

DTSC Interim Summary Report of Woolsey Fire

Impacts at SSFL & Surrounding Communities Sampling Results

December 2018





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ACRONYMS AND ABBREVIATIONS

9th CST 9th Civil Support Team of the California National Guard

CalEPA California Environmental Protection Agency

CDPH California Department of Public Health

DOE Department of Energy

DRM Data Rate Monitor

DTSC Department of Toxic Substances Control

ECL (DTSC) Environmental Chemistry Lab

HPGe High Performance Germanium

HPIC high pressure ion chambers

IBAC Instantaneous Biological Analyzer and Collector

LLNL Lawrence Livermore National Laboratory

LACDPH Los Angeles County Department of Public Health

NASA National Aeronautics and Space Administration

NNSA National Nuclear Security Administration

NORM Naturally Occurring Radioactive Material

OEHHA Office of Environmental Health Hazard Assessment

PAH polyaromatic hydrocarbon

PCB polychlorinated biphenyl

RAP Radiologic Assistance Program

RERT Radiological Emergency Response Team

RMP Radiation Management Program

SASS Smart Air Sampler System

SSFL Santa Susana Field Laboratory

U.S. EPA U.S. Environmental Protection Agency

VOCs volatile organic compounds

XRF X-ray fluorescence

EXECUTIVE SUMMARY

The Department of Toxic Substances Control (DTSC) and a team of federal, state and local agencies evaluated impacts of the Woolsey Fire on conditions at the Santa Susana Field Laboratory (SSFL) site and in communities around the site. This interim report summarizes work done between November 8 and 30, 2018 to address concerns about the impact of the Woolsey Fire on SSFL and to assess the possibility that the fire caused radionuclides and hazardous chemical waste on the site to migrate into surrounding communities.

Over the course of three weeks, the agencies performed field inspections and computer simulations, took measurements and physical samples, conducted monitoring and reviewed available data from existing monitoring stations on the SSFL site and in nearby communities. Taken together, the observations and data from these investigations provide multiple lines of evidence that no radiation or hazardous materials from SSFL were detected in communities following the Woolsey fire.

Overview

On November 8, the Woolsey Fire burned through a portion of SSFL. The Department of Toxic Substances Control (DTSC) evaluated the impact of the fire based on reports from fire responders, visual inspection of the site, measurements from hand-held instruments, and laboratory analysis of field samples collected on-site and in surrounding communities. DTSC also requested and received support from a Response Team of federal, state, and local agencies with expertise in evaluating possible releases of radiation and hazardous compounds and potential impacts from fires.

Response Team members confirmed that the SSFL facilities that previously handled radioactive and hazardous materials were not affected by the fire. Additionally, air samplers located adjacent to these buildings collected data during the fire that show radionuclide levels consistent with background levels. Based on the DTSC and Response Team members' sampling results discussed in this report, all the measurements and analyses indicate that no radiation or hazardous materials associated with contamination of SSFL were released by the fire.

The fire did damage portions of the SSFL stormwater collection and treatment systems. According to the Los Angeles Regional Water Quality Control Board, which oversees management and control of stormwater at SSFL, The Boeing Company took actions to prevent ash, debris, and stormwater from leaving the SSFL site and to ensure that surface water runoff samples were collected in the event there was a discharge at any of the outfall sampling locations.

While DTSC has completed its data collection and analysis, several Response Team members are still waiting for validation of some of their laboratory data. In the interest of contributing to this interim report, the Response Team members have provided summaries and conclusions based on their available, validated data and results. Once

all their data has been validated and received, DTSC will incorporate the remaining data and issue an updated final report.

This report includes:

- A description of the role and work performed by members of the Response Team in assessing the impact of the Woolsey Fire on SSFL
- A description of the methods and tools used for data collection
- Summaries of the measurements, sampling data, and dates and locations where data were collected
- Response Team analyses conducted to evaluate potential impacts
- Maps showing sample data locations and the Woolsey Fire burn area in relation to SSFL
- All data from soil, ash and air samples collected at SSFL and in surrounding communities (provided in attachments to the report).

