLINE OF AVE DE LAS ESTRELLAS TO A POINT IN THE CENTERLINE OF YORBA LINDA BL;

THENCE WESTERLY ALONG THE CENTERLINE OF YORBA LINDA BL TO A POINT IN THE CENTERLINE OF VILLAGE CENTER DR;

THENCE SOUTHERLY ALONG THE CENTERLINE OF VILLAGE CENTER DR TO A POINT IN THE CENTERLINE OF VIA SANTA MARIA;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF VIA SANTA MARIA TO A POINT IN THE CENTERLINE OF LONGBAY DR;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF LONGBAY DR TO A POINT IN THE WESTERLY PROLONGATION OF THE NORTH LINE OF LOT 29 OF TRACT NO. 14696 IN THE CITY OF YORBA LINDA, COUNTY OF ORANGE , STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 735, OF MISCELLANEOUS MAPS, PAGES 10 AND 11, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE EASTERLY ALONG PROLONGATION AND SAID LINE TO THE NORTHEAST CORNER OF SAID LOT 29;

THENCE IN A STRAIGHT LINE TO THE NORTHWEST CORNER OF LOT 13 OF TRACT NO. 14695 IN THE CITY OF YORBA LINDA, COUNTY OF ORANGE , STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 748, OF MISCELLANEOUS MAPS, PAGES 49 AND 50, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE ALONG THE NORTH LINE OF SAID LOT 13 TO THE NORTHEAST CORNER OF SAID LOT 13;

THENCE IN A STRAIGHT LINE TO THE NORTH CORNER OF LOT 20 OF TRACT NO. 14690 IN THE CITY OF YORBA LINDA, COUNTY OF ORANGE , STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 735, OF MISCELLANEOUS MAPS, PAGES 8 AND 9, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE SOUTHWESTERLY ALONG THE NORTHEAST LINES OF SAID LOT 20 TO THE NORTH CORNER OF OF LOT 21 OF TRACT NO. 14689 IN THE CITY OF YORBA LINDA, COUNTY OF ORANGE , STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 735, OF MISCELLANEOUS MAPS, PAGES 5 THROUGH 7, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE SOUTHEASTERLY AND SOUTHERLY ALONG THE NORTHEAST AND EAST LINES OF SAID LOT 21 TO THE SOUTHEAST CORNER OF SAID LOT 21;

THENCE SOUTHERLY ALONG THE EAST LINES OF LOTS 20, 19, 18, 17, AND SOUTHERLY PROLONGATION OF EAST LINE LOT 17 OF SAID TRACT 14689 TO A POINT IN THE CENTERLINE OF ESPERANZA RD;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF ESPERANZA RD TO A POINT IN THE CENTERLINE OF YORBA RANCH RD;

THENCE NORTHERLY ALONG THE CENTERLINE OF YORBA RANCH RD (CHANGES NAME TO DORINDA RD) TO A POINT IN A LINE 1000 FEET OFFSET TO THE SOUTHEAST FROM SOUTHERN CALIFORNIA GAS COMPANY TRANSMISSION LINE NO. 4000;

THENCE NORTHEASTERLY ALONG SAID OFFSET LINE TO THE BOUNDARY BETWEEN ORANGE AND SAN BERNARDINO COUNTIES;

THENCE NORTHWESTERLY ALONG THE BOUNDARY OF ORANGE AND SAN BERNARDINO COUNTIES TO THE POINT OF BEGINNING.

SOUTH LOS ANGELES BASIN LOCAL SERVICE ZONE

THAT PORTION OF LOS ANGELES AND ORANGE COUNTIES THAT LIE SOUTH OF THE LINE DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF PROLONGATION OF THE CENTERLINE OF THE MOST WESTERLY COURSE OF IMPERIAL HWY AND THE MEAN HIGH TIDE LINE OF THE PACIFIC OCEAN;

THENCE EASTERLY TO THE WEST TERMINUS OF THE CENTERLINE OF THE MOST WESTERLY COURSE OF IMPERIAL HWY;

THENCE EASTERLY ALONG THE CENTERLINE OF IMPERIAL HWY TO A POINT IN THE CENTERLINE OF BASTANCHURY RD;

THENCE EASTERLY ALONG THE CENTERLINE OF BASTANCHURY RD TO A POINT IN THE CENTERLINE OF FAIRMONT BL;

THENCE NORTHERLY AND EASTERLY ALONG THE CENTERLINE OF FAIRMONT BL TO A POINT IN THE CENTERLINE OF VILLAGE CENTER DR;

THENCE SOUTHERLY ALONG THE CENTERLINE OF VILLAGE CENTER DR TO A POINT IN THE CENTERLINE OF VIA SANTA MARIA;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF VIA SANTA MARIA TO A POINT IN THE CENTERLINE OF LONGBAY DR;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF LONGBAY DR TO A POINT IN THE WESTERLY PROLONGATION OF THE NORTH LINE OF LOT 29 OF TRACT NO. 14696 IN THE CITY OF YORBA LINDA, COUNTY OF ORANGE , STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 735, OF MISCELLANEOUS MAPS, PAGES 10 AND 11, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE EASTERLY ALONG PROLONGATION AND SAID LINE TO THE NORTHEAST CORNER OF SAID LOT 29;

THENCE IN A STRAIGHT LINE TO THE NORTHWEST CORNER OF LOT 13 OF TRACT NO. 14695 IN THE CITY OF YORBA LINDA, COUNTY OF ORANGE , STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 748, OF MISCELLANEOUS MAPS, PAGES 49 AND 50, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE ALONG THE NORTH LINE OF SAID LOT 13 TO THE NORTHEAST CORNER OF SAID LOT 13;

THENCE IN A STRAIGHT LINE TO THE NORTH CORNER OF LOT 20 OF TRACT NO. 14690 IN THE CITY OF YORBA LINDA, COUNTY OF ORANGE , STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 735, OF MISCELLANEOUS MAPS, PAGES 8 AND 9, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE SOUTHWESTERLY ALONG THE NORTHEAST LINES OF SAID LOT 20 TO THE NORTH CORNER OF LOT 21 OF TRACT NO. 14689 IN THE CITY OF YORBA LINDA, COUNTY OF ORANGE , STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 735, OF MISCELLANEOUS MAPS, PAGES 5 THROUGH 7, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE SOUTHEASTERLY AND SOUTHERLY ALONG THE NORTHEAST AND EAST LINES OF SAID LOT 21 TO THE SOUTHEAST CORNER OF SAID LOT 21;

THENCE SOUTHERLY ALONG THE EAST LINES OF LOTS 20, 19, 18, 17, AND SOUTHERLY PROLONGATION OF EAST LINE LOT 17 OF SAID TRACT 14689 TO A POINT IN THE CENTERLINE OF ESPERANZA RD;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF ESPERANZA RD TO A POINT IN THE NORTHWESTERLY PROLONGATION OF THE SOUTHWEST LINE OF LOT 7 OF TRACT NO. 7471, IN THE CITY OF ANAHEIM, COUNTY OF ORANGE , STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 385, OF MISCELLANEOUS MAPS, PAGES 48 THROUGH 50, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE SOUTHEASTERLY ALONG SAID PROLONGATION OF SOUTHWEST LINE OF LOT 7 TO THE WEST CORNER OF SAID LOT 7;

THENCE CONTINUING SOUTHEASTERLY ALONG THE SOUTHWESTERLY LINES OF LOTS 7, 6, 5, 4, 3, 2, 1, AND SOUTHEASTERLY PROLONGATION OF SOUTHWEST LINE OF LOT 1, OF SAID TRACT NO. 7471, TO A POINT IN THE CENTERLINE OF WOODSBORO AVE;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF WOODSBORO AVE TO A POINT IN THE CENTERLINE OF EMOGENE ST;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF EMOGENE ST AND IT'S SOUTHEASTERLY PROLONGATION TO A POINT IN THE CENTERLINE OF STATE HWY 91;

THENCE ALONG THE CENTERLINE OF STATE HWY 91 TO A POINT IN THE BOUNDARY OF ORANGE AND RIVERSIDE COUNTIES.

SOUTHERN SYSTEM – EAST OF MORENO LOCAL SERVICE ZONE

THOSE PORTIONS OF IMPERIAL, RIVERSIDE, AND SAN BERNARDINO COUNTIES DESCRIBED AS FOLLOWS:

IMPERIAL COUNTY PORTION

ALL OF IMPERIAL COUNTY

RIVERSIDE COUNTY PORTION

THAT PORTION OF RIVERSIDE COUNTY LYING EAST OF THE LINE DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE BOUNDARY OF RIVERSIDE AND SAN DIEGO COUNTIES WITH THE CENTERLINE OF STATE HWY 79;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF STATE HWY 79 TO A POINT IN THE CENTERLINE OF SAGE RD;

THENCE NORTHERLY ALONG THE CENTERLINE OF SAGE RD TO A POINT IN THE WEST LINE OF SECTION 12, TOWNSHIP 6 SOUTH, RANGE 1 WEST, S.B.B.&M.;

THENCE NORTHERLY ALONG WEST LINES OF SECTIONS 12 AND 1, TOWNSHIP 6 SOUTH, RANGE 1 WEST, S.B.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 1;

THENCE NORTHERLY ALONG THE WEST LINES OF SECTIONS 36 AND 25, TOWNSHIP 5 SOUTH, RANGE 1 WEST, S.B.B.&M., TO SOUTHWEST CORNER OF THE NORTH HALF OF SAID SECTION 25;

THENCE EASTERLY ALONG THE SOUTH LINE OF SAID NORTH HALF OF SECTION 25 TO THE SOUTHEAST CORNER OF SAID SECTION 25;

THENCE CONTINUING EASTERLY ALONG THE SOUTH LINES OF THE NORTH HALVES OF SECTIONS 30, 29, 28, AND 27, TOWNSHIP 5 SOUTH, RANGE 1 EAST, S.B.B.&M., TO THE SOUTHEAST CORNER OF THE NORTH HALF OF SAID SECTION 27;

THENCE NORTHERLY ALONG THE EAST LINES OF SECTIONS 27, 22, AND 15, TOWNSHIP 5 SOUTH, RANGE 1 EAST, S.B.B.&M., TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 74;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF STATE HIGHWAY 74 TO A POINT IN THE EAST LINE OF LOT 50 OF THE FAIRVIEW TRACT, IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON THE MAP RECORDED IN SD BOOK 6, OF MAP BOOKS, PAGE 307, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE NORTHERLY ALONG THE EAST LINE OF SAID LOT 50 TO THE NORTHEAST CORNER OF SAID LOT 50;

THENCE NORTHWESTERLY AND WESTERLY ALONG THE NORTHEAST AND NORTH BOUNDARY OF SAID FAIRVIEW TRACT TO THE NORTHEAST CORNER OF TRACT X, R.S.J.V., AS SHOWN ON THE RECORD OF SURVEY MAP RECORDED IN BOOK 33, OF RECORDS OF SURVEY, PAGES 48 THROUGH 62 INCLUSIVE, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE ALONG THE NORTH LINE OF SAID TRACT X TO A POINT IN THE EAST LINE OF PARCEL 4020-135 AS SHOWN ON SAID RECORD OF SURVEY;

THENCE SOUTHERLY ALONG THE EAST LINE OF SAID PARCEL 4020-135 TO THE SOUTH CORNER OF SAID PARCEL 4020-135;

THENCE NORTHWESTERLY AND WESTERLY ALONG THE SOUTHWEST AND SOUTH LINES OF PARCELS 4020-135, 4020-134, 4020-132, 4020-130, 4020-128, 4020-129, 4020-127B, 4020-127A, 4020-126, 4020-123, 4020-124, 4020-121, 4020-117A, 4020-120B, 4020-116B, 4020-118, 4020-116A, 4020-111A, 4020-108A, 4020-103B, 4020-107D, 4020-107A, 4020-103A, 4020-106A, 4020-102, AND 4020-101A AS SHOWN ON SAID RECORD OF SURVEY (RIVERSIDE CO. BOOK33, PAGES 48-62) TO A POINT IN THE SOUTHEAST LINE OF PARCEL 1 OF PARCEL MAP 25415 IN THE CITY OF SAN JACINTO, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON THE MAP RECORDED IN BOOK 167, OF PARCEL MAPS, PAGES 26 THROUGH 28 INCLUSIVE, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE ALONG THE SOUTHEAST, SOUTHWEST, AND WEST LINES OF SAID PARCEL 1 TO THE NORTHWEST CORNER OF PARCEL 1;

THENCE NORTHERLY ALONG THE NORTHERLY PROLONGATION OF THE WEST LINE OF SAID PARCEL 1 TO A POINT IN THE CENTERLINE OF SOBOBA RD;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF SOBABA RD TO A POINT IN THE CENTERLINE OF GILMAN SPRINGS RD;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF GILLMAN SPRINGS RD TO A POINT IN THE CENTERLINE OF BOLD STYLE AVE;

THENCE WESTERLY ALONG THE CENTERLINE OF BOLD STYLE AVE TO A POINT IN THE CENTERLINE OF CASSALERIA AVE;

THENCE SOUTHERLY ALONG THE CENTERLINE OF CASSALERIA AVE TO A POINT IN THE CENTERLINE OF AIR FORBES AVE;

THENCE WESTERLY ALONG THE CENTERLINE OF AIR FORBES AVE TO A POINT IN THE CENTERLINE OF VIRGINIA ST;

THENCE NORTHERLY ALONG THE CENTERLINE OF VIRGINIA ST TO A POINT IN THE CENTERLINE OF GILLMAN SPRINGS RD;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF GILLMAN SPRINGS RD TO A POINT IN THE CENTERLINE OF STATE HWY 60 (MORENO VALLEY FWY);

THENCE WESTERLY ALONG THE CENTERLINE OF STATE HWY 60 TO A POINT IN THE WEST LINE OF THE EAST HALF OF SECTION 6, TOWNSHIP 3 SOUTH, RANGE 2 WEST, S.B.B.&M.;

THENCE NORTHERLY ALONG WEST LINE OF SAID EAST HALF OF SECTION 6 TO THE NORTHWEST CORNER OF SAID EAST HALF OF SECTION 6;

THENCE CONTINUING NORTHERLY ALONG THE WEST LINES OF THE EAST HALVES OF SECTIONS 31, 30, 19, AND 18, TOWNSHIP 2 SOUTH, RANGE 2 WEST, S.B.B.&M., TO A POINT IN THE BOUNDARY OF RIVERSIDE AND SAN BERNARDINO COUNTIES.

EXCEPT FOR THAT PORTION OF RIVERSIDE COUNTY LYING NORTH OF STATE HWY 62.

SAN BERNARDINO COUNTY PORTION

THAT PORTION OF SAN BERNARDINO COUNTY LYING SOUTH OF THE LINE DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE BOUNDARY OF RIVERSIDE AND SAN BERNARDINO COUNTIES WITH THE CENTERLINE OF LIVE OAK CANYON RD;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF LIVE OAK CANYON RD TO A POINT IN THE CENTERLINE OF INTERSTATE HWY 10;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF INTERSTATE HWY 10 TO A POINT IN THE BOUNDARY OF SAN BERNARDINO AND RIVERSIDE COUNTIES.

TOGETHER WITH THAT PORTION OF SAN BERNARDINO COUNTY LYING SOUTH OF STATE HWY 62.

SOUTHERN SYSTEM – SOUTH OF MORENO LOCAL SERVICE ZONE

ALL OF SAN DIEGO COUNTY AND THAT PORTION OF RIVERSIDE COUNTY DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE BOUNDARY OF RIVERSIDE AND SAN DIEGO COUNTIES WITH THE CENTERLINE OF STATE HWY 79;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF STATE HWY 79 TO A POINT IN THE CENTERLINE OF SAGE RD;

THENCE NORTHERLY ALONG THE CENTERLINE OF SAGE RD TO A POINT IN THE WEST LINE OF SECTION 12, TOWNSHIP 6 SOUTH, RANGE 1 WEST, S.B.B.&M.;

THENCE NORTHERLY ALONG WEST LINES OF SECTIONS 12 AND 1, TOWNSHIP 6 SOUTH, RANGE 1 WEST, S.B.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 1;

THENCE NORTHERLY ALONG THE WEST LINES OF SECTIONS 36 AND 25, TOWNSHIP 5 SOUTH, RANGE 1 WEST, S.B.B.&M., TO SOUTHWEST CORNER OF THE NORTH HALF OF SAID SECTION 25;

THENCE EASTERLY ALONG THE SOUTH LINE OF SAID NORTH HALF OF SECTION 25 TO THE SOUTHEAST CORNER OF SAID SECTION 25;

THENCE CONTINUING EASTERLY ALONG THE SOUTH LINES OF THE NORTH HALVES OF SECTIONS 30, 29, 28, AND 27, TOWNSHIP 5 SOUTH, RANGE 1 EAST, S.B.B.&M., TO THE SOUTHEAST CORNER OF THE NORTH HALF OF SAID SECTION 27;

THENCE NORTHERLY ALONG THE EAST LINES OF SECTIONS 27, 22, AND 15, TOWNSHIP 5 SOUTH, RANGE 1 EAST, S.B.B.&M., TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 74;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF STATE HIGHWAY 74 TO A POINT IN THE EAST LINE OF LOT 50 OF THE FAIRVIEW TRACT, IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON THE MAP RECORDED IN SD BOOK 6, OF MAP BOOKS, PAGE 307, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE NORTHERLY ALONG THE EAST LINE OF SAID LOT 50 TO THE NORTHEAST CORNER OF SAID LOT 50;

THENCE NORTHWESTERLY AND WESTERLY ALONG THE NORTHEAST AND NORTH BOUNDARY OF SAID FAIRVIEW TRACT TO THE NORTHEAST CORNER OF TRACT X, R.S.J.V., AS SHOWN ON THE RECORD OF SURVEY MAP RECORDED IN BOOK 33, OF RECORDS OF SURVEY, PAGES 48 THROUGH 62 INCLUSIVE, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE ALONG THE NORTH LINE OF SAID TRACT X TO A POINT IN THE EAST LINE OF PARCEL 4020-135 AS SHOWN ON SAID RECORD OF SURVEY;

THENCE SOUTHERLY ALONG THE EAST LINE OF SAID PARCEL 4020-135 TO THE SOUTH CORNER OF SAID PARCEL 4020-135;

THENCE NORTHWESTERLY ALONG THE SOUTHWEST AND SOUTH LINES OF PARCELS 4020-135, 4020-134, 4020-132, 4020-130, 4020-128, 4020-129, 4020-127B, 4020-127A, 4020-126, 4020-123, 4020-124, 4020-121, 4020-117A, 4020-120B, 4020-116B, 4020-118, 4020-116A, 4020-111A, 4020-108A, 4020-103B, 4020-107D, 4020-107A, 4020-103A, 4020-106A, 4020-102, AND 4020-101A AS SHOWN ON SAID RECORD OF SURVEY (RIVERSIDE CO. BOOK33, PAGES 48-62) TO A POINT IN THE SOUTHEAST LINE OF PARCEL 1 OF PARCEL MAP 25415 IN THE CITY OF SAN JACINTO, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON THE MAP RECORDED IN BOOK 167, OF PARCEL MAPS, PAGES 26 THROUGH 28 INCLUSIVE, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE ALONG THE SOUTHEAST, SOUTHWEST, AND WEST LINES OF SAID PARCEL 1 TO THE NORTHWEST CORNER OF PARCEL 1;

THENCE NORTHERLY ALONG THE NORTHERLY PROLONGATION OF THE WEST LINE OF SAID PARCEL 1 TO A POINT IN THE CENTERLINE OF SOBOBA RD;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF SOBABA RD TO A POINT IN THE CENTERLINE OF GILMAN SPRINGS RD;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF GILLMAN SPRINGS RD TO A POINT IN THE CENTERLINE OF BOLD STYLE AVE;

THENCE WESTERLY ALONG THE CENTERLINE OF BOLD STYLE AVE TO A POINT IN THE CENTERLINE OF CASSALERIA AVE;

THENCE SOUTHERLY ALONG THE CENTERLINE OF CASSALERIA AVE TO A POINT IN THE CENTERLINE OF AIR FORBES AVE;

THENCE WESTERLY ALONG THE CENTERLINE OF AIR FORBES AVE TO A POINT IN THE CENTERLINE OF DAVIS RD;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF DAVIS RD (CHANGES NAME TO THEODORE ST) TO A POINT IN THE CENTERLINE OF BRODIAEA AVE;

THENCE WESTERLY ALONG THE CENTERLINE OF BRODIAEA AVE TO A POINT IN THE CENTERLINE OF REDLANDS BL;

THENCE SOUTHERLY AND SOUTHWESTERLY ALONG THE CENTERLINE OF REDLANDS BL (CHANGES NAME TO JOHN F KENNEDY DR) TO A POINT IN THE CENTERLINE OF MORENO BEACH DR;

THENCE SOUTHWESTERLY AND WESTERLY ALONG THE CENTERLINE OF MORENO BEACH DR (CHANGES NAME TO IRIS AVE) TO A POINT IN THE CENTERLINE OF PERRIS BL;

THENCE SOUTHERLY ALONG THE CENTERLINE OF PERRIS BL TO A POINT IN THE CENTERLINE OF RAMONA EXPRESSWAY;

THENCE WESTERLY ALONG THE CENTERLINE OF RAMONA EXPRESSWAY (CHANGES NAME TO CAJALCO EXPRESSWAY) TO A POINT IN THE CENTERLINE OF CLARK ST;

THENCE SOUTHERLY ALONG THE CENTERLINE OF CLARK ST TO A POINT IN THE CENTERLINE OF RIDER ST;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF OLD ELSINORE RD TO A POINT IN THE NORTH LINE OF SECTION 26, TOWNSHIP 4 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE WESTERLY ALONG THE NORTH LINES OF SECTIONS 26, 27, AND 28, TOWNSHIP 4 SOUTH, RANGE 4 WEST, S.B.B.&M., TO A POINT IN THE CENTERLINE OF POST RD;

THENCE SOUTHERLY ALONG THE CENTERLINE OF POST RD TO A POINT IN THE NORTH LINE OF THE SOUTHEAST QUARTER OF SECTION 28, TOWNSHIP 4 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE WESTERLY ALONG SAID NORTH LINE OF THE SOUTHEAST QUARTER OF SECTION 28 TO THE NORTHWEST CORNER OF THE EAST HALF OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SAID SECTION 28;

THENCE SOUTHERLY ALONG THE WEST LINES OF THE EAST HALF OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SAID SECTION 28 AND THE EAST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SAID SECTION 28 TO A POINT IN THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 33, TOWNSHIP 4 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE WESTERLY ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 33 TO THE NORTH QUARTER CORNER OF SAID SECTION 33;

THENCE SOUTHERLY ALONG THE WEST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 33 TO THE NORTHEAST CORNER OF PARCEL 6(A) IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS DESCRIBED IN THE AFFIDAVIT RECORDED AS INSTRUMENT 2013-0401693, OF OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE WESTERLY ALONG THE NORTH LINE OF SAID PARCEL 6(A) TO THE NORTHWEST CORNER OF SAID PARCEL 6 (A);

THENCE SOUTHERLY ALONG THE WEST LINES OF PARCEL 6(A) AND PARCEL 6(B), AND SOUTHERLY PROLONGATION OF WEST LINE OF PARCEL 6(B) DESCRIBED IN SAID AFFIDAVIT RECORDED AS INSTRUMENT 2013-0401693 TO A POINT IN THE CENTERLINE OF SANTA ROSA MINE RD;

THENCE WESTERLY ALONG THE CENTERLINE OF SANTA ROSA MINE RD TO A POINT IN THE WEST LINE OF SECTION 33, TOWNSHIP 4 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE SOUTHERLY ALONG THE WEST LINE OF SAID SECTION 33 TO THE SOUTHWEST CORNER OF SAID SECTION 33;

THENCE EASTERLY ALONG THE SOUTH LINE OF SAID SECTION 33 TO THE NORTHEAST CORNER OF SECTION 5, TOWNSHIP 5 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE SOUTHERLY ALONG THE EAST LINE OF SAID SECTION 5 TO THE SOUTHEAST CORNER OF SAID SECTION 5;

THENCE WESTERLY ALONG THE SOUTH LINE OF SAID SECTION 5 TO THE SOUTHWEST CORNER OF PARCEL 1 IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS DESCRIBED IN THE GRANT DEED RECORDED AS INSTRUMENT 2005-0135070, OF OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE NORTHERLY, WESTERLY, AND SOUTHERLY ALONG THE EAST, NORTH, AND WEST LINES OF SAID PARCEL 1 TO A POINT IN THE SOUTH LINE OF SECTION 5, TOWNSHIP 5 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE EASTERLY ALONG THE SOUTH LINE OF SAID SECTION 5 TO THE NORTHWEST CORNER OF LOT 175, IN THE CITY OF LAKE ELSINORE, COUNTY OF

RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON THE RECORD OF SURVEY RECORDED IN BOOK 31, OF RECORDS OF SURVEYS, PAGES 78 THROUGH 82 INCLUSIVE, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE SOUTHERLY ALONG THE WEST LINES OF LOTS 175, 176, 177, 178, AND 179 OF SAID RECORD OF SURVEY TO THE SOUTHWEST CORNER OF SAID LOT 179;

THENCE EASTERLY ALONG THE SOUTH LINE OF SAID LOT 179 TO THE SOUTHEAST CORNER OF SAID LOT 179;

THENCE SOUTHERLY ALONG THE EAST LINES OF LOTS 180, 181, 182, 183, 184, 185, 186, 187, 188, AND 189 OF SAID RECORD OF SURVEY TO THE NORTH LINE OF THE SOUTHEAST QUARTER OF SECTION 8, TOWNSHIP 5 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE WESTERLY ALONG SAID NORTH LINE OF SOUTHEAST QUARTER OF SECTION 8 TO THE NORTHWEST CORNER OF SAID SOUTHEAST QUARTER OF SECTION 8;

THENCE SOUTHERLY ALONG THE WEST LINE OF SAID SOUTHEAST QUARTER OF SECTION 8, TO THE NORTH QUARTER CORNER OF SECTION 17, TOWNSHIP 5 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE SOUTHERLY ALONG THE EAST LINE OF THE NORTHWEST QUARTER OF SAID SECTION 17 TO THE NORTHEAST CORNER OF LOT 71, IN THE CITY OF LAKE ELSINORE, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON THE RECORD OF SURVEY RECORDED IN BOOK 31, OF RECORDS OF SURVEYS, PAGES 78 THROUGH 82 INCLUSIVE, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE WESTERLY ALONG THE NORTH LINES OF LOTS 71, 78, AND 79 OF SAID RECORD OF SURVEY TO THE NORTHWEST CORNER OF SAID LOT 79;

THENCE SOUTHERLY ALONG THE WEST LINES OF LOTS 79, 80, 81, AND 82 OF SAID RECORD OF SURVEY TO THE NORTHEAST CORNER OF LOT 122 OF SAID RECORD OF SURVEY;

THENCE WESTERLY ALONG THE NORTH LINES OF LOTS 122, 121, 120, 119, AND 118 OF SAID RECORD OF SURVEY TO THE NORTHWEST CORNER OF SAID LOT 118;

THENCE SOUTHERLY ALONG THE WEST LINE OF SAID LOT 118 TO THE NORTHEAST CORNER OF LOT 129 OF SAID RECORD OF SURVEY;

THENCE WESTERLY ALONG THE NORTH LINE OF LOT 129 TO THE NORTHWEST CORNER OF SAID LOT 129;

THENCE SOUTHERLY ALONG THE WEST LINES OF LOTS 129 AND 130 TO A POINT IN THE NORTH LINE OF LOT 136 OF SAID RECORD OF SURVEY;

THENCE WESTERLY ALONG THE NORTH LINES OF LOTS 136 AND 137 OF SAID RECORD OF SURVEY TO THE NORTHWEST CORNER OF SAID LOT 137;

THENCE SOUTHERLY ALONG THE WEST LINES OF LOTS 137, 142, 151, AND 158 TO THE NORTHEAST CORNER OF LOT 156 OF SAID RECORD OF SURVEY;

THENCE WESTERLY AND SOUTHERLY ALONG THE NORTH AND WEST LINES OF SAID LOT 156 TO THE SOUTHEAST CORNER OF SECTION 18, TOWNSHIP 5 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE WESTERLY ALONG THE SOUTH LINE OF SAID SECTION 18 TO A POINT IN THE CENTERLINE OF EL TORO RD;

THENCE SOUTHERLY ALONG THE CENTERLINE OF EL TORO RD TO A POINT IN THE CENTERLINE OF SANDERSON PASS RD;

THENCE WESTERLY ALONG THE CENTERLINE OF SANDERSON PASS RD TO A POINT IN THE CENTERLINE OF LINDELL RD;

THENCE SOUTHERLY ALONG THE CENTERLINE OF LINDELL RD TO A POINT IN THE NORTH LINE OF THE MUTUAL BENEFIT TRACT, IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON THE MAP RECORDED IN BOOK 8, OF MAPS, PAGE 80, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE EASTERLY ALONG THE NORTH LINE OF SAID MUTUAL BENEFIT TRACT TO THE NORTHWEST CORNER OF LOT "F" OF SAID TRACT;

THENCE SOUTHERLY ALONG THE WEST LINES OF LOTS "F" AND "E" TO A POINT IN THE NORTH LINE OF THE ELSINORE EUCALYPTUS TRACT, IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON THE MAP RECORDED IN BOOK 6, OF MAPS, PAGE 75, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE WESTERLY AND SOUTHERLY ALONG THE NORTH AND WEST LINES OF SAID ELSINORE EUCALYPTUS TRACT TO A POINT IN THE CENTERLINE OF NICHOLS RD;

THENCE WESTERLY ALONG THE CENTERLINE OF NICHOLS RD TO A POINT IN THE CENTERLINE OF INTERSTATE HIGHWAY 15;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF INTERSTATE HIGHWAY 15 TO A POINT IN THE NORTH LINE OF SECTION 25, TOWNSHIP 5 SOUTH, RANGE 5 WEST, S.B.B.&M.;

THENCE WESTERLY ALONG THE NORTH LINES OF SECTIONS 25, 26, 27, AND 28, TOWNSHIP 5 SOUTH, RANGE 5 WEST, S.B.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 28;

THENCE SOUTHERLY ALONG THE WEST LINES OF SECTIONS 28 AND 33, TOWNSHIP 5 SOUTH, RANGE 5 WEST, S.B.B.&M., TO THE NORTHWEST CORNER OF SECTION 4, TOWNSHIP 6 SOUTH, RANGE 5 WEST, S.B.B.&M.;

THENCE SOUTHERLY ALONG THE WEST LINE OF SAID SECTION 4 TO THE SOUTHWEST CORNER OF SAID SECTION 4;

THENCE EASTERLY ALONG THE SOUTH LINE OF SAID SECTION 4 TO THE SOUTH QUARTER CORNER OF SAID SECTION 4;

THENCE SOUTHERLY IN A STRAIGHT LINE TO THE NORTHWEST CORNER OF PARCEL 8 OF PARCEL MAP NO. 8351, IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON THE MAP RECORDED IN BOOK 49, OF PARCEL MAPS, PAGES 10 THROUGH 12, INCLUSIVE, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE SOUTHEASTERLY ALONG THE WEST AND SOUTH LINES OF SAID PARCEL 8 TO THE NORTHEAST CORNER OF PARCEL 10 OF SAID PARCEL MAP;

THENCE SOUTHERLY AND WESTERLY ALONG THE EAST AND SOUTH LINES OF SAID PARCEL 10 TO THE NORTHEAST CORNER OF PARCEL 12 OF SAID PARCEL MAP;

THENCE SOUTHEASTERLY, SOUTHWESTERLY, AND NORTHWESTERLY ALONG THE NORTHEASTERLY, SOUTHEASTERLY, AND SOUTHWESTERLY LINES OF SAID PARCEL 12 TO A POINT IN THE CENTERLINE OF PERRY RD;

THENCE WESTERLY ALONG THE CENTERLINE OF PERRY RD TO THE SOUTHEAST CORNER OF PARCEL 5 OF SAID PARCEL MAP, SAID POINT BEING THE NORTHERLY TEMINUS OF THE COURSE NORTH26°38'50" WEST 30.00 FEET;

THENCE SOUTHWESTERLY AND WESTERLY ALONG THE SOUTHEAST AND SOUTH LINES OF SAID PARCEL 5 TO A POINT IN THE BOUNDARY OF RIVERSIDE AND ORANGE COUNTIES;

THENCE SOUTHWESTERLY AND EASTERLY ALONG THE BOUNDARY OF RIVERSIDE COUNTY TO THE POINT OF BEGINNING.

