BLM

United States Department of the Interior
Bureau of Land Management

PALEN SOLAR ELECTRIC GENERATING SYSTEM

DRAFT SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT

Volume 2 of 2

July 2013

CACA #048810

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APPENDIX A
Maps and Figures

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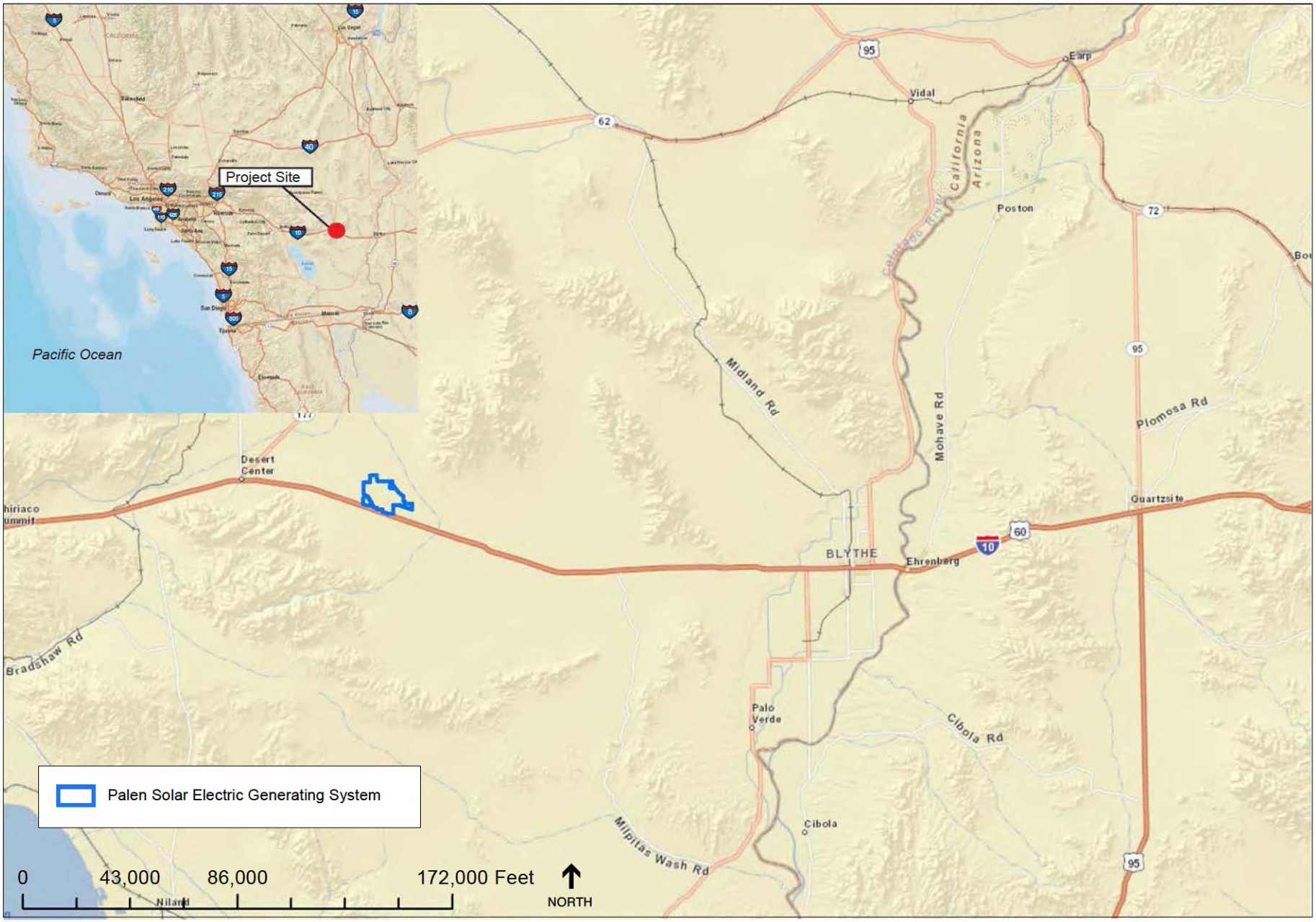

SOURCE: Palen Solar III LLC, 2013

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Figure 2-1

Project Location

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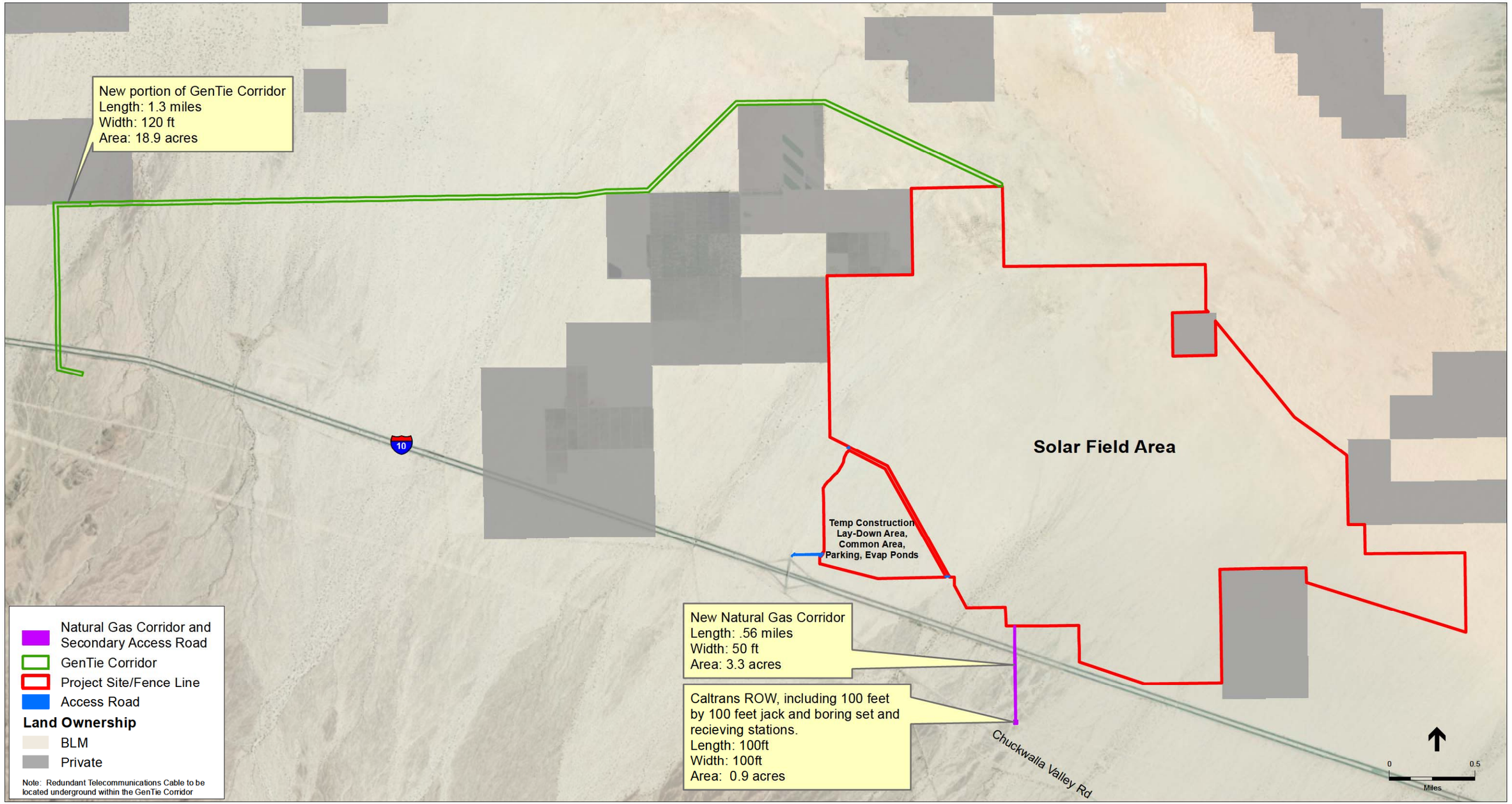

SOURCE: BrightSource Energy, 2013

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Figure 2-2
Project Area

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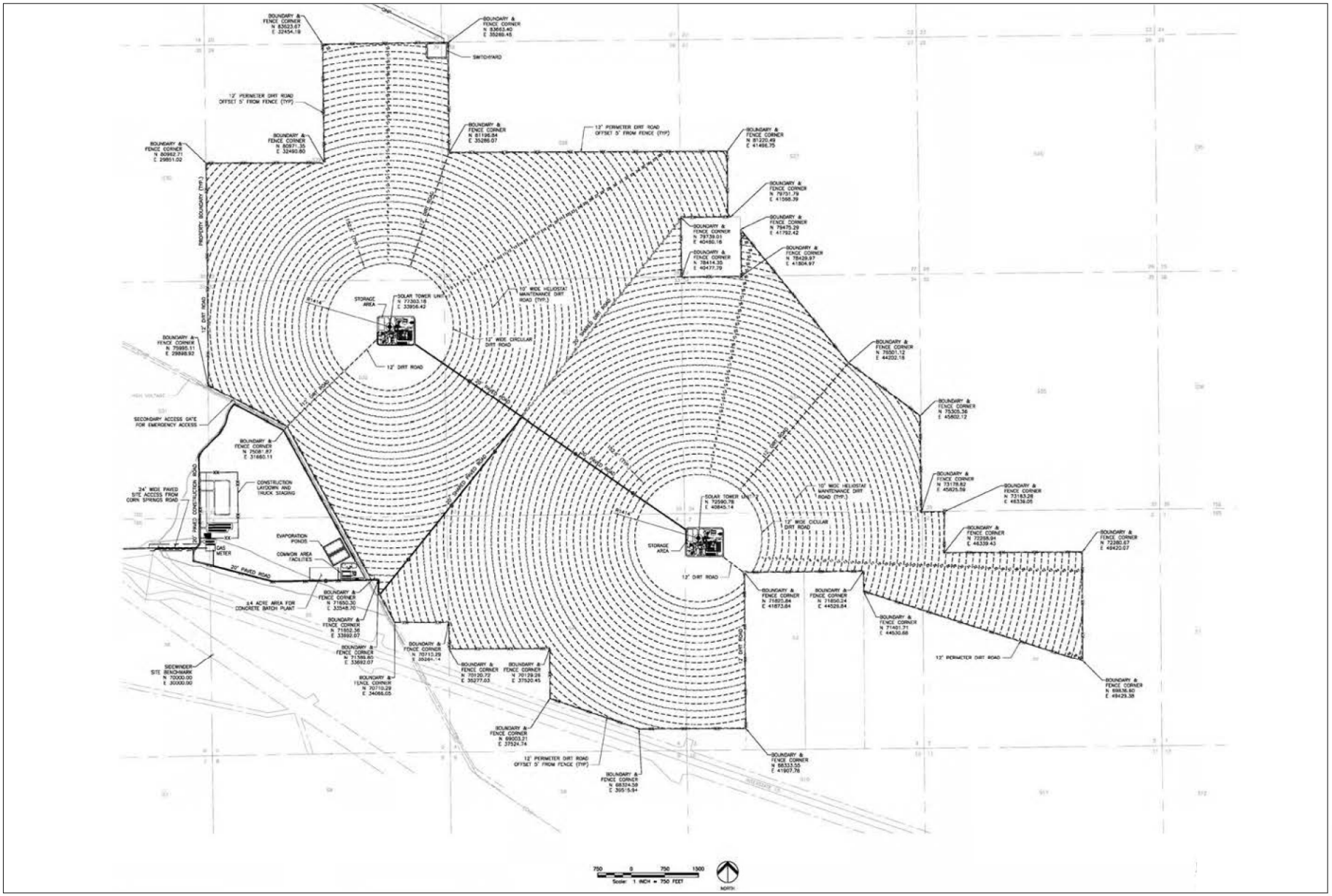