BACKGROUND

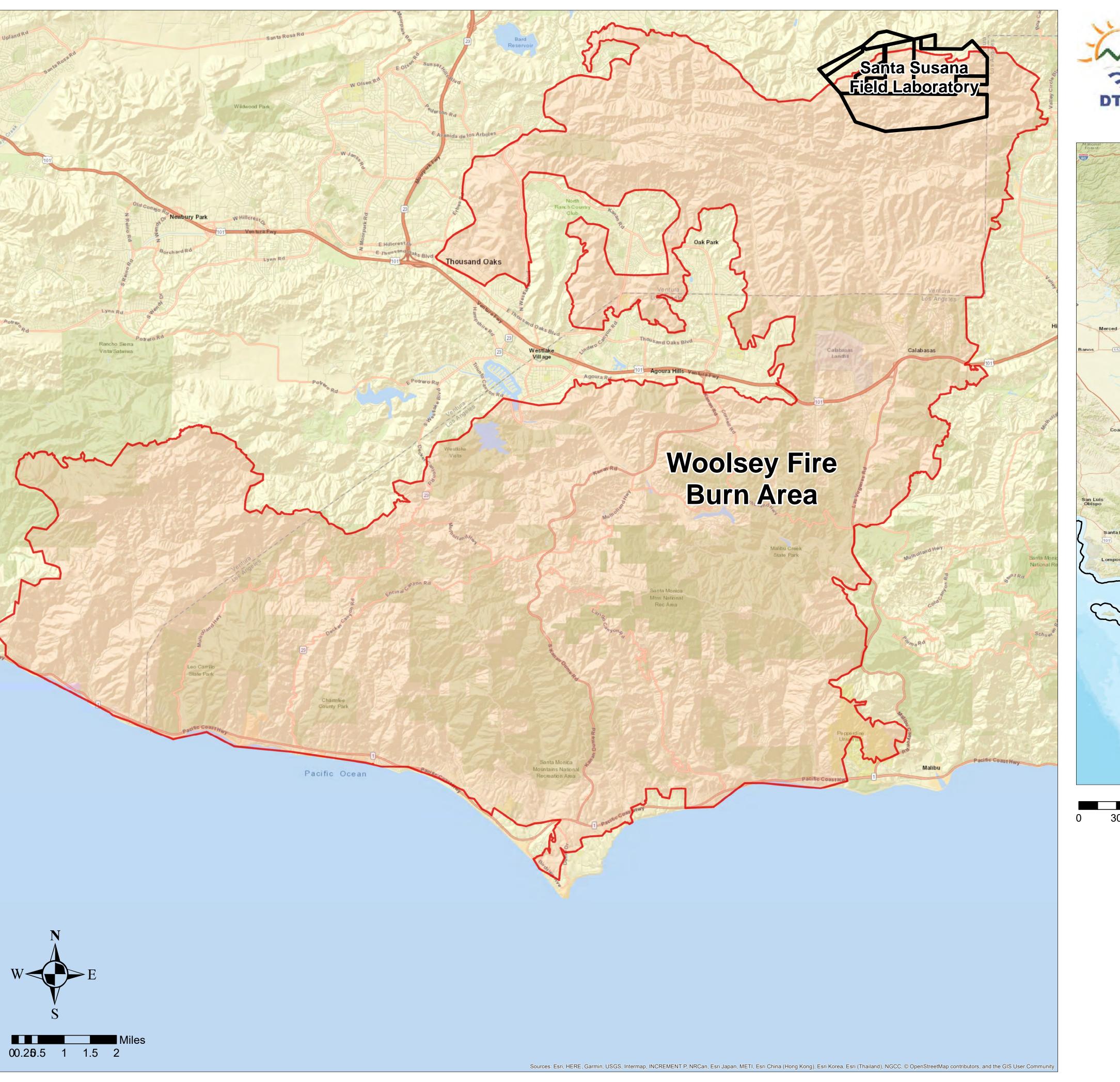
Woolsey Fire

The Woolsey Fire started on Thursday, November 8, 2018. Per the California Department of Forestry and Fire Protection Incident Information Report, as of 6:11 p.m. November 21, the fire was 100 percent contained after having burned 96,949 acres, destroyed 1,500 buildings and damaged 341 structures in Ventura and Los Angeles counties. The area affected by the fire is shown on Figure 1.

Santa Susana Field Laboratory

SSFL covers approximately 2,850 acres located in Ventura County (Figure 1). The site, also referred to as the Rocketdyne facility, operated from 1948 until 2006, and was used for rocket engine testing and nuclear power research and development. The past activities have left chemical and radionuclide contamination in the soil and groundwater at SSFL. The parties responsible for the cleanup of this contamination are The Boeing Company (Boeing) (which owns the majority of the site), U.S. Department of Energy (DOE), and National Aeronautics and Space Administration (NASA). DTSC is the lead state agency overseeing the SSFL cleanup. The majority of radionuclide contamination at SSFL is in a portion of SSFL identified as Area IV. There is no active storage of radioactive or chemical hazardous waste at SSFL.

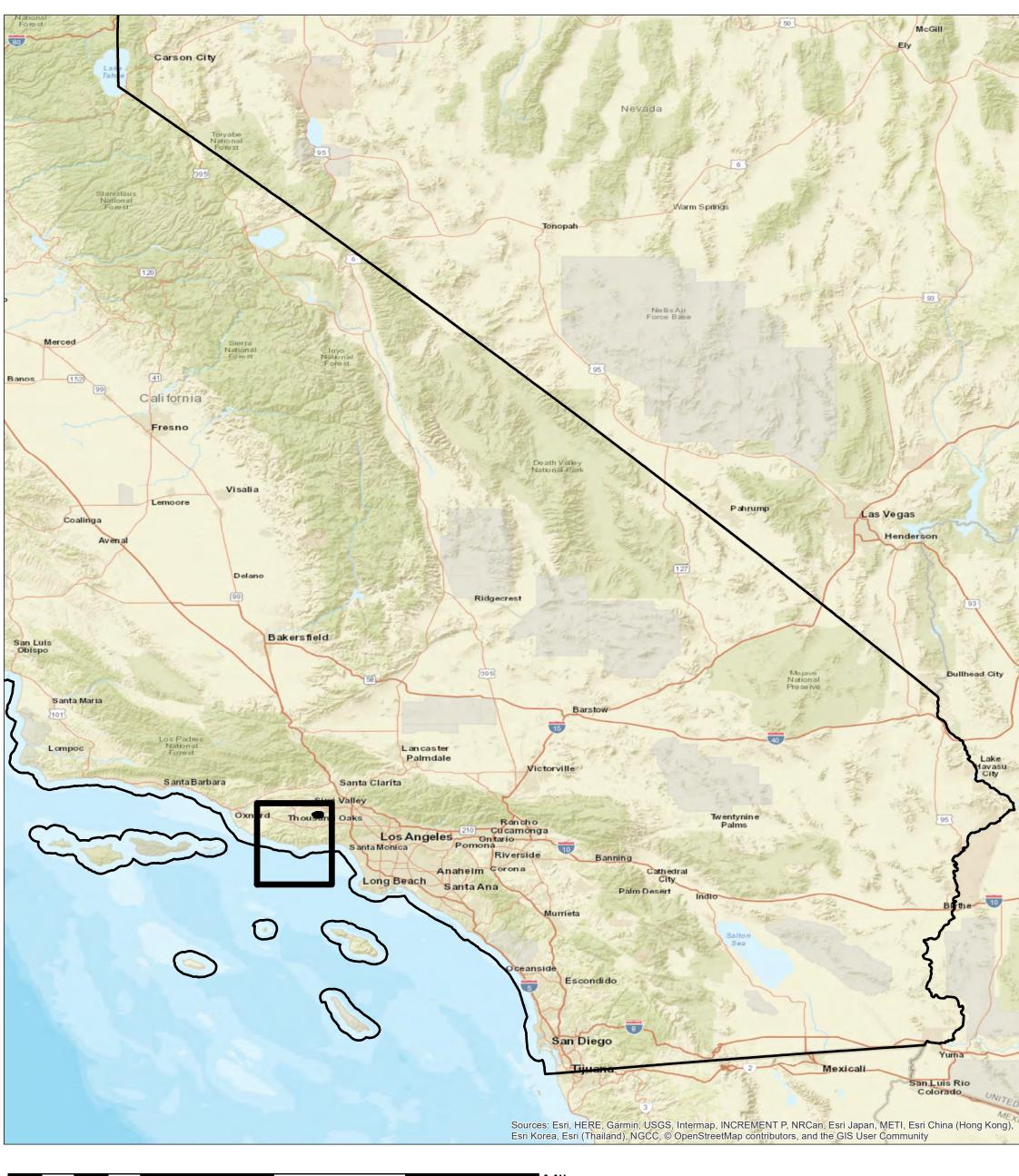
¹ http://cdfdata.fire.ca.gov/incidents/incidents_details_info?incident_id=2282







LOCATION MAP



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Figure 1

Location map

Created by: W. Martinez Date: 11/30/2018

DTSC ACTIVITIES

Response Work

On Thursday, November 8, 2018, the Woolsey Fire burned portions of SSFL. Shortly after the fire had moved through the site, DTSC emergency responders reached out to local responders who reported the fire did not affect facilities that had handled radiological material or hazardous wastes (see photos in Appendix B). However, because the Woolsey Fire burned portions of SSFL, the nearby community was alarmed by the possibility of radionuclides and hazardous chemical waste from SSFL migrating off site in the fire's smoke and ash. Subsequent to the fire, the community also expressed concerns about contaminants being washed off SSFL into the local drainages.