SOUTHERN SYSTEM – WEST OF MORENO LOCAL SERVICE ZONE

PORTION 1 (WEST PORTION)

THOSE PORTIONS OF LOS ANGELES, SAN BERNARDINO, AND ORANGE COUNTIES, DESCRIBED AS FOLLOWS:

BEGINNING AT THE CENTERLINE INTERSECTION OF HACIENDA BL AND SANSINENA LN;

THENCE NORTHERLY ALONG THE CENTERLINE OF HACIENDA BL TO A POINT IN THE CORPORATE BOUNDARY OF THE CITY OF HACIENDA HEIGHTS;

THENCE WESTERLY AND NORTHERLY ALONG SAID CORPORATE BOUNDARY TO A POINT IN THE CENTERLINE OF TURNBULL CANYON RD;

THENCE EASTERLY ALONG THE CENTERLINE OF TURNBULL CANYON RD TO A POINT IN THE CENTERLINE OF LAS LOMITAS DR;

THENCE EASTERLY ALONG THE CENTERLINE OF LAS LOMITAS DR TO A POINT IN THE CENTERLINE OF VALLECITO DR;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF VALLECITO DR TO A POINT IN THE CENTERLINE OF TURNBULL CANYON RD;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF TURNBULL CANYON RD TO A POINT IN THE CENTERLINE OF DON JULIAN RD;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF DON JULIAN RD TO A POINT IN THE CENTERLINE OF 9TH AVE;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF 9TH AVE TO A POINT IN THE CENTERLINE OF VALLEY BL;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF VALLEY BL TO A POINT IN THE CENTERLINE OF CALIFORNIA AVE;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF CALIFORNIA AVE TO A POINT IN THE CENTERLINE OF COVINA PKWY;

THENCE EASTERLY ALONG THE CENTERLINE OF COVINA PKWY TO A POINT IN THE CENTERLINE OF VINCENT AVE;

THENCE NORTHERLY ALONG THE CENTERLINE OF VINCENT AVE TO A POINT IN THE CENTERLINE OF INTERSTATE HWY 10 (SAN BERNARDINO FWY);

THENCE EASTERLY ALONG THE CENTERLINE OF INTERSTATE HIGHWAY 10 TO A POINT IN THE CENTERLINE OF FAIRPLEX DRIVE;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF FAIRPLEX DR. TO THE MOST EASTERLY CENTERLINE INTERSECTION WITH MC KINLEY AVE;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF FAIRPLEX DR. TO THE MOST WESTERLY CENTERLINE INTERSECTION WITH MC KINLEY AVE;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF FAIRPLEX AVE TO A POINT IN THE CENTERLINE OF ARROW HWY;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF ARROW HWY (CHANGES NAME TO LA VERNE AVE) TO A POINT IN THE CENTERLINE OF GAREY AVE;

THENCE SOUTHERLY ALONG THE CENTERLINE OF GAREY AVE TO A POINT IN THE CENTERLINE OF INTERSTATE HWY 10;

THENCE EASTERLY ALONG THE CENTERLINE OF INTERSTATE HWY 10 TO A POINT IN THE BOUNDARY OF LOS ANGELES AND SAN BERNARDINO COUNTIES;

THENCE SOUTHERLY ALONG THE BOUNDARY OF LOS ANGELES AND SAN BERNARDINO COUNTIES TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 60 (POMONA FWY);

THENCE EASTERLY ALONG THE CENTERLINE OF STATE HWY 60 TO A POINT IN THE CENTERLINE OF CENTRAL AVE;

THENCE SOUTHERLY ALONG THE CENTERLINE OF CENTRAL AVE TO A POINT IN THE CENTERLINE OF CHINO AVE;

THENCE WESTERLY ALONG THE CENTERLINE OF CHINO AVE TO A POINT IN THE CENTERLINE OF RAMONA AVE;

THENCE SOUTHERLY ALONG RAMONA AVE TO A POINT IN THE CENTERLINE OF CHINO HILLS PARKWAY;

THENCE WESTERLY ALONG THE CENTERLINE OF CHINO HILLS PARKWAY TO A POINT IN THE CENTERLINE OF ROLLING RIDGE DR;

THENCE SOUTHERLY ALONG THE CENTERLINE OF ROLLING RIDGE DR TO A POINT IN THE CENTERLINE OF BAYBERRY DR;

THENCE EASTERLY ALONG THE CENTERLINE OF BAYBERRY DR TO A POINT IN A LINE 1000 FEET OFFSET TO THE NORTHWEST FROM SOUTHERN CALIFORNIA GAS COMPANY TRANSMISSION LINE NO. 4000;

THENCE SOUTHWESTERLY ALONG SAID 1000 FOOT OFFSET LINE TO THE MOST NORTHERLY INTERSECTION OF THE CENTERLINE OF SAN ANTONIO RD AND SAID OFFSET LINE;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF SAN ANTONIO RD TO A POINT IN THE CENTERLINE OF ALDER AVE;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF ALDER AVE TO A POINT IN THE CENTERLINE OF VIA CORZO;

THENCE SOUTHERLY ALONG THE CENTERLINE OF VIA CORZO TO THE CENTERLINE OF THE EASEMENT TO METROPOLITAN WATER DISTRICT SHOWN ON TRACT MAP NO. 10043 IN THE CITY OF YORBA LINDA, COUNTY OF ORANGE, STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 542, OF MISCELLANEOUS MAPS, PAGES 29 THROUGH 30, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY AND ALSO SHOWN ON TRACT MAP 10119 IN THE CITY OF YORBA LINDA, COUNTY OF ORANGE, STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 449, OF MISCELLANEOUS MAPS, PAGES 29 THROUGH 33, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE WESTERLY ALONG THE CENTERLINE OF SAID EASEMENT TO METROPOLITAN WATER DISTRICT TO A POINT IN THE CENTERLINE OF AVE DE LOS ARBOLES;

THENCE SOUTHERLY ALONG THE CENTERLINE OF AVE DO LOS ARBOLES TO A POINT IN THE CENTERLINE OF VISTA DEL SOL;

THENCE WESTERLY ALONG THE CENTERLINE OF VISTA DEL SOL TO A POINT IN THE CENTERLINE OF AVE DE LAS ESTRELLAS;

THENCE SOUTHERLY ALONG THE CENTERLINE OF AVE DE LAS ESTRELLAS TO A POINT IN THE CENTERLINE OF YORBA LINDA BL;

THENCE WESTERLY ALONG THE CENTERLINE OF YORBA LINDA BL TO A POINT IN THE CENTERLINE OF VILLAGE CENTER DR;

THENCE NORTHERLY AND NORTHEASTERLY ALONG THE CENTERLINE OF VILLAGE CENTER DR TO A POINT IN THE CENTERLINE OF FAIRMONT BLVD;

THENCE WESTERLY AND SOUTHWESTERLY ALONG THE CENTERLINE OF FAIRMONT BLVD TO A POINT IN THE CENTERLINE OF BASTANCHURY RD;

THENCE WESTERLY ALONG THE CENTERLINE OF BASTANCHURY RD TO A POINT IN THE CENTERLINE OF IMPERIAL HWY;

THENCE NORTHWESTERLY AND WESTERLY ALONG THE CENTERLINE OF IMPERIAL HWY TO THE EAST QUARTER CORNER OF SECTION 13, TOWNSHIP 3 SOUTH, RANGE 10 WEST, S.B.B.&M.;

THENCE NORTHERLY ALONG THE EAST LINE OF SAID SECTION 13 TO A POINT IN THE CENTERLINE OF BIRCH ST;

THENCE WESTERLY ALONG THE CENTERLINE OF BIRCH ST TO A POINT IN THE CENTERLINE OF THE PACIFIC ELECTRIC RAILWAY;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF THE PACIFIC ELECTRIC RAILWAY TO A POINT IN THE CENTERLINE OF STATE HWY 57 (ORANGE FWY);

THENCE NORTHERLY ALONG THE CENTERLINE OF STATE HWY 57 TO A POINT IN THE BOUNDARY OF ORANGE AND LOS ANGELES COUNTIES;

THENCE WESTERLY ALONG THE BOUNDARY OF ORANGE AND LOS ANGELES COUNTIES TO THE POINT OF BEGINNING.

PORTION 2 (EAST PORTION)

BEGINNING AT THE CENTERLINE INTERSECTION OF ESPERANZA RD AND YORBA RANCH RD;

THENCE NORTHERLY ALONG THE CENTERLINE OF YORBA RANCH RD (CHANGES NAME TO DORINDA RD) TO A POINT IN A LINE 1000 FEET OFFSET TO THE SOUTHEAST FROM SOUTHERN CALIFORNIA GAS COMPANY TRANSMISSION LINE NO. 4002;

THENCE NORTHEASTERLY ALONG SAID OFFSET LINE TO A POINT IN THE SOUTH LINE OF THE NORTHEAST QUARTER OF SECTION 23, TOWNSHIP 2 SOUTH, RANGE 8 WEST, S.B.B.&M.;

THENCE EASTERLY ALONG THE SOUTH LINE OF SAID NORTHEAST QUARTER OF SECTION 23 TO THE EAST QUARTER CORNER OF SAID SECTION 23;

THENCE NORTHERLY ALONG THE EAST LINE OF SAID NORTHEAST QUARTER OF SECTION 23 TO THE NORTHEAST CORNER OF SAID SECTION 23;

THENCE EASTERLY ALONG THE NORTH LINE OF SECTION 24, TOWNSHIP 2 SOUTH, RANGE 8 WEST, S.B.B.&M., TO A POINT IN A WEST LINE OF PARCEL 2 OF PARCEL

MAP NO. 16441 IN THE CITY OF CHINO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 206, OF PARCEL MAPS, PAGES 23 THROUGH 28, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE NORTHWESTERLY ALONG THE WEST LINES OF SAID PARCEL 2 TO A POINT IN THE CENTERLINE OF COLLEGE PARK AVE;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF COLLEGE PARK AVE TO A POINT IN THE CENTERLINE OF EUCALYPTUS AVE;

THENCE SOUTHEASTERLY AND EASTERLY ALONG THE CENTERLINE OF EUCALYPTUS AVE TO A POINT IN THE CENTERLINE OF GROVE AVE;

THENCE NORTHERLY ALONG THE CENTERLINE OF GROVE AVE TO A POINT IN THE CENTERLINE OF EDISON AVE;

THENCE EASTERLY ALONG THE CENTERLINE OF EDISON AVE TO A POINT IN THE CENTERLINE OF MILLIKEN AVE;

THENCE NORTHERLY ALONG THE CENTERLINE OF MILLIKEN AVE TO A POINT IN THE CENTERLINE OF CANTU GALLEANO RANCH RD;

THENCE EASTERLY ALONG THE CENTERLINE OF CANTU GALLEANO RANCH RD TO A POINT IN THE CENTERLINE OF INTERSTATE HWY 15;

THENCE NORTHERLY ALONG THE CENTERLINE OF INTERSTATE HWY 15 TO A POINT IN THE BOUNDARY OF RIVERSIDE AND SAN BERNARDINO COUNTIES;

THENCE EASTERLY ALONG THE BOUNDARY OF RIVERSIDE AND SAN BERNARDINO COUNTIES TO THE NORTHWEST CORNER OF THE EAST HALF OF SECTION 18, TOWNSHIP 2 SOUTH, RANGE 2 WEST, S.B.B.&M.

THENCE SOUTHERLY ALONG THE WEST LINES OF EAST HALVES OF SECTIONS 18, 19, 30, AND 31, TOWNSHIP 2 SOUTH, RANGE 2 WEST, S.B.B.&M., TO THE NORTHWEST CORNER OF THE EAST HALF OF SECTION 6, TOWNSHIP 3 SOUTH, RANGE 2 WEST, S.B.B.&M.;

THENCE SOUTHERLY ALONG THE WEST LINE OF SAID EAST HALF OF SECTION 6 TO A POINT IN THE CENTERLINE OF STATE HWY 60 (MORENO VALLEY FWY);

THENCE EASTERLY ALONG THE CENTERLINE OF STATE HWY 60 TO A POINT IN THE CENTERLINE OF GILLMAN SPRINGS RD;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF GILLMAN SPRINGS RD TO A POINT IN THE CENTERLINE OF VIRGINIA ST;

THENCE SOUTHERLY ALONG THE CENTERLINE OF VIRGINIA ST TO A POINT IN THE CENTERLINE OF AIR FORBES AVE;

THENCE WESTERLY ALONG THE CENTERLINE OF AIR FORBES AVE TO A POINT IN THE CENTERLINE OF DAVIS RD;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF DAVIS RD (CHANGES NAME TO THEODORE ST) TO A POINT IN THE CENTERLINE OF BRODIAEA AVE;

THENCE WESTERLY ALONG THE CENTERLINE OF BRODIAEA AVE TO A POINT IN THE CENTERLINE OF REDLANDS BL;

THENCE SOUTHERLY AND SOUTHWESTERLY ALONG THE CENTERLINE OF REDLANDS BL (CHANGES NAME TO JOHN F KENNEDY DR) TO A POINT IN THE CENTERLINE OF MORENO BEACH DR;

THENCE SOUTHWESTERLY AND WESTERLY ALONG THE CENTERLINE OF MORENO BEACH DR (CHANGES NAME TO IRIS AVE) TO A POINT IN THE CENTERLINE OF PERRIS BL;

THENCE SOUTHERLY ALONG THE CENTERLINE OF PERRIS BL TO A POINT IN THE CENTERLINE OF RAMONA EXPRESSWAY;

THENCE WESTERLY ALONG THE CENTERLINE OF RAMONA EXPRESSWAY (CHANGES NAME TO CAJALCO EXPRESSWAY) TO A POINT IN THE CENTERLINE OF CLARK ST;

THENCE SOUTHERLY ALONG THE CENTERLINE OF CLARK ST TO A POINT IN THE CENTERLINE OF RIDER ST;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF OLD ELSINORE RD TO A POINT IN THE NORTH LINE OF SECTION 26, TOWNSHIP 4 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE WESTERLY ALONG THE NORTH LINES OF SECTIONS 26, 27, AND 28, TOWNSHIP 4 SOUTH, RANGE 4 WEST, S.B.B.&M., TO A POINT IN THE CENTERLINE OF POST RD;

THENCE SOUTHERLY ALONG THE CENTERLINE OF POST RD TO A POINT IN THE NORTH LINE OF THE SOUTHEAST QUARTER OF SECTION 28, TOWNSHIP 4 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE WESTERLY ALONG SAID NORTH LINE OF THE SOUTHEAST QUARTER OF SECTION 28 TO THE NORTHWEST CORNER OF THE EAST HALF OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SAID SECTION 28;

THENCE SOUTHERLY ALONG THE WEST LINES OF THE EAST HALF OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SAID SECTION 28 AND THE EAST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SAID SECTION 28 TO A POINT IN THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 33, TOWNSHIP 4 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE WESTERLY ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 33 TO THE NORTH QUARTER CORNER OF SAID SECTION 33;

THENCE SOUTHERLY ALONG THE WEST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 33 TO THE NORTHEAST CORNER OF PARCEL 6(A) IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS DESCRIBED IN THE AFFIDAVIT RECORDED AS INSTRUMENT 2013-0401693, OF OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE WESTERLY ALONG THE NORTH LINE OF SAID PARCEL 6(A) TO THE NORTHWEST CORNER OF SAID PARCEL 6 (A);

THENCE SOUTHERLY ALONG THE WEST LINES OF PARCEL 6(A) AND PARCEL 6(B), AND SOUTHERLY PROLONGATION OF WEST LINE OF PARCEL 6(B) DESCRIBED IN SAID AFFIDAVIT RECORDED AS INSTRUMENT 2013-0401693 TO A POINT IN THE CENTERLINE OF SANTA ROSA MINE RD;

THENCE WESTERLY ALONG THE CENTERLINE OF SANTA ROSA MINE RD TO A POINT IN THE WEST LINE OF SECTION 33, TOWNSHIP 4 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE SOUTHERLY ALONG THE WEST LINE OF SAID SECTION 33 TO THE SOUTHWEST CORNER OF SAID SECTION 33;

THENCE EASTERLY ALONG THE SOUTH LINE OF SAID SECTION 33 TO THE NORTHEAST CORNER OF SECTION 5, TOWNSHIP 5 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE SOUTHERLY ALONG THE EAST LINE OF SAID SECTION 5 TO THE SOUTHEAST CORNER OF SAID SECTION 5;

THENCE WESTERLY ALONG THE SOUTH LINE OF SAID SECTION 5 TO THE SOUTHWEST CORNER OF PARCEL 1 IN THE UNINCORPORATED TERRITORY OF

THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS DESCRIBED IN THE GRANT DEED RECORDED AS INSTRUMENT 2005-0135070, OF OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE NORTHERLY, WESTERLY, AND SOUTHERLY ALONG THE EAST, NORTH, AND WEST LINES OF SAID PARCEL 1 TO A POINT IN THE SOUTH LINE OF SECTION 5, TOWNSHIP 5 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE EASTERLY ALONG THE SOUTH LINE OF SAID SECTION 5 TO THE NORTHWEST CORNER OF LOT 175, IN THE CITY OF LAKE ELSINORE, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON THE RECORD OF SURVEY RECORDED IN BOOK 31, OF RECORDS OF SURVEYS, PAGES 78 THROUGH 82 INCLUSIVE, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE SOUTHERLY ALONG THE WEST LINES OF LOTS 175, 176, 177, 178, AND 179 OF SAID RECORD OF SURVEY TO THE SOUTHWEST CORNER OF SAID LOT 179;

THENCE EASTERLY ALONG THE SOUTH LINE OF SAID LOT 179 TO THE SOUTHEAST CORNER OF SAID LOT 179;

THENCE SOUTHERLY ALONG THE EAST LINES OF LOTS 180, 181, 182, 183, 184, 185, 186, 187, 188, AND 189 OF SAID RECORD OF SURVEY TO THE NORTH LINE OF THE SOUTHEAST QUARTER OF SECTION 8, TOWNSHIP 5 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE WESTERLY ALONG SAID NORTH LINE OF SOUTHEAST QUARTER OF SECTION 8 TO THE NORTHWEST CORNER OF SAID SOUTHEAST QUARTER OF SECTION 8;

THENCE SOUTHERLY ALONG THE WEST LINE OF SAID SOUTHEAST QUARTER OF SECTION 8, TO THE NORTH QUARTER CORNER OF SECTION 17, TOWNSHIP 5 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE SOUTHERLY ALONG THE EAST LINE OF THE NORTHWEST QUARTER OF SAID SECTION 17 TO THE NORTHEAST CORNER OF LOT 71, IN THE CITY OF LAKE ELSINORE, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON THE RECORD OF SURVEY RECORDED IN BOOK 31, OF RECORDS OF SURVEYS, PAGES 78 THROUGH 82 INCLUSIVE, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE WESTERLY ALONG THE NORTH LINES OF LOTS 71, 78, AND 79 OF SAID RECORD OF SURVEY TO THE NORTHWEST CORNER OF SAID LOT 79;

THENCE SOUTHERLY ALONG THE WEST LINES OF LOTS 79, 80, 81, AND 82 OF SAID RECORD OF SURVEY TO THE NORTHEAST CORNER OF LOT 122 OF SAID RECORD OF SURVEY;

THENCE WESTERLY ALONG THE NORTH LINES OF LOTS 122, 121, 120, 119, AND 118 OF SAID RECORD OF SURVEY TO THE NORTHWEST CORNER OF SAID LOT 118;

THENCE SOUTHERLY ALONG THE WEST LINE OF SAID LOT 118 TO THE NORTHEAST CORNER OF LOT 129 OF SAID RECORD OF SURVEY;

THENCE WESTERLY ALONG THE NORTH LINE OF LOT 129 TO THE NORTHWEST CORNER OF SAID LOT 129;

THENCE SOUTHERLY ALONG THE WEST LINES OF LOTS 129 AND 130 TO A POINT IN THE NORTH LINE OF LOT 136 OF SAID RECORD OF SURVEY;

THENCE WESTERLY ALONG THE NORTH LINES OF LOTS 136 AND 137 OF SAID RECORD OF SURVEY TO THE NORTHWEST CORNER OF SAID LOT 137;

THENCE SOUTHERLY ALONG THE WEST LINES OF LOTS 137, 142, 151, AND 158 TO THE NORTHEAST CORNER OF LOT 156 OF SAID RECORD OF SURVEY;

THENCE WESTERLY AND SOUTHERLY ALONG THE NORTH AND WEST LINES OF SAID LOT 156 TO THE SOUTHEAST CORNER OF SECTION 18, TOWNSHIP 5 SOUTH, RANGE 4 WEST, S.B.B.&M.;

THENCE WESTERLY ALONG THE SOUTH LINE OF SAID SECTION 18 TO A POINT IN THE CENTERLINE OF EL TORO RD;

THENCE SOUTHERLY ALONG THE CENTERLINE OF EL TORO RD TO A POINT IN THE CENTERLINE OF SANDERSON PASS RD;

THENCE WESTERLY ALONG THE CENTERLINE OF SANDERSON PASS RD TO A POINT IN THE CENTERLINE OF LINDELL RD;

THENCE SOUTHERLY ALONG THE CENTERLINE OF LINDELL RD TO A POINT IN THE NORTH LINE OF THE MUTUAL BENEFIT TRACT, IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON THE MAP RECORDED IN BOOK 8, OF MAPS, PAGE 80, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE EASTERLY ALONG THE NORTH LINE OF SAID MUTUAL BENEFIT TRACT TO THE NORTHWEST CORNER OF LOT "F" OF SAID TRACT;

THENCE SOUTHERLY ALONG THE WEST LINES OF LOTS "F" AND "E" TO A POINT IN THE NORTH LINE OF THE ELSINORE EUCALYPTUS TRACT, IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON THE MAP RECORDED IN BOOK 6, OF MAPS, PAGE 75, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE WESTERLY AND SOUTHERLY ALONG THE NORTH AND WEST LINES OF SAID ELSINORE EUCALYPTUS TRACT TO A POINT IN THE CENTERLINE OF NICHOLS RD;

THENCE WESTERLY ALONG THE CENTERLINE OF NICHOLS RD TO A POINT IN THE CENTERLINE OF INTERSTATE HIGHWAY 15;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF INTERSTATE HIGHWAY 15 TO A POINT IN THE NORTH LINE OF SECTION 25, TOWNSHIP 5 SOUTH, RANGE 5 WEST, S.B.B.&M.;

THENCE WESTERLY ALONG THE NORTH LINES OF SECTIONS 25, 26, 27, AND 28, TOWNSHIP 5 SOUTH, RANGE 5 WEST, S.B.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 28;

THENCE SOUTHERLY ALONG THE WEST LINES OF SECTIONS 28 AND 33, TOWNSHIP 5 SOUTH, RANGE 5 WEST, S.B.B.&M., TO THE NORTHWEST CORNER OF SECTION 4, TOWNSHIP 6 SOUTH, RANGE 5 WEST, S.B.B.&M.;

THENCE SOUTHERLY ALONG THE WEST LINE OF SAID SECTION 4 TO THE SOUTHWEST CORNER OF SAID SECTION 4;

THENCE EASTERLY ALONG THE SOUTH LINE OF SAID SECTION 4 TO THE SOUTH QUARTER CORNER OF SAID SECTION 4;

THENCE SOUTHERLY IN A STRAIGHT LINE TO THE NORTHWEST CORNER OF PARCEL 8 OF PARCEL MAP NO. 8351, IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON THE MAP RECORDED IN BOOK 49, OF PARCEL MAPS, PAGES 10 THROUGH 12, INCLUSIVE, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE SOUTHEASTERLY ALONG THE WEST AND SOUTH LINES OF SAID PARCEL 8 TO THE NORTHEAST CORNER OF PARCEL 10 OF SAID PARCEL MAP;

THENCE SOUTHERLY AND WESTERLY ALONG THE EAST AND SOUTH LINES OF SAID PARCEL 10 TO THE NORTHEAST CORNER OF PARCEL 12 OF SAID PARCEL MAP;

THENCE SOUTHEASTERLY, SOUTHWESTERLY, AND NORTHWESTERLY ALONG THE NORTHEASTERLY, SOUTHEASTERLY, AND SOUTHWESTERLY LINES OF SAID PARCEL 12 TO A POINT IN THE CENTERLINE OF PERRY RD;

THENCE WESTERLY ALONG THE CENTERLINE OF PERRY RD TO THE SOUTHEAST CORNER OF PARCEL 5 OF SAID PARCEL MAP, SAID POINT BEING THE NORTHERLY TEMINUS OF THE COURSE NORTH26°38'50"WEST 30.00 FEET;

THENCE SOUTHWESTERLY AND WESTERLY ALONG THE SOUTH LINES OF SAID PARCEL 5 TO A POINT IN THE BOUNDARY OF RIVERSIDE AND ORANGE COUNTIES;

THENCE NORTHWESTERLY ALONG THE BOUNDARY OF RIVERSIDE AND ORANGE COUNTIES TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 91 (RIVERSIDE FWY);

THENCE WESTERLY ALONG THE CENTERLINE OF STATE HIGHWAY 91 TO A POINT IN THE SOUTHEASTERLY PROLONGATION OF THE CENTERLINE OF EMOGENE ST THAT LIES SOUTH OF WOODSBORO AVE;

THENCE NORTHWESTERLY ALONG SAID PROLONGATION OF THE CENTERLINE OF EMOGENE ST AND THE CENTERLINE OF EMOGENE ST TO A POINT IN THE CENTERLINE OF WOODSBORO AVE;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF WOODSBORO AVE TO A POINT IN THE SOUTHEASTERLY PROLONGATION OF SOUTHWEST LINE OF LOT 1, OF TRACT NO. 7471, IN THE CITY OF ANAHEIM, COUNTY OF ORANGE, STATE OF CALIFORNIA AS SHOWN IN THE MAP RECORDED IN BOOK 385, OF MISCELLANEOUS MAPS, PAGES 48 THROUGH 50, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE NORTHWESTERLY ALONG SAID SOUTHEASTERLY PROLONGATION AND THE SOUTHWEST LINES OF LOTS 1, 2, 3, 4, 5, 6, 7, AND THE NORTHWESTERLY PROLONGATION OF THE SOUTHWEST LINE OF LOT 7 TO A POINT IN THE CENTERLINE OF ESPERANZA AVE;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF ESPERANZA AVE TO THE POINT OF BEGINNING.

VALLEY LOCAL SERVICE ZONE

THOSE PORTIONS OF FRESNO, TULARE, KINGS, KERN, AND LOS ANGELES COUNTIES MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FRESNO COUNTY PORTION

THAT PORTION OF FRESNO COUNTY LYING SOUTH OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE INTERSECTION OF THE WEST LINE OF SECTION 26, TOWNSHIP 20 SOUTH, RANGE 18 EAST, M.D.B.&M. AND THE BOUNDARY OF FRESNO AND KINGS COUNTIES;

THENCE IN A STRAIGHT LINE TO THE INTERSECTION OF THE WEST LINE OF SECTION 7, TOWNSHIP 22 SOUTH, RANGE 14 EAST, M.D.B.&M. AND THE BOUNDARY OF FRESNO AND MONTERERY COUNTIES.

KINGS COUNTY PORTION

THAT PORTION OF KINGS COUNTY LYING SOUTH OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE INTERSECTION OF THE CENTERLINE OF INTERSTATE HIGHWAY 5 AND THE BOUNDARY OF KINGS AND FRESNO COUNTIES;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF INTERSTATE HIGHWAY 5 TO A POINT IN THE SOUTH LINE OF SECTION 31, TOWNSHIP 21 SOUTH, RANGE 18 EAST, M.D.B.&M.;

THENCE EASTERLY ALONG THE SOUTH LINES OF SECTIONS 31, 32, 33, 34, 35, AND 36, TOWNSHIP 21 SOUTH, RANGE 18 EAST, M.D.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 36;

THENCE CONTINUING EASTERLY ALONG THE SOUTH LINES OF SECTIONS 31, 32,33, 34, 35, AND 36, TOWNSHIP 21 SOUTH, RANGE 19 EAST, M.D.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 36;

THENCE CONTINUING EASTERLY ALONG THE SOUTH LINES OF SECTIONS 31, 32,33, 34, 35, AND 36, TOWNSHIP 21 SOUTH, RANGE 20 EAST, M.D.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 36;

THENCE CONTINUING EASTERLY ALONG THE SOUTH LINES OF SECTIONS 31, 32,33, 34, 35, AND 36, TOWNSHIP 21 SOUTH, RANGE 21 EAST, M.D.B.&M., TO THE SOUTHEAST CORNER OF SAID SECTION 36;

THENCE SOUTHERLY ALONG THE WEST LINE OF SECTION 6, TOWNSHIP 22 SOUTH, RANGE 22 EAST, M.D.B.&M., TO A POINT IN THE SOUTH LINE OF THE NORTH HALF OF SAID SECTION 6, TOWNSHIP 22 SOUTH, RANGE 22 EAST, M.D.B.&M.;

THENCE EASTERLY ALONG THE SOUTH LINES OF THE NORTH HALVES OF SECTIONS 6, 5, 4, 3, 2, AND 1, TOWNSHIP 22 SOUTH, RANGE 22 EAST, M.D.B.&M., TO A POINT IN THE EAST LINE OF SAID SECTION 1, SAID POINT BEING A POINT IN THE BOUNDARY BETWEEN KINGS AND TULARE COUNTIES;

KERN COUNTY PORTION

ALL OF KERN COUNTY EXCEPT THE FOLLOWING PORTIONS:

EXCEPTION PORTION 1:

BEGINNING AT THE INTERSECTION OF THE BOUNDARY OF KINGS AND KERN COUNTIES WITH THE CENTERLINE OF INTERSTATE HIGHWAY 5;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF INTERSTATE HIGHWAY 5 TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 46;

THENCE WESTERLY ALONG THE CENTERLINE OF STATE HIGHWAY 46 TO A POINT IN THE CENTERLINE OF ALOMA ST;

THENCE SOUTHERLY ALONG THE CENTERLINE OF ALOMA ST TO A POINT IN THE CENTERLINE OF LAWTON ST;

THENCE EASTERLY ALONG THE CENTERLINE OF LAWTON ST AND IT'S EASTERLY PROLONGATION TO A POINT IN THE EAST LINE OF SECTION 1, TOWNSHIP 27 SOUTH, RANGE 21 EAST, M.D.B.&M.;

THENCE SOUTHERLY ALONG THE EAST LINE OF SAID SECTION 1 TO THE EAST QUARTER CORNER OF SAID SECTION 1;

THENCE WESTERLY IN A STRAIGHT LINE TO THE WEST QUARTER CORNER OF SAID SECTION 1;

THENCE SOUTHERLY ALONG THE WEST LINE OF SAID SECTION 1 TO THE SOUTHWEST CORNER OF SAID SECTION 1;

THENCE WESTERLY ALONG THE SOUTH LINE OF SECTION 2, TOWNSHIP 27 SOUTH, RANGE 21 EAST, M.D.B.&M. TO THE CENTERLINE OF THE CALIFORNIA AQUEDUCT;

THENCE SOUTHERLY AND SOUTHEASTERLY ALONG THE CENTERLINE OF THE CALIFORNIA AQUEDUCT TO A POINT IN THE NORTH LINE OF SECTION 31, TOWNSHIP 30 SOUTH, RANGE 25 EAST, M.D.B.&M.;

THENCE EASTERLY ALONG THE NORTH LINES OF SECTIONS 31, 32, AND 33, TOWNSHIP 30 SOUTH, RANGE 25 EAST, M.D.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 33;

THENCE NORTHERLY ALONG THE WEST LINE OF SECTION 27, TOWNSHIP 30 SOUTH, RANGE 25 EAST, M.D.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 27;

THENCE EASTERLY ALONG THE NORTH LINES OF SECTIONS 27 AND 26, TOWNSHIP 30 SOUTH, RANGE 25 EAST, M.D.B.&M., TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 43 (ENOS LN);

THENCE NORTHERLY ALONG THE CENTERLINE OF STATE HIGHWAY 43 TO THE WEST QUARTER CORNER OF SECTION 13, TOWNSHIP 29 SOUTH, RANGE 25 EAST, M.D.B.&M.;

THENCE EASTERLY IN A STRAIGHT LINE TO THE CENTER OF SAID SECTION 13;

THENCE NORTHERLY IN A STRAIGHT LINE TO THE NORTH QUARTER CORNER OF SAID SECTION 13;

THENCE ALONG THE NORTH LINE OF SAID SECTION 13 TO THE NORTHEAST CORNER OF SAID SECTION 13;

THENCE NORTHERLY ALONG THE WEST LINE OF SECTION 7, TOWNSHIP 29 SOUTH, RANGE 26 EAST, M.D.B.&M., TO THE WEST QUARTER CORNER OF SAID SECTION 7;

THENCE EASTERLY IN A STRAIGHT LINE TO THE EAST QUARTER CORNER OF SAID SECTION 7;

THENCE CONTINUING EASTERLY IN A STRAIGHT LINE TO THE CENTER OF SECTION 8, TOWNSHIP 29 SOUTH, RANGE 26 EAST, M.D.B.&M.;

THENCE NORTHERLY IN A STRAIGHT LINE TO THE NORTH QUARTER CORNER OF SAID SECTION 8;

THENCE EASTERLY ALONG THE NORTH LINE OF SAID SECTION 8 TO THE NORTHEAST CORNER OF SAID SECTION 8;

THENCE NORTHERLY ALONG THE WEST LINE OF SECTION 4, TOWNSHIP 29 SOUTH, RANGE 26 EAST, M.D.B.&M., TO THE NORTHWEST CORNER OF SAID SECTION 4;

THENCE EASTERLY ALONG THE NORTH LINES OF SECTIONS 4, 3, 2, AND 1, TOWNSHIP 29 SOUTH, RANGE 26 EAST, M.D.B.&M., TO THE NORTHEAST CORNER OF SAID SECTION 1;

THENCE CONTINUING EASTERLY ALONG THE NORTH LINE OF SECTION 6, TOWNSHIP 29 SOUTH, RANGE 27 EAST, M.D.B.&M., TO A POINT IN THE CENTERLINE OF THE FRIANT-KERN CANAL;

THENCE NORTHERLY ALONG THE CENTERLINE OF THE FRIANT-KERN CANAL TO A POINT IN THE NORTH LINE OF THE SOUTH HALF OF SECTION 25, TOWNSHIP 28 SOUTH, RANGE 26 EAST, M.D.B.&M.;

THENCE EASTERLY ALONG THE NORTH LINE OF THE SOUTH HALF OF SAID SECTION 25 TO A POINT IN THE EAST LINE OF SAID SECTION 25;

THENCE CONTINUING EASTERLY ALONG THE NORTH LINE OF THE SOUTH HALF OF SECTION 30, TOWNSHIP 28 SOUTH, RANGE 27 EAST, M.D.B.&M., TO A POINT IN THE CENTERLINE OF THE BEARDSLEY CANAL;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF THE BEARDSLEY CANAL TO A POINT IN THE NORTH LINE OF SAID SECTION 25, TOWNSHIP 28 SOUTH, RANGE 26 EAST, M.D.B.&M.;

THENCE EASTERLY ALONG THE NORTH LINE OF SAID SECTION 25 TO THE NORTHEAST CORNER OF SAID SECTION 25;

THENCE CONTINUING EASTERLY ALONG THE NORTH LINES OF SECTIONS 30, 29, AND 28, TOWNSHIP 28 SOUTH, RANGE 27 EAST, M.D.B.&M., TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 65;

THENCE NORTHERLY ALONG THE CENTERLINE OF STATE HIGHWAY 65 TO A POINT IN THE BOUNDARY OF KERN AND TULARE COUNTIES;

THENCE WESTERLY ALONG THE NORTH BOUNDARY OF KERN COUNTY TO THE POINT OF BEGINNING.