SOURCE: CH2MHill, 2013

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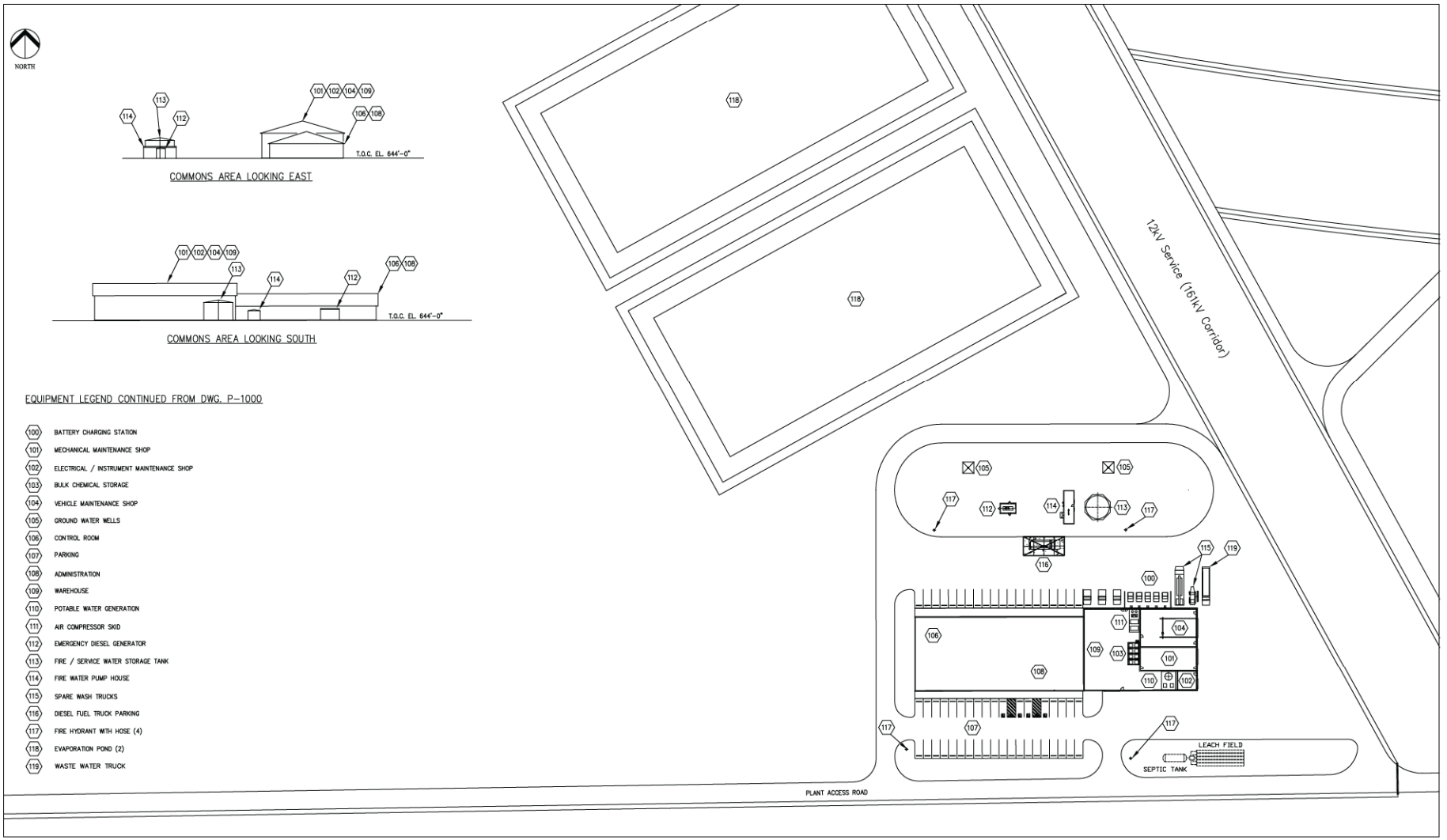
Figure 2-3

Preliminary Site Plan



SOURCE: CH2MHill, 2013

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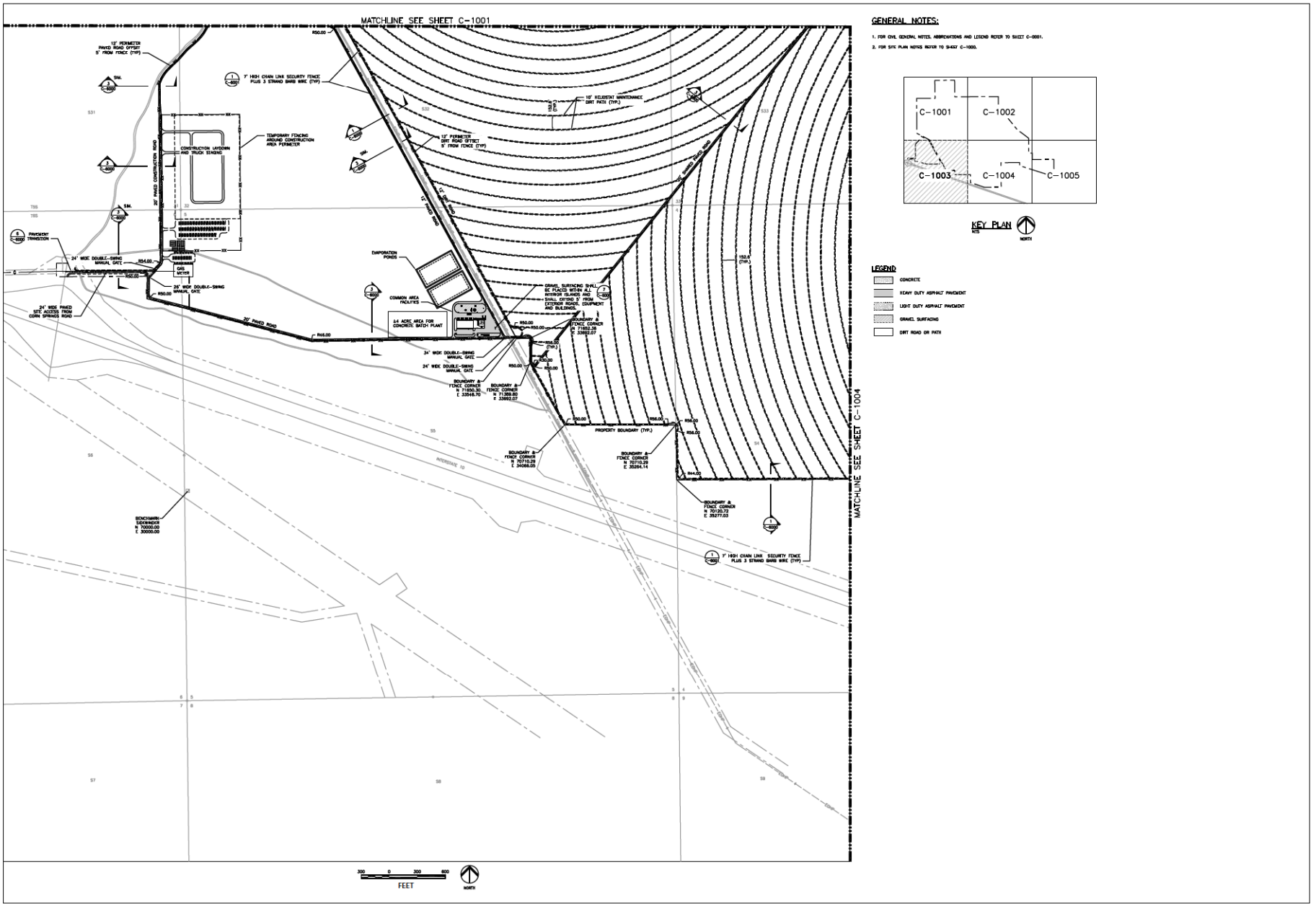
Figure 2-4

Common Area



SOURCE: CH2MHill, 2013

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Figure 2-5

Temporary Construction Laydown Area

SOURCE: CEC RSA Part II, 2010

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Figure 3.19-1
Characteristic Landscape of the Project Site