DTSC assessed the potential chemical and radiological hazards associated with SSFL and developed a list of potential contaminants of concern for sampling based on the historic activities at SSFL. The list included radionuclides, metals, volatile organic compounds (VOCs), polyaromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs). In the following days DTSC performed rapid detection for potential releases of radiation and hazardous compounds, and verified the results by collecting soil, ash, and air samples for laboratory analysis.

Beginning Friday, November 9, DTSC requested and coordinated assistance from the Response Team to assess the impacts of the fire on SSFL. In addition to DTSC, the expanded Response Team included:

- California Environmental Protection Agency (CalEPA)
- CalEPA Office of Environmental Health Hazard Assessment (OEHHA)
- California Department of Public Health (CDPH)
- U.S. Environmental Protection Agency (U.S. EPA) Emergency Response Team
- U.S. Department of Energy (DOE) Radiologic Assistance Program from Lawrence Livermore National Laboratory (LLNL)
- DOE National Nuclear Security Administration (NNSA) Consequence Management Home Team
- 9th Civil Support Team (9th CST) of the California National Guard
- Los Angeles County Department of Public Health (LACDPH) Radiation Management Program, and
- Other agencies from the counties of Los Angeles and Ventura

The Response Team also worked closely with the California Office of Emergency Services Incident Command, local law enforcement, and air quality agencies.

The NNSA Home Team performed a preliminary computer simulation to estimate the total potential inhalation exposure risk from radionuclides found at SSFL. The model was run and assumed that the maximum SSFL soil contamination measurement for each radionuclide was present in the soil in order to calculate the amount released by

the fire. The simulation indicated that even using the maximum radionuclide concentration to estimate the amount of radionuclide being released, the off-site impacts would be over 1 million times lower than U.S. EPA levels of concern. The Response Team considered the simulation when designing the field sampling plan to identify areas where any off-site concentrations would be greatest.

DTSC took samples at SSFL and in other areas off-site to ensure wide coverage of nearby residential communities. Sample locations are shown on Figure 2, and sample information is presented in Table A-1 (Appendix A). The DOE Radiological Assistance Program (RAP) Team and 9th CST collected field measurements and conducted sampling for radionuclides and chemicals, respectively, at locations co-located with DTSC sampling efforts. Table A-2 (Appendix A) presents a summary of the locations where sampling was conducted by DTSC, RAP, and the 9th CST at the same location.

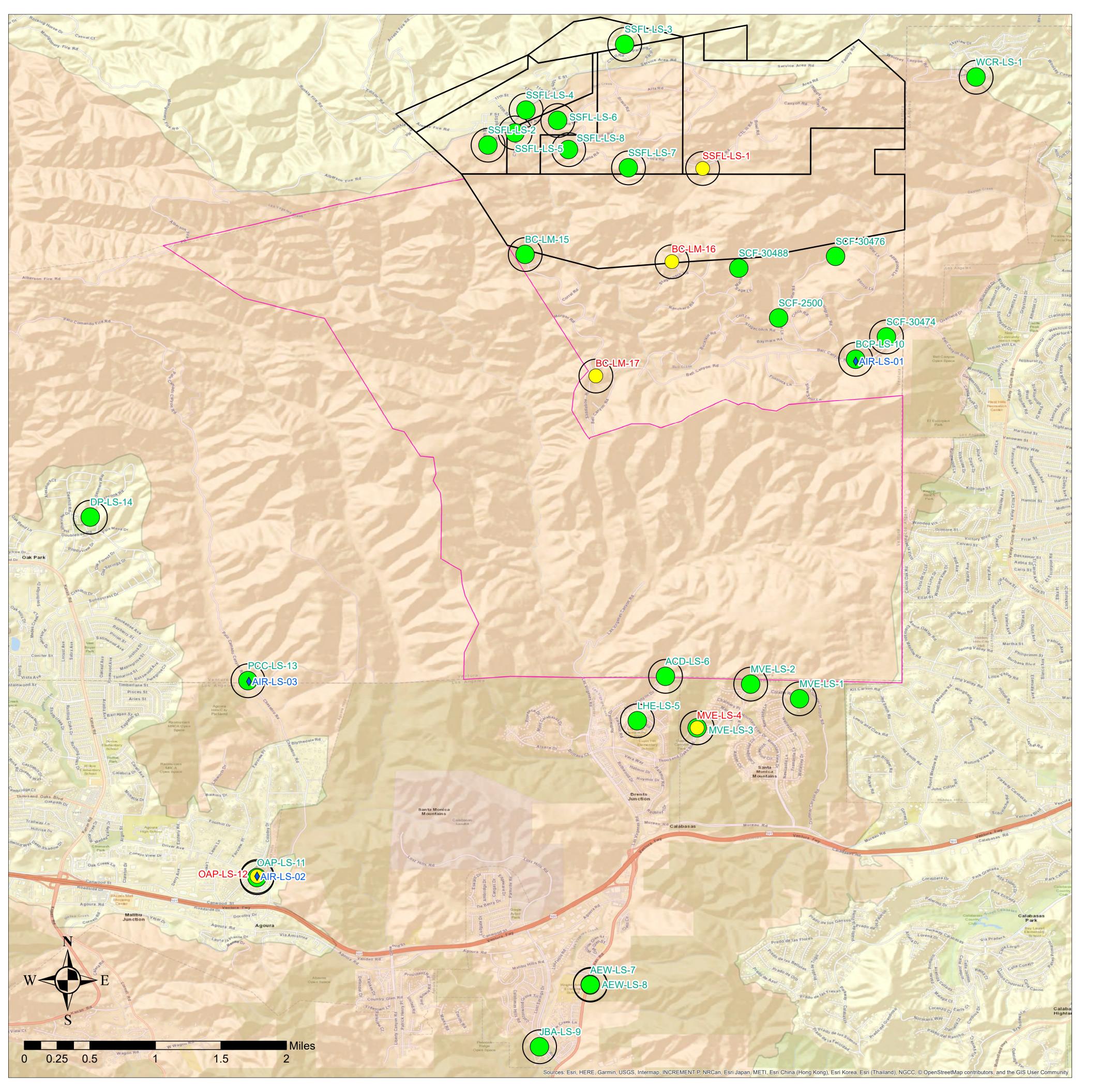
Overview of Measurements, Sampling, and Monitoring Work

DTSC performed rapid detection for potential releases of hazardous constituents with real-time measurements using portable instruments. Radiation can be assessed in real time using handheld instruments called radiologic meters. Similarly, handheld instruments called X-ray fluorescence (XRF) analyzers provide real-time measurements of various metals. Handheld devices are generally referred to as screening instruments. Screening samples are often followed up by the collection of samples that are sent to a laboratory for further analysis. DTSC made field measurements using handheld instruments at all locations and collected 36 physical samples of air, soil, and ash. The physical samples were sent to DTSC's Environmental Chemistry Laboratory (ECL) for chemical analysis.