EXCEPTION PORTION 2:

THAT PORTION OF KERN COUNTY LYING EAST OF THE FOLLOWING DESCRIBED LINE:

BEGINNING AT THE INTERSECTION OF THE BOUNDARY BETWEEN KERN AND INYO COUNTIES WITH THE CENTERLINE OF THE FIRST LOS ANGELES AQUEDUCT;

THENCE SOUTHERLY ALONG THE CENTERLINE OF THE FIRST LOS ANGELES AQUEDUCT TO A POINT IN THE SOUTH LINE OF SECTION 36, TOWNSHIP 30 SOUTH, RANGE 36 EAST, M.D.B.&M;

THENCE EASTERLY ALONG THE SOUTH LINE OF SAID SECTION 36 TO THE SOUTHEAST CORNER OF SAID SECTION 36;

THENCE CONTINUING EASTERLY ALONG THE SOUTH LINE OF SECTION 31, TOWNSHIP 30 SOUTH, RANGE 37 EAST, M.D.B.&M, TO THE NORTHWEST CORNER OF LOT 13, SECTION 32, TOWNSHIP 30 SOUTH, RANGE 37 EAST, M.D.B.&M.;

THENCE SOUTHERLY ALONG THE WEST LINE OF SAID LOT 13 TO THE SOUTHWEST CORNER OF SAID LOT 13;

THENCE EASTERLY ALONG THE SOUTH LINES OF LOTS 13 AND 12 OF SECTION 32, TOWNSHIP 30 SOUTH, RANGE 37 EAST, M.D.B.&M., TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 14;

THENCE SOUTHERLY ALONG THE CENTERLINE OF STATE HIGHWAY 14 TO A POINT IN THE CENTERLINE OF CALIFORNIA CITY BL;

THENCE WESTERLY ALONG THE CENTERLINE OF CALIFORNIA CITY BL (CHANGES NAME TO RANDBURG CUTOFF RD) TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 58;

THENCE WESTERLY ALONG THE CENTERLINE OF STATE HIGHWAY 58 TO A POINT IN THE CENTERLINE OF CAMERON CANYON RD;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF CAMERON CANYON RD TO A POINT IN THE CENTERLINE OF TEHACHAPI WILLOW SPRINGS RD;

THENCE SOUTHERLY ALONG THE CENTERLINE OF TEHACHAPI WILLOW SPRINGS RD TO A POINT IN THE CENTERLINE OF THE LOS ANGELES AQUEDUCT;

THENCE SOUTHWESTERLY ALONG THE CENTERLINE OF THE LOS ANGELES AQUEDUCT TO A POINT IN THE WEST LINE OF SECTION 1, TOWNSHIP 9 NORTH, RANGE 15 WEST, S.B.B.&M.;

THENCE SOUTHERLY ALONG THE WEST LINES OF SECTIONS 1, 12, 13, 24, 25, AND 36, TOWNSHIP 9 NORTH, RANGE 15 WEST, S.B.B.&M., TO THE SOUTHWEST CORNER OF SAID SECTION 36, SAID CORNER BEING A POINT IN THE BOUNDARY OF KERN AND LOS ANGELES COUNTY.

LOS ANGELES COUNTY PORTION

BEGINNING AT THE MOST NORTHERLY POINT IN THE BOUNDARY OF LOS ANGELES AND VENTURA COUNTIES;

THENCE SOUTHEASTERLY ALONG THE BOUNDARY OF VENTURA AND LOS ANGELES COUNTIES TO A POINT IN THE CENTERLINE OF STATE HIGHWAY 126;

THENCE EASTERLY ALONG THE CENTERLINE OF STATE HIGHWAY 126 TO A POINT IN THE CENTERLINE OF COMMERCE CENTER DR;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF COMMERCE CENTER DR TO A POINT IN THE CENTERLINE OF HENRY MAYO DR;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF HENRY MAYO DR TO A POINT IN THE CENTERLINE OF THE OLD ROAD;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF THE OLD ROAD TO A POINT IN THE CENTERLINE OF MC BEAN PARKWAY;

THENCE EASTERLY ALONG THE CENTERLINE OF MC BEAN PARKWAY TO A POINT IN THE CENTERLINE OF INTERSTATE HIGHWAY 5;

THENCE SOUTHEASTERLY ALONG THE CENTERLINE OF INTERSTATE HIGHWAY 5 TO A POINT IN THE CENTERLINE OF SOUTHERN CALIFORNIA GAS CO.(SCG) TRANSMISSION LINE 3000;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF SCG TRANSMISSION LINE 3000 TO THE CENTERLINE OF SCG TRANSMISSION LINE NO. 235;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF SCG TRANSMISSION LINE NO. 235 TO A POINT IN THE CENTERLINE OF GOLDEN VALLEY RD;

THENCE NORTHWESTERLY ALONG THE CENTERLINE OF GOLDEN VALLEY RD (CHANGES NAME TO NEWHALL RANCH RD) TO A POINT IN THE CENTERLINE OF BOUQUET CANYON RD;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF BOUQUET CANYON RD TO A POINT IN CENTERLINE OF SECO CANYON DR;

THENCE NORTHERLY ALONG THE CENTERLINE OF SECO CANYON DR TO A POINT IN THE CENTERLINE OF COPPER HILL DR;

THENCE WESTERLY ALONG THE CENTERLINE OF COPPER HILL DR TO A POINT IN THE CENTERLINE OF SAN FRANCISQUITO CANYON RD;

THENCE NORTHEASTERLY ALONG THE CENTERLINE OF SAN FRANCISQUITO CANYON RD TO A POINT IN THE CENTERLINE OF ELIZABETH LAKE RD;

THENCE WESTERLY ALONG THE CENTERLINE OF ELIZABETH LAKE RD (CHANGES NAME TO PINE CANYON RD) TO A POINT IN THE WEST LINE OF SECTION 23, TOWNSHIP 7 NORTH, RANGE 15 WEST, S.B.B.&M.

THENCE NORTHERLY ALONG THE WEST LINES OF SECTIONS 23, 14,11, AND 2, TOWNSHIP 7 NORTH, RANGE 15 WEST, S.B.B.&M., TO THE SOUTHWEST CORNER OF SECTION 35, TOWNSHIP 8 NORTH, RANGE 15 WEST, S.B.B.&M.;

THENCE NORTHERLY ALONG THE WEST LINES OF SECTIONS 35, 26, 23, 14, 11, AND 2, TOWNSHIP 8 NORTH, RANGE 15 WEST, S.B.B.&M. TO THE NORTHWEST CORNER OF SAID SECTION 2, SAID CORNER BEING A POINT IN THE BOUNDARY OF LOS ANGELES AND KERN COUNTIES;

THENCE WESTERLY ALONG THE NORTH AND WEST LINES OF LOS ANGELES COUNTY TO THE POINT OF BEGINNING.

Ventura Compressor Station Alternatives Evaluation

Numbers provided by PMT, Estimating, Operations, BMcD, ROW

STEP 5: COST AND SCHEDULE

	Option 1: Ventura- Existing Site North Olive Street		Option 2: Avocado Site- Ventura		Option 3: Ventura Steel		Option 4: Devil's Cyn Rd		Option 5: County Line	
	Natural Gas (1A)	Hybrid (1B)	Natural Gas (2A)	Hybrid (2B)	Natural Gas (3A)	Hybrid (3B)	Natural Gas (4A)	Hybrid (4B)	Natural Gas (5A)	Hybrid (5B)
Project Cost (Class 5)										
Property/ROW(road/pipeline/power/temp construction easements). Acquisition Included Here Plus All Loaders.	\$2,000,000	\$2,000,000	\$18,000,000	\$19,000,000	\$82,000,000	\$82,000,000	\$47,000,000	\$47,000,000	\$6,000,000	\$6,000,000
EPC + everything else to execute the project	\$ 419,000,000	\$ 462,000,000	\$ 659,000,000	\$ 688,000,000	\$ 525,000,000	\$ 553,000,000	\$ 519,000,000	\$ 547,000,000	\$ 587,000,000	\$ 616,000,000
Project Cost Totals	\$421,000,000	\$464,000,000	\$677,000,000	\$707,000,000	\$607,000,000	\$635,000,000	\$566,000,000	\$594,000,000	\$593,000,000	\$622,000,000
Operational Cost (Annual)										
Cost for Fuel -Typical Annual Usage - Gas and Electric + Auxilliary Loads. Assumes 50/50 Usage for Hybrid	\$299,200	\$1,447,500	\$299,200	\$1,447,500	\$299,200	\$1,447,500	\$299,200	\$1,447,500	\$374,000	\$2,096,625
Annual Maintenance Costs - compressors are same regardless of drive type; lower maintenance for electric motor drive; additional personnel training if hybrid; NSCR, CEMS (1/2 FTE) and higher compressed air needs for engines.	\$600,000	\$325,000	\$600,000	\$325,000	\$600,000	\$325,000	\$600,000	\$325,000	\$700,000	\$375,000
Fuel Modification - landscape maintenance re brush fire defensible space. (\$2500/day for a landscape crew)	\$5,000	\$5,000	\$50,000	\$50,000	\$10,000	\$10,000	\$20,000	\$20,000	\$50,000	\$50,000
Operational Cost Totals	\$904,200	\$1,777,500	\$949,200	\$1,822,500	\$909,200	\$1,782,500	\$919,200	\$1,792,500	\$1,124,000	\$2,521,625

SCG
Class 5 (+100% / -50% Accuracy)

Done by: Campos
Rev: 2
Date: 1/25/2022

Avocado - (4) Gas Compressor Option

Description	Qty	UOM	Unit Cost	Total Cost	Comments
Total EPC (Before Site Specific Additions)	1	LS		\$ 166,000,000	Based on 2020 FEED Estimate; See "Base EPC Elec. Study"
<i>Site Demolition</i>	0	SY	\$	\$	N/A
Clear & Grub / Grade Laydown Area	5.6	ACRE	\$ 86,589	\$ 487,496	
Site Grading and Imported Fill (Assume half of excavated volume will be imported fill)	650,000	CY	\$ 41	\$ 26,649,970	
Disposal of spoils	975,000	Tons	\$ 30	\$ 29,250,000	Includes trucking and disposal fees
Terraced Retaining wall (15' H x 700' L) x 3	31,500	SF	\$ 90	\$ 2,835,000	
Slope & Bench Retaining wall (15' H x 2400' L) x 2	72,000	SF	\$ 90	\$ 6,480,000	
Grade and Widen Access Road (25'W x 12,530 LF)	313,250	SF	\$ 25	\$ 7,799,940	
Retaining wall for access road (8' tall x 3,000 LF)	24,000	SF	\$ 60	\$ 1,440,000	
Concrete Drainage Ditch (5,500 LF)	5,500	LF	\$ 85	\$ 467,500	
<i>New Pipelines (Improved)</i>	0	LF	\$	\$	N/A
New Pipelines (Unimproved)	3,485	LF	\$ 364	\$ 1,268,467	(2) 16" Lines to L1004 and (2) 16" lines to L1005
MLV Station	2	EA	\$ 900,000	\$ 1,800,000	
Piles	489	EA	\$ 25,000	\$ 12,225,000	
Additional Engineering for Pipeline, Retaining Wall, Access Road, and Site Grading	1	LS	\$ 1,500,000	\$ 1,500,000	
Weather Allowance	1	LS	\$ 2,000,000	\$ 2,000,000	Allowance to cover any delays due to weather
<i>Additional SCE Substation Cost</i>	0	LS	\$ 6,000,000	\$	N/A
Total EPC Cost With Cost Adders				\$ 260,203,000	
SCG Company Labor	1	LS	\$ 13,950,815	\$ 13,950,815	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 79 months
3rd Party Project Services	1	LS	\$ 22,711,037	\$ 22,711,037	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 79 months
3rd Party Inspection Services	1	LS	\$ 1,452,204	\$ 1,452,204	Based on 2020 Ventura FEED, add 30% for new pipelines
3rd Party Surveying / As-Builts	1	LS	\$ 400,400	\$ 400,400	Based on 2020 Ventura FEED, add 30% for new pipelines
3rd Party Environmental	1	LS	\$ 10,079,886	\$ 10,079,886	Based on input provided by Environmental Group, See "Environmental" Tab
3rd Party Pressure Test Cert.	1	LS	\$ 300,000	\$ 300,000	Based on 2020 Ventura FEED, add \$100K allowance for hydrotesting new pipelines
3rd Party Land Services	1	LS	\$ 9,550,523	\$ 9,550,523	Based on input provided by Land group, includes crop loss; See "Land" Tab
3rd Party Misc. Services	1	LS	\$ 2,810,000	\$ 2,810,000	Based on 2020 Ventura FEED, reduced commissioning/startup and vendor reps based on commissioning and vendor reps already included in EPC
3rd Party Outreach & Public Affairs	1	LS	\$ 3,400,000	\$ 3,400,000	Assumes 1% of total cost
3rd Party Permits	1	LS	\$ 280,700	\$ 280,700	Based on 2020 Ventura FEED, Add allowance of \$250K for environmental permits
3rd Party Other Non-Labor	1	LS	\$ 697,541	\$ 697,541	Based on 5% of total SCG Company Labor Costs
Total Un-Loaded Direct Cost				\$ 325,836,000	
Contingency	30%			\$ 97,750,800	
Actuals				\$ 22,374,794	as of September 30, 2021 (Directs only, actuals for loaders are included under loaders)
Escalation	14.50%			\$ 61,401,162	
Total Un-Loaded Direct Cost w/ Contingency				\$ 507,363,000	
Loaders	33%			\$ 169,398,336	Included as a placeholder, recommend to be verified by project controls, includes actuals for Loaders
Total Loaded Project Cost				\$ 677,000,000	Class 5 (+100% / -50%)

Year	Escalation %	Escalation \$
2027	16.90%	\$ 28,060,569
2025	11.03%	\$
2025	11.03%	\$ 53,749
2026	13.92%	\$ 3,709,712
2026	13.92%	\$ 4,071,640
2026	13.92%	\$ 394,636
2026	13.92%	\$ 902,025
2023	5.66%	\$ 441,477
2023	5.66%	\$ 81,504
2026	13.92%	\$ 65,077
2025	11.03%	\$
2026	13.92%	\$ 176,572
2026	13.92%	\$ 250,562
2026	13.92%	\$ 1,701,737
2022	3.04%	\$ 45,600
2026	13.92%	\$ 278,403
2025	11.03%	\$
N/A	0.00%	\$ -
2024	8.32%	\$ 1,889,558
2027	16.90%	\$ 245,480
2027	16.90%	\$ 67,683
2024	8.32%	\$ 838,647
2026	13.92%	\$ 41,760
2024	8.32%	\$ 794,604
2027	16.90%	\$ 475,001
2024	8.32%	\$ 282,880
2022	3.04%	\$ 8,533
N/A	0.00%	\$ -
	0.00%	
2027	16.90%	\$ 16,523,753

Total Escalation \$ 61,401,162

Low	-50%	\$ 338,500,000
High	100%	\$ 1,354,000,000

Disclaimer: This estimate is a Class 5 (+100% / -50%) Estimate and has been requested by the SCG Project team for the sole purpose of feasibility studies to support discussions with the CPUC. This estimate is not intended to be used to for any budgetary funding.

SCG
Class 5 (+100% / -50% Accuracy)

Done by: Campos
Rev: 2
Date: 1/25/2022

Avocado - (2) Gas x (2) Electric Compressors

Description	Qty	UOM	Unit Cost	Total Cost	Comments
Total EPC (Before Site Specific Additions)	1	LS		\$ 174,000,000	Based on 2020 FEED Estimate and adjusted for Hybrid Option; See "Base EPC Elec. Study"
<i>Site Demolition</i>	0	SF	\$ -	\$ -	N/A
Clear & Grub / Grade Laydown Area	5.6	ACRE	\$ 86,589	\$ 487,496	
Site Grading and Imported Fill (Assume half of excavated volume will be imported fill)	650,000	CY	\$ 41	\$ 26,649,970	
Disposal of spoils	975,000	Tons	\$ 30	\$ 29,250,000	Includes trucking and disposal fees
Terraced Retaining wall (15' H x 700' L) x 3	31,500	SF	\$ 90	\$ 2,835,000	
Slope & Bench Retaining wall (15' H x 2400' L) x 2	72,000	SF	\$ 90	\$ 6,480,000	
Grade and Widen Access Road (25'W x 12,530 LF)	313,250	SF	\$ 25	\$ 7,799,940	
Retaining wall for access road (8' tall x 3,000 LF)	24,000	SF	\$ 60	\$ 1,440,000	
Concrete Drainage Ditch (5,500 LF)	5,500	LF	\$ 85	\$ 467,500	
<i>New Pipelines (Improved)</i>	0	LF	\$ -	\$ -	N/A
New Pipelines (Unimproved)	3,485	LF	\$ 364	\$ 1,268,467	(2) 16" Lines to L1004 and (2) 16" lines to L1005
MLV Station	2	EA	\$ 900,000	\$ 1,800,000	
Piles	489	EA	\$ 25,000	\$ 12,225,000	
Additional Engineering for Pipeline, Retaining Wall, Access Road, and Site Grading	1	LS	\$ 1,500,000	\$ 1,500,000	
Weather Allowance	1	LS	\$ 2,000,000	\$ 2,000,000	Allowance to cover any delays due to weather
Additional SCE Substation Cost	1	LS	\$ 7,000,000	\$ 7,000,000	Additional cost added to bring total SCE cost to \$11M, Assumes 5 miles
Total EPC Cost With Cost Adders				\$ 275,203,000	
SCG Company Labor	1	LS	\$ 13,950,815	\$ 13,950,815	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 79 months
3rd Party Project Services	1	LS	\$ 22,711,037	\$ 22,711,037	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 79 months
3rd Party Inspection Services	1	LS	\$ 1,452,204	\$ 1,452,204	Based on 2020 Ventura FEED, add 30% for new pipelines
3rd Party Surveying / As-Builts	1	LS	\$ 400,400	\$ 400,400	Based on 2020 Ventura FEED, add 30% for new pipelines
3rd Party Environmental	1	LS	\$ 10,079,886	\$ 10,079,886	Based on input provided by Environmental Group, See "Environmental" Tab
3rd Party Pressure Test Cert.	1	LS	\$ 300,000	\$ 300,000	Based on 2020 Ventura FEED, add \$100K allowance for hydrotesting new pipelines
3rd Party Land Services	1	LS	\$ 9,550,523	\$ 9,550,523	Based on input provided by Land group, includes crop loss; See "Land" Tab
3rd Party Misc. Services	1	LS	\$ 2,810,000	\$ 2,810,000	Based on 2020 Ventura FEED, reduced commissioning/startup and vendor reps based on commissioning and vendor reps already included in EPC
3rd Party Outreach & Public Affairs	1	LS	\$ 3,600,000	\$ 3,600,000	Assumes 1% of total project cost
3rd Party Permits	1	LS	\$ 280,700	\$ 280,700	Based on 2020 Ventura FEED, Add allowance of \$250K for environmental permits
3rd Party Other Non-Labor	1	LS	\$ 697,541	\$ 697,541	Based on 5% of total SCG Company Labor Costs
Total Un-Loaded Direct Cost				\$ 341,036,000	
Contingency	30%			\$ 102,310,800	
Actuals				\$ 22,374,794	as of September 30, 2021 (Directs only, actuals for loaders are included under loaders)
Escalation	14.44%			\$ 64,013,210	
Total Un-Loaded Direct Cost w/ Contingency				\$ 529,735,000	
Loaders	33%			\$ 176,781,096	Included as a placeholder, recommend to be verified by project controls, includes actuals for Loaders
Total Loaded Project Cost				\$ 707,000,000	Class 5 (+100% / -50%)

Year	Escalation %	Escalation \$
2027	16.90%	\$ 29,412,886
2025	11.03%	\$ -
2025	11.03%	\$ 53,749
2026	13.92%	\$ 3,709,712
2026	13.92%	\$ 4,071,640
2026	13.92%	\$ 394,636
2026	13.92%	\$ 902,025
2023	5.66%	\$ 441,477
2023	5.66%	\$ 81,504
2026	13.92%	\$ 65,077
2025	11.03%	\$ -
2026	13.92%	\$ 176,572
2026	13.92%	\$ 250,562
2026	13.92%	\$ 1,701,737
2022	3.04%	\$ 45,600
2026	13.92%	\$ 278,403
2025	11.03%	\$ 771,791
N/A	0.00%	\$ -
2024	8.32%	\$ 1,889,558
2027	16.90%	\$ 245,480
2027	16.90%	\$ 67,683
2024	8.32%	\$ 838,647
2026	13.92%	\$ 41,760
2024	8.32%	\$ 794,604
2027	16.90%	\$ 475,001
2024	8.32%	
2022	3.04%	\$ 8,533
N/A	0.00%	\$ -
2027	16.90%	\$ 17,294,574

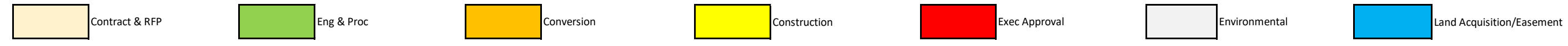
Total Escalation \$ 64,013,210

Low	-50%	\$ 353,500,000
High	100%	\$ 1,414,000,000

Disclaimer: This estimate is a Class 5 (+100% / -50%) Estimate and has been requested by the SCG Project team for the sole purpose of feasibility studies to support discussions with the CPUC. This estimate is not intended to be used to for any budgetary funding.

Description	Qty	UOM	Unit Material	Material Cost	Unit Manhour	Manhours	Labor Cost	Unit Subcontract Cost	Subcontractor Cost	Total Cost	Unit Cost	Comments
Site Demolition	0	SF		\$ -		0	\$ -		\$ -	\$ -	\$ -	Included in Land
Clear & Grub / Grade Laydown Area	5.6	ACRE		\$ -	462	3,250	\$ 487,496		\$ -	\$ 487,496	\$ 86,589.03	Assume 1 crew x 3 months
Site Grading and Imported Fill (Assume half of excavated volume will be imported fill)	650,000	CY	\$ 35.00	\$ 22,750,000	0.032	26,000	\$ 3,899,970		\$ -	\$ 26,649,970	\$ 41.00	Assume 12 months and 10-man crew
Disposal of spoils	975,000	Tons						\$ 30	\$ 29,250,000	\$ 29,250,000	\$ 30.00	Includes trucking and disposal fees
Terraced Retaining wall (15' H x 700' L) x 3	31,500	SF		\$ -		0	\$ -	\$ 90	\$ 2,835,000	\$ 2,835,000	\$ 90.00	See "Cost Ref" Tab
Slope & Bench Retaining wall (15' H x 2400' L) x 2	72,000	SF		\$ -		0	\$ -	\$ 90	\$ 6,480,000	\$ 6,480,000	\$ 90.00	
Grade and Widen Access Road (25'W x 12,530 LF)	313,250	SF		\$ -	0.1328	52,000	\$ 7,799,940		\$ -	\$ 7,799,940	\$ 24.90	Assume 1 crew x 24 months
Retaining wall for access road (8' tall x 3,000 LF)	24,000	SF		\$ -		0	\$ -	\$ 60	\$ 1,440,000	\$ 1,440,000	\$ 60.00	
Concrete Drainage Ditch (5,500 LF)	5,500	LF		\$ -		0	\$ -	\$ 85	\$ 467,500	\$ 467,500	\$ 85.00	
New Pipelines (Improved)	0	LF	\$ 95.00	\$ -		0	\$ -		\$ -	\$ -	\$ -	
New Pipelines (Unimproved)	3,485	LF	\$ 114.00	\$ 397,267		0	\$ -	\$ 250	\$ 871,200	\$ 1,268,467	\$ 364.00	Added 20% to price to account for misc. fittings
MLV Station	2	EA		\$ -		0	\$ -	\$ 900,000	\$ 1,800,000	\$ 1,800,000	\$ 900,000.00	Includes automation, valves, electrical contractor, etc.
Piles	489	EA		\$ -		0	\$ -	\$ 25,000	\$ 12,225,000	\$ 12,225,000	\$ 25,000.00	
				\$ -		0	\$ -		\$ -	\$ -	\$ -	
				\$ -		0	\$ -		\$ -	\$ -	\$ -	
TOTALS										\$ 90,703,373	\$ -	

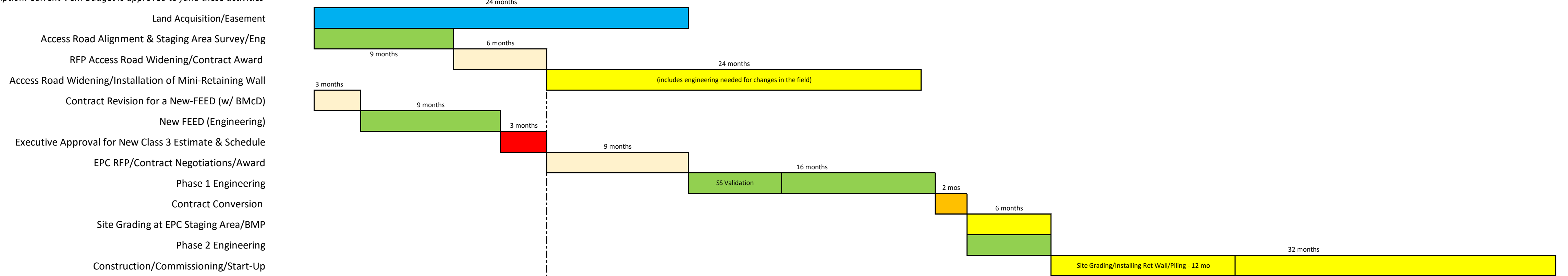
Ventura Compressor Project
EPC Construction Schedule on Alternative Locations
Date: 1/25/22, Rev 6



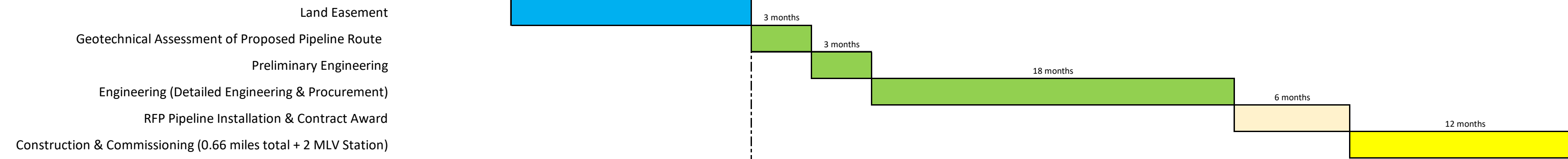
AVOCADO

Compressor Station (4 Gas & Hybrid)

Assumption: Current VCM Budget is approved to fund these activities



New Pipeline & Main Line Valve Station

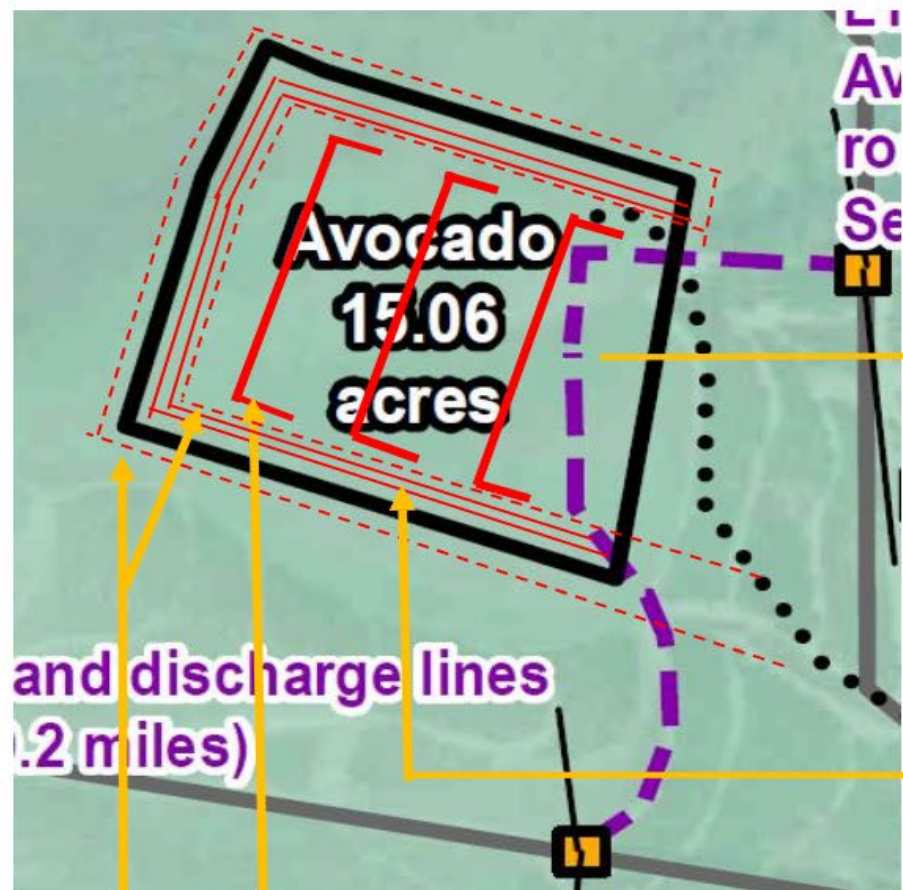


Electrical Infrastructure (SoCal Edison) for Hybrid



	Qty	UOM	No. Supports Each	Total
Pipe Supports	116	EA	2	232
Equipment Count	56	EA	4	224
Compressor Building	1	EA	15	15
Admin Building	1	EA	9	9
New Warehouse	1	EA	9	9
				489

COMPRESSOR MODERNIZATION EQUIPMENT LIST		
PACKAGE EQUIPMENT		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
C-3400	GAS COMPRESSOR	NEW
C-3500	GAS COMPRESSOR	NEW
C-3600	GAS COMPRESSOR	NEW
C-3700	GAS COMPRESSOR	NEW
SK-4001	INSTRUMENT AIR COMPRESSOR SKID	NEW
SK-4003	STARTING AIR COMPRESSOR SKID	NEW
G-3100	EMERGENCY GENERATOR SKID	NEW
ST-3001	BLOWDOWN STACK	NEW
EXCHANGERS		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
E-3400	DISCHARGE COOLER	NEW
E-3500	DISCHARGE COOLER	NEW
E-3600	DISCHARGE COOLER	NEW
E-3700	DISCHARGE COOLER	NEW
E-3401	AUXILIARY WATER COOLER	NEW
E-3402	JACKET WATER COOLER	NEW
E-3501	AUXILIARY WATER COOLER	NEW
E-3502	JACKET WATER COOLER	NEW
E-3601	AUXILIARY WATER COOLER	NEW
E-3602	JACKET WATER COOLER	NEW
E-3701	AUXILIARY WATER COOLER	NEW
E-3702	JACKET WATER COOLER	NEW
VESSELS		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
V-3100	GENERATOR FUEL GAS REGULATOR FILTER	NEW
V-4000A	FILTER/SEPARATOR	NEW
V-4000B	FILTER/SEPARATOR	NEW
V-4001	DISCHARGE SCRUBBER	NEW
V-4002	STARTING AIR RECEIVER	NEW
V-4003	OILY WASTE STORAGE DRUM	NEW
V-4004	ENGINE OIL STORAGE DRUM	NEW
V-4005	WASTE OIL STORAGE DRUM	NEW
V-4006	INSTRUMENT AIR RECEIVER	NEW
V-4011	CONDENSATE DRIP DRUM	NEW
V-4012	COOLANT STORAGE DRUM	NEW
V-4013	COMPRESSOR FUEL GAS REGULATOR FILTER	NEW
T-4001	COMPRESSOR AREA OILY WASTE TANK	NEW
T-4002	COMPRESSOR AREA OIL WASTE TANK	NEW
T-4003	COMPRESSOR AREA COOLANT DRAIN SUMP	NEW
PUMPS		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
P-4001	ENGINE OIL CHARGE PUMP	NEW
P-4003	COMPRESSOR AREA OILY WASTE TANK PUMP	NEW
P-4004	WASTE OIL TANK PUMP	NEW
P-4005	COMPRESSOR ENGINE WASTE COOLANT PUMP	NEW
P-4006	COOLANT CHARGE PUMP	NEW
MISC		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
F-3400	INLET AIR FILTER #1	NEW
F-3500	INLET AIR FILTER #2	NEW
F-3600	INLET AIR FILTER #3	NEW
F-3700	INLET AIR FILTER #4	NEW
R-3400	CATALYTIC CONVERTER #1	NEW
R-3500	CATALYTIC CONVERTER #2	NEW
R-3600	CATALYTIC CONVERTER #3	NEW
R-3700	CATALYTIC CONVERTER #4	NEW
S-3400	EXHAUST SILENCER #1	NEW
S-3401	INLET SILENCER #1	NEW
S-3500	EXHAUST SILENCER #2	NEW
S-3501	INLET SILENCER #2	NEW
S-3600	EXHAUST SILENCER #3	NEW
S-3601	INLET SILENCER #3	NEW
S-3700	EXHAUST SILENCER #4	NEW
S-3701	INLET SILENCER #4	NEW



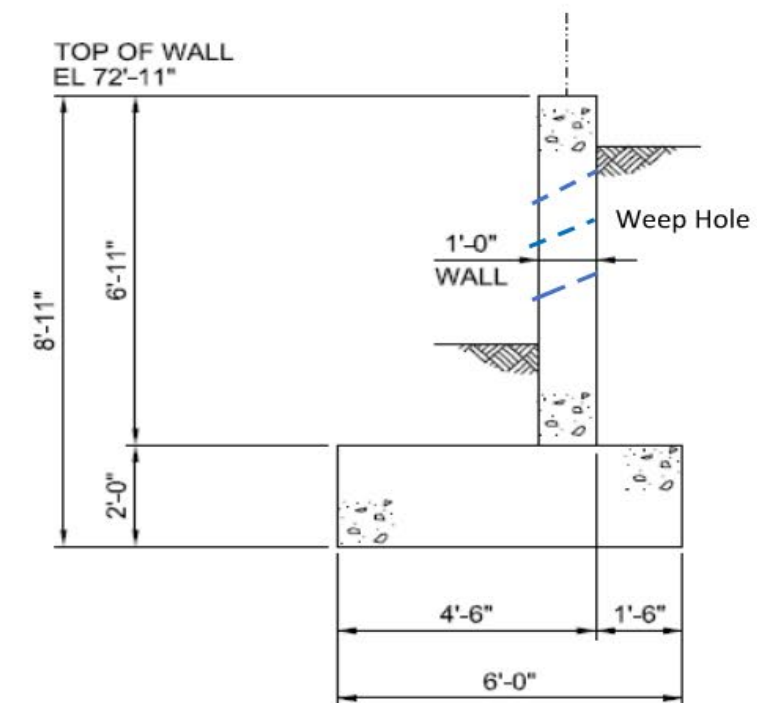
Slope and Bench Retaining Wall (2 Benches) – See note below

Terraced Retaining Wall (3 Locations)

Perimeter Interception Drainage (V-drain) connects to new access road drainage (see typical detail on right)



