Docusign Envelope ID: 243C96A5-6EF2-4652-9270-64F3E8BEAB59

April 15, 2026

Mr. Sage Davis
Supervising Air Quality Inspector
Sage.Davis@valleyair.org

San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Avenue
Fresno, CA 93726

**Subject:** LLNL *Site 300 Experimental Test Site Prescribed Burning Smoke Management Plan, Facility ID# N-472, Lawrence Livermore National Security, LLC*

**Enclosure:** Prescribed Fire Information Reporting System (PFIRS) Submittal- 2026
Prescribed Burning Smoke Management Plan (SMP) for LLNL Site 300

Dear Mr. Martinez:

Lawrence Livermore National Laboratory (LLNL) has submitted the 2026 Prescribed Burning Smoke Management Plan (SMP) for LLNL Site 300 Experimental Test Site to San Joaquin Valley Air Pollution Control District (SJVAPCD) through the State's Prescribed Fire Information Reporting System (PFIRS). Enclosed with this letter is a copy of the electronic submittal.

If you have any questions regarding this submittal or require additional information, please contact Saira Soriano of my staff at (925) 961-7952 or soriano4@llnl.gov.

DocuSigned by:
Paul Roy
6EA10AF95384431...
4/15/2026

*Paul Roy – Waste & Air Quality Office Group Leader, EFA*

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*Copy:*

Aluzzi, Gino
Borrelli, Carol (NNSA/LFO)
Castro, Miguel
Cook, Courtney
Chen, Alan (NNSA/LFO)
DeLeyos, Bing
Dibley, Valerie
Diregolo, Brian (ACFD)
Espinoza, Mitzi
Fechser, Matt
Grim, Tom (NNSA/LFO)
Heard, Marcus (NNSA/LFO)
Mishra, Vijay (NNSA/LFO)
Naranjo, Alberto
Onofe, Tolu
Rivera, Cynthia
Roy, Paul
Ruiz, Alex
Rutherglen, Cory (ACFD)
Ryza, Michelle
Saabye, Alexandra
Sharry, John
So, Wai-Man
Soriano, Saira
Sutton, Mark
Vaughan, Quentin
Washington, Lawrence (NNSA/LFO)
Wilson, Scott
Wise, Tammy (NNSA/LFO)
Woollett, Jim

Site 300 Prescribed Burn File
UCM: Site 300, Prescribed Burn

Docusign Envelope ID: 243C96A5-6EF2-4652-9270-64F3E8BEAB59

# ENCLOSURE 1

Prescribed Fire Information Reporting System (PFIRS) Submittal –

2026 Prescribed Burning Smoke Management Plan (SMP) for

LLNL Site 300 Experimental Test Site

Docusign Envelope ID: 243C96A5-6EF2-4652-9270-64F3E8BEAB59



# Review SMP for LLNL S300 2026- SJVAPCD

Plan Author: Saira Soriano

## Land Manager Information

Complete

| | |
|---|---|
| Name of Project | LLNL S300 2026- SJVAPCD |
| Permittee | |
| Permit Number | |
| Primary Field Contact: | |
| Other Field Contacts: | |
| Land Manager Name: | Valerie Dibley/ Saira Soriano |
| Address: | 7000 East Ave Livermore, CA 94550 |
| Phone: | (925)424-5875 |
| 24 Hour Phone: | (925) 961-7952 |
| Email: | soriano4@llnl.gov |

Edit — Edit this Land Manager

## Landowner Information

Complete

| | |
|---|---|
| Landowner Name: | US Government- Dept of Energy |
| Address: | 7000 East Ave Livermore, CA 94550 |

Edit — Edit this Landowner

Delete — Delete this Landowner

Add — Add a Landowner

## Project Specifics

Complete

| | | | | | |
|---|---|---|---|---|---|
| Project Acres | 2021 | Duration (days) | 12 | Overnight Burn? | No |
| Preferred Season | Spring | Burn Start | 05-2026 | Burn End | 08-2026 |
| Burn Goal | Hazard Reduction | | | | |
| Primary District | San Joaquin Valley APCD | Secondary District | | Tertiary District | |

Edit — Edit this information

## Broadcast Units

Complete

### Currently Active Units

#### Project 4 (Plot 45)

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 55.2 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 0 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | Previously burnt area and primarily native grasses. | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | 0.386 | | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.66 | Longitude: | -121.52 | Meridian: | N/A |
| Township: | 3S | Range: | 4E | Section: | 22 |
| Min Elev: | 913 | Max Elev: | 1300 | Mean Elev: | 1108 |
| Crossroads: | HW-580 | Slope: | Varied | Aspect: | Eastern |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY | |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 | |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY | |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 | |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 | |
| Target Mixing Height: | 500 ft (above ground level) | | | | | | |

Edit — Edit this information.