More sophisticated mobile instruments, typically installed in specially equipped vans, can also be used to measure radionuclides, VOCs, and metals. DTSC requested support from members of the Response Team to provide analysis with mobile instruments.

On Saturday, November 10, as soon as access to SSFL was possible, DTSC investigators entered the site and verified the November 8 assessment that the fire had not burned facilities that had managed radioactive and hazardous materials in Area IV. Specifically, the fire did not extend to the former Radioactive Materials Handling Facility, Hazardous Waste Treatment Facility, Sodium Reactor Experiment area, or other buildings in that area (see pictures attached in Appendix B). Power lines and poles were down across much of the site. The DTSC investigators used portable instruments to take real-time readings of radiation and did not detect any radiation above normal background levels during their visit to the site.

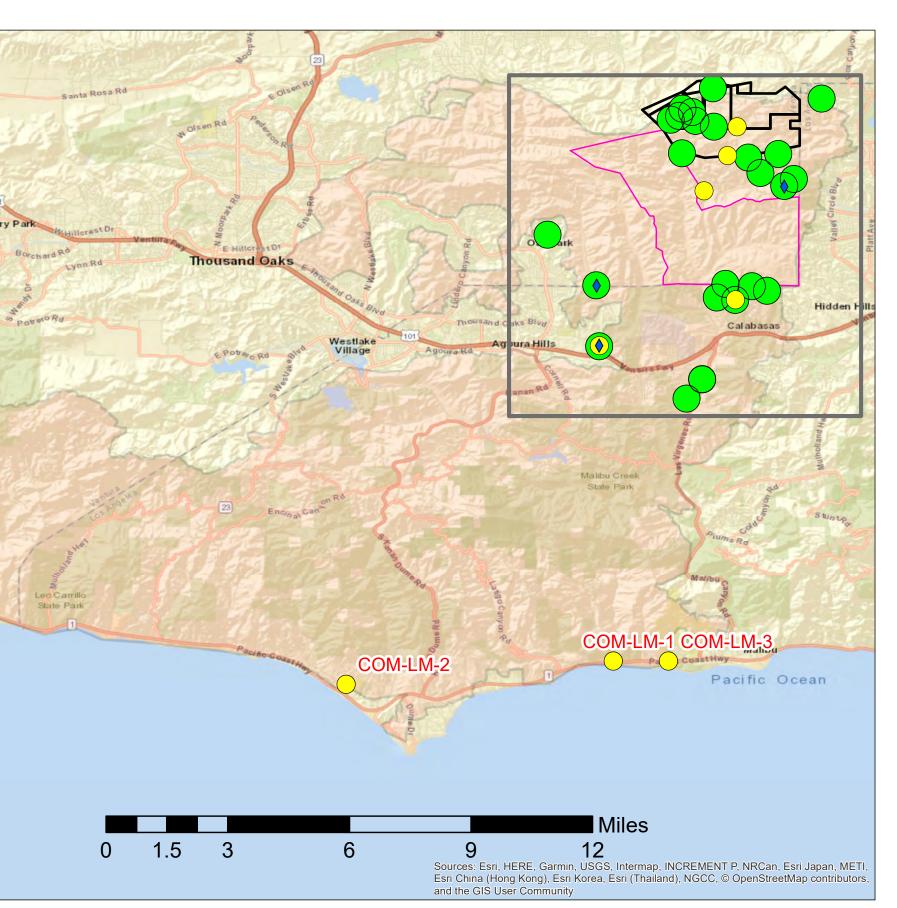
DTSC scientists and investigators also took real-time measurements for radiation and hazardous materials, and collected soil, ash, and air samples from November 11 to 14. The field measurements and sampling occurred on SSFL and off site in the surrounding and downwind communities of Woolsey Canyon, Bell Canyon, Calabasas, Oak Park, Agoura Hills, and Malibu. Sample location were selected based on proximity of







MEASUREMENT LOCATIONS DTSC Soil, Ash and Air Sampling



NOTE:

Fire perimeter layer from Los Angeles County GIS Data Portal: Fire Perimeter (updated 11/18/18).

Legend

 \Diamond

Asl

Sc

Field Measurement (Rad Monitor, XRF)

Santa Susana Field Laboratory

Fire Perimeter (LA Co, 11/18/2018)

Upper Las Virgenes Canyon Open Space Preserve

Figure 2

DTSC Map of Woolsey Fire Response Features

Created by: W. Martinez Date: 11/30/2018 residential areas to SSFL and the ability to access the areas. The name, location, and type of the 36 samples collected are presented in Table A-1. The sample locations are shown on Figure 2.

Chemical results for soil and ash were compared against U.S. EPA residential screening levels (Table A-3). Arsenic results were compared against the natural background levels found in the surrounding area. The U.S. EPA residential screening levels can be used to determine if further investigation is needed and are based on a long-term 26-year exposure scenario, not on a single time exposure event. Use of these screening levels is appropriate because the soil and ash may remain in place for some time and a long-term exposure screening levels provide a more reasonable estimate of risk.

The chemical results for the three air samples DTSC analyzed, were also compared to the U.S. EPA residential screening levels. Again, the screening levels assume a long-term (26 year) exposure to the chemicals in the air. Given the transient nature of fires, use of the U.S. EPA screening levels is extremely protective of human health exposure, because the community is not exposed to that smoke for a long (multiple years) period of time.

Real-Time Measurements – Instruments Used and Results

DTSC used Ludlum Model 19 portable radiologic meters to look for gamma radiation. These are sensitive instruments that measure gamma levels as low as a few microrem per hour (μ R/hr). For fire recovery work, DTSC's industrial hygienists recommend DTSC staff use a safety-based action level of 200 μ R/hr.

DTSC screened seven SSFL sample locations, and 25 of 26 sampling locations in the communities of Agoura Hills, Bell Canyon, Calabasas, Thousand Oaks, and West Hills, for radiation. The portable radiologic meters were turned on and operating for the full duration of each field inspection, including while driving on the site and in communities around the site where the samples were taken. All readings were within normal background levels. Discrete measurements of soil and ash were below 40 μ R/hr, well below the safety based action level, with an average between 15 and 20 μ R/hr. The results of the DTSC discrete gamma radiation measurements of soil and ash are presented in Table A-4 (Appendix A).

In addition, DTSC used portable XRF analyzers to screen for metals in the same communities. XRF testing is a non-destructive testing technique, meaning multiple analysis can be made on the same sample, or the sample can be sent to a fixed laboratory for analysis following XRF screening. The XRF screening results (Table A-5) showed six samples with potential cobalt readings above U.S. EPA residential screening levels (Table A-3), and one sample reading detecting mercury slightly above U.S. EPA residential screening levels. Additional XRF readings were taken from the same sample, and did not detect any mercury.