Avocado Location

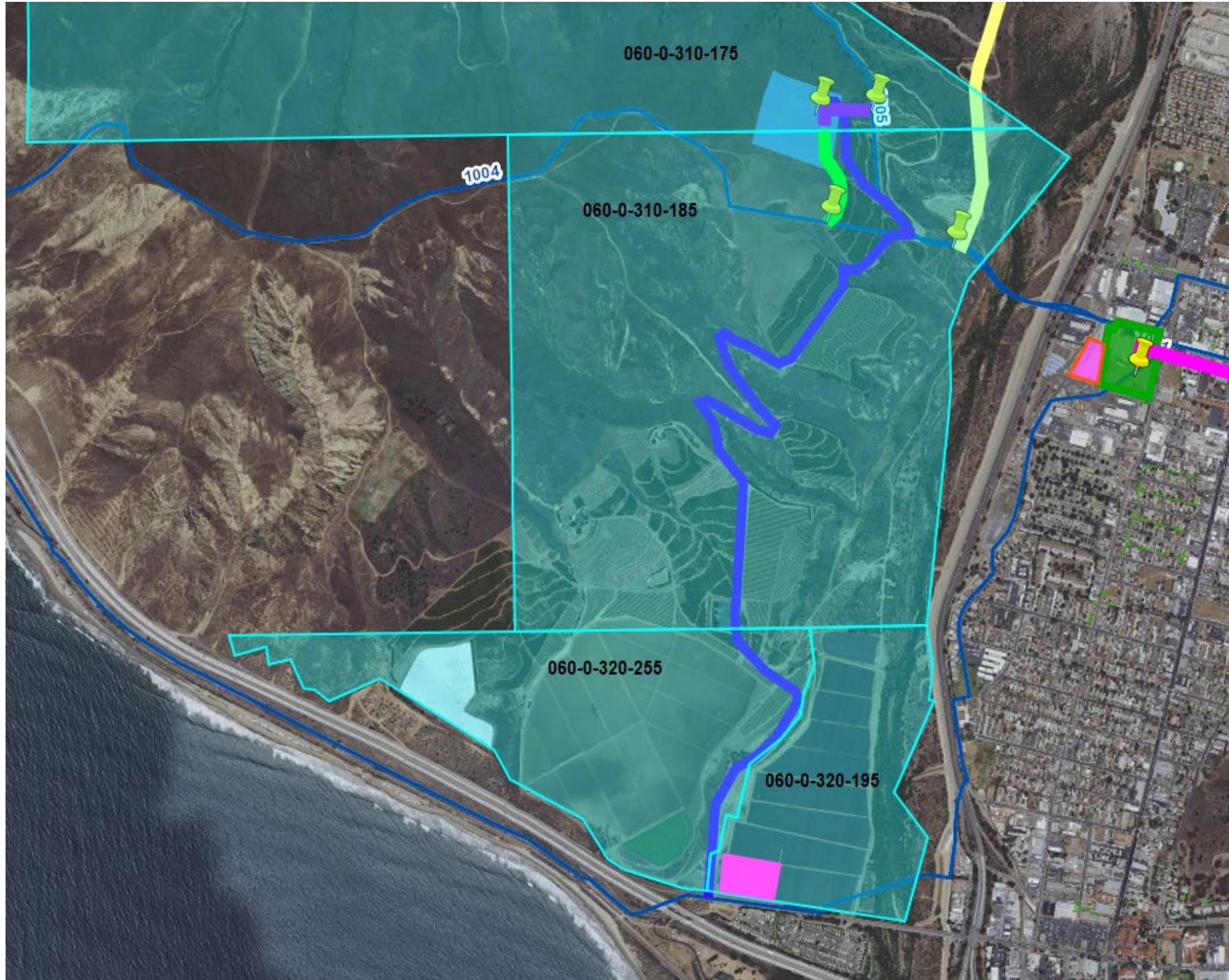


Terraced Retaining Wall Typical Detail

Note: The retaining wall height will be 15 ft high (instead of 8 ft and 11 inches) with a 10 ft base. Thickness of wall is 2 feet. Number of weep holes will increase. There will also be a smaller interception drainage (V-drain) on each bench

Location	APN	OWNER_NAME_1	SITE_ADDR	SITE_CITY	SITE_ZIP	ACREAGE	LAND_SQFT	IMPRV_PCT	VAL_TRANSFER	DATE_TRANSFER	DOC_NUMBER	OWNER_1_FIRST	OWNER_1_LAST	OWNER_ADDRESS
Avocado	060-0-310-175	WOOD-CLAEYSSENS FOUNDATION			93001	557	24262920	3.319				WOOD-CLAEYSSENS FOUNDATION		2360 FOOTHILL RD
Avocado	060-0-310-185	WOOD-CLAEYSSENS FOUNDATION			93001	562.79	24515132	47.22				WOOD-CLAEYSSENS FOUNDATION		2360 FOOTHILL RD
Avocado	060-0-320-255	WOOD-CLAEYSSENS FOUNDATION				220.17	9590605	23.09						
Avocado	060-0-320-195	WOOD-CLAEYSSENS FOUNDATION						105.12						

SUB TOTALS



OWNER_CITY	OWNER_STATE	OWNER_ZIP	MAIL_ADDR	MAIL_CITY	MAIL_STATE	MAIL_ZIP	USE_CODE_STD_CTGR_DESC	USE_CODE_STD_DESC	ZONING	LANDUSE_CATEGORY	LANDUSE_DESC	VAL_ASSD
SANTA BARBARA	CA	93105	2360 FOOTHILL RD	SANTA BARBARA	CA	93105	AGRICULTURAL	ORCHARDS, GROVES	AEC-A	AGRICULTURAL	ORCHARD	584116
SANTA BARBARA	CA	93105	2360 FOOTHILL RD	SANTA BARBARA	CA	93105	AGRICULTURAL	FARMS, CROPS	AEC-A	AGRICULTURAL	FARMS	2580708
									CAC-O-1	Orchard	ORCHARD	
									Mult	Truck Croops		

VAL_ASSD_IMPRV	VAL_ASSD_LAND	TOWNSHIP	RANGE	SECTION	Value Per Acre	Value Per Sq Ft	Comp. Station Acres	Comp. Station Cost	Staging Area	Staging Area Term (Mo.)	Staging Area Mo. Cost	Staging Area Costs	Exclusive Valve Easement (2: 50'x75')	Exclusive Valve Easement Cost	MLV TCE Sq Ft	MLV TCE Term (Mo.)	MLV TCE Mo. Cost	Non-Exclusive Easement Width	Non-Exclusive Easement Length	Non-Exclusive Easement Cost		
19388	564728				\$68,500.00	\$ 1.57	15	\$1,027,500.00	0	0	\$ -	\$ -	3,750	\$ 5,897.04	8,750	48	\$24,000.00	50	300	\$ 11,794.08		
1218692	1362016				\$68,500.00	\$ 1.57	-	\$ -	0	0	\$ -	\$ -	3,750	\$ 5,897.04	8,750	48	\$24,000.00	50	625	\$ 24,570.99		
					\$68,500.00	\$ 1.57	-	\$ -	0	0	\$ -	\$ -	-	\$ -	-	-	\$ -	-	-	\$ -		
					\$68,500.00	\$ 1.57	-	\$ -	240,000	48	\$3,145.09	\$150,964.19	-	\$ -	-	-	\$ -	-	-	\$ -		
								\$1,027,500.00				\$150,964.19			\$11,794.08			\$48,000.00				\$ 36,365.07



TCE length	TCE width	TCE Term Mo.	TCE Cost per Mo.	TCE Cost	Access Road Width	Access Road Length	Access Road Cost	Access Road TCE Width	Access Road TCE Length	Access Road TCE Cost	Crop Loss	Condemnation Legal Fees	Notes
300	25	48	\$ 98.28	\$24,000.00	25	230	\$ 4,521.06	25	230	\$ 3,616.85	\$ 7,184,560.75	\$ 600,000.00	
625	25	48	\$ 204.76	\$24,000.00	25	8,700	\$171,014.12	25	8700	\$ 136,811.29	-	-	
		-	-	-	25	3,600	\$ 70,764.46	25	3600	\$ 56,611.57	-	-	
		-	-	-	-	-	\$ -						
				\$ 48,000.00			\$ 246,299.64			\$ 197,039.72	\$ 7,184,560.75	\$ 600,000.00	

ESTIMATION PARAMETERS & NOMINAL VALUES

Exclusive Easement Fee %	100%
Non-Exclusive Easement Fee %	50%
TCE Annual Return Rate %	10%
Exclusive Easement Nominal Value	\$1,500
Non-Exclusive Easement Nominal Value	\$1,000
TCE Workspace Monthly Nominal Value	\$500

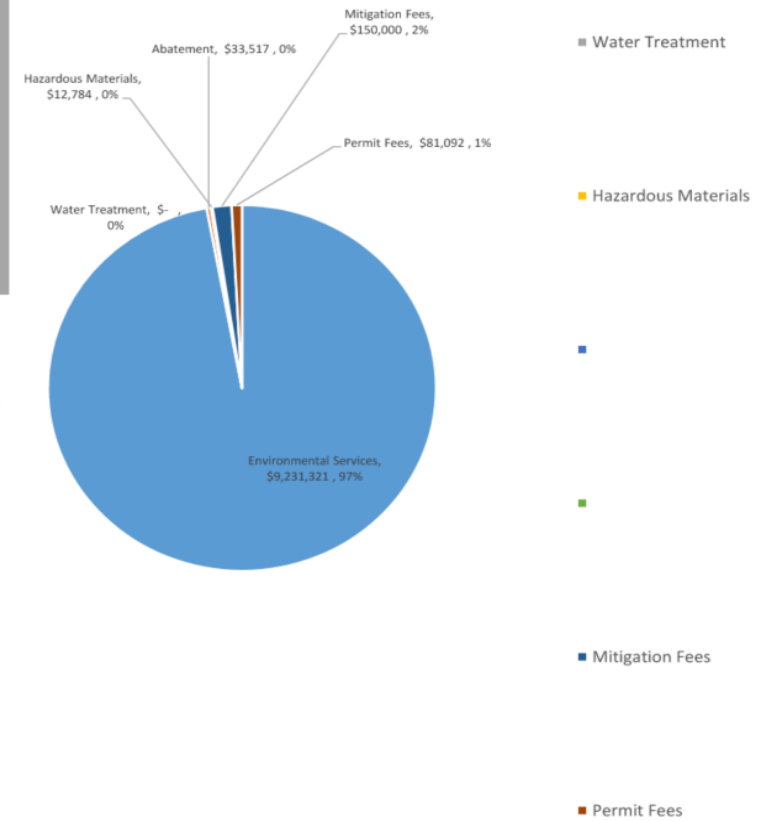
TOTAL \$ 9,550,523.45

Total Environmental Cost: \$ 10,079,886

Version 1.1 10/18/17

Project Detail		
Item Description	Description/Value	Notes/Assumptions
Project Name	Ventura Avocado Site	
County	Ventura	
Project Type (hydrotest, replacement, valve upgrade, valve installation, valve automation)	Compressor Station	Project costs from when a project is selected through closeout.
Diameter (inches)	NA	
Acres	15	Per construction assumptions
New Road/Road improvements length	3.4 acres 12,600 linear feet	Per construction assumptions. Resurface and widen 12,600 linear feet of Taylor Ranch Road to 24-feet with assumed existing width of 12-feet (only new square footage counted in total)
New Pipeline Length (feet)	1,800	Per construction assumptions
Pre Const. Planning Support Duration (weeks)	232	36 months for env permitting plus 22 months per Preliminary Schedule Alternative Locations Rev2
Construction Duration (weeks)	224	56 months per Preliminary Schedule Alternative Locations Rev2
Water Treatment Duration (Months)	0	Hydrostatic test water to be disposed to land for new pipe (no treatment required).
Abatement Duration (days)	10	10 days for tie in to existing pipes
Water Volume (gallons)		No water treatment needed. Assume potable water on clean pipe.
Source Water (potable/non-potable)	Potable	Assumes water to be trucked in.
Water Disposal Method (offsite disposal, beneficial reuse, etc.)	Land	Assumes testing new pipe with potable water and disposal to land. Treatment of water not required.
Number of JD crossings	3	Counted anticipated number of JDs on google earth

Costs	Total	Total Hours
Environmental Services	\$ 9,231,321	
Abatement	\$ 33,517	
Water Treatment	\$ -	
Hazardous Materials	\$ 12,784	
Mitigation Fees	\$ 150,000	
Permit Fees	\$ 81,092	
TOTAL ENVIRONMENTAL COSTS (Purchased Services):	\$ 9,508,714	
Internal Labor	\$ 571,152	11,928.0
Total	\$ 10,079,866	



Instructions for Summary Sheet - Please data enter general project details in the table above (See Columns C and D). This information will then be populated in the other tabs. The pie chart is auto populated.

Compressor Upgrade
Ventura Compressor Modernization Project

PROJECT SUMMARY

EPC - Engineering / Design Services	\$ 28,351,920
EPC - Construction	\$ 118,106,889
EPC - Construction Management	\$ 19,299,000
SCG Labor - Mgmt. & Non Labor	\$ 8,135,466
SCG Labor - Union T/H	\$ 791,500
SCG Labor - Outreach & Public Affairs	\$ 609,000
Material- Pipe & Fittings & Valves	\$ -
Material-Valves	\$ -
Material- Other	\$ 110,000
PM / Project Services	\$ 15,523,720
Inspection Services	\$ 1,117,080
Surveying / As-builts	\$ 307,547
Environmental Services	\$ 365,952
Pressure Test Certification Services	\$ 200,000
Water Storage	\$ -
X-ray / NDE	\$ -
Land Services	\$ 1,029,438
CNG / LNG	\$ -
Spreadboss	\$ -
Miscellaneous Services	\$ 5,960,000
Outreach & Public Affairs	\$ -
Permits	\$ 30,736
Other Non-Labor Costs	\$ 476,798
GMA	\$ -
Total Un-Loaded Direct Estimated Cost	\$ 200,415,047
Actuals as of Jan. 2020	\$ 10,221,538
Total Un-Loaded Direct Cost w/Actuals	\$ 210,636,585
Contingency @ 14.85%	\$ 29,753,297
Total Un-Loaded Direct Cost w/Contingency	\$ 240,389,882
Escalation	\$ 5,894,149
Total Un-Loaded Direct Cost w/ Escalation	\$ 246,284,031
Loaders (Provided by Cost Group)	\$ 68,521,769
Total Loaded Project Cost	\$ 314,806,000

FEED EPC COST	\$ 166,000,000
HYBRID DELTA ADDER	\$ 8,000,000
HYBRID EPC COST	\$ 174,000,000

Drainage Infrastructure

ITEMS	UNIT PRICE (\$)	UNIT
1. Drainage Inlet		
Type D	3,000 – 6,000	EA
Type E	4,500	EA
Type F	4,500	EA
Type G (replaces Type A)	4,250 – 7,500	EA
Type H (replaces Type B)	5,500 – 9,000	EA
Type J (replaces Type C)	3,000 – 6,000	EA
If inlet is on manhole base, add		
Type I MH	3,000	
Type II MH	3,500	
Type III MH	4,000	
2. Storm Drain Manhole		
Type I	3,000 - 6,000	EA
Type II	2,500 - 3,700	EA
Type III	4,000 - 5,500	EA
(Add \$250/ft. for depths over 6 ft.)		
3. Non-standard storm drain inlet (2' x 2')	3,000	EA
4. Concrete "V" Ditch (CD60, aka B58 ditch)	70-100	LF
5. Valley Gutter (Minor Concrete)	26	SF
6. Sidewalk Cross Drain (CD06, including 3" x 12" metal duct)	3,000	EA
7. Residential Sidewalk Drain (CD06, including 3" dia. pipe)	2,000	EA
8. Subsurface Edge Drain (CD08, 3" dia. pipe)	25-35	LF
9. CMP (if bit. coated add \$1/LF)	7.50	\$/in.dia./LF
10. Alternative Pipe (HDPE)	8.50	\$/in.dia./LF

Road Infrastructure (cont.)

ITEMS	UNIT PRICE (\$)	UNIT
18. Concrete Structures may be estimated at	1,200	CY
19. Concrete Bridge Deck	170 – 240	SF
20. Wood or Masonry Retaining Wall	40	SF
21. Concrete Retaining Wall	60	SF
22. Street Light – Metal Pole		
0–10	30,000	EA
10 or more	15,000	EA
23. Survey (Street) Monument	1,350	EA
24. Street Sign (Name)	500	EA
25. Traffic Sign	500	EA
Traffic Sign w/Striping Message	1000	EA
26. Metal Beam Guard Rail (wood post)	250	LF
27. Guard Rail - End Anchor Assembly	3,000	EA
28. Guard Rail – Alternate Flared Terminal End	5,000	EA
29. Fence		
4' Chain Link	40	LF
6' Chain Link	55	LF
30. Landscaping (including irrigation system)	15-45	SF
31. Thermoplastic Detail 2	1.30	LF
32. Thermoplastic Detail 9	0.60	LF
33. Thermoplastic Detail 22	1.75	LF
34. Thermoplastic Detail 27B	0.60	LF

Source: <https://www.contracosta.ca.gov/DocumentCenter/View/7500/POL-44---Unit-Prices-rev-2020-PDF?bidId=>

Actuals (As of September 30, 2021) \$ 31,727,022
 Directs \$ 22,374,794
 Non-Directs \$ 9,352,228

		EAC	ACT	ETC
Facilities-Ventura Comp-Modernization	All Cost Elements	313,189,529.93	31,727,022.08	281,462,...
	Direct Costs	238,333,740.51	22,374,794.01	215,958,...
	Direct Labor	9,368,203.80	3,102,275.30	6,265,...
	Company Labor	9,368,203.80	3,102,275.30	6,265,...
	Mgmt & Non-Union Labor	9,220,072.49	2,954,143.99	6,265,...
	Union Labor	148,131.31	148,131.31	
	Non-Labor	228,965,536.71	19,272,518.71	209,693,...
	Employee Costs	60,913.74	60,913.74	
	Employee Travel	60,913.74	60,913.74	
	Services	183,056,971.16	18,850,953.16	164,206,...
	Services Consultants	22,872,084.64	3,582,503.64	19,289,...
	Services Engineering & Construction	157,790,689.36	12,874,252.36	144,916,...
	6220005 - SRV-CONTRACTORS-MAJOR PROJECTS	36,837,813.33	8,657,813.33	28,180,...
	6220006 - SRV-CONSTRUCTION SERVICES DEPT O...	87,333,000.00	0.00	87,333,...
	6220007 - SRV-CONTRACTORS-TIME & EQUIPMENT	1,881.69	1,881.69	
	6220008 - SRV-CONTRACTORS	686,020.33	686,020.33	
	6220009 - SRV-CONTRACTORS-SPECIFIC JOBS	452,448.87	452,448.87	
	6220480 - SRV-ENGINEERING	32,479,525.14	3,076,088.14	29,403,...
	Services Government Payments & Permits	378.00	378.00	
	Services Vehicles and Equipment Rental	32,813.70	32,813.70	
	Services Other	2,361,005.46	2,361,005.46	
	Materials	45,632,637.57	145,637.57	45,487,...
	Material Compressor Equipment	40,958,766.85	28,766.85	40,930,...
	Material Issuances	517.64	517.64	
	Material Other	4,673,353.08	116,353.08	4,557,...
	All Other	215,014.24	215,014.24	
	Internal Settlements	230,540.35	230,540.35	
	Vehicle Utilization	32,026.67	32,026.67	
	Other	(47,552.78)	(47,552.78)	
	Non Direct Costs	75,619,598.59	9,352,228.07	66,267,...
	Non Direct Costs wo AFUDC	32,821,203.57	5,187,165.07	27,634,...
	Non Direct Costs AFUDC	42,798,395.02	4,165,063.00	38,633,...

Year	Escalation
2021	0.41%
2022	3.04%
2023	5.66%
2024	8.32%
2025	11.03%
2026	13.92%
2027	16.90%

SCG
Class 5 (+100% / -50% Accuracy)

Done by: Campos
Rev: 2
Date: 1/25/2022

County Line - (5) Gas Compressor Option

Description	Qty	UOM	Unit Cost	Total Cost	Comments
Total EPC (Before Site Specific Additions)	1	LS		\$ 190,900,000	Based on 2020 FEED Estimate; See "Base EPC Elec. Study". Add 15% to account for added bulks and construction for additional compressor train
<i>Site Demolition</i>	0	SY	\$ -----	\$ -----	N/A
Clear & Grub / Grade Site and Laydown Area	3.74	ACRE	\$ 130,347	\$ 487,496	
Site Grading and Imported Fill	30,169	CY	\$ 132	\$ 3,980,904	Assume half of graded/excavated soil can be reused and half will be imported fill
Disposal of spoils	22,627	TONS	\$ 30	\$ 678,810	Includes trucking and disposal fees
Retaining Wall (8' H x 600' L) x 2	9,600	SF	\$ 60	\$ 576,000	
Slope & Bench Retaining wall (15' H x 600' L) x 2	18,000	SF	\$ 90	\$ 1,620,000	
Grade and Widen CA-150	132,000	SF	\$ 37	\$ 4,874,963	
<i>Retaining wall for access road (9' tall x 3,000 LF)</i>	0	SF	\$ -----	\$ -----	N/A
Interception Drainage (V-Drain)	600	LF	\$ 85	\$ 51,000	
U-Channel Concrete Cut-Off Drain	1,400	LF	\$ 70	\$ 98,000	
<i>New Pipelines (Improved)</i>	0	LF	\$ -----	\$ -----	N/A
New Pipelines (Unimproved) - 16"	10,666	LF	\$ 364	\$ 3,882,278	(2) 16" Lines to L1004; (2) 16" lines to L1005
New Depressurization line - 6"	1,954	LF	\$ 105	\$ 205,128	(1) 6" Line to L1003
MLV Station	2	EA	\$ 900,000	\$ 1,800,000	
Piles	489	EA	\$ 25,000	\$ 12,225,000	
Additional Engineering for Pipeline, Retaining Wall, Access Road, and Site Grading	1	LS	\$ 1,500,000	\$ 1,500,000	
Weather Allowance	1	LS	\$ 2,000,000	\$ 2,000,000	Allowance to cover any delays due to weather
<i>Additional SCE Substation Cost</i>	0	LS	\$ -----	\$ -----	N/A
Total EPC Cost With Cost Adders				\$ 224,880,000	
SCG Company Labor	1	LS	\$ 13,421,037	\$ 13,421,037	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 76 months
3rd Party Project Services	1	LS	\$ 21,848,593	\$ 21,848,593	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 76 months
3rd Party Inspection Services	1	LS	\$ 1,452,204	\$ 1,452,204	Based on 2020 Ventura FEED, add 30% for new pipelines
3rd Party Surveying / As-Builts	1	LS	\$ 400,400	\$ 400,400	Based on 2020 Ventura FEED, add 30% for new pipelines
3rd Party Environmental	1	LS	\$ 9,440,710	\$ 9,440,710	Based on input provided by Environmental Group, See "Environmental" Tab
3rd Party Pressure Test Cert.	1	LS	\$ 300,000	\$ 300,000	Based on 2020 Ventura FEED, add \$100K allowance for hydrotesting new pipelines
3rd Party Land Services	1	LS	\$ 3,520,599	\$ 3,520,599	Based on input provided by Land group, includes crop loss; See "Land" Tab
3rd Party Misc. Services	1	LS	\$ 3,231,500	\$ 3,231,500	Based on 2020 Ventura FEED, reduced commissioning/startup and vendor reps based on commissioning and vendor reps already included in EPC. Includes addition for additional compressor
3rd Party Outreach & Public Affairs	1	LS	\$ 3,200,000	\$ 3,200,000	Assumes 1% of total cost
3rd Party Permits	1	LS	\$ 280,700	\$ 280,700	Based on 2020 Ventura FEED, Add allowance of \$250K for environmental permits
3rd Party Other Non-Labor	1	LS	\$ 671,052	\$ 671,052	Based on 5% of total SCG Company Labor Costs
Total Un-Loaded Direct Cost				\$ 282,647,000	
Contingency	30%			\$ 84,794,100	
Actuals				\$ 22,374,794	as of September 30, 2021 (Directs only, actuals for loaders are included under loaders)
Escalation	14.92%			\$ 54,839,468	
Total Un-Loaded Direct Cost w/ Contingency				\$ 444,655,000	
Loaders	33%			\$ 148,704,696	Included as a placeholder, recommend to be verified by project controls, includes actuals for Loaders
Total Loaded Project Cost				\$ 593,000,000	Class 5 (+100% / -50%)

Year	Escalation %	Escalation \$
2027	16.90%	\$ 32,269,654
2025	11.03%	\$ -----
2026	13.92%	\$ 67,860
2026	13.92%	\$ 554,147
2026	13.92%	\$ 94,491
2026	13.92%	\$ 80,180
2026	13.92%	\$ 225,506
2023	5.66%	\$ 275,923
2026	13.92%	\$ -----
2026	13.92%	\$ 7,099
2026	13.92%	\$ 13,642
2026	13.92%	\$ -----
2026	13.92%	\$ 540,418
2026	13.92%	\$ 28,554
2026	13.92%	\$ 250,562
2026	13.92%	\$ 1,701,737
2022	3.04%	\$ 45,600
2026	13.92%	\$ 278,403
2026	13.92%	\$ -----
N/A	0.00%	\$ -
2024	8.32%	\$ 1,817,803
2027	16.90%	\$ 245,480
2027	16.90%	\$ 67,683
2024	8.32%	\$ 785,467
2026	13.92%	\$ 41,760
2024	8.32%	\$ 292,914
2027	16.90%	\$ 546,251
2024	8.32%	\$ 266,240
2022	3.04%	\$ 8,533
N/A	0.00%	\$ -
2027	16.90%	\$ 14,333,558

Total Escalation \$ 54,839,468

Low	-50%	\$ 296,500,000
High	100%	\$ 1,186,000,000

Disclaimer: This estimate is a Class 5 (+100% / -50%) Estimate and has been requested by the SCG Project team for the sole purpose of feasibility studies to support discussions with the CPUC. This estimate is not intended to be used to for any budgetary funding.

SCG
Class 5 (+100% / -50% Accuracy)

Done by: Campos
Rev: 2
Date: 1/25/2022

County Line - (2) Gas x (3) Electric Compressors

Description	Qty	UOM	Unit Cost	Total Cost	Comments
Total EPC (Before Site Specific Additions)	1	LS		\$ 200,100,000	Based on 2020 FEED Estimate and adjusted for Hybrid Option; See "Base EPC Elec. Study". Add 15% to account for added bulks and construction for additional compressor train
<i>Site Demolition</i>	0	SF	\$	\$	N/A
Clear & Grub / Grade Site and Laydown Area	3.74	ACRE	\$ 130,347	\$ 487,496	
Site Grading and Imported Fill	30,169	CY	\$ 132	\$ 3,980,904	Assume half of graded/excavated soil can be reused and half will be imported fill
Disposal of spoils	22,627	TONS	\$ 30	\$ 678,810	Includes trucking and disposal fees
Retaining Wall (8' H x 600' L) x 2	9,600	SF	\$ 60	\$ 576,000	
Slope & Bench Retaining wall (15' H x 600' L) x 2	18,000	SF	\$ 90	\$ 1,620,000	
Grade and Widen CA-150	132,000	SF	\$ 37	\$ 4,874,963	
<i>Retaining wall for access road (9' tall x 3,000 LF)</i>	0	SF	\$	\$	N/A
Interception Drainage (V-Drain)	600	LF	\$ 85	\$ 51,000	
U-Channel Concrete Cut-Off Drain	1,400	LF	\$ 70	\$ 98,000	
<i>New Pipelines (Improved)</i>	0	LF	\$	\$	N/A
New Pipelines (Unimproved) - 16"	10,666	LF	\$ 364	\$ 3,882,278	(2) 16" Lines to L1004; (2) 16" lines to L1005
New Depressurization line - 6"	1,954	LF	\$ 105	\$ 205,128	(1) 6" Line to L1003
MLV Station	2	EA	\$ 900,000	\$ 1,800,000	
Piles	489	EA	\$ 25,000	\$ 12,225,000	
Additional Engineering for Pipeline, Retaining Wall, Access Road, and Site Grading	1	LS	\$ 1,500,000	\$ 1,500,000	
Weather Allowance	1	LS	\$ 2,000,000	\$ 2,000,000	Allowance to cover any delays due to weather
Additional SCE Substation Cost	1	LS	\$ 7,000,000	\$ 7,000,000	Additional cost added to bring total SCE cost to \$11M, Assumes 5 miles
Total EPC Cost With Cost Adders				\$ 241,080,000	
SCG Company Labor	1	LS	\$ 13,421,037	\$ 13,421,037	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 76 months
3rd Party Project Services	1	LS	\$ 21,848,593	\$ 21,848,593	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 76 months
3rd Party Inspection Services	1	LS	\$ 1,452,204	\$ 1,452,204	Based on 2020 Ventura FEED, add 30% for new pipelines
3rd Party Surveying / As-Builts	1	LS	\$ 400,400	\$ 400,400	Based on 2020 Ventura FEED, add 30% for new pipelines
3rd Party Environmental	1	LS	\$ 9,440,710	\$ 9,440,710	Based on input provided by Environmental Group, See "Environmental" Tab
3rd Party Pressure Test Cert.	1	LS	\$ 300,000	\$ 300,000	Based on 2020 Ventura FEED, add \$100K allowance for hydrotesting new pipelines
3rd Party Land Services	1	LS	\$ 3,520,599	\$ 3,520,599	Based on input provided by Land group, includes crop loss; See "Land" Tab
3rd Party Misc. Services	1	LS	\$ 3,231,500	\$ 3,231,500	Based on 2020 Ventura FEED, reduced commissioning/startup and vendor reps based on commissioning and vendor reps already included in EPC. Includes addition for additional compressor
3rd Party Outreach & Public Affairs	1	LS	\$ 3,400,000	\$ 3,400,000	Assumes 1% of total cost
3rd Party Permits	1	LS	\$ 280,700	\$ 280,700	Based on 2020 Ventura FEED, Add allowance of \$250K for environmental permits
3rd Party Other Non-Labor	1	LS	\$ 671,052	\$ 671,052	Based on 5% of total SCG Company Labor Costs
Total Un-Loaded Direct Cost				\$ 299,047,000	
Contingency	30%			\$ 89,714,100	
Actuals				\$ 22,374,794	as of September 30, 2021 (Directs only, actuals for loaders are included under loaders)
Escalation	14.12%			\$ 54,903,248	
Total Un-Loaded Direct Cost w/ Contingency				\$ 466,039,000	
Loaders	33%			\$ 155,761,416	Included as a placeholder, recommend to be verified by project controls, includes actuals for Loaders
Total Loaded Project Cost				\$ 622,000,000	Class 5 (+100% / -50%)

Year	Escalation %	Escalation \$
2027	16.90%	\$ 33,824,818
2025	11.03%	\$
2026	13.92%	\$ 67,860
2026	13.92%	\$ 554,147
2026	13.92%	\$ 94,491
2026	13.92%	\$ 80,180
2026	13.92%	\$ 225,506
2023	5.66%	\$ 275,923
2026	13.92%	\$
2026	13.92%	\$ 7,099
2026	13.92%	\$ 13,642
2026	13.92%	\$
2026	13.92%	\$ 540,418
2026	13.92%	\$ 28,554
2026	13.92%	\$ 250,562
2026	13.92%	\$ 1,701,737
2022	3.04%	\$ 45,600
2026	13.92%	\$ 278,403
2025	11.03%	\$ 771,791
N/A	0.00%	\$ -
2024	8.32%	\$ 1,817,803
2026	13.92%	\$ 202,149
2026	13.92%	\$ 55,736
2024	8.32%	\$ 785,467
2026	13.92%	\$ 41,760
2024	8.32%	\$ 292,914
2026	13.92%	\$ 449,829
2024	8.32%	
2022	3.04%	\$ 8,533
N/A	0.00%	\$ -
2026	13.92%	\$ 12,488,324

Total Escalation \$ 54,903,248

Low	-50%	\$ 311,000,000
High	100%	\$ 1,244,000,000

Disclaimer: This estimate is a Class 5 (+100% / -50%) Estimate and has been requested by the SCG Project team for the sole purpose of feasibility studies to support discussions with the CPUC. This estimate is not intended to be used to for any budgetary funding.