Delete — Delete Project 4 (Plot 45).

Inactive — Make this unit inactive.

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## Project 6 (Plot 6, 20,19 & 3B)

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 26.1 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 0 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | Previously burnt area and primarily native grasses. | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | | 0.183 | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.677614 | Longitude: | -121.513692 | Meridian: | N/A |
| Township: | 3S | Range: | 4E | Section: | 15 |
| Min Elev: | 864 | Max Elev: | 1336 | Mean Elev: | 1100 |
| Crossroads: | HW-580 | Slope: | Varied | Aspect: | Eastern |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 6 (Plot 6, 20,19 & 3B).

Inactive — Make this unit inactive.

## Project 5 (Plots 31A & 31B )

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 150.3 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 0 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | Previously burnt area and primarily native grasses. | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | | 1.052 | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.67126 | Longitude: | -121.51771 | Meridian: | N/A |
| Township: | 3S | Range: | 4E | Section: | 15 |
| Min Elev: | 914 | Max Elev: | 1322 | Mean Elev: | 1116 |
| Crossroads: | HW-580 | Slope: | Varied | Aspect: | Eastern |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 5 (Plots 31A & 31B ).

Inactive — Make this unit inactive.

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## Project 3 (Plot 7 & 21)

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 31.8 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 0 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | Previously burnt area and primarily native grasses. | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | | 0.223 | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.669011 | Longitude: | -121.513596 | Meridian: | N/A |
| Township: | 3S | Range: | 4E | Section: | 15,22 |
| Min Elev: | 913 | Max Elev: | 1300 | Mean Elev: | 1108 |
| Crossroads: | HW-580 | Slope: | Varied | Aspect: | Eastern |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 3 (Plot 7 & 21).

Inactive — Make this unit inactive.

## Project 7 (Plot 17, 18 & 1A)

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 39.8 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 0 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | Previously burnt area and primarily native grasses. | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | | 0.279 | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.67474 | Longitude: | -121.52616 | Meridian: | Mt Diablo |
| Township: | 3S | Range: | 4E | Section: | 15 |
| Min Elev: | 1012 | Max Elev: | 1394 | Mean Elev: | 1203 |
| Crossroads: | HW-580 | Slope: | Varied | Aspect: | Eastern |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 7 (Plot 17, 18 & 1A).

Inactive — Make this unit inactive.

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## Project 11 (Plots 1 & 16E)

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 174.7 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 0 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | Previously burnt area and primarily native grasses. | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | 1.223 | | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.673960 | Longitude: | -121.549761 | Meridian: | N/A |
| Township: | 3S | Range: | 4E | Section: | 16, 17 |
| Min Elev: | 1127 | Max Elev: | 1533 | Mean Elev: | 1330 |
| Crossroads: | HW-580 | Slope: | Varied | Aspect: | Eastern |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 11 (Plots 1 & 16E).

Inactive — Make this unit inactive.

## Project 12 (Plot 12)

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 181.9 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 0 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | Previously burnt area and primarily native grasses. | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | 1.273 | | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.671744 | Longitude: | -121.551499 | Meridian: | Mt Diablo |
| Township: | 3S | Range: | 4E | Section: | 21 |
| Min Elev: | 1002 | Max Elev: | 1326 | Mean Elev: | 1164 |
| Crossroads: | HW-580 | Slope: | Varied | Aspect: | Eastern |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 12 (Plot 12).

Inactive — Make this unit inactive.

Docusign Envelope ID: 243C96A5-6EF2-4652-9270-64F3E8BEAB59

## Project 2 (Plot 8)

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 53.8 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 0 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | Previously burnt area and primarily native grasses. | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | | 0.377 | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.654195 | Longitude: | -121.515526 | Meridian: | N/A |
| Township: | 3S | Range: | 4E | Section: | 22 |
| Min Elev: | 820 | Max Elev: | 1040 | Mean Elev: | 930 |
| Crossroads: | HW-580 | Slope: | Varied | Aspect: | Eastern |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 2 (Plot 8).

Inactive — Make this unit inactive.