A single result that exceeds a screening level does not mean a cleanup is needed; it could mean additional evaluation and analysis is required. All the XRF screened soil samples were sent to ECL for analysis. The laboratory analysis did not show elevated levels of cobalt or mercury. All the remaining XRF samples showed no elevated levels other than materials normally present in the background, or after a fire.²

All analytical laboratory results (including the XRF samples with the cobalt and mercury readings mentioned above) were below U.S. EPA residential screening levels. The laboratory results for one ash sample measured 87 parts per million (ppm) of lead, slightly above the DTSC residential screening level of 80 ppm but well below the U.S. EPA residential screening level of 400 ppm.³ The sample with the 87ppm lead was located in Malibu, a significant distance from SSFL.

Laboratory Verification – Samples Collected and Results

To verify real-time screening levels measured on and around SSFL following the Woolsey Fire, DTSC collected 36 discrete samples, including air, soil and ash samples, from 33 locations. Sample locations covered a wide area on site and in the nearby communities. Eight of the 33 sample locations were on SSFL and 25 sample locations were in surrounding communities. The three air sample locations were also soil/ash sample locations.

Table 1 below presents the sample communities and number of air and soil or ash samples collected. The sample locations are shown in Figure 2.

Table 1: Community and Number of DTSC Samples

			SAMPLES
Community	Air	Soil/Ash	Field Screened (XRF or Rad)
SSFL		8	8
Ventura County (Bell Canyon)	1	8	8
Los Angeles County (Woolsey Canyon)		1	1
Agoura Hills	2	3	3
Ventura County (Oak Park)		1	1
Calabasas		9	9
Malibu		3	3
Total	3	33	33

² Metals such as aluminum, cadmium, iron, magnesium, manganese, and zinc are often present after fires. Lead may also be present when fires burn materials coated with lead-based paint. Elevated lead levels may also be found in soil because of historical use of leaded gasoline, lead in paint and plumbing, and prior industrial emissions.

³ The single sample location with the 87 ppm of lead was found in a sample located in Malibu.

The sample collection procedures and locations were documented. A chain-of-custody form was used to document sample control from the field to the laboratory. This provides a mechanism for tracking samples through collection, processing, and analysis. The 36 samples DTSC collected were submitted to the ECL for analysis. The physical sampling included: air samples in Summa canisters, soil samples in sample jars, and ash samples in sample jars.

ECL is nationally recognized and serves as the reference laboratory for the certification of environmental testing laboratories throughout the state. The ECL analyzed 33 soil and ash samples for hazardous compounds including metals, PCBs, PAHs, dioxins, and furans.

Metals Analysis

Normal metals analysis includes 17 metals. This analysis includes metals that are associated with contamination at SSFL. The metals analyzed include:

- antimony
- cadmium
- lead
- silver
- mercury
- arsenic
- chromium
- molybdenum
- thallium
- barium
- cobalt
- nickel
- vanadium
- beryllium
 - copper
- selenium
- zinc

Laboratory Results for Metals: All the arsenic samples were below the local background levels. The remaining metals results were below their respective U.S. EPA residential screening levels (see Table A-3). There was one lead result at 87.2 mg/kg – the only value above OEHHA's 80 mg/kg screening value – but below the U.S. EPA residential screening level. Laboratory metals results are presented in Table A-6. DTSC also had ECL run a Waste Extraction Test (WET) for metals to assess the material for hazardous waste levels. None of the material was at hazardous waste levels. The WET results are provided in Table A-7.

PCB Analysis

PCBs are a group of compounds that share a similar chemical structure. Their name describes the chemical similarity, in that they all have polychlorinated biphenyl components. The different members of the group of PCBs are called Aroclors and are referred to by number. The key PCBs found on SSFL are Aroclor 1254 and 1260. The analytical method DTSC used analyzed for seven PCB Aroclors and includes the Aroclors found at SSFL. The PCB Aroclors analyzed include:

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242

- Aroclor 1248
- Aroclor 1254
- Aroclor 1260

Laboratory Results for PCBs: All the sample results were non-detect (detection level of 1 ug/kg) and below U.S. EPA residential screening levels (see Table A-3). The PCB Aroclor laboratory results are presented in Table A-8.

PAH Analysis

PAHs are a group of compounds that share a similar chemical structure. Their name describes the chemical similarity, in that they all have polyaromatic hydrocarbon components. The different members of the group of PAHs have individual chemical names. The analytical method analyzes for individual PAHs. The analysis includes the PAHs associated with SSFL. The 16 individual PAHs analyzed include:

- acenaphthene
- benzo(a)anthracene
- benzo(g,h,l)perylene
- dibenzo(a,h)anthracene
- indeno(1,2,3-c,d)pyrene
- pyrene

- acenaphthylene
- benzo(a)pyrene
- benzo(k)fluoranthene
- fluoranthene
- naphthalene

- anthracene
- benzo(b)fluoranthene
- chrysene
- fluorene
- phenanthrene

Laboratory Results for PAHs: None of the samples were found to have concentrations of any PAH analytes above their respective U.S. EPA residential screening levels. PAH laboratory results are presented in Table A-9.

VOC Analysis

In addition, DTSC collected air samples from three locations on November 13 and analyzed them for the presence of 82 individual VOCs. A complete list of the VOCs analyzed can be found in Table A-10. The purpose of the air sampling was to assess the potential for contaminants associated with SSFL to be in the air. The major VOC associated with SSFL is the solvent trichloroethylene.

Laboratory Results for VOCs: The analytical results for 82 individual VOCs in each of three air samples (a total of 246 discrete results) were compared to the U.S. EPA residential screening levels. Trichloroethylene was not detected in any sample. All results for 78 individual VOCs (that is, for 234 samples) were below their respective U.S. EPA residential screening levels. As discussed above, comparison of transient air samples to U.S. EPA residential screening levels are extremely protective of public health, since the screening levels are not single time exposure value, but rather based on the assumption that a person would be breathing air with that concentration of chemical for 26 years. The four VOCs that exceeded their respective screening levels were, acrolein, benzyl chloride, 1,2-dibromoethane, and hexachlor-1,3-butadiene. Neither acrolein or benzyl chloride were found on SSFL and the acrolein values are within the mean ambient air value measured in Simi Valley⁴ and stations in the Los Angeles air basin.

The laboratory VOC results are presented in Table A-10.