Ventura Compressor Project

EPC Construction Schedule on Alternative Locations

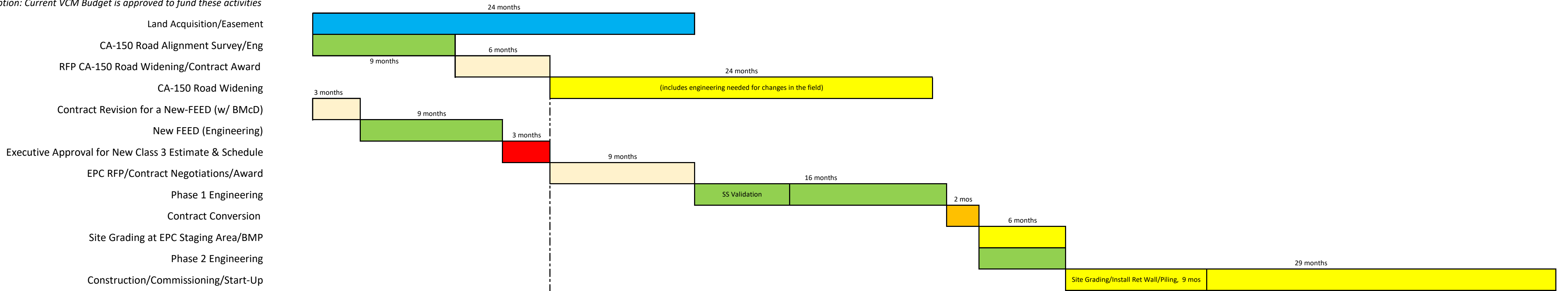
Date: 1/25/22, Rev 6



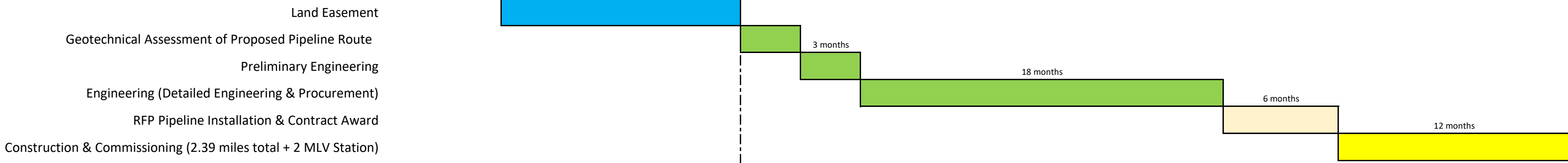
COUNTY LINE

Compressor Station (5 Gas & Hybrid)

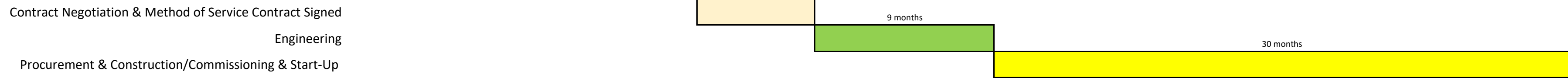
Assumption: Current VCM Budget is approved to fund these activities



New Pipeline & Main Line Valve Station



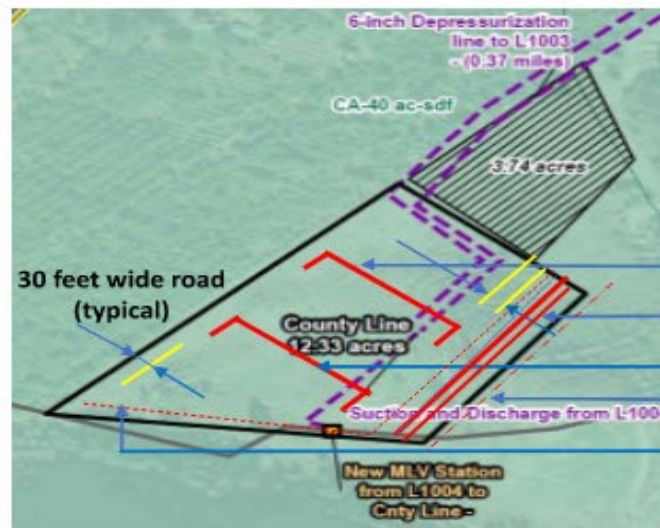
Electrical Infrastructure (SoCal Edison) for Hybrid



	Qty	UOM	No. Supports Each	Total
Pipe Supports	116	EA	2	232
Equipment Count	56	EA	4	224
Compressor Building	1	EA	15	15
Admin Building	1	EA	9	9
New Warehouse	1	EA	9	9
				489

COMPRESSOR MODERNIZATION EQUIPMENT LIST		
PACKAGE EQUIPMENT		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
C-3400	GAS COMPRESSOR	NEW
C-3500	GAS COMPRESSOR	NEW
C-3600	GAS COMPRESSOR	NEW
C-3700	GAS COMPRESSOR	NEW
SK-4001	INSTRUMENT AIR COMPRESSOR SKID	NEW
SK-4003	STARTING AIR COMPRESSOR SKID	NEW
G-3100	EMERGENCY GENERATOR SKID	NEW
ST-3001	BLOWDOWN STACK	NEW
EXCHANGERS		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
E-3400	DISCHARGE COOLER	NEW
E-3500	DISCHARGE COOLER	NEW
E-3600	DISCHARGE COOLER	NEW
E-3700	DISCHARGE COOLER	NEW
E-3401	AUXILIARY WATER COOLER	NEW
E-3402	JACKET WATER COOLER	NEW
E-3501	AUXILIARY WATER COOLER	NEW
E-3502	JACKET WATER COOLER	NEW
E-3601	AUXILIARY WATER COOLER	NEW
E-3602	JACKET WATER COOLER	NEW
E-3701	AUXILIARY WATER COOLER	NEW
E-3702	JACKET WATER COOLER	NEW
VESSELS		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
V-3100	GENERATOR FUEL GAS REGULATOR FILTER	NEW
V-4000A	FILTER/SEPARATOR	NEW
V-4000B	FILTER/SEPARATOR	NEW
V-4001	DISCHARGE SCRUBBER	NEW
V-4002	STARTING AIR RECEIVER	NEW
V-4003	OILY WASTE STORAGE DRUM	NEW
V-4004	ENGINE OIL STORAGE DRUM	NEW
V-4005	WASTE OIL STORAGE DRUM	NEW
V-4006	INSTRUMENT AIR RECEIVER	NEW
V-4011	CONDENSATE DRIP DRUM	NEW
V-4012	COOLANT STORAGE DRUM	NEW
V-4013	COMPRESSOR FUEL GAS REGULATOR FILTER	NEW
T-4001	COMPRESSOR AREA OILY WASTE TANK	NEW
T-4002	COMPRESSOR AREA OIL WASTE TANK	NEW
T-4003	COMPRESSOR AREA COOLANT DRAIN SUMP	NEW
PUMPS		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
P-4001	ENGINE OIL CHARGE PUMP	NEW
P-4003	COMPRESSOR AREA OILY WASTE TANK PUMP	NEW
P-4004	WASTE OIL TANK PUMP	NEW
P-4005	COMPRESSOR ENGINE WASTE COOLANT PUMP	NEW
P-4006	COOLANT CHARGE PUMP	NEW
MISC		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
F-3400	INLET AIR FILTER #1	NEW
F-3500	INLET AIR FILTER #2	NEW
F-3600	INLET AIR FILTER #3	NEW
F-3700	INLET AIR FILTER #4	NEW
R-3400	CATALYTIC CONVERTER #1	NEW
R-3500	CATALYTIC CONVERTER #2	NEW
R-3600	CATALYTIC CONVERTER #3	NEW
R-3700	CATALYTIC CONVERTER #4	NEW
S-3400	EXHAUST SILENCER #1	NEW
S-3401	INLET SILENCER #1	NEW
S-3500	EXHAUST SILENCER #2	NEW
S-3501	INLET SILENCER #2	NEW
S-3600	EXHAUST SILENCER #3	NEW
S-3601	INLET SILENCER #3	NEW
S-3700	EXHAUST SILENCER #4	NEW
S-3701	INLET SILENCER #4	NEW

County Line Location



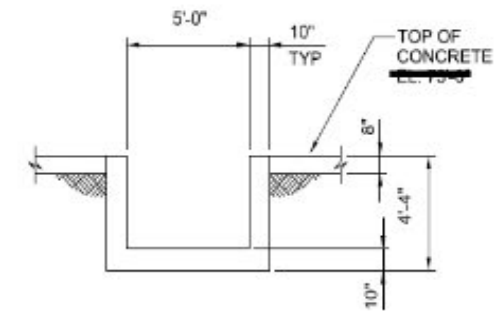
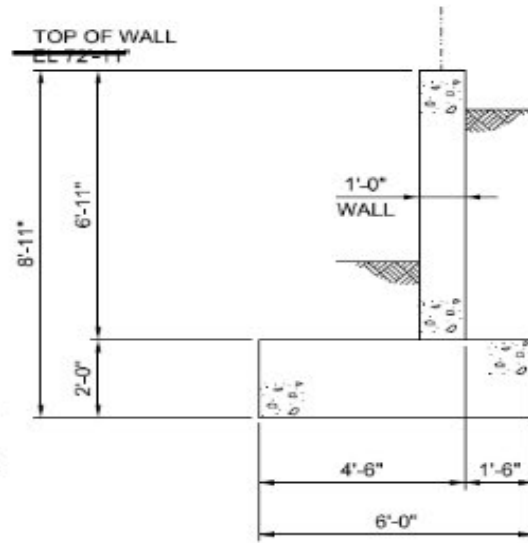
Note: Slope and bench retaining wall height at the eastern portion of the site will be 15 ft high (instead of 8 ft and 11 inches) with a 10 ft base. There will be weep holes in the walls.

Retaining Wall

See Note

Interception Drainage (V-drain)

U-Channel Concrete Cut-Off Drain

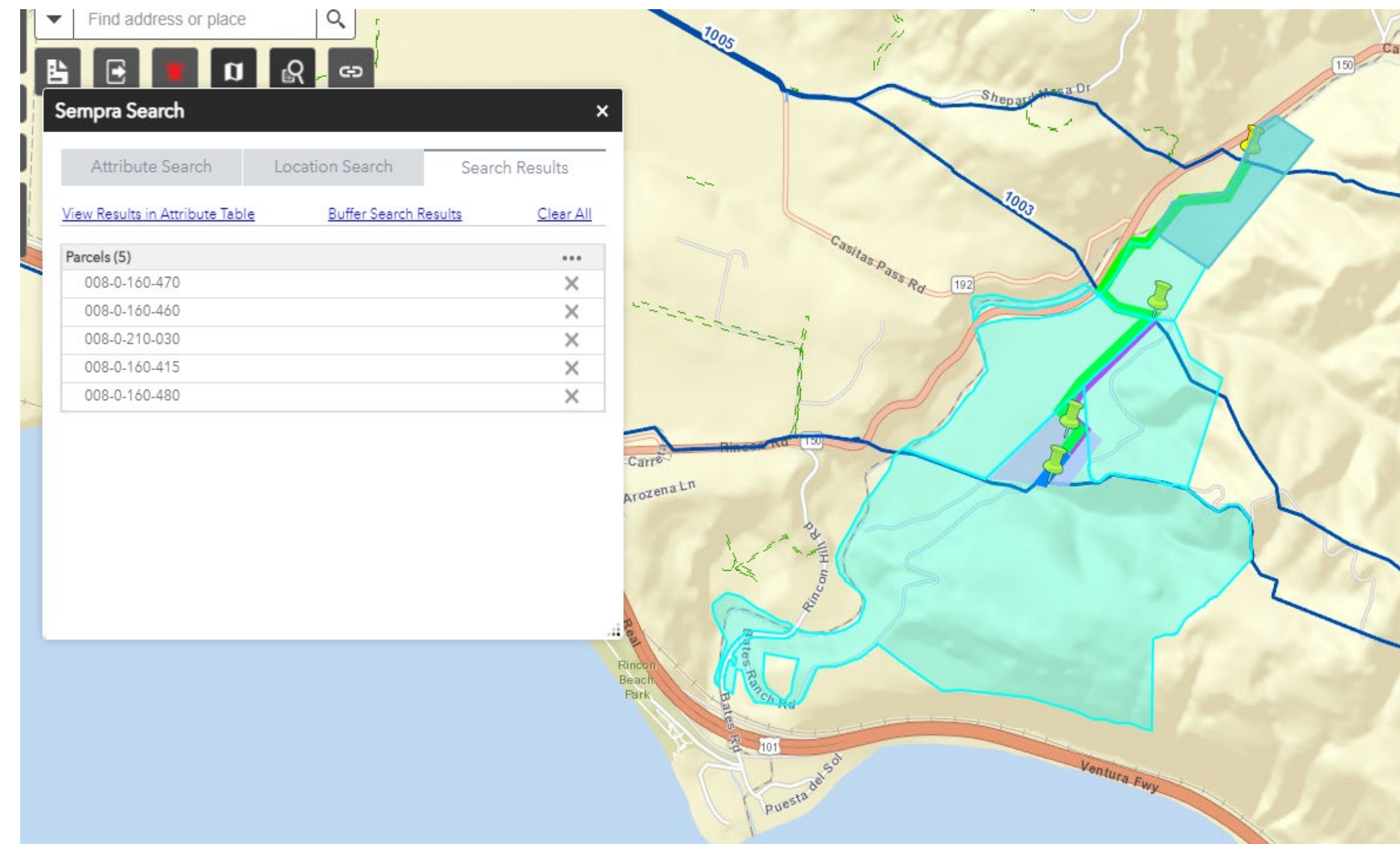
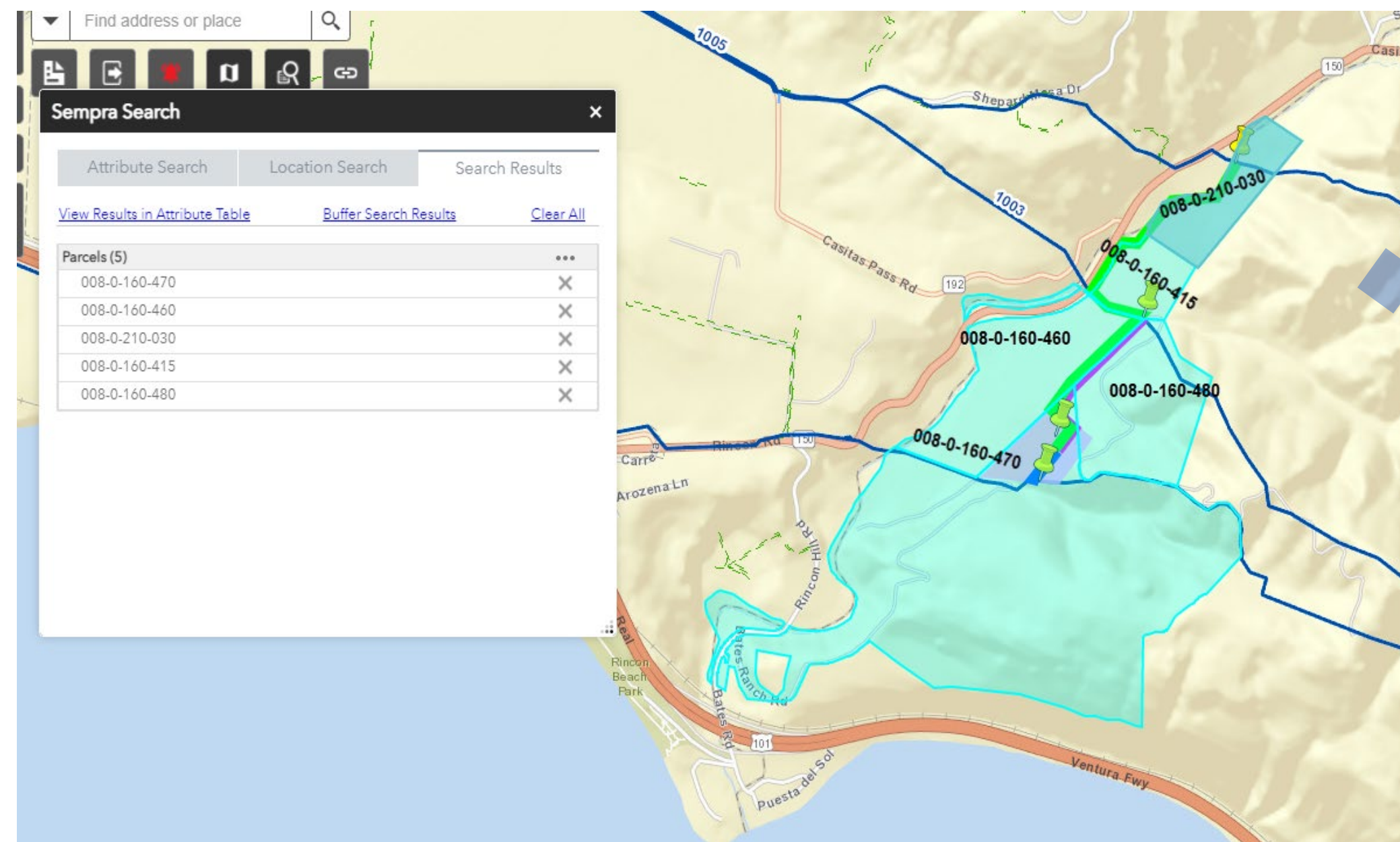


U-Channel Concrete Cut-Off Drain

Location	APN	OWNER_NAME_1	ACREAGE	LAND_SQ	IMPRV_PCT	ZONING	LANDUSE_CATEG	LANDUSE	Value Per Acre	Value Per Sq Ft	Station Acres	Station Cost	Staging Area	Staging Area Costs	MLV Station Sq. Ft.	MLV Station Cost	MLV TCE Sq Ft	MLV TCE Cost	Non-Exclusive Easement Width	Non-Exclusive Easement Length	Non-Exclusive Easement Cost	TCE Width	TCE Length	TCE Cost	Access Road Width	Access Road Length	Road Cost	Crop Loss	Condemnation Legal Fees
County Line	008-0-160-470	BROWN, JEHANNE K	230.16	10025769	12.88		AGRICULTURAL	Orchard	\$ 68,500.00	\$ 1.57	15	\$ 1,027,500.00	-	\$ -					50	300	\$ 11,794.08	25	300	\$ 24,000.00	-	-	-	\$500,000	
County Line	008-0-160-480	BROWN ANTHONY	43	1873987	15.22		Orchard	Orchard	\$ 68,500.00	\$ 1.57	-	\$ -	240,000	\$ 150,964.19	-	-	-	-	50	1,000	\$ 39,313.59	25	1,000	\$ 157,254.36	-	-	-		
County Line	008-0-210-030	Brown Investments In	22.406	976001	40.22		Orchard	Orchard	\$ 68,500.00	\$ 1.57	-	\$ -	-	\$ -	3,750	\$ 5,897.04	12,500	\$ 24,000.00	50	1,350	\$ 53,073.35	25	1,350	\$ 212,293.39	-	-	-	\$ 1,000,000	
County Line	008-0-160-415 008-0-160-460 (removed, captured on 008-0-160-480)	BARNARD FAM Trst	14880	648186	56.33	AE			\$ 68,500.00	\$ 1.57	-	\$ -	-	\$ -	-	\$ -	-	-	50	1,600	\$ 62,901.74	25	1,600	\$ 251,606.98	-	-	-		
County Line	160-480)	ABBOTT RANCH LLC	52.294	2277942	35.69		Orchard	Orchard	\$ 68,500.00	\$ 1.57	-	\$ -	-	\$ -	-	\$ -	-	-			\$ -			-	-	-			
ESTIMATION PARAMETERS & NOMINAL VALUES												Sub Totals																	
												\$ 1,027,500.00	\$ 150,964.19	\$ 5,897.04	\$ 24,000.00	\$ 167,082.76	\$ 645,154.73	\$ 1,000,000.00	\$ 500,000.00										

ESTIMATION PARAMETERS & NOMINAL VALUES	
Exclusive Easement Fee %	100%
Non-Exclusive Easement Fee %	50%
TCE Annual Return Rate %	10%
Exclusive Easement Nominal Value	\$1,500
Non-Exclusive Easement Nominal Value	\$1,000
TCE Workspace Monthly Nominal Value	\$500

Grand Total \$ 3,520,598.71

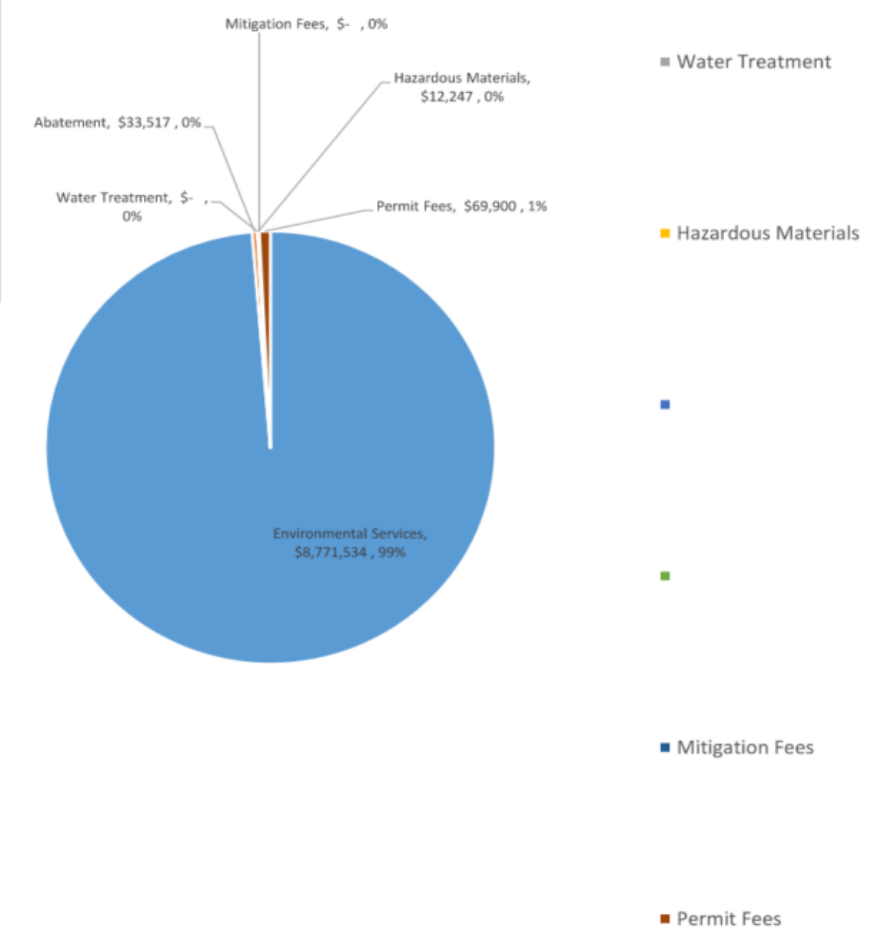


Total Environmental Cost: \$ 9,440,710

Version 1.1 10/18/17

Project Detail		
Item Description	Description/Value	Notes/Assumptions
Project Name	Ventura county Line	
County	Ventura	
Project Type (hydrotest, replacement, valve upgrade, valve installation, valve automation)	Compressor Station	
Diameter (inches)	NA	
Acres	20.5	20 onsite acres and 5.5 offsite per construction assumptions
New Road/Road improvements length (feet)	0	per construction assumptions
New Pipeline Length (feet)	5,280	5,280 linear feet 2x16-inch suction and discharge pipelines per construction assumptions
Pre Const. Planning Support Duration (weeks)	228	three years env permitting plus 21 months per Preliminary Schedule Alternative Locations Rev2
Construction Duration (weeks)	212	53 months per Preliminary Schedule Alternative Locations Rev2
Water Treatment Duration (Months)	0	Hydrostatic test water to be disposed to land for new pipe (no treatment required).
Abatement Duration (days)	10	
Water Volume (gallons)		No water treatment needed. Assume potable water on clean pipe.
Source Water (potable/non-potable)	Potable	Assumes water to be trucked in.
Water Disposal Method (offsite disposal, beneficial reuse, etc.)	Land	Assumes testing new pipe with potable water and disposal to land. Treatment of water not required.
Number of JD crossings	1	Counted assumed JDs on google earth

Costs	Total	Total Hours
Environmental Services	\$ 8,771,534	11,560.0
Abatement	\$ 33,517	
Water Treatment	\$ -	
Hazardous Materials	\$ 12,247	
Mitigation Fees	\$ -	
Permit Fees	\$ 69,900	
TOTAL ENVIRONMENTAL COSTS (Purchased Services):	\$ 8,887,198	
Internal Labor	\$ 553,512	
Total	\$ 9,440,710	



Instructions for Summary Sheet - Please data enter general project details in the table above (See Columns C and D). This information will then be populated in the other tabs. The pie chart is auto populated.

Compressor Upgrade
Ventura Compressor Modernization Project

PROJECT SUMMARY

EPC - Engineering / Design Services	\$ 28,351,920
EPC - Construction	\$ 118,106,889
EPC - Construction Management	\$ 19,299,000
SCG Labor - Mgmt. & Non Labor	\$ 8,135,466
SCG Labor - Union T/H	\$ 791,500
SCG Labor - Outreach & Public Affairs	\$ 609,000
Material- Pipe & Fittings & Valves	\$ -
Material-Valves	\$ -
Material- Other	\$ 110,000
PM / Project Services	\$ 15,523,720
Inspection Services	\$ 1,117,080
Surveying / As-builts	\$ 307,547
Environmental Services	\$ 365,952
Pressure Test Certification Services	\$ 200,000
Water Storage	\$ -
X-ray / NDE	\$ -
Land Services	\$ 1,029,438
CNG / LNG	\$ -
Spreadboss	\$ -
Miscellaneous Services	\$ 5,960,000
Outreach & Public Affairs	\$ -
Permits	\$ 30,736
Other Non-Labor Costs	\$ 476,798
GMA	\$ -
Total Un-Loaded Direct Estimated Cost	\$ 200,415,047
Actuals as of Jan. 2020	\$ 10,221,538
Total Un-Loaded Direct Cost w/Actuals	\$ 210,636,585
Contingency @ 14.85%	\$ 29,753,297
Total Un-Loaded Direct Cost w/Contingency	\$ 240,389,882
Escalation	\$ 5,894,149
Total Un-Loaded Direct Cost w/ Escalation	\$ 246,284,031
Loaders (Provided by Cost Group)	\$ 68,521,769
Total Loaded Project Cost	\$ 314,806,000

FEED EPC COST	\$ 166,000,000
HYBRID DELTA ADDER	\$ 8,000,000
HYBRID EPC COST	\$ 174,000,000

Drainage Infrastructure

ITEMS	UNIT PRICE (\$)	UNIT
1. Drainage Inlet		
Type D	3,000 – 6,000	EA
Type E	4,500	EA
Type F	4,500	EA
Type G (replaces Type A)	4,250 – 7,500	EA
Type H (replaces Type B)	5,500 – 9,000	EA
Type J (replaces Type C)	3,000 – 6,000	EA
If inlet is on manhole base, add		
Type I MH	3,000	
Type II MH	3,500	
Type III MH	4,000	
2. Storm Drain Manhole		
Type I	3,000 - 6,000	EA
Type II	2,500 - 3,700	EA
Type III	4,000 - 5,500	EA
(Add \$250/ft. for depths over 6 ft.)		
3. Non-standard storm drain inlet (2' x 2')	3,000	EA
4. Concrete "V" Ditch (CD60, aka B58 ditch)	70-100	LF
5. Valley Gutter (Minor Concrete)	26	SF
6. Sidewalk Cross Drain (CD06, including 3" x 12" metal duct)	3,000	EA
7. Residential Sidewalk Drain (CD06, including 3" dia. pipe)	2,000	EA
8. Subsurface Edge Drain (CD08, 3" dia. pipe)	25-35	LF
9. CMP (if bit. coated add \$1/LF)	7.50	\$/in.dia./LF
10. Alternative Pipe (HDPE)	8.50	\$/in.dia./LF

Road Infrastructure (cont.)

ITEMS	UNIT PRICE (\$)	UNIT
18. Concrete Structures may be estimated at	1,200	CY
19. Concrete Bridge Deck	170 – 240	SF
20. Wood or Masonry Retaining Wall	40	SF
21. Concrete Retaining Wall	60	SF
22. Street Light – Metal Pole		
0-10	30,000	EA
10 or more	15,000	EA
23. Survey (Street) Monument	1,350	EA
24. Street Sign (Name)	500	EA
25. Traffic Sign	500	EA
Traffic Sign w/Striping Message	1000	EA
26. Metal Beam Guard Rail (wood post)	250	LF
27. Guard Rail - End Anchor Assembly	3,000	EA
28. Guard Rail – Alternate Flared Terminal End	5,000	EA
29. Fence		
4' Chain Link	40	LF
6' Chain Link	55	LF
30. Landscaping (including irrigation system)	15-45	SF
31. Thermoplastic Detail 2	1.30	LF
32. Thermoplastic Detail 9	0.60	LF
33. Thermoplastic Detail 22	1.75	LF
34. Thermoplastic Detail 27B	0.60	LF

Source: <https://www.contracosta.ca.gov/DocumentCenter/View/7500/POL-44---Unit-Prices-rev-2020-PDF?bidId=>

Actuals (As of September 30, 2021) \$ 31,727,022
 Directs \$ 22,374,794
 Non-Directs \$ 9,352,228

		EAC	ACT	ETC
Facilities-Ventura Comp-Modernization	All Cost Elements	313,189,529.93	31,727,022.08	281,462,...
	Direct Costs	238,333,740.51	22,374,794.01	215,958,...
	Direct Labor	9,368,203.80	3,102,275.30	6,265,...
	Company Labor	9,368,203.80	3,102,275.30	6,265,...
	Mgmt & Non-Union Labor	9,220,072.49	2,954,143.99	6,265,...
	Union Labor	148,131.31	148,131.31	
	Non-Labor	228,965,536.71	19,272,518.71	209,693,...
	Employee Costs	60,913.74	60,913.74	
	Employee Travel	60,913.74	60,913.74	
	Services	183,056,971.16	18,850,953.16	164,206,...
	Services Consultants	22,872,084.64	3,582,503.64	19,289,...
	Services Engineering & Construction	157,790,689.36	12,874,252.36	144,916,...
	6220005 - SRV-CONTRACTORS-MAJOR PROJECTS	36,837,813.33	8,657,813.33	28,180,...
	6220006 - SRV-CONSTRUCTION SERVICES DEPT O...	87,333,000.00	0.00	87,333,...
	6220007 - SRV-CONTRACTORS-TIME & EQUIPMENT	1,881.69	1,881.69	
	6220008 - SRV-CONTRACTORS	686,020.33	686,020.33	
	6220009 - SRV-CONTRACTORS-SPECIFIC JOBS	452,448.87	452,448.87	
	6220480 - SRV-ENGINEERING	32,479,525.14	3,076,088.14	29,403,...
	Services Government Payments & Permits	378.00	378.00	
	Services Vehicles and Equipment Rental	32,813.70	32,813.70	
	Services Other	2,361,005.46	2,361,005.46	
	Materials	45,632,637.57	145,637.57	45,487,...
	Material Compressor Equipment	40,958,766.85	28,766.85	40,930,...
	Material Issuances	517.64	517.64	
	Material Other	4,673,353.08	116,353.08	4,557,...
	All Other	215,014.24	215,014.24	
	Internal Settlements	230,540.35	230,540.35	
	Vehicle Utilization	32,026.67	32,026.67	
	Other	(47,552.78)	(47,552.78)	
	Non Direct Costs	75,619,598.59	9,352,228.07	66,267,...
	Non Direct Costs wo AFUDC	32,821,203.57	5,187,165.07	27,634,...
	Non Direct Costs AFUDC	42,798,395.02	4,165,063.00	38,633,...

Year	Escalation
2021	0.41%
2022	3.04%
2023	5.66%
2024	8.32%
2025	11.03%
2026	13.92%
2027	16.90%

SCG
Class 5 (+100% / -50% Accuracy)

Done by: Campos
Rev: 2
Date: 1/25/2022

Devil's Canyon - (4) Gas Compressor Option

Description	Qty	UOM	Unit Cost	Total Cost	Comments
Total EPC (Before Site Specific Additions)	1	LS		\$ 166,000,000	Based on 2020 FEED Estimate; See "Base EPC Elec. Study"
<i>Site demolition and Remediation</i>	0	ACRE	\$ -830,000	\$ -	Assume included as part of the sale of the site, cost re-allocated to Land
Clear & Grub / Grade Laydown Area	6.3	ACRE	\$ 77,751	\$ 487,496	
Imported Fill for remediated soil	103,899	CY	\$ 69	\$ 7,144,918	
<i>Terraced Retaining wall (15' H x 700' L) x 3</i>	0	SF	\$ -	\$ -	N/A
<i>Slope & Bench Retaining wall (15' H x 2400' L) x 2</i>	0	SF	\$ -	\$ -	N/A
Upgrade / Re-inforce Bridge	1	LS	\$ 100,000	\$ 100,000	
<i>Retaining wall for access road (8' tall x 3,000 LF)</i>	0	SF	\$ -	\$ -	N/A
<i>Concrete Drainage Ditch (5,500 LF)</i>	0	LF	\$ -	\$ -	N/A
<i>New Pipelines (Improved)</i>	0	LF	\$ -	\$ -	N/A
New Pipelines (Unimproved)	21,542	LF	\$ 364	\$ 7,841,434	(2) 16" Lines to L1004 and (2) 16" lines to L1005
MLV Station	2	EA	\$ 900,000	\$ 1,800,000	
Piles	489	EA	\$ 25,000	\$ 12,225,000	
Additional Engineering for Pipeline and Remediation	1	LS	\$ 1,500,000	\$ 1,500,000	
Weather Allowance	1	LS	\$ 2,000,000	\$ 2,000,000	Allowance to cover any delays due to weather
<i>Additional SCE Substation Cost</i>	0	LS	\$ -6,000,000	\$ -	N/A
Total EPC Cost With Cost Adders				\$ 199,099,000	
SCG Company Labor	1	LS	\$ 12,538,074	\$ 12,538,074	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 71 months
3rd Party Project Services	1	LS	\$ 20,411,185	\$ 20,411,185	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 71 months
3rd Party Inspection Services	1	LS	\$ 1,563,912	\$ 1,563,912	Based on 2020 Ventura FEED, add 40% for new pipelines
3rd Party Surveying / As-Builts	1	LS	\$ 431,200	\$ 431,200	Based on 2020 Ventura FEED, add 40% for new pipelines
3rd Party Environmental	1	LS	\$ 9,284,778	\$ 9,284,778	Based on input provided by Environmental Group, See "Environmental" Tab
3rd Party Pressure Test Cert.	1	LS	\$ 300,000	\$ 300,000	Based on 2020 Ventura FEED, add \$100K allowance for hydrotesting new pipelines
3rd Party Land Services	1	LS	\$ 24,974,628	\$ 24,974,628	Based on input provided by Land group, includes crop loss; See "Land" Tab, includes cost for demo and remediation of existing site, assuming these costs would be included with sale of site
3rd Party Misc. Services	1	LS	\$ 2,810,000	\$ 2,810,000	Based on 2020 Ventura FEED, reduced commissioning/startup and vendor reps based on commissioning and vendor reps already included in EPC
3rd Party Outreach & Public Affairs	1	LS	\$ 3,000,000	\$ 3,000,000	Assumes 1% of total cost
3rd Party Permits	1	LS	\$ 280,700	\$ 280,700	Based on 2020 Ventura FEED, Add allowance of \$250K for environmental permits
3rd Party Other Non-Labor	1	LS	\$ 626,904	\$ 626,904	Based on 5% of total SCG Company Labor Costs
Total Un-Loaded Direct Cost				\$ 275,320,000	
Contingency	30%			\$ 82,596,000	
Actuals				\$ 22,374,794	as of September 30, 2021 (Directs only, actuals for loaders are included under loaders)
Escalation	12.16%			\$ 43,511,541	
Total Un-Loaded Direct Cost w/ Contingency				\$ 423,802,000	
Loaders	33%			\$ 141,823,206	Included as a placeholder, recommend to be verified by project controls, includes actuals for Loaders
Total Loaded Project Cost				\$ 566,000,000	Class 5 (+100% / -50%)

Year	Escalation %	Escalation \$
2026	13.92%	\$ 23,107,425
2025	11.03%	\$ -
2026	13.92%	\$ 67,860
2026	13.92%	\$ 994,582
2026	13.92%	\$ -
2026	13.92%	\$ -
2026	13.92%	\$ 13,920
2022	3.04%	\$ -
2026	13.92%	\$ -
2026	13.92%	\$ -
2026	13.92%	\$ 1,091,538
2026	13.92%	\$ 250,562
2026	13.92%	\$ 1,701,737
2022	3.04%	\$ 45,600
2026	13.92%	\$ 278,403
2022	3.04%	\$ -
N/A	0.00%	\$ -
2022	3.04%	\$ 620,500
2027	16.90%	\$ 264,363
2027	16.90%	\$ 72,890
2026	13.92%	\$ 1,292,454
2027	16.90%	\$ 50,712
2023	5.66%	\$ 1,413,564
2027	16.90%	\$ 475,001
2024	8.32%	\$ 249,600
2024	8.32%	\$ 23,354
N/A	0.00%	\$ -
2026	13.92%	\$ 11,497,475
Total Escalation		\$ 43,511,541

Low	-50%	\$ 283,000,000
High	100%	\$ 1,132,000,000

Disclaimer: This estimate is a Class 5 (+100% / -50%) Estimate and has been requested by the SCG Project team for the sole purpose of feasibility studies to support discussions with the CPUC. This estimate is not intended to be used to for any budgetary funding.