Dry Lake Bed

Ironwood Tree

Creosote Scrub

Chuckwalla Valley Road, looking north

The Flats, Looking East

SOURCE: CEC Genesis RSA, June, 2010; OTAK, 2010

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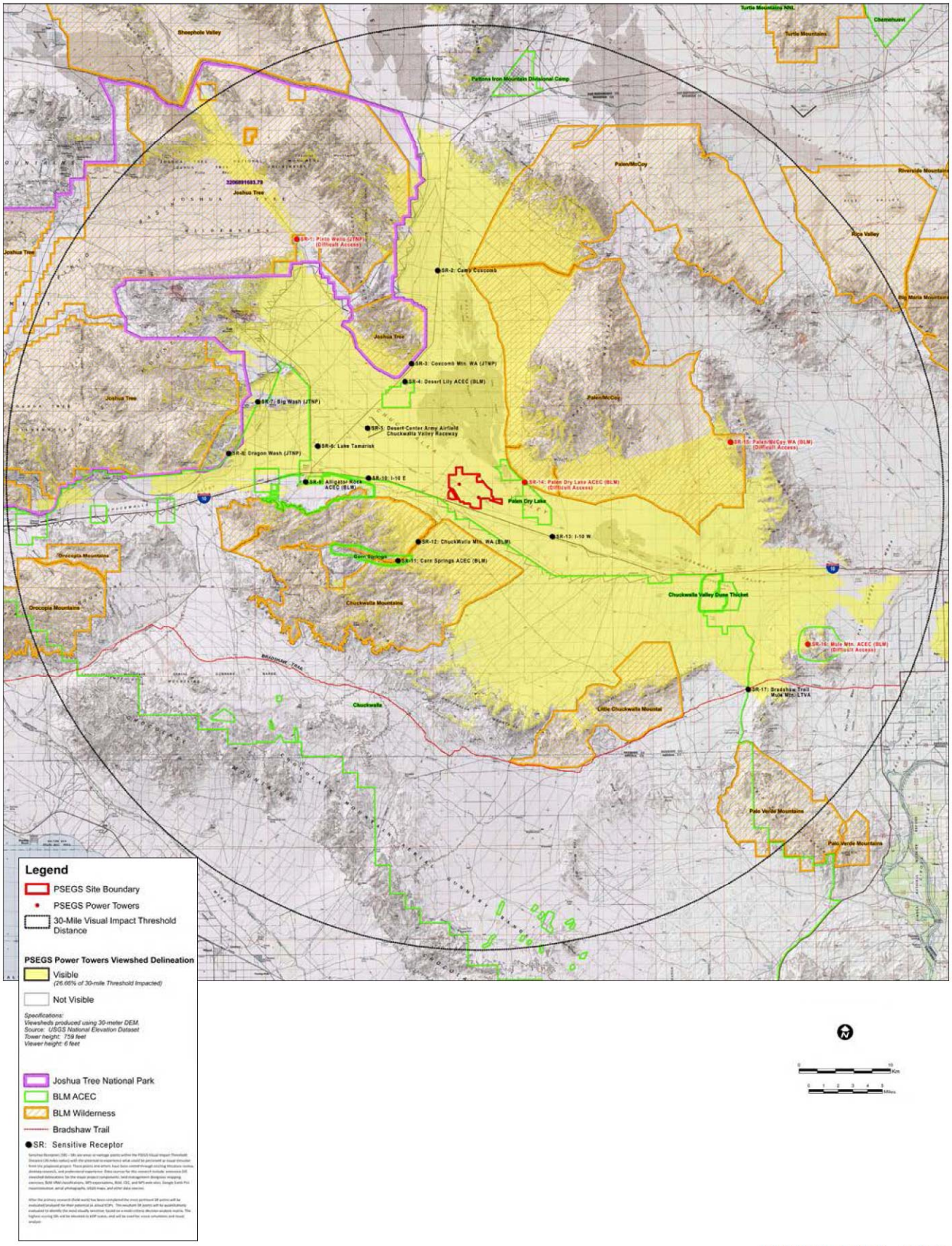
Figure 3.19-2

Landscape Context Photographs



SOURCE: 3DScape

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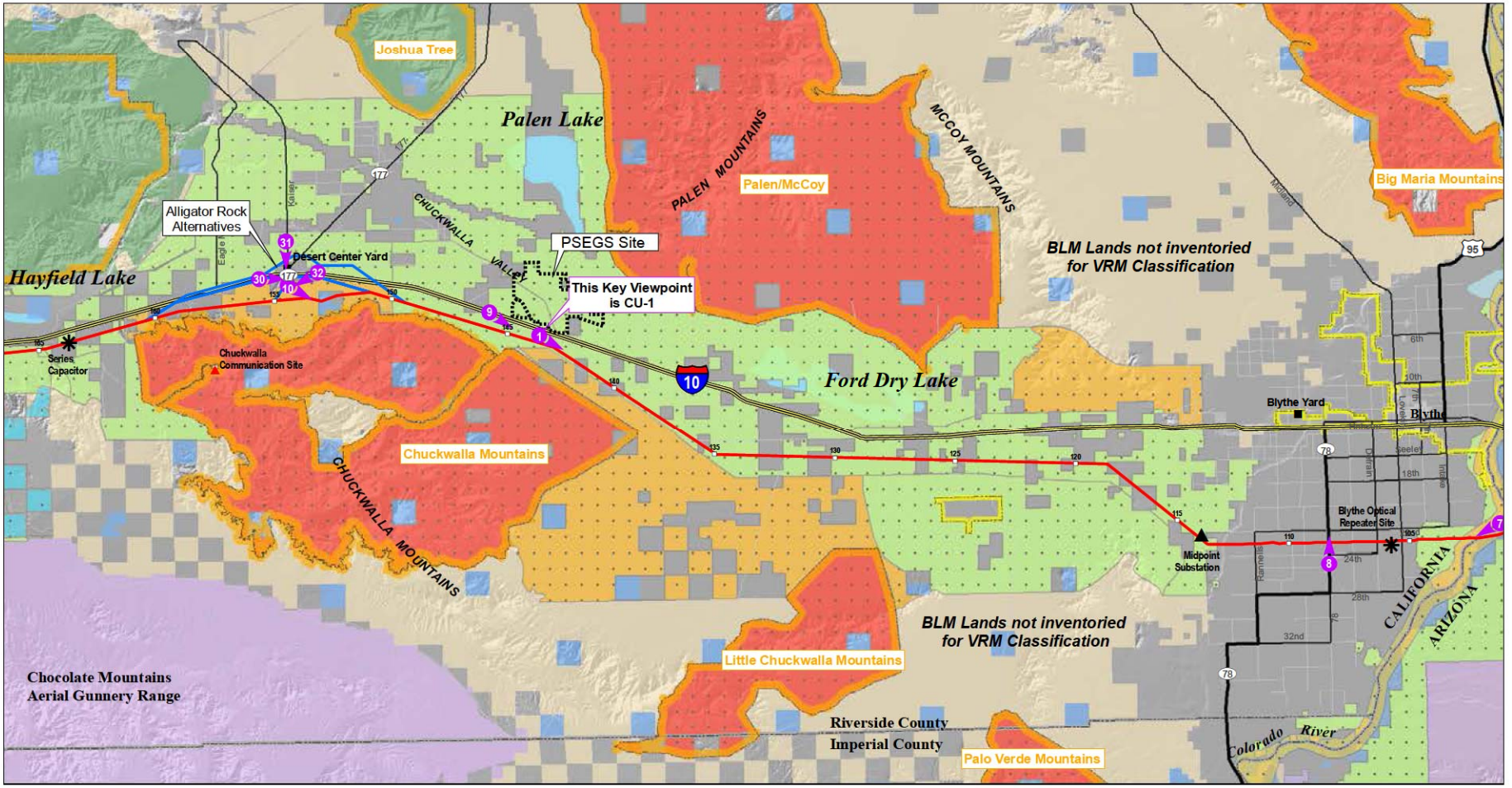
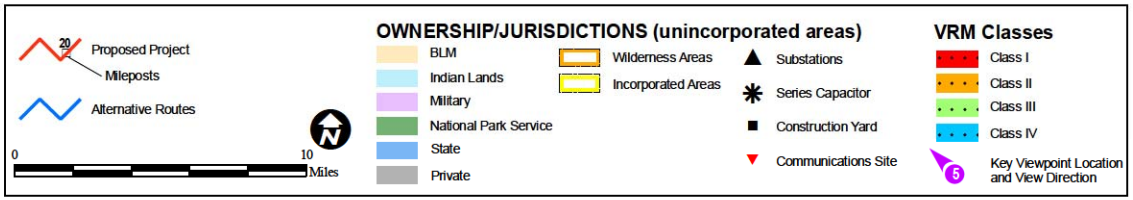
Figure 3.19-3

Project Study Area and Viewshed





SOURCE: Aspen Environmental Group

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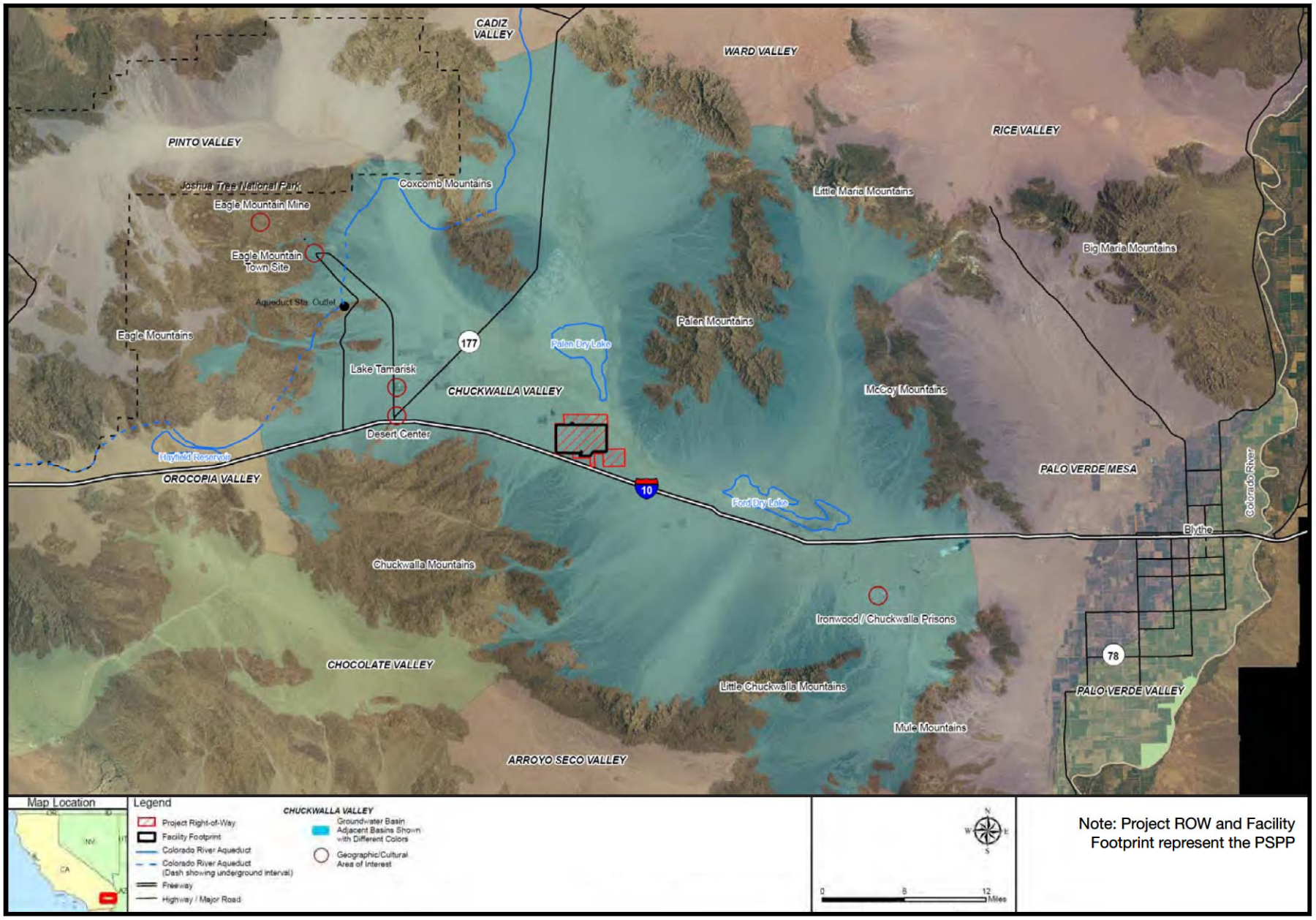
Figure 3.19-4