⁴ California Air Resources Board Annual Toxics Summary, https://www.arb.ca.gov/adam/toxics/sitepages/acrousimi.html

Dioxin Analysis

Soil and ash samples were also analyzed for dioxins and furans. Dioxins and furans are chemicals that can form when compounds that contain chlorine are burned, and are often created during wildfire events. Chlorinated compounds are used in many products and can be found in such common items as irrigation piping, plastics, and chlorinated solvents in products such as glues, spot removers, spray cleaners, water repellents, spray paints, paint strippers, and automotive products. Chlorinated solvents are also used in many industrial applications. Eleven samples were analyzed for dioxins and furans, and the locations are provided in Table A-11. Two samples were collected on SSFL and nine samples were collected from the surrounding neighborhoods.

Laboratory Results for Dioxins: Of the 11 samples analyzed for dioxin and furans, results of nine samples, including both samples taken at SSFL site, were below the U.S. EPA residential screening levels. Results of the two remaining samples (MVE-LS1 and MVE-LS2), which were both taken off site near residential areas and in relatively close proximity, exceeded the U.S. EPA residential screening levels by two to three times. The specific characteristics of these two soil samples indicate the dioxins measured in these samples resulted from the fire burning chlorinated compounds in the immediate area, and not related to SSFL. The basis for DTSC's statement is that these two discrete soil samples were in relatively close proximity to each other, and both samples indicated elevated levels of a specific dioxin and specific furans (see Table A-12).

All other samples and measurements by DTSC showed no dioxins or furans above screening levels. DTSC's sampling dioxin and furan results are provided in Table A-12.

Analyses and results prepared by other members of the Response Team are summarized below.

Conclusions of DTSC Analyses

Based on DTSC's sampling results discussed above, all the measurements and analyses indicate that no measurable radiation or hazardous materials associated with SSFL contamination were released by the fire. Soil and ash sample results showed no chemical results emanating from SSFL. The two samples with dioxin above U.S. EPA risk screening levels are proximate to each other and the results suggest a localized source for the dioxins, and not directly related to SSFL. The single lead exceedance is located far from SSFL and the lack of spatial continuity and distribution does not allow the single lead result to be tied back to SSFL.

DTSC did not find any data that would indicate a release of contaminants from SSFL as a result of the fire, or a risk other than the risks normally posed by wildfires and wildfire smoke. All evaluations showed no off-site impacts other than those normally resulting from wildfires.

Other Agencies' Sampling and Monitoring Activities

In addition to DTSC, other members of the Response Team also took measurements and analyzed samples. The Response Team took measurements and samples for radiation and hazardous compounds from November 11 to 14 on the SSFL site and off site, primarily in Bell Canyon, although sampling also occurred in Calabasas. LACDPH's Radiation Management Program staff also conducted air monitoring at Fire Station 75 and Fire Station 106 in Box Canyon.

Although no elevated radiation levels had been detected, in an abundance of caution U.S. EPA placed radiation monitoring units in off-site locations in Chatsworth, Canoga Park, Agoura Hills, and Thousand Oaks, as well as monitoring at SSFL and at the Incident Command Post in Camarillo. U.S. EPA did not measure any elevated readings above background levels.

Response Team members who conducted sampling and monitoring and who provided their data to DTSC for this report are:

- U.S. EPA Emergency Response Team
- DOE Radiologic Assistance Program from LLNL
- 9th CST of the California National Guard
- LACDPH RMP and other agencies from the counties of Los Angeles and Ventura

The Response Team worked closely with the California Office of Emergency Services Incident Command Post, local law enforcement, and air quality agencies. In addition, the SSFL DOE-Energy Technology Engineering Center provided SSFL air sample data collected during the fire.

The Response Team collected both air and soil/ash samples. Eight soil/ash sample locations were located on SSFL. Twenty-five soil/ash locations were sampled in communities around SSFL. See Appendices C, D, and E for Response Team sampling results. Team members also used handheld devices to assess whether contaminants not normally associated with fires were present at SSFL and in communities around the site. Table 2 (next page) summarizes the number and types of samples collected by each Response Team member.

Air Samples **Air Sample Locations** Soil/Ash Agency (Chemical) (Radiological) Samples **DTSC** 0 33 DOE RAP Team 0 14 19 (analysis by LLNL) (6 locations on SSFL, 8 locations in the communities) 9th CST 6 6 0 LA CDPH-RMP 2 0 11 U.S. EPA Radiological 0 6 locations 0 **Emergency Response** Team 9 Multiple samples were Total 69 taken at the same location

Table 2: Response Team Samples

In addition, air samplers located adjacent to DOE buildings in SSFL's Area IV, collected data on radionuclide levels during the fire. The results collected during the fire did not exceed air sample results from before the fire. (Appendix F). The U.S. EPA radiological air sample measurements are equivalent to the exposure rate measurements at the background location, and exposure rates to the public were at background levels.

Several of the Response Team members are still waiting for validated laboratory data. In the interest of producing this interim report, the Response Team members have provided summaries and conclusions based on their available, validated data. These summaries appear below as they were provided by the Response Team members. Once all their data has been validated and received, DTSC will update this report to incorporate the data and issue a final report.