SCG
Class 5 (+100% / -50% Accuracy)

Done by: Campos
Rev: 2
Date: 1/25/2022

Devil's Canyon - (2) Gas x (2) Electric Compressors

Description	Qty	UOM	Unit Cost	Total Cost	Comments
Total EPC (Before Site Specific Additions)	1	LS		\$ 174,000,000	Based on 2020 FEED Estimate and adjusted for Hybrid Option; See "Base EPC Elec. Study"
Site demolition and Remediation	0	ACRE	\$ 830,000	\$	Assume included as part of the sale of the site, cost re-allocated to Land
Clear & Grub / Grade Laydown Area	6.3	ACRE	\$ 77,751	\$ 487,496	
Imported Fill for remediated soil	103,899	CY	\$ 69	\$ 7,144,918	
Terraced Retaining wall (15' H x 700' L) x 3	0	SF	\$	\$	N/A
Slope & Bench Retaining wall (15' H x 2400' L) x 2	0	SF	\$	\$	N/A
Upgrade / Re-inforce Bridge	1	LS	\$ 100,000	\$ 100,000	
Retaining wall for access road (8' tall x 3,000 LF)	0	SF	\$	\$	N/A
Concrete Drainage Ditch (5,500 LF)	0	LF	\$	\$	N/A
New Pipelines (Improved)	0	LF	\$	\$	N/A
New Pipelines (Unimproved)	21,542	LF	\$ 364	\$ 7,841,434	(2) 16" Lines to L1004 and (2) 16" lines to L1005
MLV Station	2	EA	\$ 900,000	\$ 1,800,000	
Piles	489	EA	\$ 25,000	\$ 12,225,000	
Additional Engineering for Pipeline and Remediation	1	LS	\$ 1,500,000	\$ 1,500,000	
Weather Allowance	1	LS	\$ 2,000,000	\$ 2,000,000	Allowance to cover any delays due to weather
Additional SCE Substation Cost	1	LS	\$ 7,000,000	\$ 7,000,000	Additional cost added to bring total SCE cost to \$11M, Assumes 5 miles
Total EPC Cost With Cost Adders				\$ 214,099,000	
SCG Company Labor	1	LS	\$ 12,538,074	\$ 12,538,074	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 71 months
3rd Party Project Services	1	LS	\$ 20,411,185	\$ 20,411,185	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 71 months
3rd Party Inspection Services	1	LS	\$ 1,563,912	\$ 1,563,912	Based on 2020 Ventura FEED, add 40% for new pipelines
3rd Party Surveying / As-Builts	1	LS	\$ 431,200	\$ 431,200	Based on 2020 Ventura FEED, add 40% for new pipelines
3rd Party Environmental	1	LS	\$ 9,284,778	\$ 9,284,778	Based on input provided by Environmental Group, See "Environmental" Tab
3rd Party Pressure Test Cert.	1	LS	\$ 300,000	\$ 300,000	Based on 2020 Ventura FEED, add \$100K allowance for hydrotesting new pipelines
3rd Party Land Services	1	LS	\$ 24,974,628	\$ 24,974,628	Based on input provided by Land group, includes crop loss; See "Land" Tab, includes cost for demo and remediation of existing site, assuming these costs would be included with sale of site
3rd Party Misc. Services	1	LS	\$ 2,810,000	\$ 2,810,000	Based on 2020 Ventura FEED, reduced commissioning/startup and vendor reps based on commissioning and vendor reps already included in EPC
3rd Party Outreach & Public Affairs	1	LS	\$ 3,200,000	\$ 3,200,000	Assumes 1% of total cost
3rd Party Permits	1	LS	\$ 280,700	\$ 280,700	Based on 2020 Ventura FEED, Add allowance of \$250K for environmental permits
3rd Party Other Non-Labor	1	LS	\$ 626,904	\$ 626,904	Based on 5% of total SCG Company Labor Costs
Total Un-Loaded Direct Cost				\$ 290,520,000	
Contingency	30%			\$ 87,156,000	
Actuals				\$ 22,374,794	as of September 30, 2021 (Directs only, actuals for loaders are included under loaders)
Escalation	11.97%			\$ 45,223,110	
Total Un-Loaded Direct Cost w/ Contingency				\$ 445,274,000	
Loaders	33%			\$ 148,908,966	Included as a placeholder, recommend to be verified by project controls, includes actuals for Loaders
Total Loaded Project Cost				\$ 594,000,000	Class 5 (+100% / -50%)

Year	Escalation %	Escalation \$
2026	13.92%	\$ 24,221,036
2025	11.03%	\$
2026	13.92%	\$ 67,860
2026	13.92%	\$ 994,582
2026	13.92%	\$
2026	13.92%	\$ 13,920
2022	3.04%	\$
2026	13.92%	\$
2026	13.92%	\$
2026	13.92%	\$ 1,091,538
2026	13.92%	\$ 250,562
2026	13.92%	\$ 1,701,737
2022	3.04%	\$ 45,600
2026	13.92%	\$ 278,403
2022	3.04%	\$ 212,800
N/A	0.00%	\$ -
2022	3.04%	\$ 620,500
2027	16.90%	\$ 264,363
2027	16.90%	\$ 72,890
2026	13.92%	\$ 1,292,454
2027	16.90%	\$ 50,712
2023	5.66%	\$ 1,413,564
2027	16.90%	\$ 475,001
2024	8.32%	\$
2024	8.32%	\$ 23,354
N/A	0.00%	\$ -
2026	13.92%	\$ 12,132,233

Total Escalation \$ 45,223,110

Low	-50%	\$ 297,000,000
High	100%	\$ 1,188,000,000

Disclaimer: This estimate is a Class 5 (+100% / -50%) Estimate and has been requested by the SCG Project team for the sole purpose of feasibility studies to support discussions with the CPUC. This estimate is not intended to be used to for any budgetary funding.

Description	Qty	UOM	Unit Material	Material Cost	Unit Manhour	Manhours	Labor Cost	Unit Subcontract Cost	Subcontractor Cost	Total Cost	Unit Cost	Comments
Site demolition and Remediation	13	ACRE		\$ -		0	\$ -	\$ 830,000	\$ 10,690,400	\$ 10,690,400	\$ 830,000.00	Assume that as part of the sale of the site, cost re-allocated to Land
Clear & Grub / Grade Laydown Area	6	ACRE		\$ -	415	3,250	\$ 487,496		\$ -	\$ 487,496	\$ 77,750.60	Assume 1 crew x 3 months
Imported Fill for remediated soil	103,899	CY	\$ 50.00	\$ 5,194,933	0	13,000	\$ 1,949,985		\$ -	\$ 7,144,918	\$ 68.77	
Terraced Retaining wall (15' H x 700' L) x 3	0	SF		\$ -		0	\$ -	\$ 90	\$ -	\$ -	\$ -	See "Cost Ref" Tab
Slope & Bench Retaining wall (15' H x 2400' L) x 2	0	SF		\$ -		0	\$ -	\$ 90	\$ -	\$ -	\$ -	
Upgrade / Re-inforce Bridge	1	LS		\$ -		0	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000.00	Allowance
Retaining wall for access road (8' tall x 3,000 LF)	0	SF		\$ -		0	\$ -	\$ 60	\$ -	\$ -	\$ -	
Concrete Drainage Ditch (5,500 LF)	0	LF		\$ -		0	\$ -	\$ 85	\$ -	\$ -	\$ -	
New Pipelines (Improved)	0	LF	\$ 95.00	\$ -		0	\$ -	\$ -	\$ -	\$ -	\$ -	
New Pipelines (Unimproved)	21,542	LF	\$ 114.00	\$ 2,455,834		0	\$ -	\$ 250	\$ 5,385,600	\$ 7,841,434	\$ 364.00	Added 20% to price to account for misc. fittings
MLV Station	2	EA		\$ -		0	\$ -	\$ 900,000	\$ 1,800,000	\$ 1,800,000	\$ 900,000.00	Includes automation, valves, electrical contractor, etc.
Piles	489	EA		\$ -		0	\$ -	\$ 25,000	\$ 12,225,000	\$ 12,225,000	\$ 25,000.00	
				\$ -		0	\$ -		\$ -	\$ -	\$ -	
				\$ -		0	\$ -		\$ -	\$ -	\$ -	
TOTALS										\$ 40,289,248	\$ -	

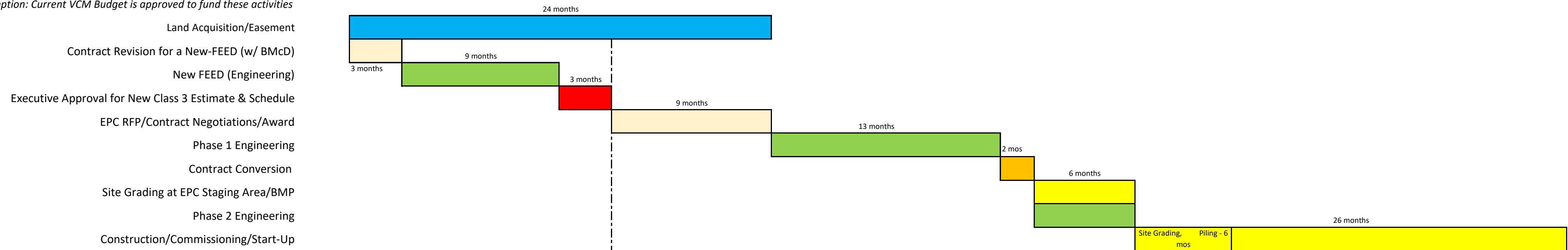
CEJA DR01 Q5b
Ventura Compressor Project
EPC Construction Schedule on Alternative Locations
Date: 1/25/22, Rev 6



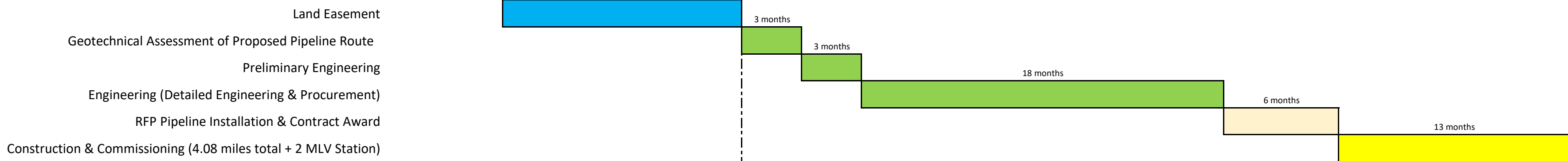
DEVIL'S CANYON

Compressor Station (4 Gas & Hybrid)

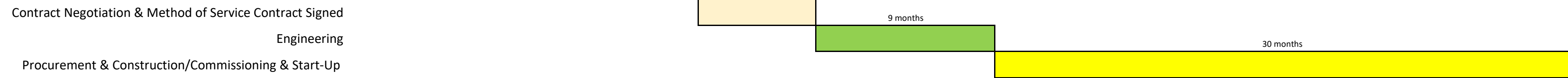
Assumption: Current VCM Budget is approved to fund these activities



New Pipeline & Main Line Valve Station



Electrical Infrastructure (SoCal Edison) for Hybrid

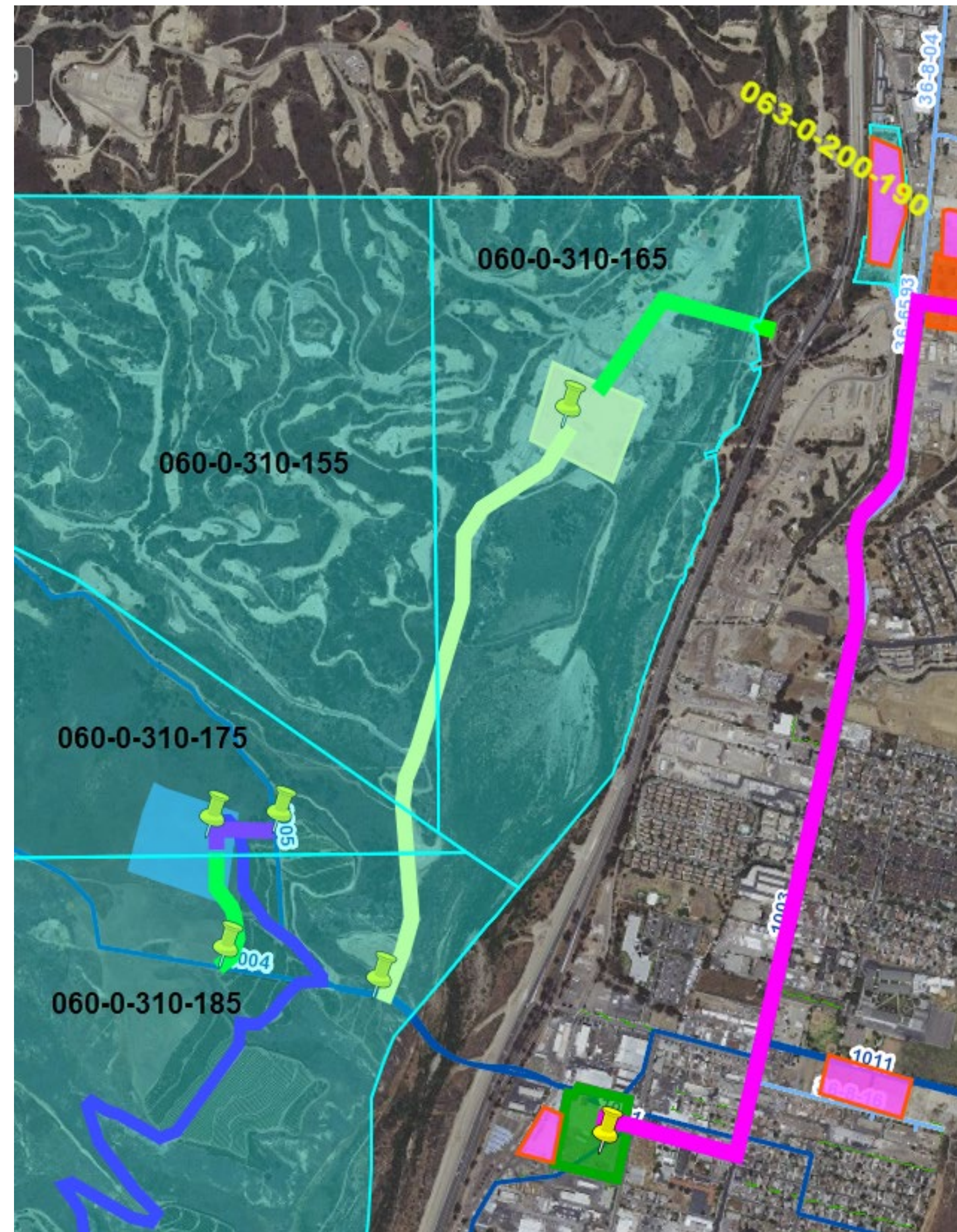


	Qty	UOM	No. Supports Each	Total
Pipe Supports	116	EA	2	232
Equipment Count	56	EA	4	224
Compressor Building	1	EA	15	15
Admin Building	1	EA	9	9
New Warehouse	1	EA	9	9
				489

COMPRESSOR MODERNIZATION EQUIPMENT LIST		
PACKAGE EQUIPMENT		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
C-3400	GAS COMPRESSOR	NEW
C-3500	GAS COMPRESSOR	NEW
C-3600	GAS COMPRESSOR	NEW
C-3700	GAS COMPRESSOR	NEW
SK-4001	INSTRUMENT AIR COMPRESSOR SKID	NEW
SK-4003	STARTING AIR COMPRESSOR SKID	NEW
G-3100	EMERGENCY GENERATOR SKID	NEW
ST-3001	BLOWDOWN STACK	NEW
EXCHANGERS		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
E-3400	DISCHARGE COOLER	NEW
E-3500	DISCHARGE COOLER	NEW
E-3600	DISCHARGE COOLER	NEW
E-3700	DISCHARGE COOLER	NEW
E-3401	AUXILIARY WATER COOLER	NEW
E-3402	JACKET WATER COOLER	NEW
E-3501	AUXILIARY WATER COOLER	NEW
E-3502	JACKET WATER COOLER	NEW
E-3601	AUXILIARY WATER COOLER	NEW
E-3602	JACKET WATER COOLER	NEW
E-3701	AUXILIARY WATER COOLER	NEW
E-3702	JACKET WATER COOLER	NEW
VESSELS		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
V-3100	GENERATOR FUEL GAS REGULATOR FILTER	NEW
V-4000A	FILTER/SEPARATOR	NEW
V-4000B	FILTER/SEPARATOR	NEW
V-4001	DISCHARGE SCRUBBER	NEW
V-4002	STARTING AIR RECEIVER	NEW
V-4003	OILY WASTE STORAGE DRUM	NEW
V-4004	ENGINE OIL STORAGE DRUM	NEW
V-4005	WASTE OIL STORAGE DRUM	NEW
V-4006	INSTRUMENT AIR RECEIVER	NEW
V-4011	CONDENSATE DRIP DRUM	NEW
V-4012	COOLANT STORAGE DRUM	NEW
V-4013	COMPRESSOR FUEL GAS REGULATOR FILTER	NEW
T-4001	COMPRESSOR AREA OILY WASTE TANK	NEW
T-4002	COMPRESSOR AREA OIL WASTE TANK	NEW
T-4003	COMPRESSOR AREA COOLANT DRAIN SUMP	NEW
PUMPS		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
P-4001	ENGINE OIL CHARGE PUMP	NEW
P-4003	COMPRESSOR AREA OILY WASTE TANK PUMP	NEW
P-4004	WASTE OIL TANK PUMP	NEW
P-4005	COMPRESSOR ENGINE WASTE COOLANT PUMP	NEW
P-4006	COOLANT CHARGE PUMP	NEW
MISC		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
F-3400	INLET AIR FILTER #1	NEW
F-3500	INLET AIR FILTER #2	NEW
F-3600	INLET AIR FILTER #3	NEW
F-3700	INLET AIR FILTER #4	NEW
R-3400	CATALYTIC CONVERTER #1	NEW
R-3500	CATALYTIC CONVERTER #2	NEW
R-3600	CATALYTIC CONVERTER #3	NEW
R-3700	CATALYTIC CONVERTER #4	NEW
S-3400	EXHAUST SILENCER #1	NEW
S-3401	INLET SILENCER #1	NEW
S-3500	EXHAUST SILENCER #2	NEW
S-3501	INLET SILENCER #2	NEW
S-3600	EXHAUST SILENCER #3	NEW
S-3601	INLET SILENCER #3	NEW
S-3700	EXHAUST SILENCER #4	NEW
S-3701	INLET SILENCER #4	NEW

Location	APN	OWNER_NAME_1	ACREAGE	IMPRV_PC	USE_CODE	ZONING	Value Per Acre	Value Per Sq Ft	Station Acres	Station Cost	Staging Area	Staging Area Costs	MLV Station Sq. Ft.	MLV Station Cost	MLV TCE Sq Ft	MLV TCE Cost	Non-Exclusive Easement Width	Non-Exclusive Easement Length	Non-Exclusive Easement Cost	TCE Width	TCE Length	TCE Cost	Access Road width	Access Road length	Road Cost	Crop Loss	Condemnation Legal Fees
Devil's Canyon Rd	060-0-310-165	WOOD-CLAEYSSENS FOUNDATION	336.04	19.22	PASTURE	OS160AC	\$ 68,500.00	\$ 1.57	15	\$ 1,027,500.00							50	2500	\$ 98,283.98	25	2500	\$ 39,313.59	25	1900	\$ 37,347.91	\$ -	\$ 600,000.00
Devil's Canyon Rd	063-0-200-190	Associated Southern Inv Co	10.11			M3	\$698,000.00	\$ 16.02	-	0	240,000	\$ 1,538,292.01							\$ -			\$ -				\$ -	\$ -
Devil's Canyon Rd	060-0-310-155	WOOD-CLAEYSSENS FOUNDATION	640		PASTURE	OS160AC	\$ 68,500.00	\$ 1.57	-	0							50	1000	\$ 39,313.59	25	1000	\$ 24,000.00				\$ -	\$ -
Devil's Canyon Rd	060-0-310-175	WOOD-CLAEYSSENS FOUNDATION	557		Orchard	AEC-A	\$ 68,500.00	\$ 1.57	-	0							50	500	\$ 19,656.80	25	500	\$ 24,000.00				\$ -	\$ -
Devil's Canyon Rd	060-0-310-185	WOOD-CLAEYSSENS FOUNDATION	562.79		Orchard	AEC-A	\$ 68,500.00	\$ 1.57	-	0			3750	\$ 5,897.04	8750	\$ 5,503.90	50	1300	\$ 51,107.67	25	1300	\$ 24,000.00				\$ -	\$ -
Sub Totals										\$ 1,027,500.00		\$ 1,538,292.01		\$ 5,897.04		\$ 5,503.90			\$ 208,362.03			\$ 111,313.59			\$ 37,347.91	\$ -	\$ 600,000.00

ESTIMATION PARAMETERS & NOMINAL VALUES	
Exclusive Easement Fee %	100%
Non-Exclusive Easement Fee %	50%
TCE Annual Return Rate %	10%
Exclusive Easement Nominal Value	\$1,500
Non-Exclusive Easement Nominal Value	\$1,000
TCE Workspace Monthly Nominal Value	\$500



GRAND TOTAL \$ 3,534,216.48

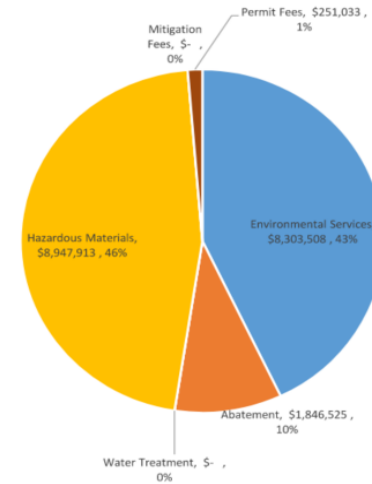
Original Total Environmental Cost: \$ 20,034,790
Revised Environmental (without remediation) \$ 9,284,778
Cost of Remediation (to be allocated to Land) \$ 10,750,012

ORIGINAL ENVIRONMENTAL ESTIMATE

Version 1.1 10/18/17

Project Detail		
Item Description	Description/Value	Notes/Assumptions
Project Name	Ventura Devils Canyon Location	
County	Ventura	
Project Type (hydrotest, replacement, valve upgrade, valve installation, valve automation)	Compressor Station	
Diameter (inches)	NA	
Acres	20.5	15 onsite and 5.5 acres laydown offsite
New Road/Road improvements length (feet)	0	per construction assumptions
New Pipeline Length (feet)	5,280	5,280 linear feet 2x16-inch suction and discharge pipelines
Pre Const. Planning Support Duration (weeks)	322	4.5 years env permitting plus 22 months per Preliminary Schedule Alternative Locations Rev2
Construction Duration (weeks)	200	50 months per Preliminary Schedule Alternative Locations Rev2
Water Treatment Duration (Months)	0	Hydrostatic test water to be disposed to land for new pipe (no treatment required).
Abatement Duration (days)	600	
Water Volume (gallons)		No water treatment needed. Assume potable water on clean pipe.
Source Water (potable/non-potable)	Potable	Assumes water to be trucked in.
Water Disposal Method (offsite disposal, beneficial reuse, etc.)	Land	Assumes testing new pipe with potable water and disposal to land. Treatment of water not required.
Number of JD crossings	1	Counted as assumed JDs on Google Earth

Costs	Total	Total Hours
Environmental Services	\$ 8,303,508	14,328.0
Abatement	\$ 1,846,525	
Water Treatment	\$ -	
Hazardous Materials	\$ 8,947,913	
Mitigation Fees	\$ -	
Permit Fees	\$ 251,033	
TOTAL ENVIRONMENTAL COSTS (Purchased Services):	\$ 19,348,978	
Internal Labor	\$ 685,812	
Total	\$ 20,034,790	



- Environmental Services
- Abatement
- Water Treatment
- Hazardous Materials
- Mitigation Fees
- Permit Fees

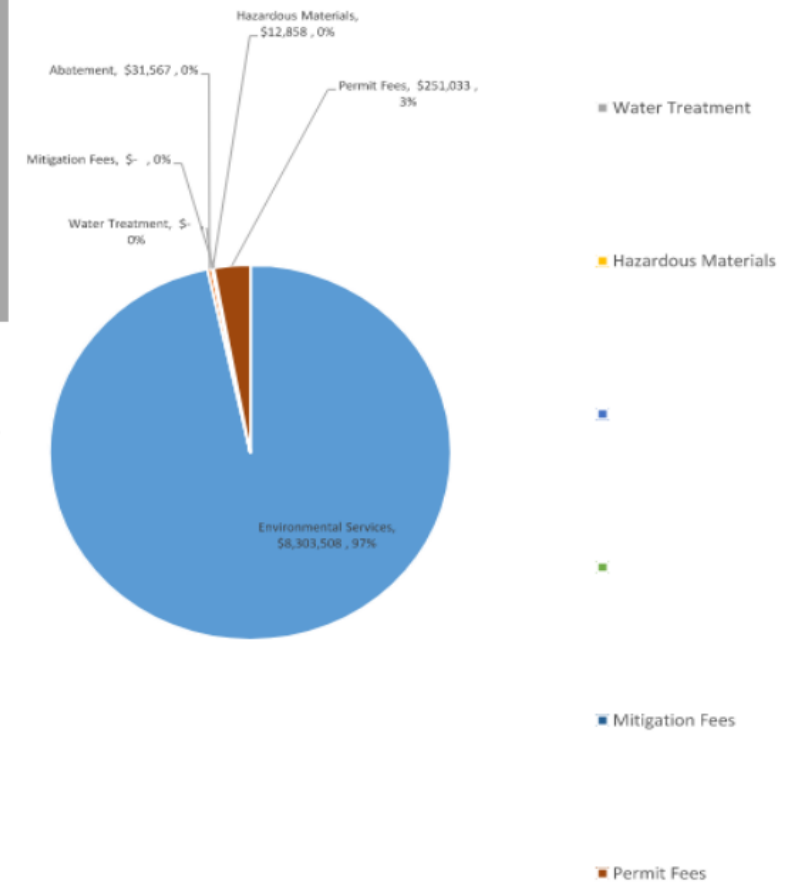
Instructions for Summary Sheet - Please data enter general project details in the table above (See Columns C and D). This information will then be populated in the other tabs. The pie chart is auto populated.

REVISED ENVIRONMENTAL (WITHOUT REMEDIATION)

Version 1.1 10/18/17

Project Detail		
Item Description	Description/Value	Notes/Assumptions
Project Name	Ventura Devils Canyon Location	
County	Ventura	
Project Type (hydrotest, replacement, valve upgrade, valve installation, valve automation)	Compressor Station	
Diameter (inches)	NA	
Acres	20.5	15 onsite and 5.5 acres laydown offsite
New Road/Road improvements length (feet)	0	per construction assumptions
New Pipeline Length (feet)	5,280	5,280 linear feet 2x16-inch suction and discharge pipelines
Pre Const. Planning Support Duration (weeks)	322	4.5 years env permitting plus 22 months per Preliminary Schedule Alternative Locations Rev2
Construction Duration (weeks)	200	50 months per Preliminary Schedule Alternative Locations Rev2
Water Treatment Duration (Months)	0	Hydrostatic test water to be disposed to land for new pipe (no treatment required).
Abatement Duration (days)	10	assume site is turned over with all abatement is complete Assume 10 days os abatemtn to tie in to exisiting lines
Water Volume (gallons)		No water treatment needed. Assume potable water on clean pipe.
Source Water (potable/non-potable)	Potable	Assumes water to be trucked in.
Water Disposal Method (offsite disposal, beneficial reuse, etc.)	Land	Assumes testing new pipe with potable water and disposal to land. Treatment of water not required.
Number of JD crossings	1	Counted as assumed JDs on Google Earth

Costs	Total	Total Hours
Environmental Services	\$ 8,303,508	14,328.0
Abatement	\$ 31,567	
Water Treatment	\$ -	
Hazardous Materials	\$ 12,858	
Mitigation Fees	\$ -	
Permit Fees	\$ 251,033	
TOTAL ENVIRONMENTAL COSTS (Purchased Services):	\$ 8,598,966	
Internal Labor	\$ 685,812	
Total	\$ 9,284,778	



Compressor Upgrade
Ventura Compressor Modernization Project

PROJECT SUMMARY

EPC - Engineering / Design Services	\$ 28,351,920
EPC - Construction	\$ 118,106,889
EPC - Construction Management	\$ 19,299,000
SCG Labor - Mgmt. & Non Labor	\$ 8,135,466
SCG Labor - Union T/H	\$ 791,500
SCG Labor - Outreach & Public Affairs	\$ 609,000
Material- Pipe & Fittings & Valves	\$ -
Material-Valves	\$ -
Material- Other	\$ 110,000
PM / Project Services	\$ 15,523,720
Inspection Services	\$ 1,117,080
Surveying / As-builts	\$ 307,547
Environmental Services	\$ 365,952
Pressure Test Certification Services	\$ 200,000
Water Storage	\$ -
X-ray / NDE	\$ -
Land Services	\$ 1,029,438
CNG / LNG	\$ -
Spreadboss	\$ -
Miscellaneous Services	\$ 5,960,000
Outreach & Public Affairs	\$ -
Permits	\$ 30,736
Other Non-Labor Costs	\$ 476,798
GMA	\$ -
Total Un-Loaded Direct Estimated Cost	\$ 200,415,047
Actuals as of Jan. 2020	\$ 10,221,538
Total Un-Loaded Direct Cost w/Actuals	\$ 210,636,585
Contingency @ 14.85%	\$ 29,753,297
Total Un-Loaded Direct Cost w/Contingency	\$ 240,389,882
Escalation	\$ 5,894,149
Total Un-Loaded Direct Cost w/ Escalation	\$ 246,284,031
Loaders (Provided by Cost Group)	\$ 68,521,769
Total Loaded Project Cost	\$ 314,806,000

FEED EPC COST	\$ 166,000,000
HYBRID DELTA ADDER	\$ 8,000,000
HYBRID EPC COST	\$ 174,000,000

Source: <https://semspub.epa.gov/work/05/939123.pdf>

Total Remediation Estimated cost for McLouth Steel Corp. (Prepared for the EPC, 2017)
Project Based in Michigan

Total Cost	\$	147,787,652
Total Area		250 Acres
Cost per Acre	\$	591,150.61
Esc. To 2022	\$	685,305.57
Add 20% for California Pricing Basis	\$	822,366.69
USE:	\$	830,000.00

2.1 SITE LOCATION

The Subject Property is situated between the east side of West Jefferson Avenue and the Detroit River and between Sibley and King Roads, in Trenton, Wayne County, Michigan. The Subject Property has an approximate elevation of 588 feet above sea level and lies 6 to 15 feet above typical nearby river elevations. The north portion of the Subject Property consists of 70 acres and is referred to as the Riverview Trenton Railroad property (RTRR) and the south side consists of 180 acres, totaling 250 acres. The Subject Property is occupied by one Main Production Building, consisting of fourteen (14) interconnected process areas, and numerous ancillary support structures that were all previously used in the production of steel. Figure 1 is a site location map.

				organics and metals. Rated for 200 gpm.					
			46 wells	Install 46 new wells in addition to 4 existing wells.	Monitoring Well Installation	46 wells	\$ 5,000	\$ 230,000	
Sediment	Contaminated Sediment in Detroit River	Sediment in the Detroit River adjacent to the eastern site boundary. Contains PAHs and metals, and possibly PCBs. Contaminated sediment assumed to extend one third of the distance across river for entire length of site.	270,741 cy	8,500' x 430' x 2' deep assumed targeted for removal. Approximately one third width of channel near site.	Hydraulic Dredging, Dewatering and Disposal (Nonhazardous)	270,741 cy	\$ 134	\$ 36,360,481	\$ 67,834,093
			203,056 cy	8,500' x 430' x 1.5' thick reactive cap containing 5 percent organoclay by mass in bottom 6" of cap.	Reactive Cap	203,056 cy	\$ 155	\$ 31,473,611	
Surface Soil	Entire Site	Entire aerial extent of site. Widespread PAH contamination expected. Soil cover will prevent direct contact.	250 acres	Entire site after demolition of all structures, except separately capped areas	Soil Cover	250 acre	\$ 57,798	\$ 14,449,556	\$ 14,449,556
TOTAL Capital Cost								\$ 147,787,652	

Actuals (As of September 30, 2021) \$ 31,727,022
 Directs \$ 22,374,794
 Non-Directs \$ 9,352,228