VRM Classes



SOURCE: CEC/BLM, 2010

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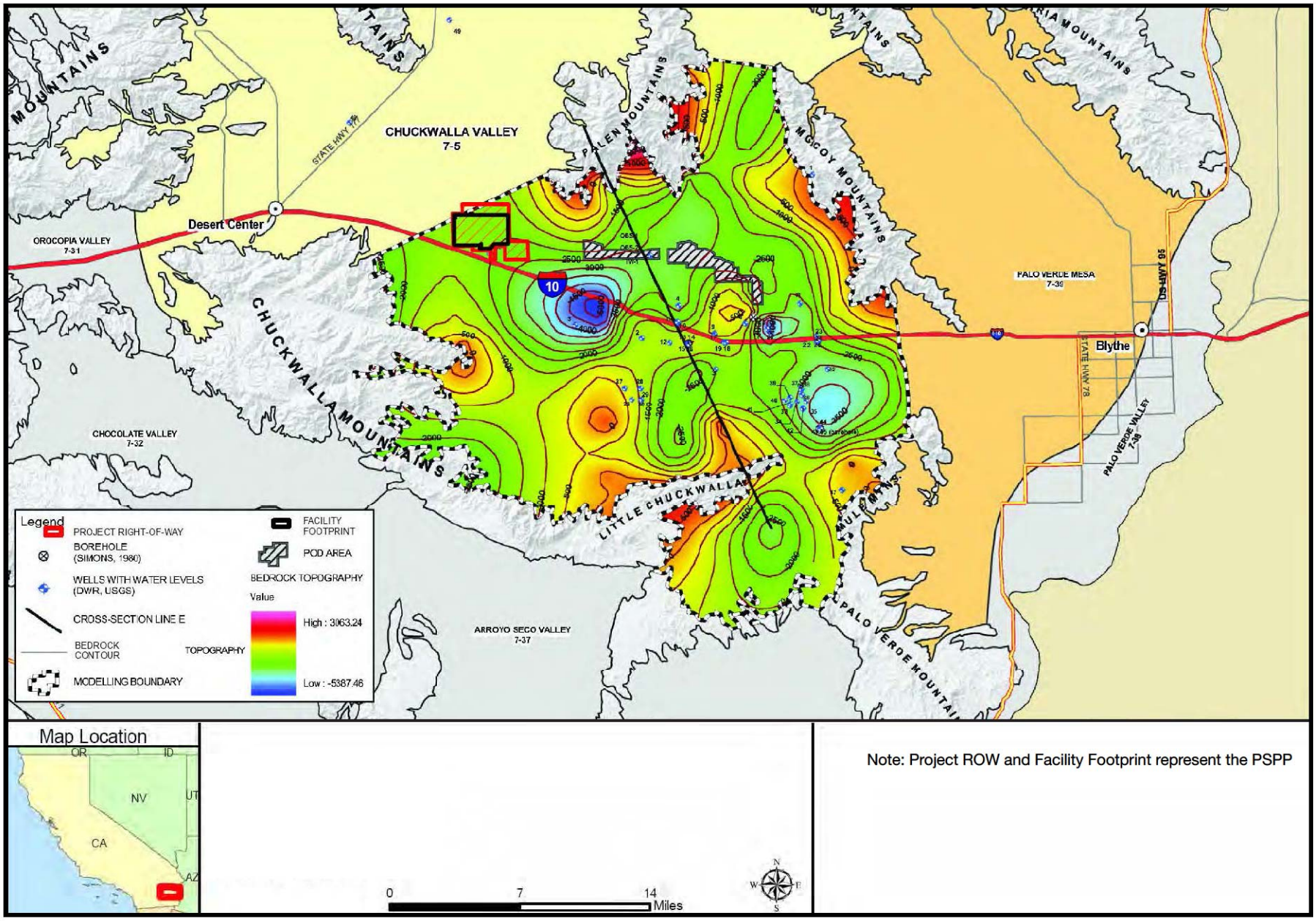
Figure 3.20-1

Chuckwalla Valley Regional Groundwater Basins



SOURCE: CEC/BLM, 2010

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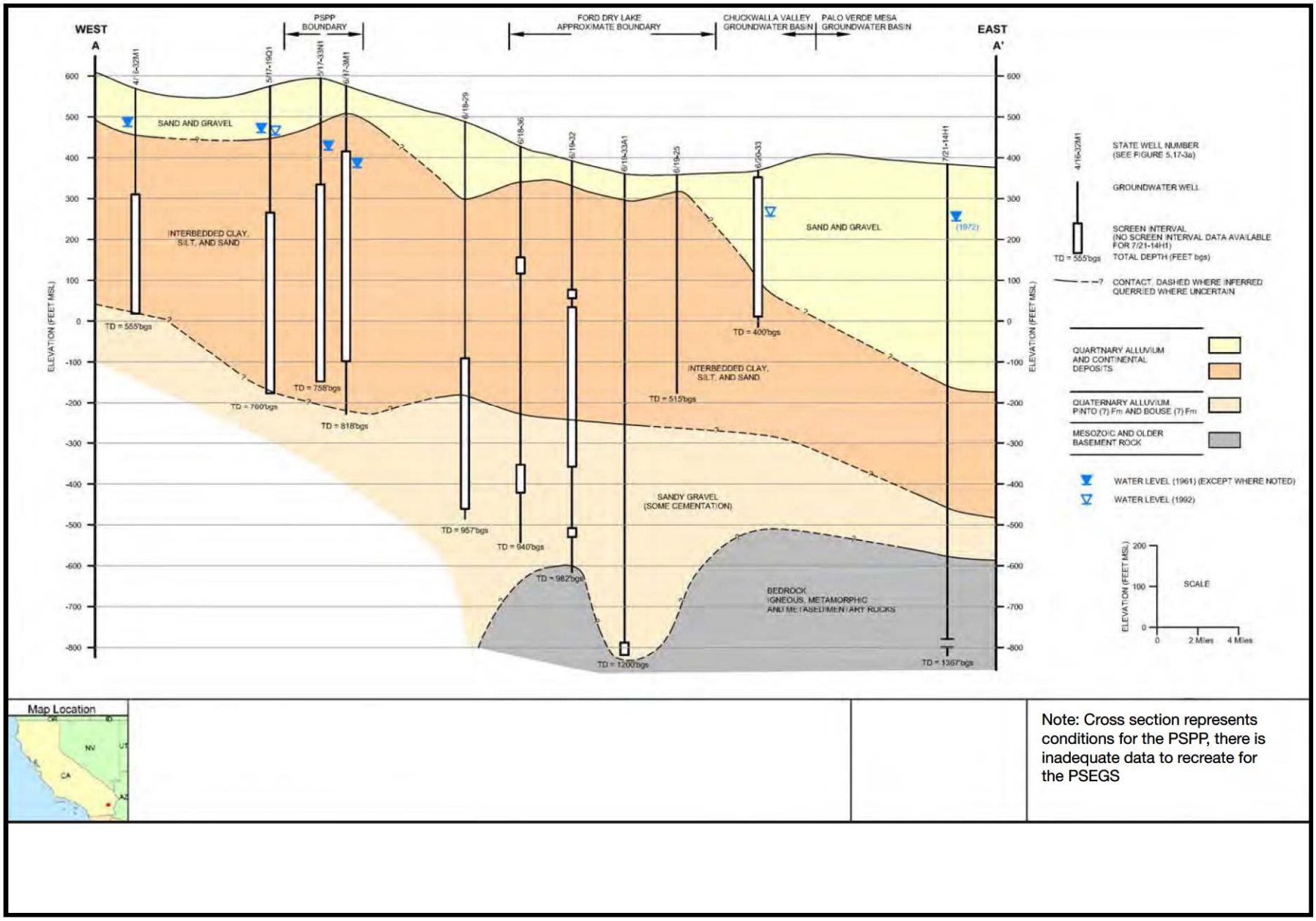
Figure 3.20-2

Chuckwalla Valley Groundwater Basin Bedrock Topography



SOURCE: CEC/BLM, 2010

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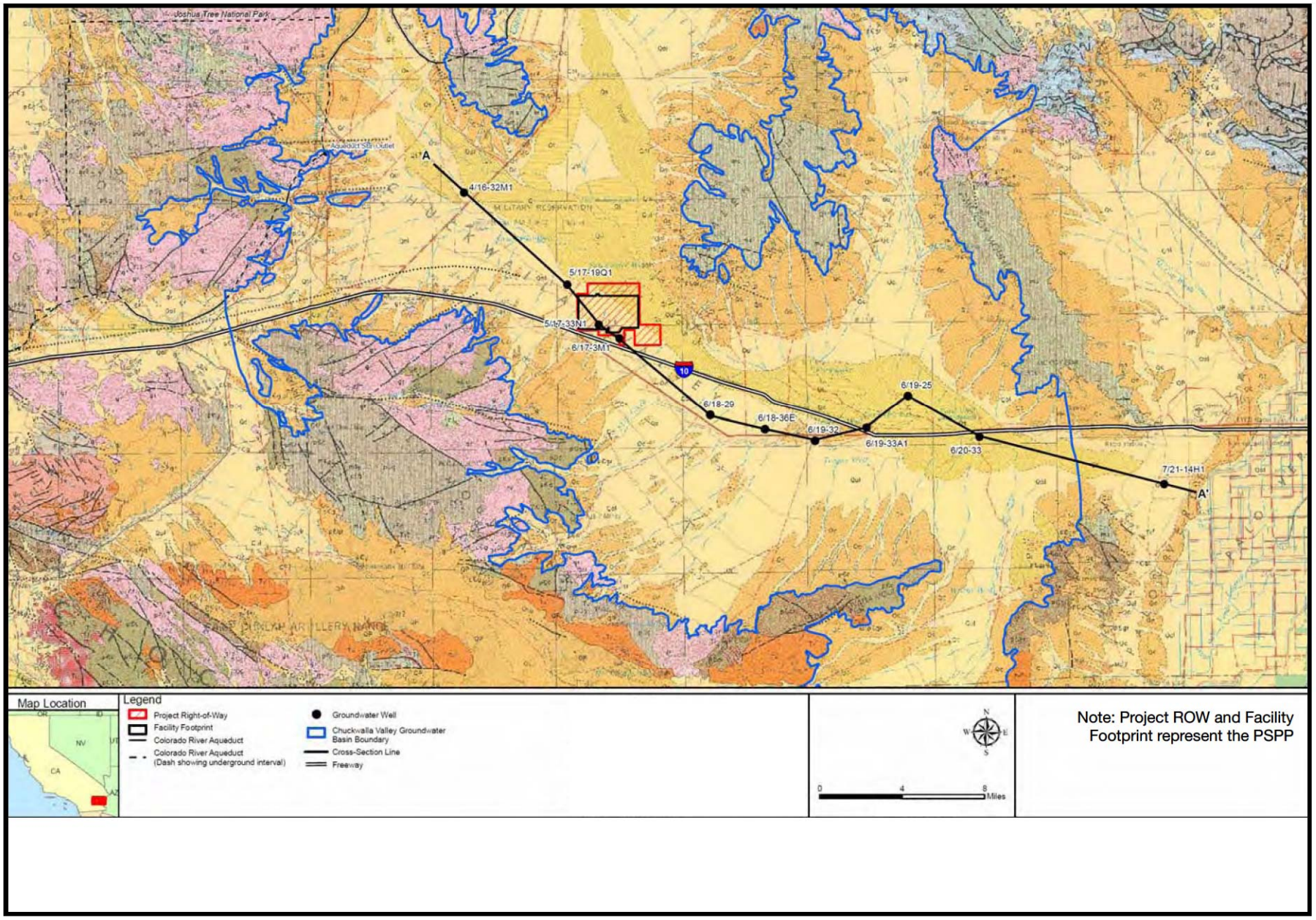
Figure 3.20-3