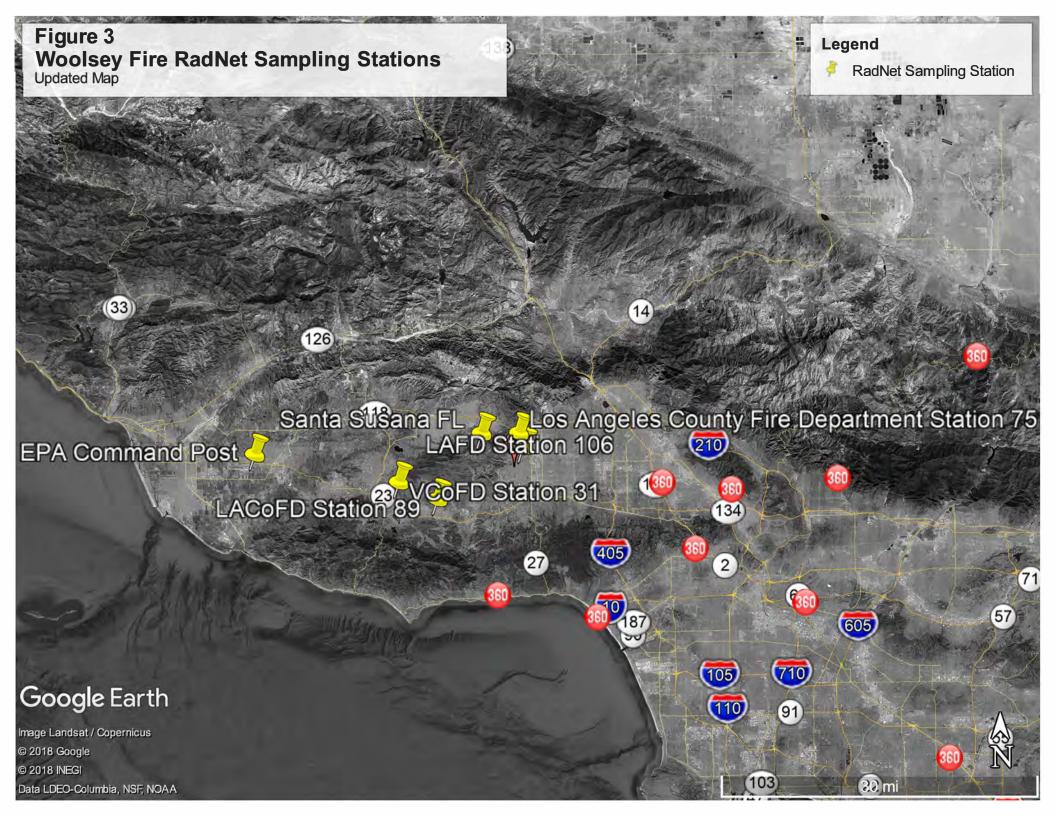
U.S. Environmental Protection Agency

CalEPA and DTSC requested U.S. EPA support to help DTSC collect air samples in conjunction with the Woolsey Fire. U.S. EPA set out six RadNet air sampling stations, shown on Figure 3. The locations include one sampler on SSFL and five in the neighboring communities. The U.S. EPA conclusion are below.

The purpose of this memo is to transmit our findings pertaining to the gamma exposure rate monitoring conducted by U.S. EPA's Radiological Emergency Response Team (RERT) between November 14 and 24. U.S. EPA's review does not account for the air filter sampling. Data from that activity is under active analysis and review by U.S. EPA selected laboratory. Below we have provided summaries of monitoring methods, data assessment, and review findings for the gamma exposure rate monitoring.

Methods

On November 14, 2018, five RadNet deployables were set up at five locations in Ventura and Los Angeles counties, including one background location and four locations downwind of SSFL. The background location was established at the Incident Command Post and the remaining locations were at fire stations selected by the state of



California. All five deployables were set up to collect exposure rate data every 15 minutes using Geiger-Mueller probes and to collect four-inch air filter samples using a high-volume air sampler. Originally, monitoring and sampling were to be performed over 12 hours, but due to logistical constraints sampling and monitoring periods were extended to one day. Monitoring data from the deployables was submitted to the National Center for Radiation Field Operations for quality control review. Following that review, the findings and data were submitted to U.S. EPA Region 9 (Region 9). Due to technical issues with exposure rate monitoring (see below), RERT field teams replaced all five deployables with high-pressure ion chambers (HPIC) and high-volume air samplers on November 18. The sampling periods for the HPICs and air samplers remained the same. Monitoring data from the HPICs was reviewed in the field, and following review the data was submitted to Region 9. Quality Control reviews are documented in the field log books.

HPICs can detect down to background rates of approximately 6.7 μ R/hr, based on most current calibration files for RERT HPICs. Detection limits are similar for the Geiger-Mueller DOE probes. The operation of these instruments was performed in accordance with National Center for Radiation Field Operations standard operating procedures and guides.

Data Assessment

All data sets were evaluated for data representativeness and quality. Upon our consideration of the representativeness and quality, we excluded the following RadNet gamma exposure rate monitoring data sets:

- All monitoring data from Data Rate Monitors (DRMs) 14 and 15, because data was not representative of the sampling period.
- All monitoring data from DRM 16, except for data between November 16-17.
 Data was not representative and/or had significant error codes reported for the other dates.

All other data sets from the RadNet deployables, specifically DRMs 35 and 36, were considered acceptable. HPIC data reviews to date have found no data representativeness or data quality issues.

Preliminary Findings

U.S. EPA's review of the data shows that exposure rate measurements collected in Ventura and Los Angeles counties are equivalent to the exposure rate measurements at the background location. Thus, exposure rates to the public are at background levels.

U.S. Department of Energy/National Nuclear Security Administration, Office of Nuclear Incident Response

On November 9, DTSC requested assistance from DOE's Office of Nuclear Incident Response, through Region 7 of that office's RAP Team. The team was to assess the

potential for transport of residual radiological contamination from SSFL to the surrounding community due to the Woolsey Fire. This request was in response to heightened concern expressed by that community on social media. A Response Team led by the Regional Program Manager was dispatched in support of DTSC. Based on an initial assessment of state needs, additional technical support was activated to support the deployed team.

On November 9, support was provided in the form of a predictive model of the potential for off-site transport of materials due to the fire. The modeling results showed that if any migration had occurred, the maximum off-site concentrations would be over 1 million times lower than U.S. EPA levels of concern.

To validate the results predicted by the model, DTSC identified areas within the SSFL site boundary (on site) and in the surrounding community (off site) at which environmental measurements and samples for further analysis should be taken. By November 13, the RAP team had taken over 50 environmental measurements assessing ambient radiation levels while also collecting samples of soil materials and airborne materials all at 12 discrete locations (six on site and six off site). After a review, it was determined that all results were consistent with natural background radiation levels.

In addition, 14 on-site samples (six air and eight soil samples) and 17 off-site samples (eight air and nine soil) were collected.

All samples were analyzed at LLNL. Sample and measurement results were reviewed and assessed by scientists at LLNL, Sandia National Laboratory, and Remote Sensing Laboratory. Results for all but two of the samples were consistent with naturally occurring radioactive materials. One sample taken on site showed trace quantities of cesium 137, which has been assessed as consistent with what would be found due to low levels of worldwide fallout from atmospheric weapons testing. A second sample taken off site in the Bell Canyon area showed slightly elevated alpha and beta activity relative to other off-site samples. Gamma spectroscopy of this sample showed nothing that could be attributed to residual radioactivity from the Santa Susanna site, but reanalysis of this sample confirmed the slight elevation in gross alpha and beta activity. Follow-up analysis performed at LLNL and additional sampling conducted by LACDPH-RMP in this location indicate the presence of elevated levels of naturally occuring radioactive materials.

U.S. Department of Energy, Energy Technology Engineering Center (ETEC) SSFL Air Sampling Results

The DOE-ETEC collects air samples for radionuclides for their portion of SSFL. Air monitoring results from DOE stations are normally produced and published on a quarterly basis. DOE provided a short report that provides some of the data generated since the last quarterly report, and prior to the fire event on November 8. (Appendix F)

The samples are analyzed on-site for gross alpha and gross beta radioactivity. The gross alpha and gross beta data sum the contribution from all alpha and beta-emitting radionuclides. Data for individual radionuclides is obtained by sending the samples to an off-site laboratory. Because the data for individual radionuclides is not yet available, the results of the gross alpha and gross beta samples were compared to the individual radionuclides with the lowest environmental effluent limits as listed in the U.S. Nuclear Regulatory Commission's (USNRC) Standards for Protection from Radiation. The data was compared to the USNRC's effluent limits because they are independent from the U.S. Department of Energy.

On November 21, the ETEC reported that all sample results were less than their analytical minimum detectable concentration (MDC).