## Project 13 (Plots 15 & 24)

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 286.5 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 0 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | Previously burnt area and primarily native grasses. | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | | 2.006 | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.65582 | Longitude: | -121.537488 | Meridian: | Mt Diablo |
| Township: | 3S | Range: | 4E | Section: | 17, 20 |
| Min Elev: | 1055 | Max Elev: | 1543 | Mean Elev: | 1299 |
| Crossroads: | HW-580 | Slope: | Varied | Aspect: | Eastern |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 13 (Plots 15 & 24).

Inactive — Make this unit inactive.

Docusign Envelope ID: 243C96A5-6EF2-4652-9270-64F3E8BEAB59

## Project 1 (Plots 10B & 9)

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 57 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 0 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | Previously burnt area and primarily native grasses. | | | | | | |
| Emissions Calculation Method: | | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | Estimated Emissions: | | 0.399 | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.643341 | Longitude: | -121.4962076 | Meridian: | Mt Diablo |
| Township: | 3S | Range: | 4E | Section: | 26 |
| Min Elev: | 588 | Max Elev: | 1044 | Mean Elev: | 816 |
| Crossroads: | HW-580 | Slope: | Varied | Aspect: | Eastern |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 1 (Plots 10B & 9).

Inactive — Make this unit inactive.

## Project 16 (Plot 14W)

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 8.8 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 0 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | Previously burnt area and primarily native grasses. | | | | | | |
| Emissions Calculation Method: | | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | Estimated Emissions: | | .062 | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.634920 | Longitude: | -121.545798 | Meridian: | N/A |
| Township: | 3S | Range: | 4E | Section: | 28, 29, 33 |
| Min Elev: | 568 | Max Elev: | 738 | Mean Elev: | 653 |
| Crossroads: | HW-580 | Slope: | Varied | Aspect: | Eastern |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 16 (Plot 14W).

Inactive — Make this unit inactive.

Docusign Envelope ID: 243C96A5-6EF2-4652-9270-64F3E8BEAB59

## Project 15 (Plot 13)

(click to expand)

| General Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 190.4 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 0 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | Previously burnt area and primarily native grasses. | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | | 1.333 | |

Edit — Edit this information.

| Unit Location | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.639722 | Longitude: | -121.531041 | Meridian: | N/A |
| Township: | 3S | Range: | 4E | Section: | 17, 28, 33, 34 |
| Min Elev: | 614 | Max Elev: | 1302 | Mean Elev: | 958 |
| Crossroads: | HW-580 | Slope: | Varied | Aspect: | Eastern |

Edit — Edit this information.

| Ignition Prescription | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 15 (Plot 13).

Inactive — Make this unit inactive.

## Project 17 (Plot 16W)

(click to expand)

| General Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 442.1 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 0 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | Previously burnt area and primarily native grasses. | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | | 3.095 | |

Edit — Edit this information.

| Unit Location | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.663723 | Longitude: | -121.558297 | Meridian: | N/A |
| Township: | 3S | Range: | 4E | Section: | 17, 20 |
| Min Elev: | 1065 | Max Elev: | 1707 | Mean Elev: | 1386 |
| Crossroads: | HW-580 | Slope: | Varied | Aspect: | Eastern |

Edit — Edit this information.

| Ignition Prescription | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 17 (Plot 16W).

Inactive — Make this unit inactive.

Docusign Envelope ID: 243C96A5-6EF2-4652-9270-64F3E8BEAB59

## Project 14 (Plot 14E)

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 47.8 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 0 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | Previously burnt area and primarily native grasses. | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | .335 | | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.63045 | Longitude: | -121.51812 | Meridian: | N/A |
| Township: | 3S | Range: | 4E | Section: | 33, 34, 35 |
| Min Elev: | 649 | Max Elev: | 697 | Mean Elev: | 673 |
| Crossroads: | HW-580 | Slope: | Varied | Aspect: | Eastern |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 14 (Plot 14E).

Inactive — Make this unit inactive.

## Project 20 (Plot 10A)

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 52.3 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 0 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | Not a previously burn area and primarily native grass. | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | 0.366 | | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.64695 | Longitude: | -121.49941 | Meridian: | N/A |
| Township: | 3S | Range: | 4E | Section: | 26 |
| Min Elev: | 588 | Max Elev: | 1044 | Mean Elev: | 816 |
| Crossroads: | HW-580 | Slope: | Varied | Aspect: | Eastern |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 20 (Plot 10A).