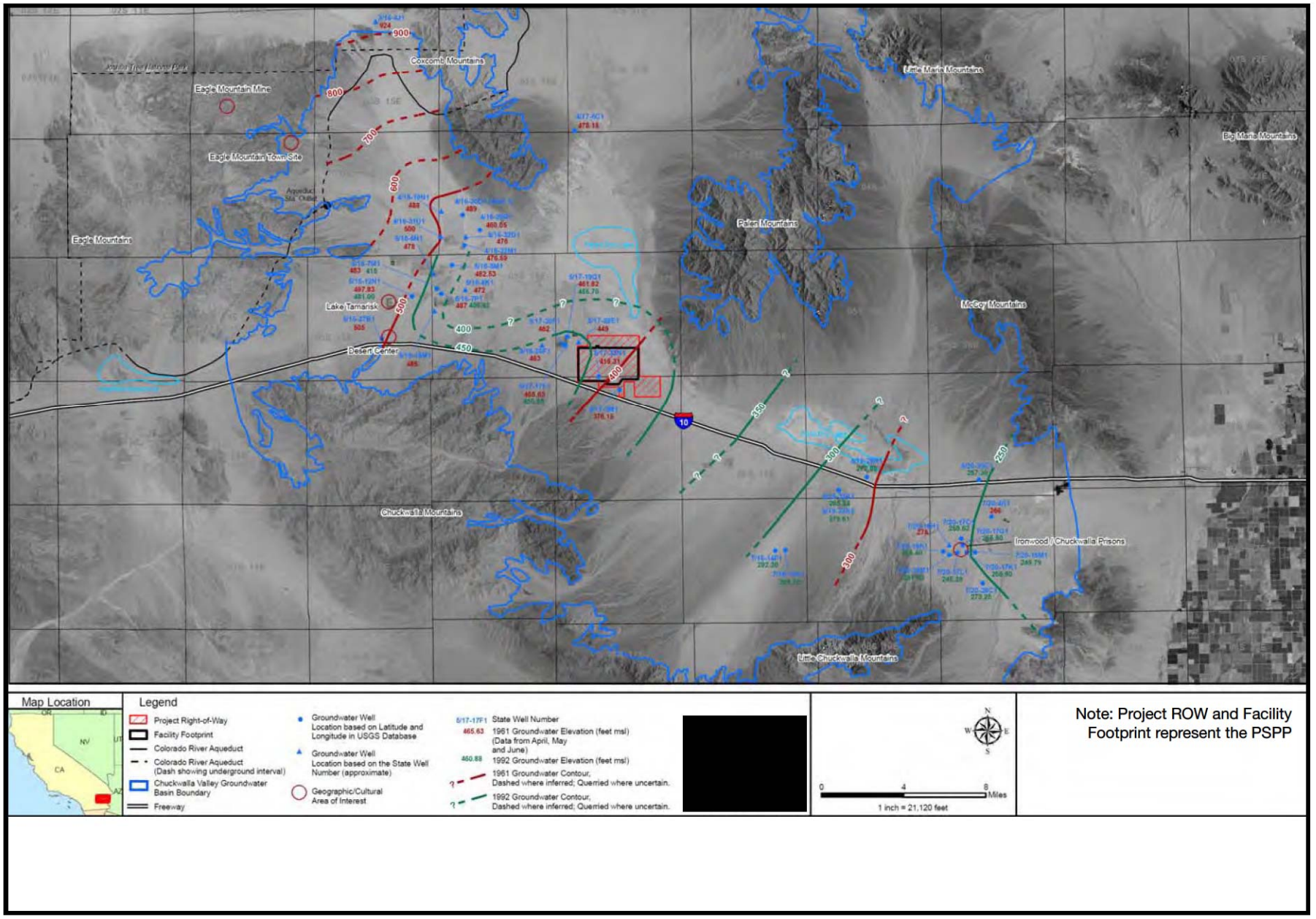
Chuckwalla Valley Groundwater Basin Cross Section A-A'



SOURCE: CEC/BLM, 2010

Figure 3.20-4

Regional Geology Map



SOURCE: CEC/BLM, 2010

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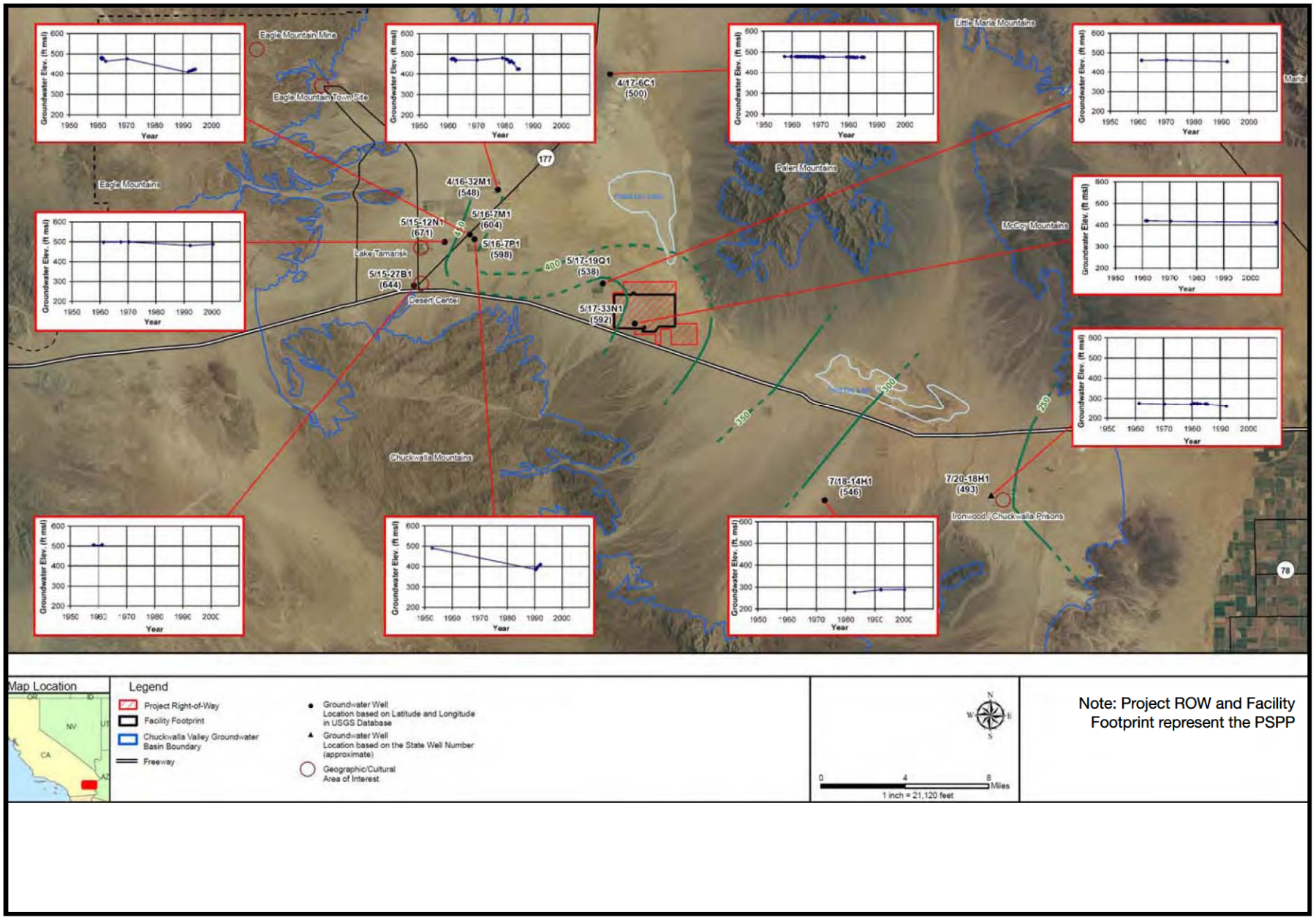
Figure 3.20-5