		EAC	ACT	ETC
Facilities-Ventura Comp-Modernization	All Cost Elements	313,189,529.93	31,727,022.08	281,462,000.00
	Direct Costs	238,333,740.51	22,374,794.01	215,958,946.50
	Direct Labor	9,368,203.80	3,102,275.30	6,265,928.50
	Company Labor	9,368,203.80	3,102,275.30	6,265,928.50
	Mgmt & Non-Union Labor	9,220,072.49	2,954,143.99	6,265,928.50
	Union Labor	148,131.31	148,131.31	
	Non-Labor	228,965,536.71	19,272,518.71	209,693,008.00
	Employee Costs	60,913.74	60,913.74	
	Employee Travel	60,913.74	60,913.74	
	Services	183,056,971.16	18,850,953.16	164,206,018.00
	Services Consultants	22,872,084.64	3,582,503.64	19,289,581.00
	Services Engineering & Construction	157,790,689.36	12,874,252.36	144,916,437.00
	6220005 - SRV-CONTRACTORS-MAJOR PROJECTS	36,837,813.33	8,657,813.33	28,180,000.00
	6220006 - SRV-CONSTRUCTION SERVICES DEPT O...	87,333,000.00	0.00	87,333,000.00
	6220007 - SRV-CONTRACTORS-TIME & EQUIPMENT	1,881.69	1,881.69	
	6220008 - SRV-CONTRACTORS	686,020.33	686,020.33	
	6220009 - SRV-CONTRACTORS-SPECIFIC JOBS	452,448.87	452,448.87	
	6220480 - SRV-ENGINEERING	32,479,525.14	3,076,088.14	29,403,437.00
	Services Government Payments & Permits	378.00	378.00	
	Services Vehicles and Equipment Rental	32,813.70	32,813.70	
	Services Other	2,361,005.46	2,361,005.46	
	Materials	45,632,637.57	145,637.57	45,487,000.00
	Material Compressor Equipment	40,958,766.85	28,766.85	40,930,000.00
	Material Issuances	517.64	517.64	
	Material Other	4,673,353.08	116,353.08	4,557,000.00
	All Other	215,014.24	215,014.24	
	Internal Settlements	230,540.35	230,540.35	
	Vehicle Utilization	32,026.67	32,026.67	
	Other	(47,552.78)	(47,552.78)	
	Non Direct Costs	75,619,598.59	9,352,228.07	66,267,370.52
	Non Direct Costs wo AFUDC	32,821,203.57	5,187,165.07	27,634,038.50
	Non Direct Costs AFUDC	42,798,395.02	4,165,063.00	38,633,332.02

Year	Escalation
2021	0.41%
2022	3.04%
2023	5.66%
2024	8.32%
2025	11.03%
2026	13.92%
2027	16.90%
2028	19.89%
2029	22.85%

Existing Site - (4) Gas Compressor Option

Description	Qty	UOM	Unit Cost	Total Cost	Comments
Total EPC (Before Site Specific Additions)	1	LS		\$ 166,110,000	Based on 2020 FEED Estimate; See "Base EPC Elec. Study"
Site Demolition	0	SF	\$	\$	N/A
Clear & Grub / Grade Laydown Area	0	ACRE	\$	\$	
Site Grading and Imported Fill (Assume half of excav)	0	CY	\$	\$	
Disposal of spoils	0	Tons	\$	\$	Includes trucking and disposal fees
Terraced Retaining wall (15' H x 700' L) x 3	0	SF	\$	\$	
Slope & Bench Retaining wall (15' H x 2400' L) x 2	0	SF	\$	\$	
Grade and Widen Access Road (25' W x 12,530 LF)	0	SF	\$	\$	
Retaining wall for access road (8' tall x 3,000 LF)	0	SF	\$	\$	
Concrete Drainage Ditch (5,500 LF)	0	LF	\$	\$	
New Pipelines (Improved)	0	LF	\$	\$	N/A
New Pipelines (Unimproved)	0	LF	\$	\$	(2) 16" Lines to L1004 and (2) 16" Lines to L1005
MLV Station	0	EA	\$	\$	
Piles	0	EA	\$	\$	
Additional Engineering for Pipeline, Retaining Wall,	0	LS	\$ 1,500,000	\$	
Add Piling Costs	16	EA	\$ 20,000	\$ 320,000	Assume 4 piles per compressor (x4), pricing based on Blythe and escalated to 2021 pricing, assume 70' deep
Add Micropiles through areas of rockfill	26	EA	\$ 15,000	\$ 390,000	Assume 26 micropiles total, assume 15' deep, utilizing drill that can drill through rock
Weather Allowance	1	LS	\$ 2,000,000	\$ 2,000,000	Allowance to cover any delays due to weather
Additional SCE Substation Cost	0	LS	\$ 6,000,000	\$	N/A
Total EPC Cost With Cost Adders				\$ 168,820,000	
SCG Company Labor	1	LS	\$ 9,535,966	\$ 9,535,966	Based on 2020 Ventura FEED
3rd Party Project Services	1	LS	\$ 15,523,720	\$ 15,523,720	Based on 2020 Ventura FEED
3rd Party Inspection Services	1	LS	\$ 1,117,080	\$ 1,117,080	Based on 2020 Ventura FEED
3rd Party Surveying / As-Builts	1	LS	\$ 307,547	\$ 307,547	Based on 2020 Ventura FEED
3rd Party Environmental	1	LS	\$ 4,440,455	\$ 4,440,455	Based on 2020 Ventura FEED, adding owner subsurface work and asphalt removal (see separate estimate tabs for buildup)
3rd Party Pressure Test Cert.	1	LS	\$ 200,000	\$ 200,000	Based on 2020 Ventura FEED
3rd Party Land Services	1	LS	\$ 1,029,438	\$ 1,029,438	Based on 2020 Ventura FEED
3rd Party Misc. Services	1	LS	\$ 2,810,000	\$ 2,810,000	Based on 2020 Ventura FEED, reduced commissioning/startup and vendor reps based on commissioning and vendor reps already included in EPC
3rd Party Outreach & Public Affairs	1	LS	\$	\$	N/A
3rd Party Permits	1	LS	\$ 30,736	\$ 30,736	Based on 2020 Ventura FEED
3rd Party Other Non-Labor	1	LS	\$ 476,798	\$ 476,798	Based on 2020 Ventura FEED
Total Un-Loaded Direct Cost				\$ 204,292,000	
Contingency	30%			\$ 61,287,600	Due to change in schedule, uncertainties of this scope warrant contingency to 30%
Actuals				\$ 22,374,794	as of September 30, 2021 (Directs only, actuals for loaders are included under loaders)
Escalation	10.14%			\$ 26,917,067	
Total Un-Loaded Direct Cost w/ Contingency				\$ 314,871,000	
Loaders	33%			\$ 105,875,976	Included as a placeholder, recommend to be verified by project controls, includes actuals for Loaders
Total Loaded Project Cost				\$ 421,000,000	Class 5 (+100% / -50%)

Year	Escalation %	Escalation \$
2025	11.03%	\$ 18,314,598
2025	11.03%	\$ -
2026	13.92%	\$ -
2026	13.92%	\$ -
2026	13.92%	\$ -
2026	13.92%	\$ -
2023	5.66%	\$ -
2023	5.66%	\$ -
2026	13.92%	\$ -
2025	11.03%	\$ -
2026	13.92%	\$ -
2026	13.92%	\$ -
2026	13.92%	\$ -
2022	3.04%	\$ -
2025	11.03%	\$ 35,282
2025	11.03%	\$ 43,000
2026	13.92%	\$ 278,403
2025	11.03%	\$ -
N/A	0.00%	\$ -
2022	3.04%	\$ 471,921
2025	11.03%	\$ 123,165
2025	11.03%	\$ 33,909
2025	11.03%	\$ 489,586
2026	13.92%	\$ 27,840
2022	3.04%	\$ 31,295
2025	11.03%	\$ 309,819
2024	8.32%	\$ -
2022	3.04%	\$ 934
N/A	0.00%	\$ -
2025	11.03%	\$ 6,757,316
Total Escalation		\$ 26,917,067

Low	-50%	\$ 210,500,000
High	100%	\$ 842,000,000

Disclaimer: This estimate is a Class 5 (+100% / -50%) Estimate and has been requested by the SCG Project team for the sole purpose of feasibility studies to support discussions with the CPUC. This estimate is not intended to be used for any budgetary funding.

Existing Site - (2) Gas x (2) Electric Compressors

Description	Qty	UOM	Unit Cost	Total Cost	Comments
Total EPC (Before Site Specific Additions)	1	LS		\$ 174,000,000	Based on 2020 FEED Estimate and adjusted for Hybrid Option; See "Base EPC Elec. Study"
Site Demolition	0	SF	\$	\$	N/A
Clear & Grub / Grade Laydown Area	0	ACRE	\$	\$	N/A
Site Grading and Imported Fill (Assume half of excav)	0	CY	\$	\$	N/A
Disposal of spoils	0	Tons	\$	\$	N/A
Terraced Retaining wall (15' H x 700' L) x 3	0	SF	\$	\$	N/A
Slope & Bench Retaining wall (15' H x 2400' L) x 2	0	SF	\$	\$	N/A
Grade and Widen Access Road (25' W x 12,530 LF)	0	SF	\$	\$	N/A
Retaining wall for access road (8' tall x 3,000 LF)	0	SF	\$	\$	N/A
Concrete Drainage Ditch (5,500 LF)	0	LF	\$	\$	N/A
New Pipelines (Improved)	0	LF	\$	\$	N/A
New Pipelines (Unimproved)	0	LF	\$	\$	N/A
MLV Station	0	EA	\$	\$	N/A
Additional Engineering for Pipeline, Retaining Wall,	0	LS	\$ 1,500,000	\$	N/A
Add Piling Costs	16	EA	\$ 20,000	\$ 320,000	Assume 4 piles per compressor (x4), pricing based on Blythe and escalated to 2021 pricing, assume 70' deep
Add Micropiles through areas of rockfill	26	EA	\$ 15,000	\$ 390,000	Assume 26 micropiles total, assume 15' deep, utilizing drill that can drill through rock
Weather Allowance	1	LS	\$ 2,000,000	\$ 2,000,000	Allowance to cover any delays due to weather
Additional SCE Substation Cost	1	LS	\$ 6,000,000	\$ 6,000,000	Additional cost added to bring total SCE cost to \$10M, Assumes 4 miles
Total EPC Cost With Cost Adders				\$ 182,710,000	
SCG Company Labor	1	LS	\$ 10,948,741	\$ 10,948,741	Based on 2020 Ventura FEED, scaled to add another 8 months of re-FEED
3rd Party Project Services	1	LS	\$ 17,823,852	\$ 17,823,852	Based on 2020 Ventura FEED, scaled to add another 8 months of re-FEED
3rd Party Inspection Services	1	LS	\$ 1,117,080	\$ 1,117,080	Based on 2020 Ventura FEED, assume no change
3rd Party Surveying / As-Builts	1	LS	\$ 307,547	\$ 307,547	Based on 2020 Ventura FEED, assume no change
3rd Party Environmental	1	LS	\$ 4,440,455	\$ 4,440,455	Based on 2020 Ventura FEED, adding owner subsurface work and asphalt removal (see separate estimate tabs for buildup)
3rd Party Pressure Test Cert.	1	LS	\$ 200,000	\$ 200,000	Based on 2020 Ventura FEED, assume no change
3rd Party Land Services	1	LS	\$ 1,029,438	\$ 1,029,438	Based on 2020 Ventura FEED, assume no change
3rd Party Misc. Services	1	LS	\$ 2,810,000	\$ 2,810,000	Based on 2020 Ventura FEED, reduced commissioning/startup and vendor reps based on commissioning and vendor reps already included in EPC
3rd Party Outreach & Public Affairs	1	LS	\$ -	\$ -	N/A
3rd Party Permits	1	LS	\$ 30,736	\$ 30,736	Based on 2020 Ventura FEED, assume no change
3rd Party Other Non-Labor	1	LS	\$ 547,437	\$ 547,437	Based on 5% of total SCG Company Labor Costs
Total Un-Loaded Direct Cost				\$ 221,965,000	
Contingency	30%			\$ 66,589,500	
Actuals				\$ 22,374,794	as of September 30, 2021 (Directs only, actuals for loaders are included under loaders)
Escalation	12.67%			\$ 36,560,802	
Total Un-Loaded Direct Cost w/ Contingency				\$ 347,490,000	
Loaders	33%			\$ 116,640,246	Included as a placeholder, recommend to be verified by project controls, includes actuals for Loaders
Total Loaded Project Cost				\$ 464,000,000	Class 5 (+100% / -50%)

Year	Escalation %	Escalation \$
2026	13.92%	\$ 24,221,036
2025	11.03%	\$
2025	11.03%	\$
2026	13.92%	\$
2026	13.92%	\$
2026	13.92%	\$
2026	13.92%	\$
2023	5.66%	\$
2023	5.66%	\$
2026	13.92%	\$
2025	11.03%	\$
2026	13.92%	\$
2026	13.92%	\$
2022	3.04%	\$
2026	13.92%	\$ 44,544
2026	13.92%	\$ 54,289
2026	13.92%	\$ 278,403
2026	13.92%	\$ 835,208
N/A	0.00%	\$ -
2022	3.04%	\$ 541,845
2027	16.90%	\$ 188,831
2027	16.90%	\$ 51,988
2026	13.92%	\$ 618,117
2027	16.90%	\$ 33,808
2022	3.04%	\$ 31,295
2026	13.92%	\$ 391,156
2024	8.32%	\$
2022	3.04%	\$ 934
N/A	0.00%	\$ -
	0.00%	\$
2026	13.92%	\$ 9,269,349
Total Escalation		\$ 36,560,802

Low	-50%	\$ 232,000,000
High	100%	\$ 928,000,000

Disclaimer: This estimate is a Class 5 (+100% / -50%) Estimate and has been requested by the SCG Project team for the sole purpose of feasibility studies to support discussions with the CPUC. This estimate is not intended to be used to for any budgetary funding.

Compressor Upgrade
Ventura Compressor Modernization Project

PROJECT SUMMARY

EPC - Engineering / Design Services	\$ 28,351,920
EPC - Construction	\$ 118,106,889
EPC - Construction Management	\$ 19,299,000
SCG Labor - Mgmt. & Non Labor	\$ 8,135,466
SCG Labor - Union T/H	\$ 791,500
SCG Labor - Outreach & Public Affairs	\$ 609,000
Material- Pipe & Fittings & Valves	\$ -
Material-Valves	\$ -
Material- Other	\$ 110,000
PM / Project Services	\$ 15,523,720
Inspection Services	\$ 1,117,080
Surveying / As-built	\$ 307,547
Environmental Services	\$ 365,952
Pressure Test Certification Services	\$ 200,000
Water Storage	\$ -
X-ray / NDE	\$ -
Land Services	\$ 1,029,438
CNG / LNG	\$ -
Spreadboss	\$ -
Miscellaneous Services	\$ 5,960,000
Outreach & Public Affairs	\$ -
Permits	\$ 30,736
Other Non-Labor Costs	\$ 476,798
GMA	\$ -
Total Un-Loaded Direct Estimated Cost	\$ 200,415,047
Actuals as of Jan. 2020	\$ 10,221,538
Total Un-Loaded Direct Cost w/Actuals	\$ 210,636,585
Contingency @ 14.85%	\$ 29,753,297
Total Un-Loaded Direct Cost w/Contingency	\$ 240,389,882
Escalation	\$ 5,894,149
Total Un-Loaded Direct Cost w/ Escalation	\$ 246,284,031
Loaders (Provided by Cost Group)	\$ 68,521,769
Total Loaded Project Cost	\$ 314,806,000

FEED EPC COST	\$ 166,000,000
HYBRID DELTA ADDER	\$ 8,000,000
HYBRID EPC COST	\$ 174,000,000

Drainage Infrastructure

ITEMS	UNIT PRICE (\$)	UNIT
1. Drainage Inlet		
Type D	3,000 – 6,000	EA
Type E	4,500	EA
Type F	4,500	EA
Type G (replaces Type A)	4,250 – 7,500	EA
Type H (replaces Type B)	5,500 – 9,000	EA
Type J (replaces Type C)	3,000 – 6,000	EA
If inlet is on manhole base, add		
Type I MH	3,000	
Type II MH	3,500	
Type III MH	4,000	
2. Storm Drain Manhole		
Type I	3,000 - 6,000	EA
Type II	2,500 - 3,700	EA
Type III	4,000 - 5,500	EA
(Add \$250/ft. for depths over 6 ft.)		
3. Non-standard storm drain inlet (2' x 2')	3,000	EA
4. Concrete "V" Ditch (CD60, aka B58 ditch)	70-100	LF
5. Valley Gutter (Minor Concrete)	26	SF
6. Sidewalk Cross Drain (CD06, including 3" x 12" metal duct)	3,000	EA
7. Residential Sidewalk Drain (CD06, including 3" dia. pipe)	2,000	EA
8. Subsurface Edge Drain (CD08, 3" dia. pipe)	25-35	LF
9. CMP (if bit. coated add \$1/LF)	7.50	\$/in.dia./LF
10. Alternative Pipe (HDPE)	8.50	\$/in.dia./LF

Source: <https://www.contracosta.ca.gov/DocumentCenter/View/7500/POL-44---Unit-Prices-rev-2020-PDF?bidId=>

Road Infrastructure (cont.)

ITEMS	UNIT PRICE (\$)	UNIT
18. Concrete Structures may be estimated at	1,200	CY
19. Concrete Bridge Deck	170 – 240	SF
20. Wood or Masonry Retaining Wall	40	SF
21. Concrete Retaining Wall	60	SF
22. Street Light – Metal Pole		
0-10	30,000	EA
10 or more	15,000	EA
23. Survey (Street) Monument	1,350	EA
24. Street Sign (Name)	500	EA
25. Traffic Sign	500	EA
Traffic Sign w/Striping Message	1000	EA
26. Metal Beam Guard Rail (wood post)	250	LF
27. Guard Rail - End Anchor Assembly	3,000	EA
28. Guard Rail – Alternate Flared Terminal End	5,000	EA
29. Fence		
4' Chain Link	40	LF
6' Chain Link	55	LF
30. Landscaping (including irrigation system)	15-45	SF
31. Thermoplastic Detail 2	1.30	LF
32. Thermoplastic Detail 9	0.60	LF
33. Thermoplastic Detail 22	1.75	LF
34. Thermoplastic Detail 27B	0.60	LF

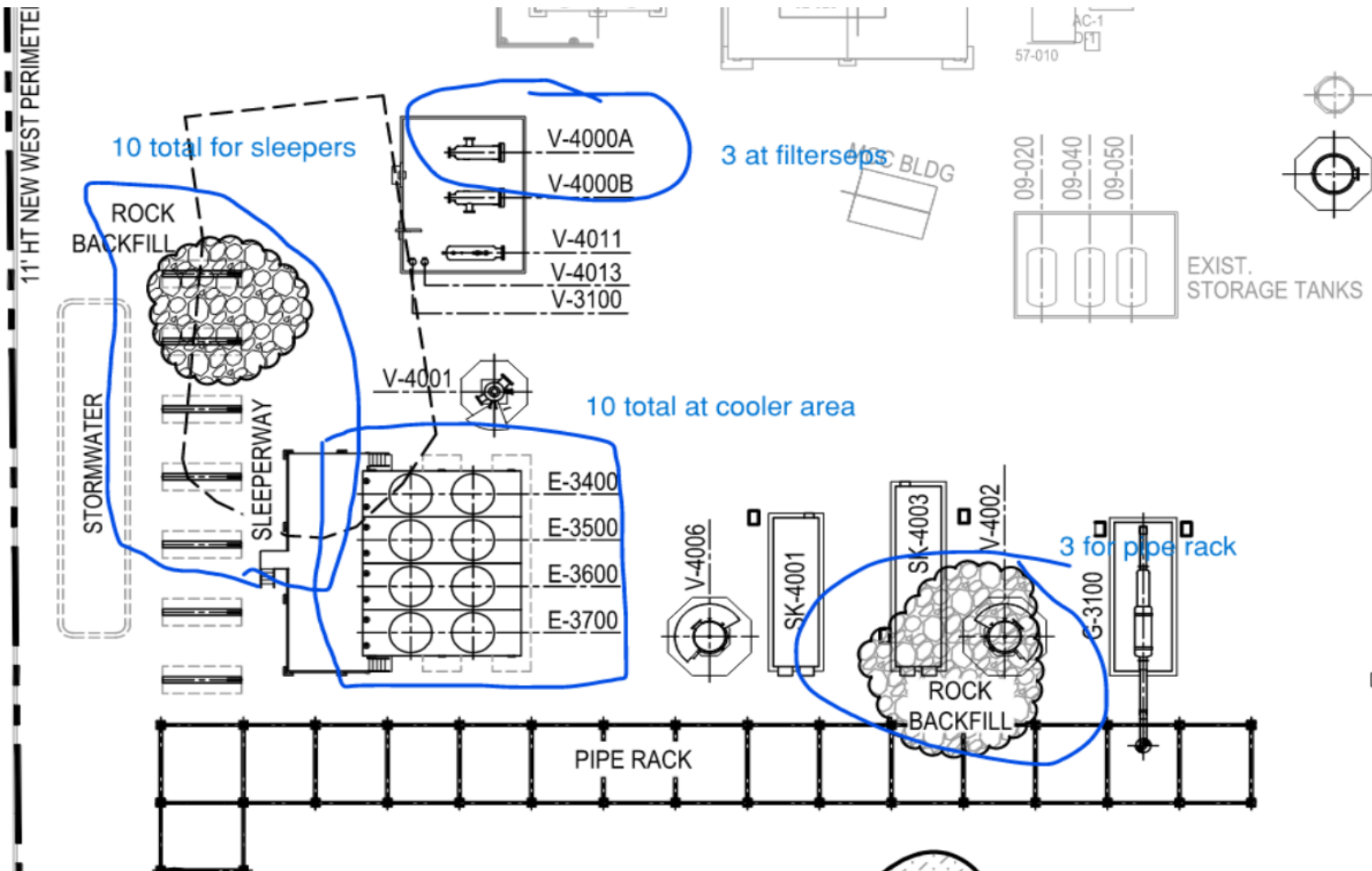
Actuals (As of September 30, 2021) \$ 31,727,022
 Directs \$ 22,374,794
 Non-Directs \$ 9,352,228

		EAC	ACT	ETC
Facilities-Ventura Comp-Modernization	All Cost Elements	313,189,529.93	31,727,022.08	281,462,
	Direct Costs	238,333,740.51	22,374,794.01	215,958,
	Direct Labor	9,368,203.80	3,102,275.30	6,265,
	Company Labor	9,368,203.80	3,102,275.30	6,265,
	Mgmt & Non-Union Labor	9,220,072.49	2,954,143.99	6,265,
	Union Labor	148,131.31	148,131.31	
	Non-Labor	228,965,536.71	19,272,518.71	209,693,
	Employee Costs	60,913.74	60,913.74	
	Employee Travel	60,913.74	60,913.74	
	Services	183,056,971.16	18,850,953.16	164,206,
	Services Consultants	22,872,084.64	3,582,503.64	19,289,
	Services Engineering & Construction	157,790,689.36	12,874,252.36	144,916,
	6220005 - SRV-CONTRACTORS-MAJOR PROJECTS	36,837,813.33	8,657,813.33	28,180,
	6220006 - SRV-CONSTRUCTION SERVICES DEPT O...	87,333,000.00	0.00	87,333,
	6220007 - SRV-CONTRACTORS-TIME & EQUIPMENT	1,881.69	1,881.69	
	6220008 - SRV-CONTRACTORS	686,020.33	686,020.33	
	6220009 - SRV-CONTRACTORS-SPECIFIC JOBS	452,448.87	452,448.87	
	6220480 - SRV-ENGINEERING	32,479,525.14	3,076,088.14	29,403,
	Services Government Payments & Permits	378.00	378.00	
	Services Vehicles and Equipment Rental	32,813.70	32,813.70	
	Services Other	2,361,005.46	2,361,005.46	
	Materials	45,632,637.57	145,637.57	45,487,
	Material Compressor Equipment	40,958,766.85	28,766.85	40,930,
	Material Issuances	517.64	517.64	
	Material Other	4,673,353.08	116,353.08	4,557,
	All Other	215,014.24	215,014.24	
	Internal Settlements	230,540.35	230,540.35	
	Vehicle Utilization	32,026.67	32,026.67	
	Other	(47,552.78)	(47,552.78)	
	Non Direct Costs	75,619,598.59	9,352,228.07	66,267,
	Non Direct Costs wo AFUDC	32,821,203.57	5,187,165.07	27,634,
	Non Direct Costs AFUDC	42,798,395.02	4,165,063.00	38,633,

Year	Escalation
2021	0.41%
2022	3.04%
2023	5.66%
2024	8.32%
2025	11.03%
2026	13.92%
2027	16.90%

Description	Qty	UOM	Unit Cost	Total Cost	Comment
Excavate, cleanup, stage disposal bins, and proper disposal of soils, transportation	887	CY	\$ 4,250.00	\$ 3,769,022.78	See "Soil Quantity" tab for details. See "Cost Reference" tab for Unit Cost, assuming 30 CY/day production and a total of 30 days
Imported Material	887	CY	\$ 63.50	\$ 56,313.63	
Backfill Hydroexcavation and potholes	15	Days	\$ 7,500.00	\$ 112,500.00	
Total Owner Subsurface Work				\$ 3,937,836.41	

Description	Qty	UOM	Unit Cost	Total Cost	Comment
Asphalt removal, assuming 4" thickness, includes staging into bins, transportation to landfill assuming non-haz.	20,000	SF	\$ 3.83	\$ 76,666.67	See "Soil Quantity" tab for details. See "Cost Reference" tab for Unit Cost
Industrial Hygienest oversight	20	Days	\$ 3,000.00	\$ 60,000.00	
Total Soil Remediation				\$ 136,666.67	



- 10 Sleeperway
- 10 Cooler Area
- 3 Filter Separator
- 3 Piperack
- 26 Total

\$ 15,000 Unit Cost, assuming 15 Feet deep, utilizing drill that can drill through rock

VCM EPC Environmental Costs

Soil Removal/Haul off - based off temporary office work completed summer 2021	
Cleanup and Staging	\$ 230,000.00
Transportation	\$ 110,000.00
Total	\$ 340,000.00
	80 cu yd
Per cu yd	\$ 4,250.00

Asphalt Removal - Bid from Summer 2021	
thickness	4 inch
sq ft	6000
Total estimate	\$ 23,000.00
per sq ft	\$ 3.83

Assumption: saw cut into 20" x 20" squares, includes staging into bins, transportation to landfill assuming non-haz. 5day/8hour work hours 5 days of work.

IH oversight daily rate	\$ 3,000.00
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Subsurface Soil Removal Estimate

Hydroexcavation	533	6ft depth		linear footages provided by EPC contractor			
	237	8ft depth					
	19	10ft depth					
Total	789	cu yd					
Geotech bores							
Depth	Qty	Soil (cu yd)	Total				
10ft	3	1.16	3				
30ft	10	3.49	35				
50ft	3	5.82	17				
75ft	2	8.73	17				
100ft	1	11.64	12				
			85	cu yd			
Potholes	13	1	13	cu yd			
Total Volume			887	cu yd			

SCG
Class 5 (+100% / -50% Accuracy)

Done by: Campos
Rev: 2
Date: 1/25/2022

Ventura Steel - (4) Gas Compressor Option

Description	Qty	UOM	Unit Cost	Total Cost	Comments
Total EPC (Before Site Specific Additions)	1	LS		\$ 166,000,000	Based on 2020 FEED Estimate; See "Base EPC Elec. Study"
<i>Site demolition and Remediation</i>	<i>0.0</i>	<i>ACRE</i>	<i>\$ 830,000</i>	<i>\$</i>	<i>Assume included as part of the sale of the site, cost re-allocated to Land</i>
Clear & Grub / Grade Laydown Area	4.9	ACRE	\$ 98,884	\$ 487,496	
Imported Fill for remediated soil	122,129.3	CY	\$ 66	\$ 8,056,452	
<i>Terraced Retaining wall (15' H x 700' L) x 3</i>	<i>0</i>	<i>SF</i>	<i>\$</i>	<i>\$</i>	<i>N/A</i>
<i>Slope & Bench Retaining wall (15' H x 2400' L) x 2</i>	<i>0</i>	<i>SF</i>	<i>\$</i>	<i>\$</i>	<i>N/A</i>
<i>Upgrade / Re-inforce Bridge</i>	<i>0</i>	<i>LS</i>	<i>\$</i>	<i>\$</i>	<i>N/A</i>
<i>Retaining wall for access road (8' tall x 3,000 LF)</i>	<i>0</i>	<i>SF</i>	<i>\$</i>	<i>\$</i>	<i>N/A</i>
<i>Concrete Drainage Ditch (5,500 LF)</i>	<i>0</i>	<i>LF</i>	<i>\$</i>	<i>\$</i>	<i>N/A</i>
New Pipelines (Improved)	9,398	LF	\$ 714	\$ 6,710,458	(1) 16" Line to L1004/1005 at existing site along paved road
New Pipelines (Unimproved)	16,949	LF	\$ 414	\$ 7,016,803	(1) 16" Line to L1004 and (1) 16" line to L1005
MLV Station	1	EA	\$ 1,350,000	\$ 1,350,000	Assumes 1 station. Includes New MLVs on L1004 and MLV 1005, bridles, actuators, etc.
Piles	489	EA	\$ 25,000	\$ 12,225,000	
Additional Engineering for Pipeline and Remediation	1	LS	\$ 1,750,000	\$ 1,750,000	
Weather Allowance	1	LS	\$ 2,000,000	\$ 2,000,000	Allowance to cover any delays due to weather
<i>Additional SCE Substation Cost</i>	<i>0</i>	<i>LS</i>	<i>\$ 6,000,000</i>	<i>\$</i>	<i>N/A</i>
Total EPC Cost With Cost Adders				\$ 205,596,000	
SCG Company Labor	1	LS	\$ 12,538,074	\$ 12,538,074	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 71 months
3rd Party Project Services	1	LS	\$ 20,411,185	\$ 20,411,185	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 71 months
3rd Party Inspection Services	1	LS	\$ 1,675,620	\$ 1,675,620	Based on 2020 Ventura FEED, add 50% for new pipelines
3rd Party Surveying / As-Builts	1	LS	\$ 462,000	\$ 462,000	Based on 2020 Ventura FEED, add 50% for new pipelines
3rd Party Environmental	1	LS	\$ 5,204,849	\$ 5,204,849	Based on input provided by Environmental Group, See "Environmental" Tab
3rd Party Pressure Test Cert.	1	LS	\$ 300,000	\$ 300,000	Based on 2020 Ventura FEED, add \$100K allowance for hydrotesting new pipelines
3rd Party Land Services	1	LS	\$ 43,954,862	\$ 43,954,862	Based on input provided by Land group, includes crop loss; See "Land" Tab, includes cost for demo and remediation of existing site, assuming these costs would be included with sale of site
3rd Party Misc. Services	1	LS	\$ 2,810,000	\$ 2,810,000	Based on 2020 Ventura FEED, reduced commissioning/startup and vendor reps based on commissioning and vendor reps already included in EPC
3rd Party Outreach & Public Affairs	1	LS	\$ 3,300,000	\$ 3,300,000	Allowance
3rd Party Permits	1	LS	\$ 280,700	\$ 280,700	Based on 2020 Ventura FEED, Add allowance of \$250K for environmental permits
3rd Party Other Non-Labor	1	LS	\$ 626,904	\$ 626,904	Based on 5% of total SCG Company Labor Costs
Total Un-Loaded Direct Cost				\$ 297,160,000	
Contingency	30%			\$ 89,148,000	
Actuals				\$ 22,374,794	as of September 30, 2021 (Directs only, actuals for loaders are included under loaders)
Escalation	11.87%			\$ 45,856,228	
Total Un-Loaded Direct Cost w/ Contingency				\$ 454,539,000	
Loaders	33%			\$ 151,966,416	Included as a placeholder, recommend to be verified by project controls, includes actuals for Loaders
Total Loaded Project Cost				\$ 607,000,000	Class 5 (+100% / -50%)

Low	-50%	\$ 303,500,000
High	100%	\$ 1,214,000,000

Year	Escalation %	Escalation \$
2026	13.92%	\$ 23,107,425
2025	11.03%	\$
2026	13.92%	\$ 67,860
2026	13.92%	\$ 1,121,469
2026	13.92%	\$
2026	13.92%	\$
2026	13.92%	\$
2022	3.04%	\$
2026	13.92%	\$
2026	13.92%	\$ 934,105
2026	13.92%	\$ 976,749
2026	13.92%	\$ 187,922
2026	13.92%	\$ 1,701,737
2022	3.04%	\$ 53,200
2026	13.92%	\$ 278,403
2022	3.04%	\$
N/A	0.00%	\$ -
2022	3.04%	\$ 620,500
2027	16.90%	\$ 283,246
2027	16.90%	\$ 78,096
2026	13.92%	\$ 724,522
2027	16.90%	\$ 50,712
2023	5.66%	\$ 2,487,845
2027	16.90%	\$ 475,001
2024	8.32%	\$ 274,560
2024	8.32%	\$ 23,354
N/A	0.00%	\$ -
2026	13.92%	\$ 12,409,522

Total Escalation \$ 45,856,228

Disclaimer: This estimate is a Class 5 (+100% / -50%) Estimate and has been requested by the SCG Project team for the sole purpose of feasibility studies to support discussions with the CPUC. This estimate is not intended to be used to for any budgetary funding.