Inactive — Make this unit inactive.

Docusign Envelope ID: 243C96A5-6EF2-4652-9270-64F3E8BEAB59

## Project 8 ( Plot 3A)

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 78.4 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 50 | Max THFM: | 100 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | previously burn plot | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | | 0.549 | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | San Joaquin | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.67544 | Longitude: | -121.52081 | Meridian: | N/A |
| Township: | 3S | Range: | 4E | Section: | 15 |
| Min Elev: | 1044 | Max Elev: | 588 | Mean Elev: | 816 |
| Crossroads: | | Slope: | | Aspect: | |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 8 ( Plot 3A).

Inactive — Make this unit inactive.

## Project 9 (Plot 5)

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 78.9 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 100 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | previously burn plot | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | | 0.552 | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | Amador | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.67543 | Longitude: | -121.52614 | Meridian: | N/A |
| Township: | 3S | Range: | 4E | Section: | 15 |
| Min Elev: | 588 | Max Elev: | 1044 | Mean Elev: | 816 |
| Crossroads: | | Slope: | | Aspect: | |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 9 (Plot 5) .

Inactive — Make this unit inactive.

Docusign Envelope ID: 243C96A5-6EF2-4652-9270-64F3E8BEAB59

## Project 10 ( Plot 2)

(click to expand)

**General Information**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acres: | 65 | Tons/Acre: | 1 | Fuel Arrangement: | Grassland | Fuel Density: | Typical |
| General Fuel Moisture: | | Dry | | Min THFM: | 0 | Max THFM: | 100 |
| Cover Type: | VALLEY NEEDLEGRASS GRASSLAND | | | | | | |
| General Description: | previously burn plot | | | | | | |
| Emissions Calculation Method: | Table 2 (FL is 1 ton/acre; grass EV of 0.007 PM10/ton fuel) | | | Estimated Emissions: | 0.455 | | |

Edit — Edit this information.

**Unit Location**

| | | | | | |
|---|---|---|---|---|---|
| County: | Amador | District: | San Joaquin Valley APCD | Air Basin: | San Joaquin Valley |
| Latitude: | 37.67545 | Longitude: | -121.53228 | Meridian: | N/A |
| Township: | 3S | Range: | 4E | Section: | 15 |
| Min Elev: | 816 | Max Elev: | 1044 | Mean Elev: | 930 |
| Crossroads: | | Slope: | | Aspect: | |

Edit — Edit this information.

**Ignition Prescription**

| | | | | | | |
|---|---|---|---|---|---|---|
| Source of meteorological information: | LLNL S300 Meteorological Tower | | | | | |
| Other considerations to ensure adequate smoke dispersion: | NA | | | | | |
| Sfc Wind Direction: | Ideal: | W | Min: | ANY | Max: | ANY |
| Sfc Wind Speed: | Ideal: | 15 | Min: | 0 | Max: | 25 |
| Transport Wind Direction: | Ideal: | NW | Min: | ANY | Max: | ANY |
| RH: | Ideal: | 25 | Min: | 15 | Max: | 75 |
| Temperature: | Ideal: | 80 | Min: | 50 | Max: | 100 |
| Target Mixing Height: | 500 ft (above ground level) | | | | | |

Edit — Edit this information.

Delete — Delete Project 10 ( Plot 2).

Inactive — Make this unit inactive.

Single — Add a single Broadcast Unit

Multiple — Add a multiple Broadcast Units via spreadsheet

## Pile Units

Complete

Single — Add a single Pile Unit

Multiple — Add a multiple Pile Units via spreadsheet

## Smoke Sensitive Areas

Complete

| SSA Name | Direction | Distance | Delete? |
|---|---|---|---|
| City of Tracy | NE | 2.7 (mi) miles | Delete |
| City of Livermore | E | 7.26 (mi) miles | Delete |
| Community of Mountain House | N | 5.3 (mi) miles | Delete |
| City of Manteca,CA | NE | 17.07 (mi) miles | Delete |
| City of Lathrop | NE | 15.68 (mi) miles | Delete |
| Community of Tracy Hills | NE | 1.8 (mi) miles | Delete |

Edit — Edit Smoke Sensitive Area(s)

Add — Add Smoke Sensitive Area(s)