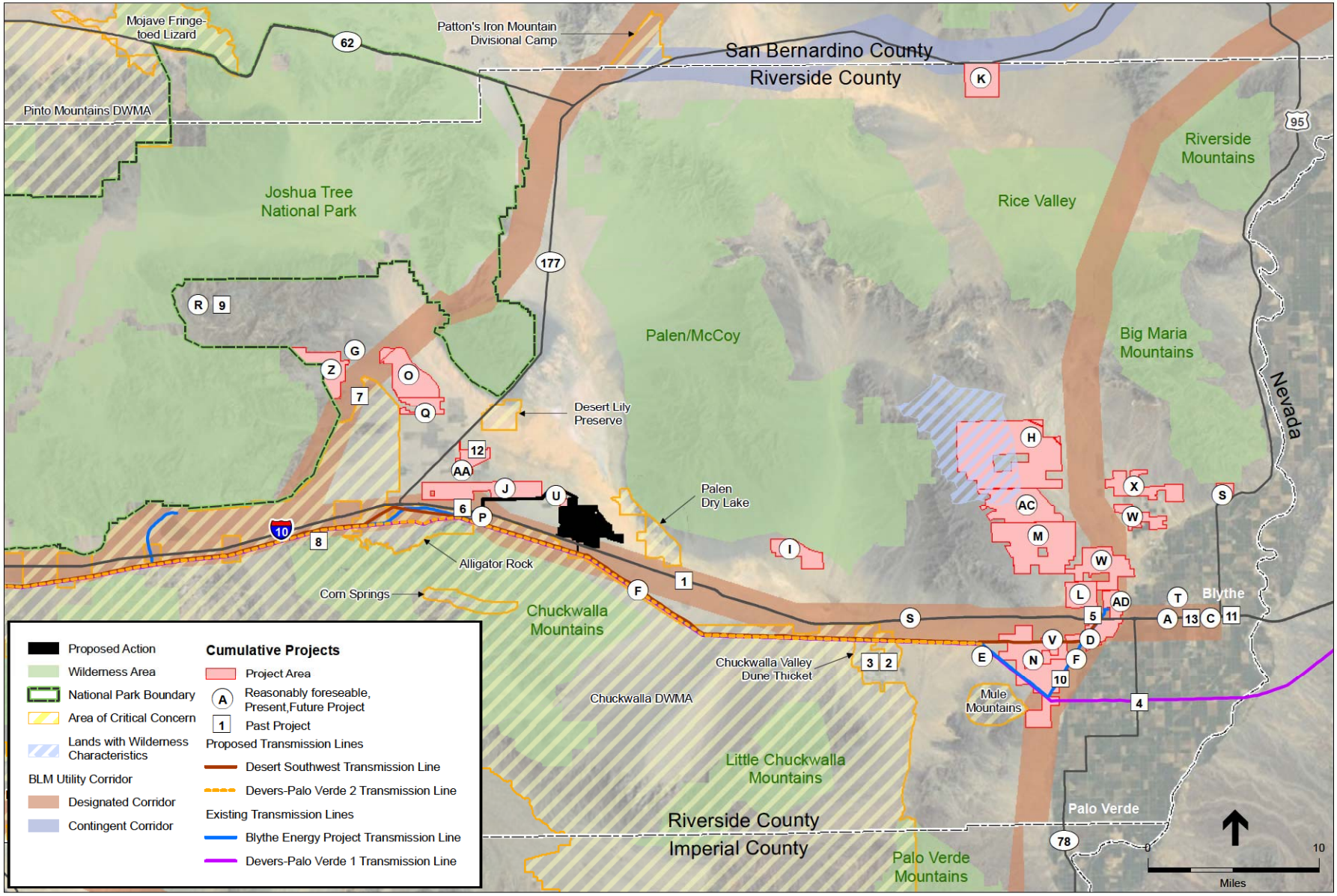
Chuckwalla Valley Groundwater Basin
Pre Project Conditions



SOURCE: CEC/BLM, 2010

Figure 3.20-6

Basin Wide Groundwater Hydrographs



SOURCE: CEC RSA, 2010; BLM, 2013; CEC, 2013; Kern County Planning and Cummunity Development, 2013

Note: Refer to Tables 4.1-6 and 4.1-7 for the lists of projects in the cumulative scenario

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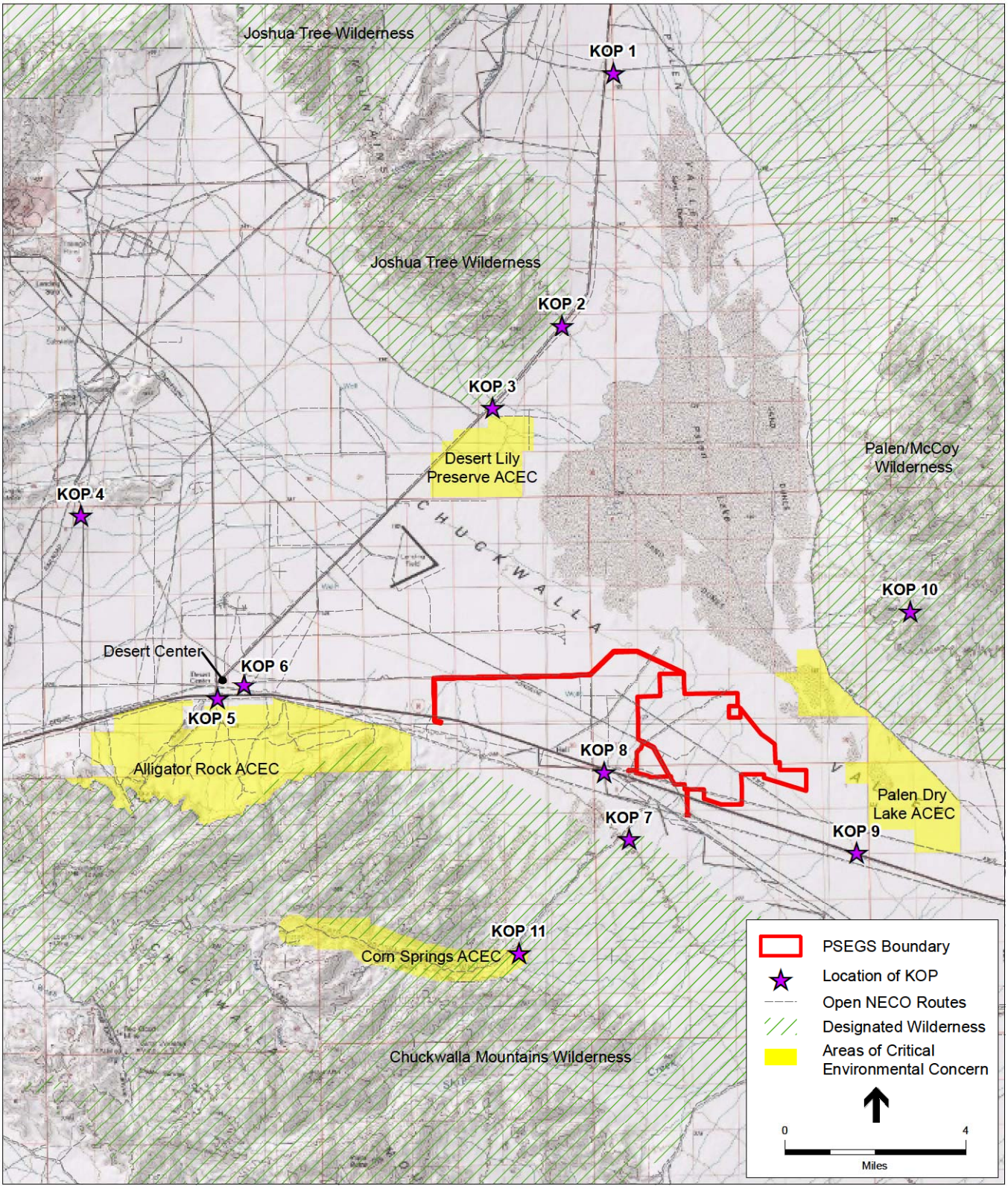
Figure 4.1-1

Cumulative Projects Scenario



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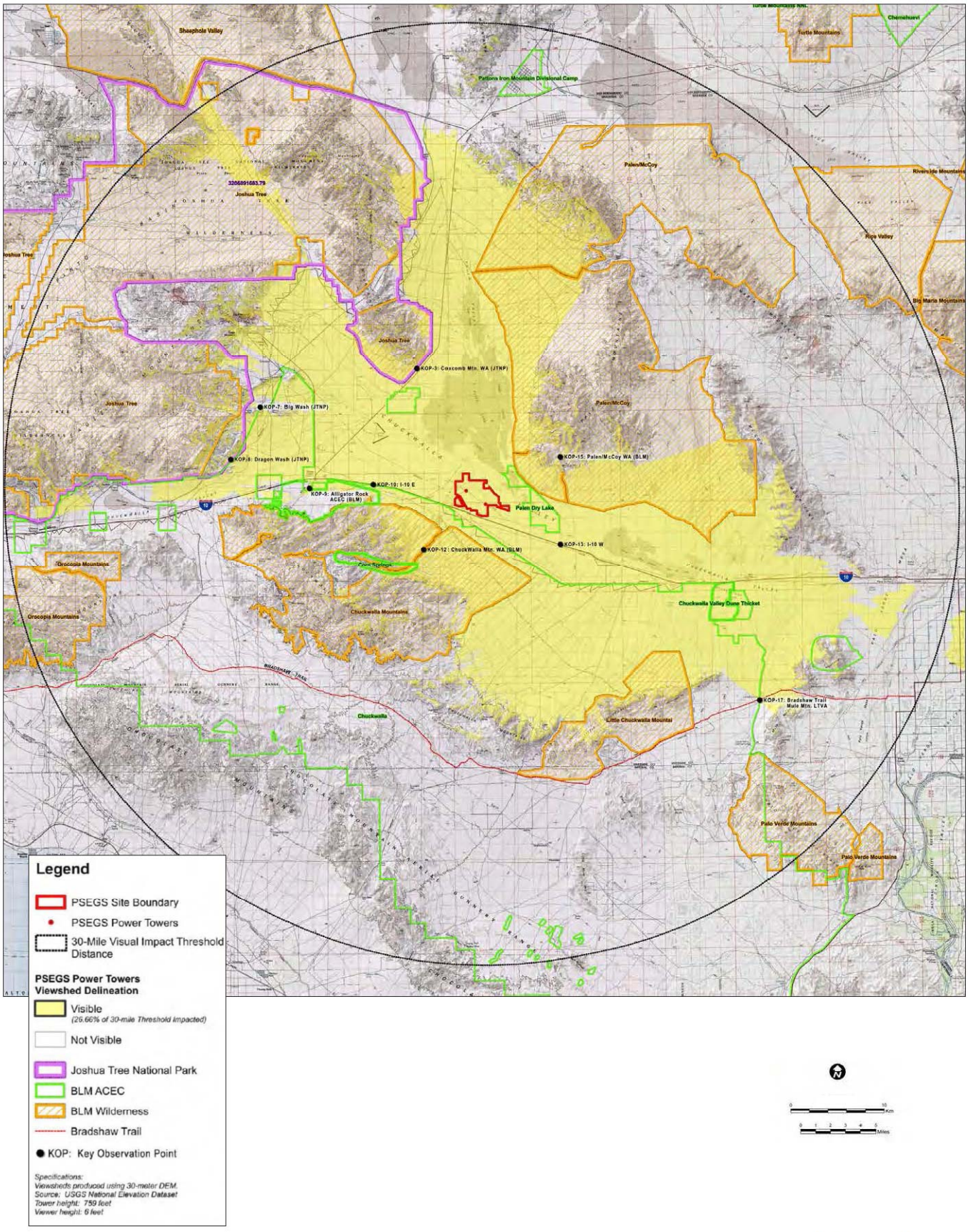
SOURCE: AFC, 2009