SCG
Class 5 (+100% / -50% Accuracy)

Done by: Campos
Rev: 2
Date: 1/25/2022

Ventura Steel - (2) Gas x (2) Electric Compressors

Description	Qty	UOM	Unit Cost	Total Cost	Comments
Total EPC (Before Site Specific Additions)	1	LS		\$ 174,000,000	Based on 2020 FEED Estimate and adjusted for Hybrid Option; See "Base EPC Elec. Study"
<i>Site demolition and Remediation</i>	0.0	ACRE	\$ 830,000	\$	Assume included as part of the sale of the site, cost re-allocated to Land
Clear & Grub / Grade Laydown Area	4.9	ACRE	\$ 98,884	\$ 487,496	
Imported Fill for remediated soil	122,129.3	CY	\$ 66	\$ 8,056,452	
<i>Terraced Retaining wall (15' H x 700' L) x 3</i>	0	SF	\$	\$	N/A
<i>Slope & Bench Retaining wall (15' H x 2400' L) x 2</i>	0	SF	\$	\$	N/A
<i>Upgrade / Re-inforce Bridge</i>	0	LS	\$	\$	N/A
<i>Retaining wall for access road (8' tall x 3,000 LF)</i>	0	SF	\$	\$	N/A
<i>Concrete Drainage Ditch (5,500 LF)</i>	0	LF	\$	\$	N/A
New Pipelines (Improved)	9,398	LF	\$ 714	\$ 6,710,458	(1) 16" Line to L1004/1005 at existing site along paved road
New Pipelines (Unimproved)	16,949	LF	\$ 414	\$ 7,016,803	(1) 16" Line to L1004 and (1) 16" line to L1005
MLV Station	1	EA	\$ 1,350,000	\$ 1,350,000	Assumes 1 station. Includes New MLVs on L1004 and MLV 1005, bridles, actuators, etc.
Piles	489	EA	\$ 25,000.00	\$ 12,225,000	
Additional Engineering for Pipeline and Remediation	1	LS	\$ 1,750,000	\$ 1,750,000	
Weather Allowance	1	LS	\$ 2,000,000	\$ 2,000,000	Allowance to cover any delays due to weather
Additional SCE Substation Cost	1	LS	\$ 7,000,000	\$ 7,000,000	Additional cost added to bring total SCE cost to \$11M, Assumes 5 miles
Total EPC Cost With Cost Adders				\$ 220,596,000	
SCG Company Labor	1	LS	\$ 12,538,074	\$ 12,538,074	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 107 months
3rd Party Project Services	1	LS	\$ 20,411,185	\$ 20,411,185	Based on 2020 Ventura FEED, scaled based on new preliminary schedule of 107 months
3rd Party Inspection Services	1	LS	\$ 1,675,620	\$ 1,675,620	Based on 2020 Ventura FEED, add 50% for new pipelines
3rd Party Surveying / As-Builts	1	LS	\$ 462,000	\$ 462,000	Based on 2020 Ventura FEED, add 50% for new pipelines
3rd Party Environmental	1	LS	\$ 5,204,849	\$ 5,204,849	Based on input provided by Environmental Group, See "Environmental" Tab
3rd Party Pressure Test Cert.	1	LS	\$ 300,000	\$ 300,000	Based on 2020 Ventura FEED, add \$100K allowance for hydrotesting new pipelines
3rd Party Land Services	1	LS	\$ 43,954,862	\$ 43,954,862	Based on input provided by Land group, includes crop loss; See "Land" Tab, includes cost for demo and remediation of existing site, assuming these costs would be included with sale of site
3rd Party Misc. Services	1	LS	\$ 2,810,000	\$ 2,810,000	Based on 2020 Ventura FEED, reduced commissioning/startup and vendor reps based on commissioning and vendor reps already included in EPC
3rd Party Outreach & Public Affairs	1	LS	\$ 3,400,000	\$ 3,400,000	Allowance
3rd Party Permits	1	LS	\$ 280,700	\$ 280,700	Based on 2020 Ventura FEED, Add allowance of \$250K for environmental permits
3rd Party Other Non-Labor	1	LS	\$ 626,904	\$ 626,904	Based on 5% of total SCG Company Labor Costs
Total Un-Loaded Direct Cost				\$ 312,260,000	
Contingency	30%			\$ 93,678,000	
Actuals				\$ 22,374,794	as of September 30, 2021 (Directs only, actuals for loaders are included under loaders)
Escalation	11.71%			\$ 47,538,661	
Total Un-Loaded Direct Cost w/ Contingency				\$ 475,851,000	
Loaders	33%			\$ 158,999,376	Included as a placeholder, recommend to be verified by project controls, includes actuals for Loaders
Total Loaded Project Cost				\$ 635,000,000	Class 5 (+100% / -50%)

Low	-50%	\$ 317,500,000
High	100%	\$ 1,270,000,000

Year	Escalation %	Escalation \$
2026	13.92%	\$ 24,221,036
2025	11.03%	\$
2026	13.92%	\$ 67,860
2026	13.92%	\$ 1,121,469
2026	13.92%	\$
2026	13.92%	\$
2026	13.92%	\$
2022	3.04%	\$
2026	13.92%	\$ 934,105
2026	13.92%	\$ 976,749
2026	13.92%	\$ 187,922
2026	13.92%	\$ 1,701,737
2022	3.04%	\$ 53,200
2026	13.92%	\$ 278,403
2022	3.04%	\$ 212,800
N/A	0.00%	\$ -
2022	3.04%	\$ 620,500
2027	16.90%	\$ 283,246
2027	16.90%	\$ 78,096
2026	13.92%	\$ 724,522
2027	16.90%	\$ 50,712
2023	5.66%	\$ 2,487,845
2027	16.90%	\$ 475,001
2024	8.32%	\$
2024	8.32%	\$ 23,354
N/A	0.00%	\$ -
2026	13.92%	\$ 13,040,105

Total Escalation \$ 47,538,661

Disclaimer: This estimate is a Class 5 (+100% / -50%) Estimate and has been requested by the SCG Project team for the sole purpose of feasibility studies to support discussions with the CPUC. This estimate is not intended to be used to for any budgetary funding.

Description	Qty	UOM	Unit Material	Material Cost	Unit Manhour	Manhours	Labor Cost	Unit Subcontract Cost	Subcontractor Cost	Total Cost	Unit Cost	Comments
Site demolition and Remediation	15.14	ACRE		\$ -		0	\$ -	\$ 830,000	\$ 12,566,200	\$ 12,566,200	\$ 830,000.00	Assume that as part of the sale of the site, demolition and remediation would be included
Clear & Grub / Grade Laydown Area	4.93	ACRE		\$ -	527	3,250	\$ 487,496		\$ -	\$ 487,496	\$ 98,883.62	Assume 1 crew x 3 months
Imported Fill for remediated soil	122,129.33	CY	\$ 50.00	\$ 6,106,467	0	13,000	\$ 1,949,985		\$ -	\$ 8,056,452	\$ 65.97	
Terraced Retaining wall (15' H x 700' L) x 3	0	SF		\$ -		0	\$ -	\$ 90	\$ -	\$ -	\$ -	See "Cost Ref" Tab
Slope & Bench Retaining wall (15' H x 2400' L) x 2	0	SF		\$ -		0	\$ -	\$ 90	\$ -	\$ -	\$ -	
Upgrade / Re-inforce Bridge	0	LS		\$ -		0	\$ -	\$ 50,000	\$ -	\$ -	\$ -	Allowance
Retaining wall for access road (8' tall x 3,000 LF)	0	SF		\$ -		0	\$ -	\$ 60	\$ -	\$ -	\$ -	
Concrete Drainage Ditch (5,500 LF)	0	LF		\$ -		0	\$ -	\$ 85	\$ -	\$ -	\$ -	
New Pipelines (Improved)	9,398	LF	\$ 114.00	\$ 1,071,418		0	\$ -	\$ 600	\$ 5,639,040	\$ 6,710,458	\$ 714.00	
New Pipelines (Unimproved)	16,949	LF	\$ 114.00	\$ 1,932,163		0	\$ -	\$ 300	\$ 5,084,640	\$ 7,016,803	\$ 414.00	Added 20% to price to account for misc. fittings; adjusted install rate to account for hilly terrain
MLV Station	1	EA		\$ -		0	\$ -	\$ 1,350,000	\$ 1,350,000	\$ 1,350,000	\$ 1,350,000.00	Include New MLVs on L1004 and MLV 1005, bridles, actuators, etc.
Piles	489	EA		\$ -		0	\$ -	\$ 25,000	\$ 12,225,000	\$ 12,225,000	\$ 25,000.00	
				\$ -		0	\$ -		\$ -	\$ -	\$ -	
				\$ -		0	\$ -		\$ -	\$ -	\$ -	
TOTALS										\$ 48,412,409	\$ -	

Ventura Compressor Project

EPC Construction Schedule on Alternative Locations

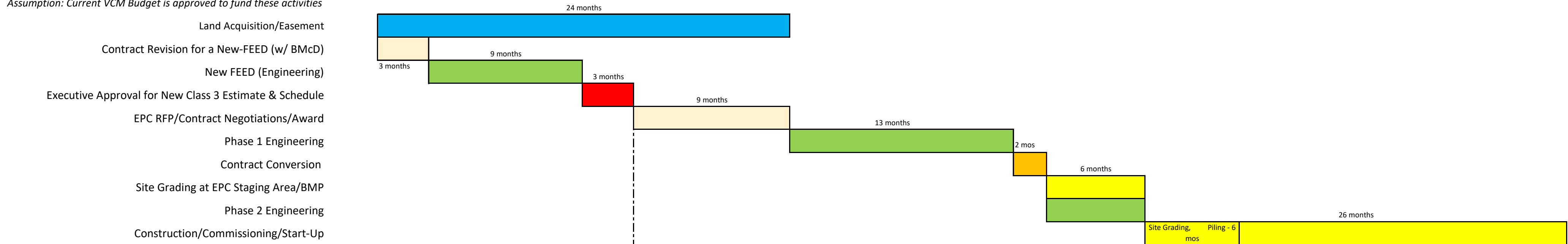
Date: 1/25/22, Rev 6



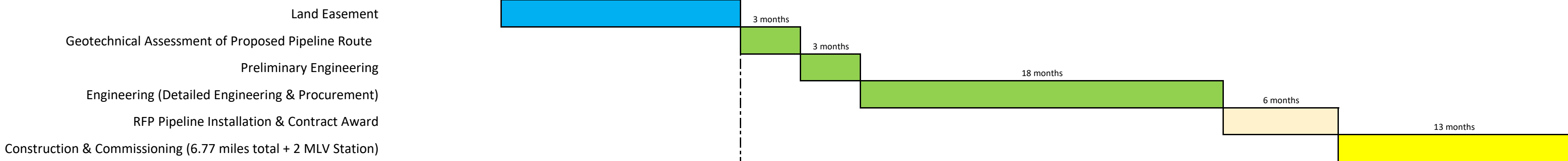
VENTURA STEEL

Compressor Station (4 Gas & Hybrid)

Assumption: Current VCM Budget is approved to fund these activities



New Pipeline & Main Line Valve Station



Electrical Infrastructure (SoCal Edison) for Hybrid

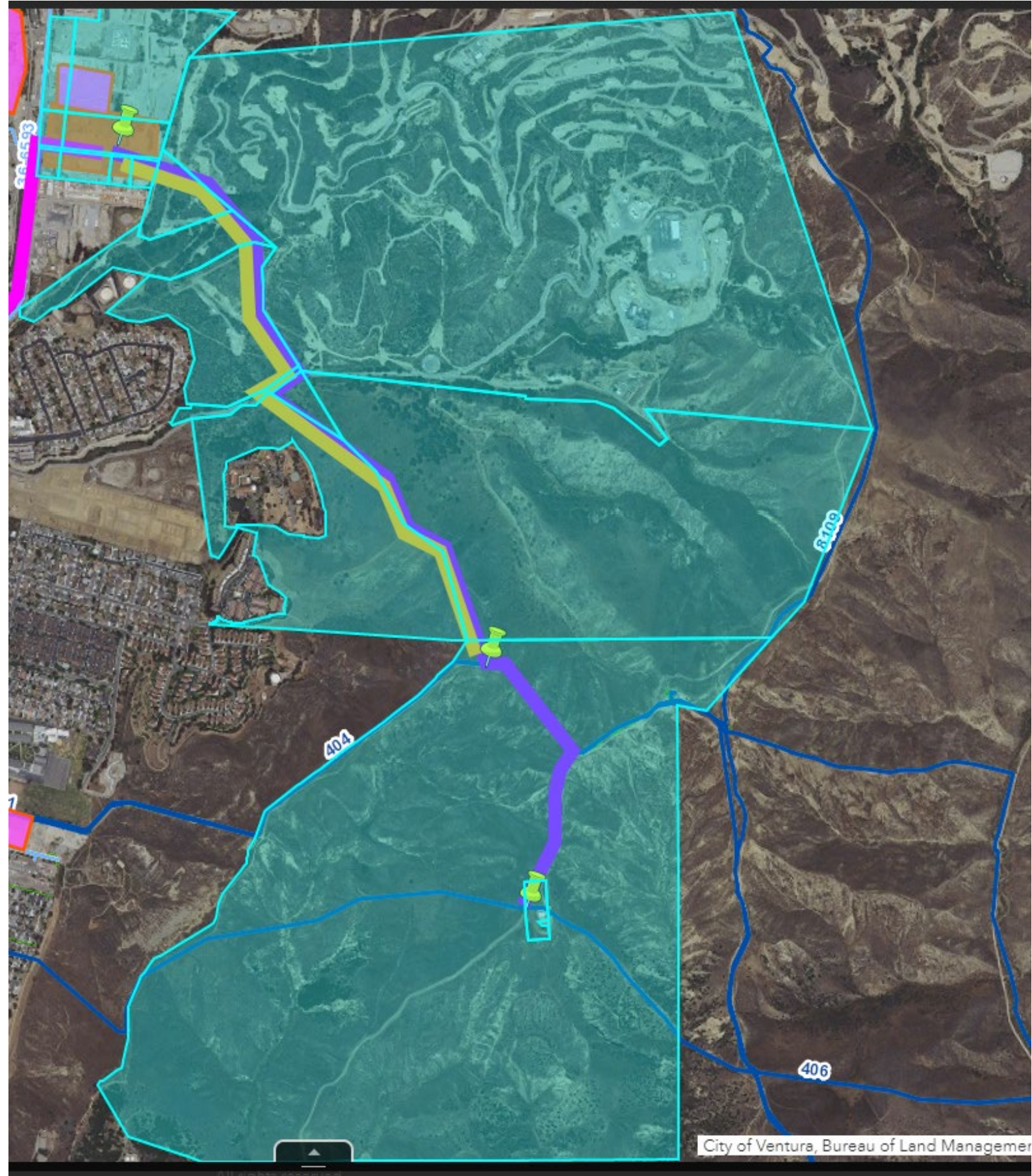


	Qty	UOM	No. Supports Each	Total
Pipe Supports	116	EA	2	232
Equipment Count	56	EA	4	224
Compressor Building	1	EA	15	15
Admin Building	1	EA	9	9
New Warehouse	1	EA	9	9
				489

COMPRESSOR MODERNIZATION EQUIPMENT LIST		
PACKAGE EQUIPMENT		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
C-3400	GAS COMPRESSOR	NEW
C-3500	GAS COMPRESSOR	NEW
C-3600	GAS COMPRESSOR	NEW
C-3700	GAS COMPRESSOR	NEW
SK-4001	INSTRUMENT AIR COMPRESSOR SKID	NEW
SK-4003	STARTING AIR COMPRESSOR SKID	NEW
G-3100	EMERGENCY GENERATOR SKID	NEW
ST-3001	BLOWDOWN STACK	NEW
EXCHANGERS		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
E-3400	DISCHARGE COOLER	NEW
E-3500	DISCHARGE COOLER	NEW
E-3600	DISCHARGE COOLER	NEW
E-3700	DISCHARGE COOLER	NEW
E-3401	AUXILIARY WATER COOLER	NEW
E-3402	JACKET WATER COOLER	NEW
E-3501	AUXILIARY WATER COOLER	NEW
E-3502	JACKET WATER COOLER	NEW
E-3601	AUXILIARY WATER COOLER	NEW
E-3602	JACKET WATER COOLER	NEW
E-3701	AUXILIARY WATER COOLER	NEW
E-3702	JACKET WATER COOLER	NEW
VESSELS		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
V-3100	GENERATOR FUEL GAS REGULATOR FILTER	NEW
V-4000A	FILTER/SEPARATOR	NEW
V-4000B	FILTER/SEPARATOR	NEW
V-4001	DISCHARGE SCRUBBER	NEW
V-4002	STARTING AIR RECEIVER	NEW
V-4003	OILY WASTE STORAGE DRUM	NEW
V-4004	ENGINE OIL STORAGE DRUM	NEW
V-4005	WASTE OIL STORAGE DRUM	NEW
V-4006	INSTRUMENT AIR RECEIVER	NEW
V-4011	CONDENSATE DRIP DRUM	NEW
V-4012	COOLANT STORAGE DRUM	NEW
V-4013	COMPRESSOR FUEL GAS REGULATOR FILTER	NEW
T-4001	COMPRESSOR AREA OILY WASTE TANK	NEW
T-4002	COMPRESSOR AREA OIL WASTE TANK	NEW
T-4003	COMPRESSOR AREA COOLANT DRAIN SUMP	NEW
PUMPS		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
P-4001	ENGINE OIL CHARGE PUMP	NEW
P-4003	COMPRESSOR AREA OILY WASTE TANK PUMP	NEW
P-4004	WASTE OIL TANK PUMP	NEW
P-4005	COMPRESSOR ENGINE WASTE COOLANT PUMP	NEW
P-4006	COOLANT CHARGE PUMP	NEW
MISC		
EQUIPMENT NAME	EQUIPMENT DESCRIPTION	WORK TYPE
F-3400	INLET AIR FILTER #1	NEW
F-3500	INLET AIR FILTER #2	NEW
F-3600	INLET AIR FILTER #3	NEW
F-3700	INLET AIR FILTER #4	NEW
R-3400	CATALYTIC CONVERTER #1	NEW
R-3500	CATALYTIC CONVERTER #2	NEW
R-3600	CATALYTIC CONVERTER #3	NEW
R-3700	CATALYTIC CONVERTER #4	NEW
S-3400	EXHAUST SILENCER #1	NEW
S-3401	INLET SILENCER #1	NEW
S-3500	EXHAUST SILENCER #2	NEW
S-3501	INLET SILENCER #2	NEW
S-3600	EXHAUST SILENCER #3	NEW
S-3601	INLET SILENCER #3	NEW
S-3700	EXHAUST SILENCER #4	NEW
S-3701	INLET SILENCER #4	NEW

Location	APN	OWNER_NAME_1	ACREAGE	LAND_SQFT	IMPRV_PC	USE_CODE_STD_CTGR_DESC	ZONING	Value Per Acre	Value Per Sq Ft	Station Acres	Land Cost ----- Station Cost
Ventura Steel	063-0-210-115	SHELL OIL CO	1.98	86248		VACANT LAND	M3	\$ 698,000.00	\$ 16.02	15	\$ 1,382,027.18
Ventura Steel	063-0-210-125	SHELL OIL CO	8.77	382021		VACANT LAND	M3	\$ 698,000.00	\$ 16.02		\$ 6,121,456.80
Ventura Steel	063-0-220-135	HULL II, JEFFREY BRIAN	1.52	66432	41.81	INDUSTRIAL	-	\$ 698,000.00	\$ 16.02		\$ -----
Ventura Steel	063-0-220-145	SISU PROPERTIES LLC	3.46	150664	91.29	INDUSTRIAL	-	\$ 698,000.00	\$ 16.02		\$ 2,414,221.12
Ventura Steel	063-0-220-155	SISU PROPERTIES LLC	1.49	64702	90.96	INDUSTRIAL	-	\$ 698,000.00	\$ 16.02		\$ 1,036,776.77
Ventura Steel	063-0-220-165	FRAZIER, RAYMOND EARL	1.68	73029	64.02	INDUSTRIAL	-	\$ 698,000.00	\$ 16.02		\$ 1,170,207.58
Ventura Steel	063-0-220-085	WITHERSPOON, GRANT L	3.87	168577		MISCELLANEOUS	M3				
Ventura Steel	063-0-220-095	WITHERSPOON, GRANT L	1	43560		MISCELLANEOUS	M3				
Ventura Steel	063-0-210-095	Aera Energy LLC					M3	\$ 698,000.00	\$ 16.02		
Ventura Steel	069-0-010-145	Shell Oil Co					OS160AC	\$ 68,500.00	\$ 1.57		
Ventura Steel	069-0-010-165	CRIMSON CALIF PIPELINE LP					OS160AC	\$ 68,500.00	\$ 1.57		
Ventura Steel	069-0-010-175	SHELL OIL CO					OS160AC	\$ 68,500.00	\$ 1.57		
Ventura Steel	069-0-010-020	Smith Lloyd M					OS160AC	\$ 68,500.00	\$ 1.57		
Ventura Steel	069-0-020-305	Seneca Gardens Limited Silver Blues Trust / Groover David / Groover					RPD-1	\$ 475,000.00	\$ 109.20		
Ventura Steel	064-0-150-155	Katherine					OS160AC	\$ 68,500.00	\$ 1.57		
Sub Totals											\$ 12,124,689.44



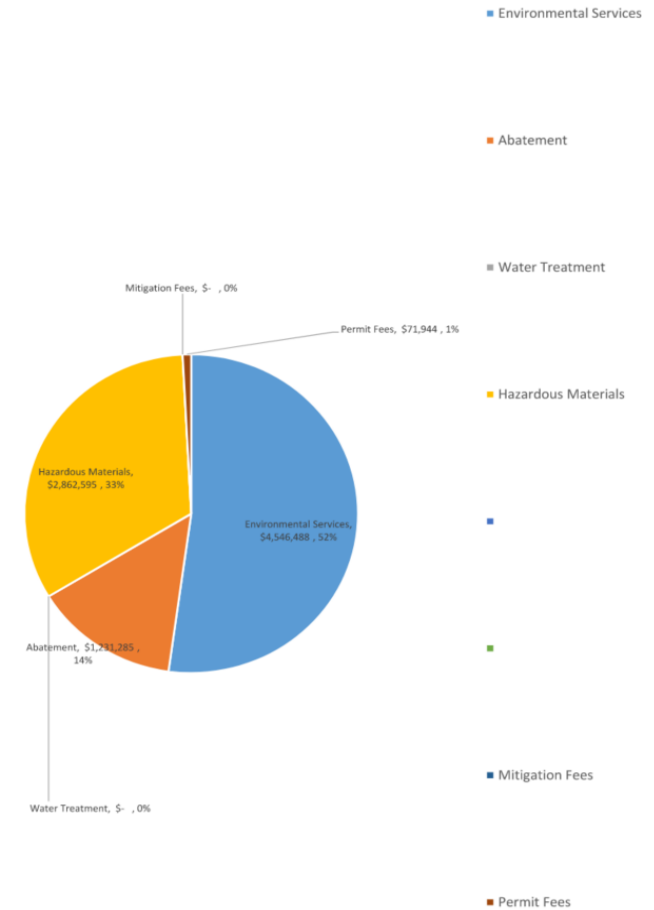


Original Total Environmental Cost: \$ 9,254,304
Revised Environmental (without remediation) \$ 5,204,849
Cost of Remediation (to be allocated to Land) \$ 4,049,455

ORIGINAL ENVIRONMENTAL ESTIMATE

Version 1.1 10/18/17

Project Detail			Costs	Total	Total Hours
Item Description	Description/Value	Notes/Assumptions			
Project Name	Ventura Steel		Environmental Services	\$ 4,546,488	11,320.0
County	Ventura		Abatement	\$ 1,231,285	
Project Type (hydrotest, replacement, valve upgrade, valve installation, valve automation)	Compressor Station		Water Treatment	\$ -	
Diameter (inches)	NA		Hazardous Materials	\$ 2,862,595	
Acres	20.5	15 onsite and 5.5 acres off site			
New Road/Road improvements length (feet)	3600	3,600 linear feet of new 12-foot road for construction access to new pipeline corridor. Assumes existing access from School Canyon Road and Crimea Street Fire Road is adequate			
New Pipeline Length (feet)	19,117	Pipeline Corridor #1: 9,398 linear feet of 2x16-inch suction and discharge pipelines located within Ventura Avenue Pipeline Corridor #2: 2,855 linear feet 1x16-inch suction pipeline to new main line valve Pipeline Corridor #3: 6,864 linear feet of 2x16 inch suction pipelines			
Pre Const. Planning Support Duration (weeks)	228	3 years env permitting and 21 months per Preliminary Schedule Alternative Locations Rev2	Mitigation Fees	\$ -	
Construction Duration (weeks)	200	50 months per Preliminary Schedule Alternative Locations Rev2	Permit Fees	\$ 71,944	
Water Treatment Duration (Months)	0	Hydrostatic test water to be disposed to land for new pipe (no treatment required).	TOTAL ENVIRONMENTAL COSTS (Purchased Services):	\$ 8,712,312	
Abatement Duration (days)	400		Internal Labor	\$ 541,992	
Water Volume (gallons)		No water treatment needed. Assume potable water on clean pipe.	Total	\$ 9,254,304	
Source Water (potable/non-potable)	Potable	Assumes water to be trucked in.			
Water Disposal Method (offsite disposal, beneficial reuse, etc.)	Land	Assumes testing new pipe with potable water and disposal to land. Treatment of water not required.			
Number of JD crossings	2	Counted assumed JDs on Google Earth			

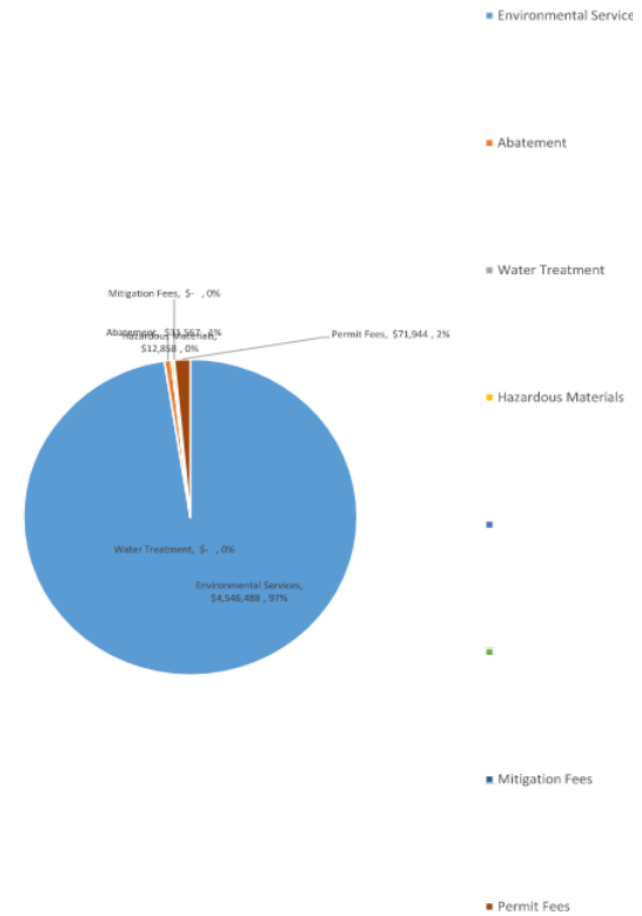


REVISED ENVIRONMENTAL (Without Remediation)

Version 1.1 10/18/17

Project Detail		
Item Description	Description/Value	Notes/Assumptions
Project Name	Ventura Steel	
County	Ventura	
Project Type (hydrotest, replacement, valve upgrade, valve installation, valve automation)	Compressor Station	
Diameter (inches)	NA	
Acres	20.5	15 onsite and 5.5 acres off site
New Road/Road improvements length (feet)	3600	3,600 linear feet of new 12-foot road for construction access to new pipeline corridor. Assumes existing access from School Canyon Road and Crimea Street Fire Road is adequate
New Pipeline Length (feet)	19,117	Pipeline Corridor #1: 9,398 linear feet of 2x16-inch suction and discharge pipelines located within Ventura Avenue Pipeline Corridor #2: 2,855 linear feet 1x16-inch suction pipeline to new main line valve Pipeline Corridor #3: 6,864 linear feet of 2x16 inch suction pipelines
Pre Const. Planning Support Duration (weeks)	228	3 years env permitting and 21 months per Preliminary Schedule Alternative Locations Rev2
Construction Duration (weeks)	200	50 months per Preliminary Schedule Alternative Locations Rev2
Water Treatment Duration (Months)	0	Hydrostatic test water to be disposed to land for new pipe (no treatment required).
Abatement Duration (days)	10	assume site is turned over with all abatement is complete Assume 10 days of abatement to tie in to existing lines
Water Volume (gallons)		No water treatment needed. Assume potable water on clean pipe.
Source Water (potable/non-potable)	Potable	Assumes water to be trucked in.
Water Disposal Method (offsite disposal, beneficial reuse, etc.)	Land	Assumes testing new pipe with potable water and disposal to land. Treatment of water not required.
Number of JD crossings	2	Counted assumed JDs on Google Earth

Costs	Total	Total Hours
Environmental Services	\$ 4,546,488	
Abatement	\$ 31,567	
Water Treatment	\$ -	
Hazardous Materials	\$ 12,858	
Mitigation Fees	\$ -	
Permit Fees	\$ 71,944	
TOTAL ENVIRONMENTAL COSTS (Purchased Services):	\$ 4,662,857	
Internal Labor	\$ 541,992	
Total	\$ 5,204,849	



Compressor Upgrade
Ventura Compressor Modernization Project

PROJECT SUMMARY

EPC - Engineering / Design Services	\$ 28,351,920
EPC - Construction	\$ 118,106,889
EPC - Construction Management	\$ 19,299,000
SCG Labor - Mgmt. & Non Labor	\$ 8,135,466
SCG Labor - Union T/H	\$ 791,500
SCG Labor - Outreach & Public Affairs	\$ 609,000
Material- Pipe & Fittings & Valves	\$ -
Material-Valves	\$ -
Material- Other	\$ 110,000
PM / Project Services	\$ 15,523,720
Inspection Services	\$ 1,117,080
Surveying / As-builts	\$ 307,547
Environmental Services	\$ 365,952
Pressure Test Certification Services	\$ 200,000
Water Storage	\$ -
X-ray / NDE	\$ -
Land Services	\$ 1,029,438
CNG / LNG	\$ -
Spreadboss	\$ -
Miscellaneous Services	\$ 5,960,000
Outreach & Public Affairs	\$ -
Permits	\$ 30,736
Other Non-Labor Costs	\$ 476,798
GMA	\$ -
Total Un-Loaded Direct Estimated Cost	\$ 200,415,047
Actuals as of Jan. 2020	\$ 10,221,538
Total Un-Loaded Direct Cost w/Actuals	\$ 210,636,585
Contingency @ 14.85%	\$ 29,753,297
Total Un-Loaded Direct Cost w/Contingency	\$ 240,389,882
Escalation	\$ 5,894,149
Total Un-Loaded Direct Cost w/ Escalation	\$ 246,284,031
Loaders (Provided by Cost Group)	\$ 68,521,769
Total Loaded Project Cost	\$ 314,806,000

FEED EPC COST	\$ 166,000,000
HYBRID DELTA ADDER	\$ 8,000,000
HYBRID EPC COST	\$ 174,000,000

Source: <https://semspub.epa.gov/work/05/939123.pdf>

Total Remediation Estimated cost for McLouth Steel Corp. (Prepared for the EPC, 2017)
 Cost is inclusive of demolition and proper disposal of tanks and buildings on site
 Cost also includes demolition of wells
 Project Based in Michigan

Total Cost	\$	147,787,652
Total Area		250 Acres
Cost per Acre	\$	591,150.61
Esc. To 2022	\$	685,305.57
Add 20% for California Pricing Basis	\$	822,366.69
USE:	\$	830,000.00

2.1 SITE LOCATION

The Subject Property is situated between the east side of West Jefferson Avenue and the Detroit River and between Sibley and King Roads, in Trenton, Wayne County, Michigan. The Subject Property has an approximate elevation of 588 feet above sea level and lies 6 to 15 feet above typical nearby river elevations. The north portion of the Subject Property consists of 70 acres and is referred to as the Riverview Trenton Railroad property (RTRR) and the south side consists of 180 acres, totaling 250 acres. The Subject Property is occupied by one Main Production Building, consisting of fourteen (14) interconnected process areas, and numerous ancillary support structures that were all previously used in the production of steel. Figure 1 is a site location map.

				organics and metals. Rated for 200 gpm.					
			46 wells	Install 46 new wells in addition to 4 existing wells.	Monitoring Well Installation	46 wells	\$ 5,000	\$ 230,000	
Sediment	Contaminated Sediment in Detroit River	Sediment in the Detroit River adjacent to the eastern site boundary. Contains PAHs and metals, and possibly PCBs. Contaminated sediment assumed to extend one third of the distance across river for entire length of site.	270,741 cy	8,500' x 430' x 2' deep assumed targeted for removal. Approximately one third width of channel near site.	Hydraulic Dredging, Dewatering and Disposal (Nonhazardous)	270,741 cy	\$ 134	\$ 36,360,481	\$ 67,834,093
			203,056 cy	8,500' x 430' x 1.5' thick reactive cap containing 5 percent organoclay by mass in bottom 6" of cap.	Reactive Cap	203,056 cy	\$ 155	\$ 31,473,611	
Surface Soil	Entire Site	Entire aerial extent of site. Widespread PAH contamination expected. Soil cover will prevent direct contact.	250 acres	Entire site after demolition of all structures, except separately capped areas	Soil Cover	250 acre	\$ 57,798	\$ 14,449,556	\$ 14,449,556
TOTAL Capital Cost								\$ 147,787,652	

Actuals (As of September 30, 2021) \$ 31,727,022
 Directs \$ 22,374,794
 Non-Directs \$ 9,352,228

		EAC	ACT	ETC
Facilities-Ventura Comp-Modernization	All Cost Elements	313,189,529.93	31,727,022.08	281,462,000.00
	Direct Costs	238,333,740.51	22,374,794.01	215,958,946.50
	Direct Labor	9,368,203.80	3,102,275.30	6,265,928.50
	Company Labor	9,368,203.80	3,102,275.30	6,265,928.50
	Mgmt & Non-Union Labor	9,220,072.49	2,954,143.99	6,265,928.50
	Union Labor	148,131.31	148,131.31	
	Non-Labor	228,965,536.71	19,272,518.71	209,693,008.20
	Employee Costs	60,913.74	60,913.74	
	Employee Travel	60,913.74	60,913.74	
	Services	183,056,971.16	18,850,953.16	164,206,018.00
	Services Consultants	22,872,084.64	3,582,503.64	19,289,581.00
	Services Engineering & Construction	157,790,689.36	12,874,252.36	144,916,437.00
	6220005 - SRV-CONTRACTORS-MAJOR PROJECTS	36,837,813.33	8,657,813.33	28,180,000.00
	6220006 - SRV-CONSTRUCTION SERVICES DEPT O...	87,333,000.00	0.00	87,333,000.00
	6220007 - SRV-CONTRACTORS-TIME & EQUIPMENT	1,881.69	1,881.69	
	6220008 - SRV-CONTRACTORS	686,020.33	686,020.33	
	6220009 - SRV-CONTRACTORS-SPECIFIC JOBS	452,448.87	452,448.87	
	6220480 - SRV-ENGINEERING	32,479,525.14	3,076,088.14	29,403,437.00
	Services Government Payments & Permits	378.00	378.00	
	Services Vehicles and Equipment Rental	32,813.70	32,813.70	
	Services Other	2,361,005.46	2,361,005.46	
	Materials	45,632,637.57	145,637.57	45,487,000.00
	Material Compressor Equipment	40,958,766.85	28,766.85	40,930,000.00
	Material Issuances	517.64	517.64	
	Material Other	4,673,353.08	116,353.08	4,557,000.00
	All Other	215,014.24	215,014.24	
	Internal Settlements	230,540.35	230,540.35	
	Vehicle Utilization	32,026.67	32,026.67	
	Other	(47,552.78)	(47,552.78)	
	Non Direct Costs	75,619,598.59	9,352,228.07	66,267,370.52
	Non Direct Costs wo AFUDC	32,821,203.57	5,187,165.07	27,634,038.50
	Non Direct Costs AFUDC	42,798,395.02	4,165,063.00	38,633,332.02

Year	Escalation
2021	0.41%
2022	3.04%
2023	5.66%
2024	8.32%
2025	11.03%
2026	13.92%
2027	16.90%
2028	19.89%
2029	22.85%