## Public Contact Methods

Complete

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TV? | No | Radio? | No | Newspaper? | Yes | Signs/Flyers? | No | Telephone? | Yes | Email? | Yes | Website? | Yes |
| Description of Contact Method(s) | Letter to neighbors, newspaper notice, lock libraries, LLNL webpage, social media platforms, such as Linkedin, Twitter, etc. | | | | | | | | | | |
| Signage Description | Not applicable, remote area | | | | | | | | | | |

Edit — Edit this Land Manager

Docusign Envelope ID: 243C96A5-6EF2-4652-9270-64F3E8BEAB59

## Alternatives to Burning

Complete

| | |
|---|---|
| Alternative Name: | Various |
| Description: | Mowing/disking, grazing, sterilization. |
| Did you use this alternative? | No |
| Estimated emissions and fuel reduction (if used)<br>Reasons (if not used) | Too steep for mowing/disking. Grazing or sterilization will have adverse impacts to native plants onsite. |
| Additional Comments: | |

Edit — Edit this Alternative

Delete — Delete this Alternative

Add — Add an Alternative

## Smoke Mitigation

Complete

| | |
|---|---|
| Contingency Name: | Smoke Reduction |
| Contingency Measure? | Yes |
| Smoke Minimization Measure? | Yes |
| Description: | Suppress active fire. Reduce the size of burn plot by developing new control lines. Initiate mop-up operations once fire is controlled. Focus suppression and mop-up operations on area of greater smoke production. |

Edit — Edit this Smoke Mitigation information

Delete — Delete this Smoke Mitigation information

Add — Add Smoke Mitigation information

## SMP Comments

Complete

Add — Add SMP Comment (optional)

## Project Maps

Complete

Print — Print this plan.

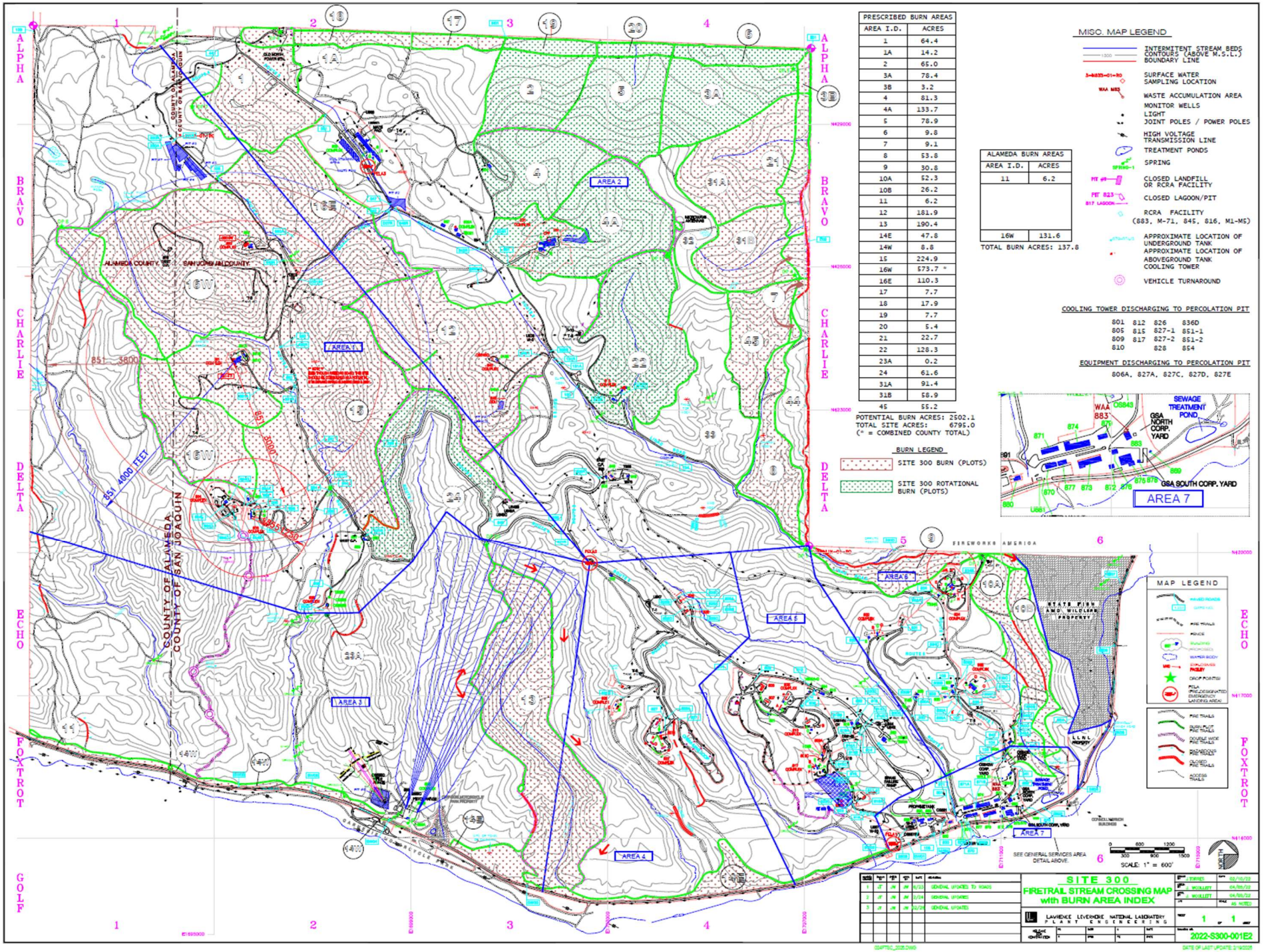
Is this information correct?