Figure 4.18-1
Location of Key Observation Points (KOPs)



SOURCE: 3DScape

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Figure 4.18-1a

Location of Additional Key Observation Points

Unidentified Power Tower Facility

Torre Sol Gemmasolar 20-Min Power Tower Facility near Seville, Spain *(Credit: Robert Sullivan, Argonne Laboratory)*

SOURCE: BLM

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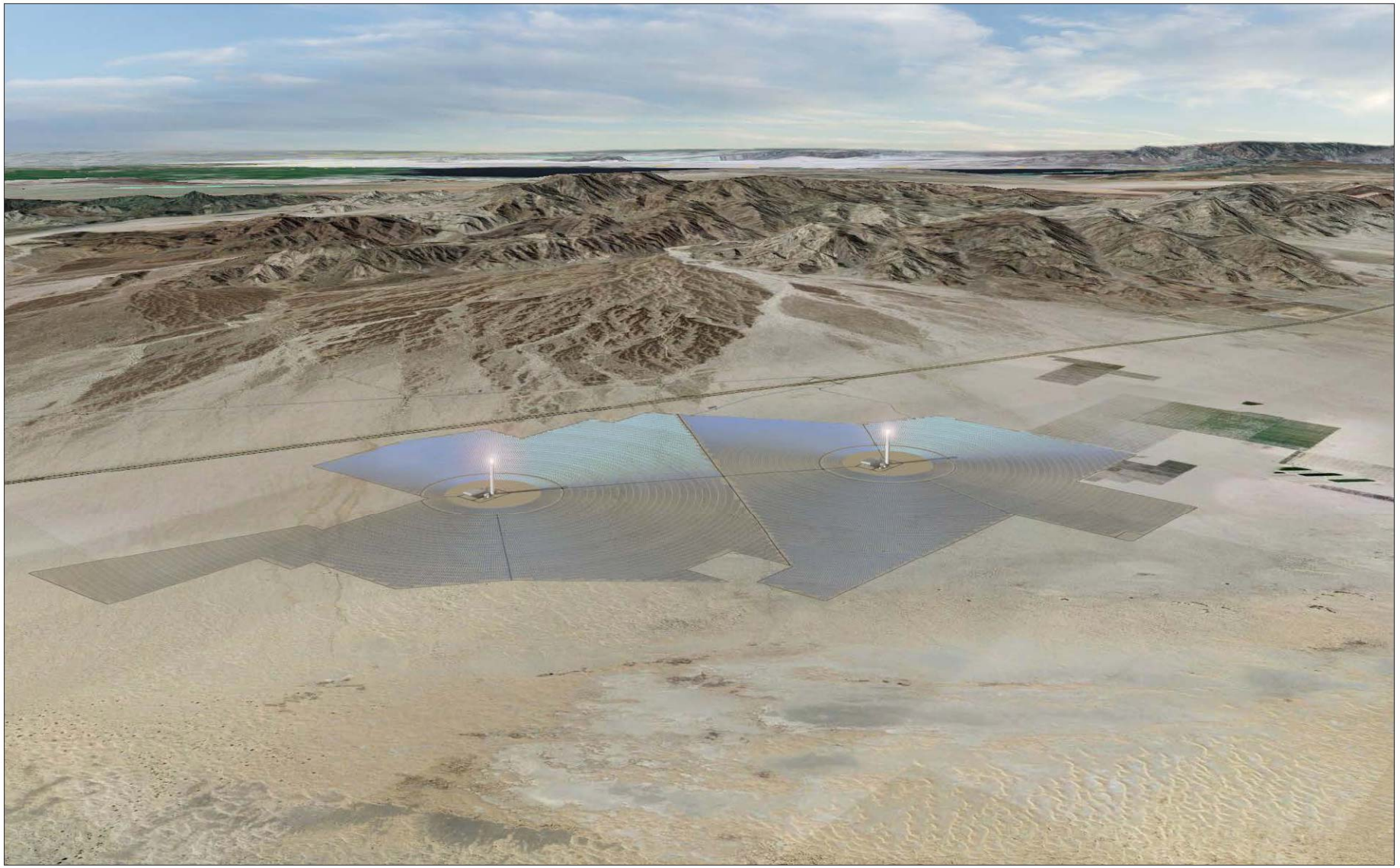
Figure 4.18-2

Existing Power Tower Receivers in Operation
(Exhibiting Diffuse Reflected Sunlight)



SOURCE: Palen Solar Holdings, LLC

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Figure 4.18-3

Oblique View Simulation of the Solar Electric Generating System

SOURCE: 3DScape, 2013

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Figure 4.18-3a

View From Interstate 10 Westbound, Looking Northwest Towards the PSEGS Site
Approximately 6 Miles East of Project

SOURCE: BLM *(Credit: Robert Sullivan, Argonne National Laboratory)*

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Figure 4.18-4

Power Tower Heliostats on Trailer Enroute to Installation
Ivanpah Valley, CA

SOURCE: BLM *(Credit: Robert Sullivan, Argonne National Laboratory)*

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Figure 4.18-5

Staging Area at Ivanpah Solar Energy System Power Tower Facility
Ivanpah Valley, CA

SOURCE: BLM *(Credit: Robert Sullivan, Argonne National Laboratory)*

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Figure 4.18-6

Trimmed Vegetation Beneath Power Tower Heliostats
Ivanpah Valley, CA

Existing Condition

Simulated Condition

SOURCE: URS, 2013

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Figure 4.18-7

View from KOP-1, Highway 177 and Palen Pass Road,
Looking South Toward the PSEGS Site

Existing Condition

Simulated Condition

SOURCE: URS, 2013

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Figure 4.18-8

View from KOP-2, Highway 177 at the Edge of Joshua Tree Wilderness, Looking Southeast toward the PSEGS Site

Existing Condition

Simulated Condition

SOURCE: URS, 2013

PSEGS Draft SEIS . 130111

Figure 4.18-9

View from KOP-3, Desert Lily Sanctuary Entrance/Parking Area, Looking Southeast toward the PSEGS Site

Existing Condition

Simulated Condition

SOURCE: URS, 2013

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Figure 4.18-10

View from KOP-4, Eagle Mountain Road,
Looking East toward the PSEGS Site

Existing Condition

Simulated Condition

SOURCE: URS, 2013

PSEGS Draft SEIS . 130111

Figure 4.18-11

View from KOP-5, I-10 Interchange at Desert Center,
Looking East toward the PSEGS Site

Existing Condition

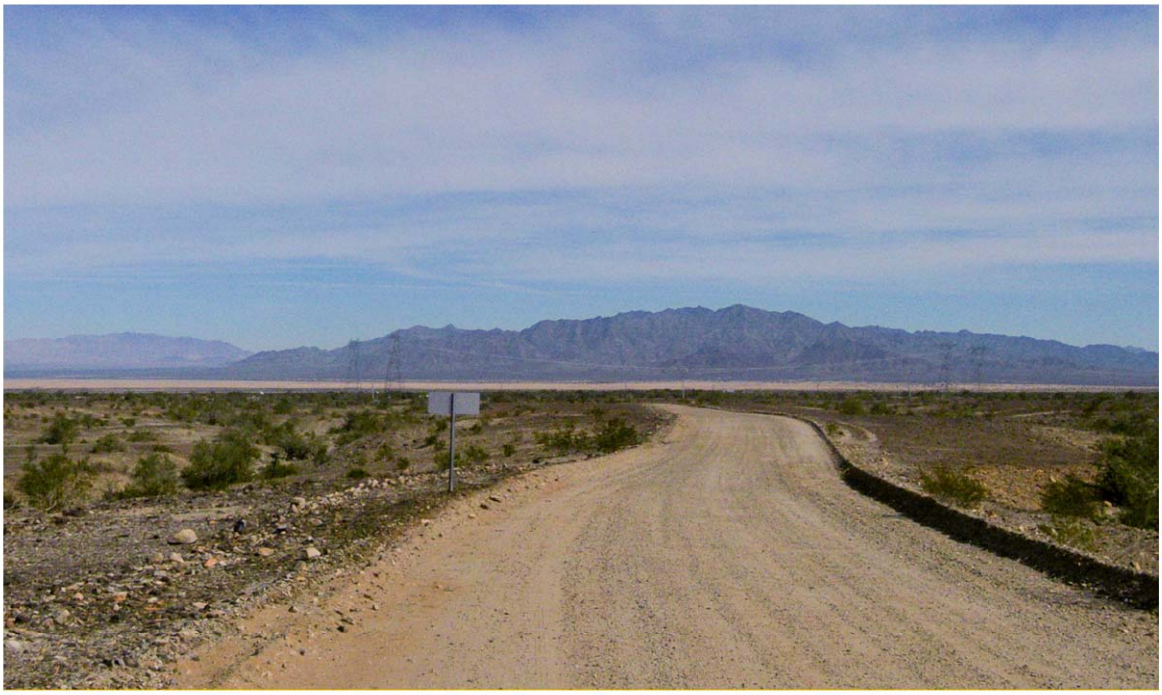
Simulated Condition

SOURCE: URS, 2013

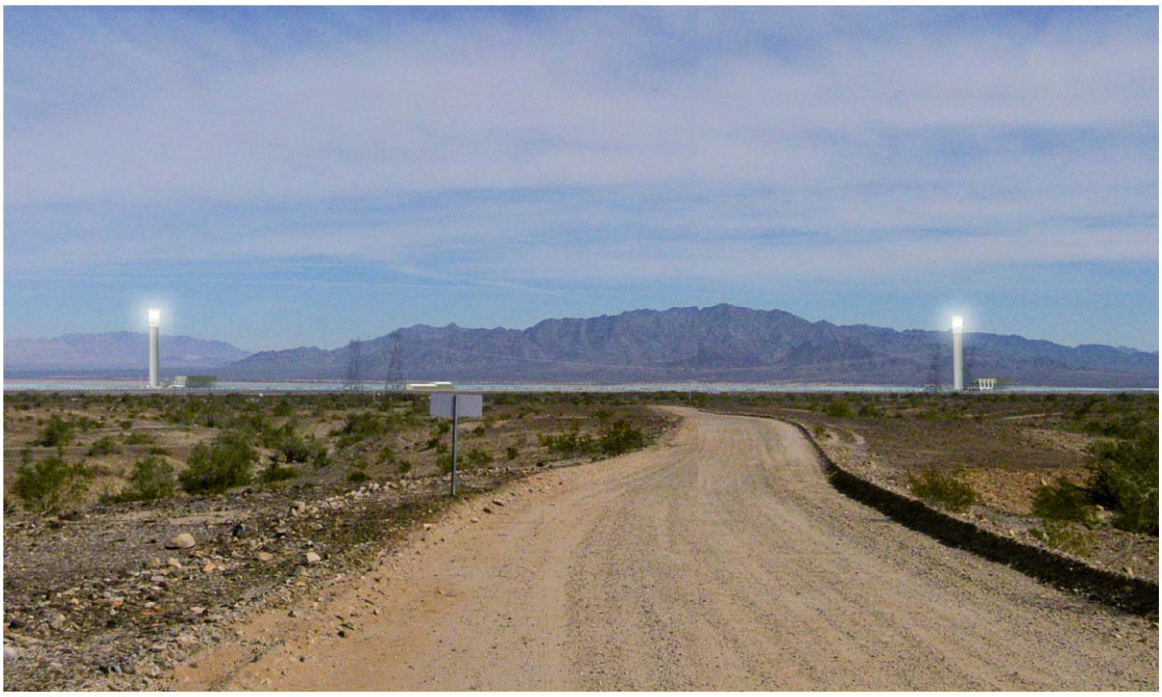
PSEGS Draft SEIS . 130111

Figure 4.18-12

View from KOP-6, Residential community entrance/exit in Desert Center, Looking East toward the PSEGS Site



Existing Condition



Simulated Condition

SOURCE: URS, 2013

PSEGS Draft SEIS . 130111

Figure 4.18-13

View from KOP-7, Corn Springs Road at the edge
of Chuckwalla Mountains Wilderness,
Looking North toward the PSEGS Site

Existing Condition

Simulated Condition

SOURCE: URS, 2013

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Figure 4.18-14

View from KOP-8, I-10 eastbound near the southwestern corner of the Project, Looking Northeast toward the PSEGS Site

Existing Condition

Simulated Condition

SOURCE: URS, 2013

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Figure 4.18-15

View from KOP-9, I-10 westbound near the southeastern corner of the Project, Looking Northwest toward the PSEGS Site

Existing Condition

Simulated Condition

SOURCE: 3DScape, 2013

PSEGS Draft SEIS . 13011

Figure 4.18-16

View from KOP-3A Coxcomb Wilderness Area (Joshua Tree National Park), looking south toward the PSEGS site (9.9 miles)

Existing Condition

Simulated Condition

SOURCE: 3DScape, 2013

PSEGS Draft SEIS . 130111

Figure 4.18-17

View from KOP-7A, Big Wash, Joshua Tree National Park, looking southeast toward the PSEGS site (15.46 miles)

Existing Condition

Simulated Condition

SOURCE: 3DScape, 2013

PSEGS Draft SEIS . 130111

Figure 4.18-18

View from KOP-8A, Dragon Wash, Joshua Tree National Park, looking southeast towards the PSEGS site (15.98 miles)

Existing Condition

Simulated Condition

SOURCE: 3DScape, 2013

Figure 4.18-19

View from KOP-9A Alligator Rock, BLM Area of Critical Environmental Concern (ACEC), looking east towards the PSEGS site (11.12 miles)

Existing Condition

Simulated Condition

SOURCE: 3DScape, 2013

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Figure 4.18-20

View from KOP-10A, Interstate 10 eastbound,
looking east towards the PSEGS site (6.87 miles)

Existing Condition

Simulated Condition

SOURCE: 3DScape, 2013

PSEGS Draft SEIS . 130111

Figure 4.18-21

View from KOP 12A, BLM Chuckwalla-Mountain Wilderness Area, looking northeast towards the PSEGS site (4.63 miles)

Existing Condition

Simulated Condition

SOURCE: 3DScape, 2013

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Figure 4.18-22

View from KOP-13A, Interstate 10 westbound,
looking northwest toward the PSEGS site (6.39 miles)

Existing Condition

Simulated Condition

SOURCE: 3DScape, 2013

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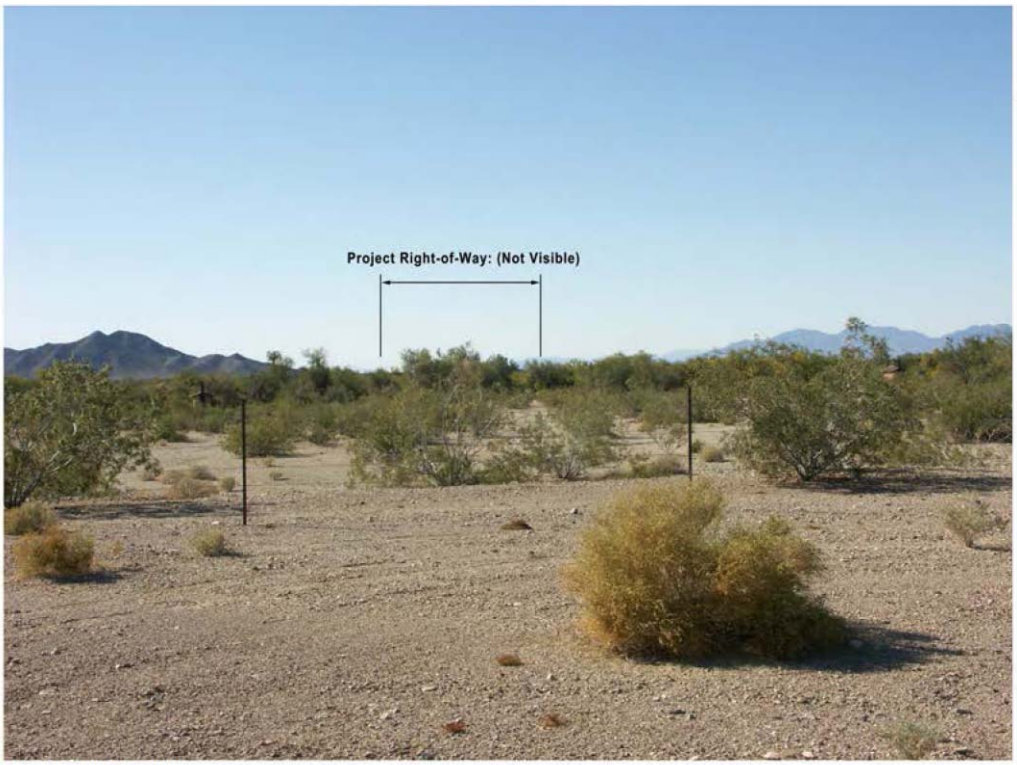
Figure 4.18-23

View from KOP-15A BLM Palen / McCoy Wilderness Area,
looking southwest toward the PSEGS site (6.14 miles)

Existing Condition



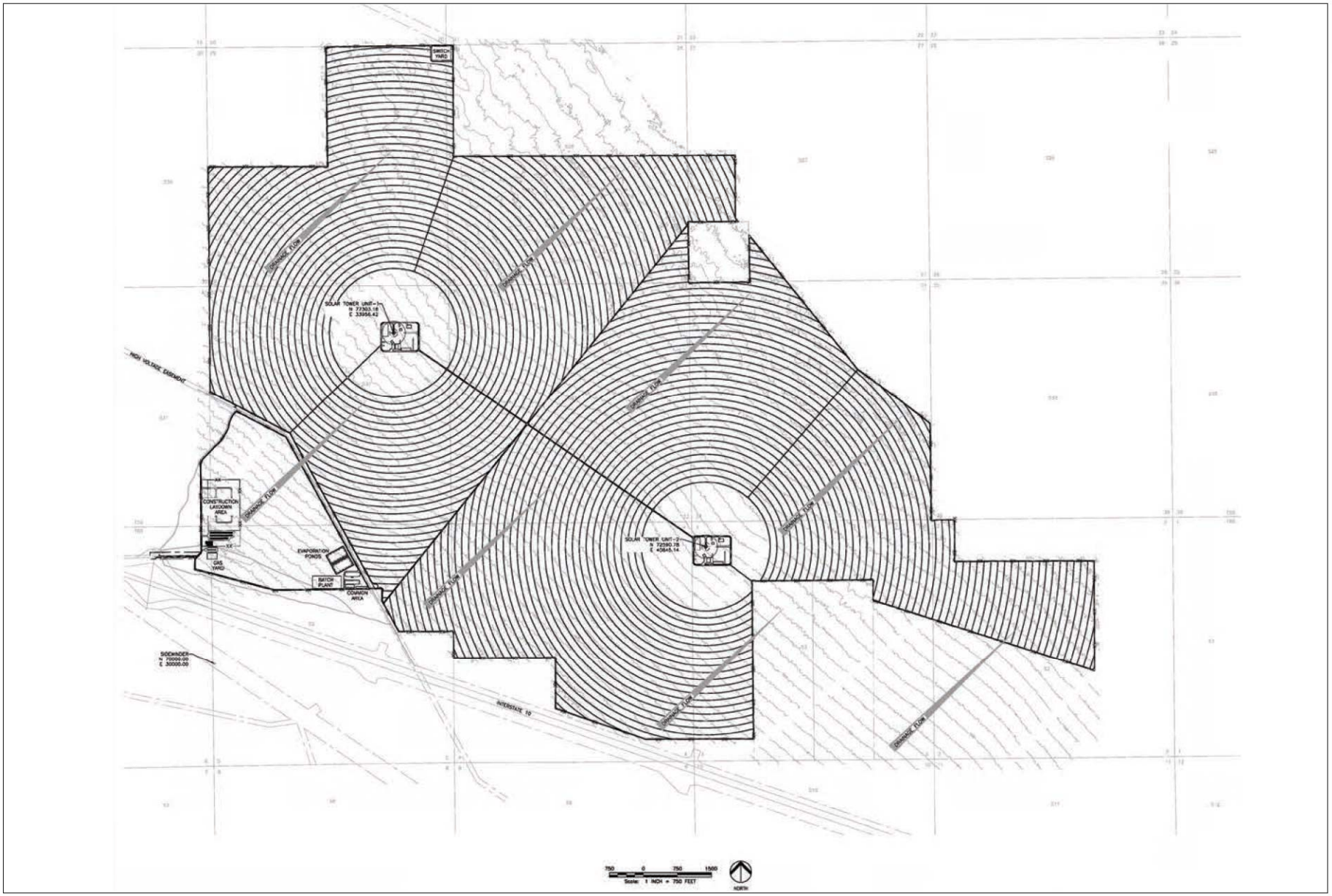
Simulated Condition

SOURCE: 3DScape, 2013

PSEGS Draft SEIS . 130111

Figure 4.18-24

View from KOP-17A Bradshaw Trail, Mule Mountain, looking northwest toward the PSEGS site (22.98 miles)



SOURCE: CH2MHill, 2013

PSEGS Draft SEIS . 130111

Figure 4.19-1

Overall Grading and Drainage Plan