Submit — Yes. Please submit to my local air district.

Save — Save changes and exit. Plan can be accessed at any time.This choice will NOT submit your plan to any air district.

Delete — Delete this SMP. This choice will remove all information from this project.

Docusign Envelope ID: 243C96A5-6EF2-4652-9270-64F3E8BEAB59




| PRESCRIBED BURN AREAS | |
|---|---|
| AREA I.D. | ACRES |
| 1 | 64.4 |
| 1A | 14.2 |
| 2 | 65.0 |
| 3A | 78.4 |
| 3B | 3.2 |
| 4 | 81.3 |
| 4A | 133.7 |
| 5 | 78.9 |
| 6 | 9.8 |
| 7 | 9.1 |
| 8 | 53.8 |
| 9 | 30.8 |
| 10A | 52.3 |
| 10B | 26.2 |
| 11 | 6.2 |
| 12 | 181.9 |
| 13 | 190.4 |
| 14E | 47.8 |
| 14W | 8.8 |
| 15 | 224.9 |
| 16W | 573.7 * |
| 16E | 110.3 |
| 17 | 7.7 |
| 18 | 17.9 |
| 19 | 7.7 |
| 20 | 5.4 |
| 21 | 22.7 |
| 22 | 128.3 |
| 23A | 0.2 |
| 24 | 61.6 |
| 31A | 91.4 |
| 31B | 58.9 |
| 4S | 55.2 |

POTENTIAL BURN ACRES: 2502.1
TOTAL SITE ACRES: 6795.0
(* = COMBINED COUNTY TOTAL)

BURN LEGEND
SITE 300 BURN (PLOTS)
SITE 300 ROTATIONAL BURN (PLOTS)

| ALAMEDA BURN AREAS | |
|---|---|
| AREA I.D. | ACRES |
| 11 | 6.2 |
| | |
| | |
| 16W | 131.6 |

TOTAL BURN ACRES: 137.8

MISC. MAP LEGEND
INTERMITTENT STREAM BEDS
CONTOURS (ABOVE M.S.L.)
BOUNDARY LINE
SURFACE WATER SAMPLING LOCATION
WASTE ACCUMULATION AREA
MONITOR WELLS
LIGHT
JOINT POLES / POWER POLES
HIGH VOLTAGE TRANSMISSION LINE
TREATMENT PONDS
SPRING
CLOSED LANDFILL OR RCRA FACILITY
CLOSED LAGOON/PIT
RCRA FACILITY (883, M-71, 845, 816, M1-MS)
APPROXIMATE LOCATION OF UNDERGROUND TANK
APPROXIMATE LOCATION OF ABOVEGROUND TANK
COOLING TOWER
VEHICLE TURNAROUND

COOLING TOWER DISCHARGING TO PERCOLATION PIT

| | | | |
|---|---|---|---|
| 801 | 812 | 826 | 836D |
| 805 | 815 | 827-1 | 851-1 |
| 809 | 817 | 827-2 | 851-2 |
| 810 | | 828 | 854 |

EQUIPMENT DISCHARGING TO PERCOLATION PIT
806A, 827A, 827C, 827D, 827E

MAP LEGEND

SITE 300
FIRETRAIL STREAM CROSSING MAP with BURN AREA INDEX

LAWRENCE LIVERMORE NATIONAL LABORATORY
PLANT ENGINEERING

2022-S300-001E2