9th Civil Support Team, California National Guard

CalEPA and DTSC asked the 9th Civil Support Team (9th CST) to provide support to DTSC to collect air and soil samples in conjunction with U.S. DOE's off-site radiation sampling efforts at Bell Canyon. The 9th CST deployed a mobile monitoring unit equipped with instruments that would provide real-time or nearly real-time analytical results for VOCs. Samples were also sent to LLNL for analysis.

Air and soil samples were analyzed using gas chromatography-mass spectrometry and Honeywell MultiRae Pro detectors. The FLIR Instantaneous Biological Analyzer and Collector 1 and Research International's Smart Air Sampler System 3100 were used for filtered air analysis.

The 9th CST took six air and soil samples from six locations. One air sample and soil sample were collected on November 11 and five samples were collected on November 13. Evacuations due to the fire did not allow for sampling on November 12.

The sampling locations included:

Bell Canyon Road, West Hills: 34.20612 / -118.66960 (latitude/longitude)
Saddlebow Road, Bell Canyon: 34.21525 / -118.70973 (latitude/longitude)
Coolwater Road, Bell Canyon: 34.21486 / -118.67586 (latitude/longitude)
Wagon Lane, Bell Canyon: 34.21363 / -118.68617 (latitude/longitude)
Hackamore Lane, Bell Canyon: 34.20920 / -118.68182 (latitude/longitude)

The 9th CST reported that the analysis for the air and soil samples showed no significant findings, and concluded that there are no expected current or future health effects relating to the findings provided by the analytical laboratory.

LA County Department of Public Health Radiation Management

The Los Angeles County Department of Public Health's Radiation Management staff conducted air monitoring at Fire Station 75 and Fire Station 106 in Box Canyon.

The Los Angeles County Radiation Management program, under the direction and authority of the CDPH Radiologic Health Branch, conducted a radiation survey in Bell Canyon in response to an elevated reading obtained from sampling and concerns about radiation associated with the SSFL decommissioning which may have been affected by the fire.

Sampling was performed between 10:30 a.m. and 1:30 p.m. November 19 at or near the Saddlebow Road location for the RAP Team's initial elevated radiation reading. Sampling consisted of the following:

- 1. Eight locations were topsoil samples, collected from 0 to 1" (3 locations were background samples)
- Eight locations (same as topsoil locations) subsurface samples, collected from 1 to 6" (3 locations were background samples)
- 3. One ash sample
- 4. Survey measurements at all sample locations using alpha, beta, and low energy gamma probes
- 5. Nuclide identification using a lanthanum bromide (LaBr) detector in each sample location
- 6. Additional high-performance germanium (HPGe) nuclide identification in the vicinity of sampling locations

Collected samples were placed on the HPGe detector for initial screening and then prepared and shipped for overnight delivery to CDPH's State Drinking Water and Radiation Laboratory Branch for a full analysis. Laboratory results are expected to be available in December.

All nuclide identification on site in situ and sample screening indicate Naturally Occurring Radioactive Material (NORM) [Ra-226, K-40]. NORM is not regulated and is related to the natural topography of the land. The radiation levels are low, naturally occurring, and safe for the community. All preliminary data from the Bell Canyon sampling indicates that no radiation has migrated from SSFL to the Bell Canyon area.

Los Angeles County Regional Water Quality Control Board/Stormwater Management Actions

The Los Angeles Regional Water Quality Control Board (LARWQCB) has the authority to oversee the stormwater management and control at SSFL. The stormwater at SSFL is regulated under an LARWQCB Order (No. R4-2015-0033) and a stormwater discharge permit (National Pollutant Discharge Elimination System or NPDES Permit No. CA0001309).

On November 20, DTSC requested that Boeing, DOE, and NASA ensure the use of all appropriate measures to manage any potential soil and sediment migration from surface runoff water due to rain to ensure the protection of public health. DTSC was also in contact with LARWQCB. LARWQCB staff inspected SSFL on November 20 and

determined the Woolsey Fire damaged the piping used to transport collected stormwater around the SSFL site to the detention ponds. In addition, the Woolsey Fire damaged portions of the SSFL stormwater treatment system.

On November 21, LARWQCB issued a letter of concurrence with Boeing to take immediate short-term actions to prevent ash, debris, and stormwater from leaving SSFL site and to ensure that samples are collected in the event there is a discharge at any of the outfall sampling locations. The immediate response includes short-term actions such as:

- Removal of ash and sediment using a vacuum truck
- Installation of best management practices throughout SSFL, such as fiber rolls, hay bales, jute-style erosion control mats, and application of hydromulching to slopes

On November 29, Boeing reported that it has removed ash from the stormwater outfalls, removed burnt pipes, fabricated and replaced the pipes, repaired damaged equipment, and brought temporary generators and pumps on site to manage stormwater. LARWQCB is also working with Boeing to require further long-term actions under their regulatory oversight.



Table A-1
DTSC Sample Name-Locations and Media Table
DTSC Woolsey Fire Investigation Activities
Ventura and Los Angeles Counties, California

Camala N	Landin	Me	edia Samp	led	Field Screeni		
Sample Name	Location	Soil	Ash	Air	XRF ¹	Radiation ²	Sample Date/Time
SSFL-LS-1	SSFL		Х		Х		11/11/18 0928
SSFL-LS-2	SSFL	Х			Х	Х	11/13/18 0825
SSFL-LS-3	SSFL	Х			Х	Х	11/13/18 1020
SSFL-LS-4	SSFL	Х			Х	Х	11/13/18 1120
SSFL-LS-5	SSFL	Х			Х	Х	11/13/18 1140
SSFL-LS-6	SSFL	Х			Х	Х	11/13/18 1155
SSFL-LS-7	SSFL	Х			х	Х	11/13/18 1237
SSFL-LS-8	SSFL	Х			Х	Х	11/13/18 1305
WCR-LS-1	LA County (Woolsey Canyon)	Х			Х	Х	11/13/18 1335
AIR-LS-01	Ventura County (Bell Canyon)			Х			11/12/18 1102
BC-LM-15	Ventura County (Bell Canyon)	Х			Х	Х	11/13/18 0802
BC-LM-16	Ventura County (Bell Canyon)		Х		Х	Х	11/13/18 0920
BC-LM-17	Ventura County (Bell Canyon)		Х		Х	Х	11/13/18 1028
BCP-LS-10	Ventura County (Bell Canyon)	Х			Х	Х	11/12/18 1102
SCF-2500	Ventura County (Bell Canyon)	Х				Х	11/13/18 1015
SCF-30474	Ventura County (Bell Canyon)	Х				Х	11/11/18 1800
SCF-30476	Ventura County (Bell Canyon)	Х				Х	11/13/18 0815
SCF-30488	Ventura County (Bell Canyon)	Х				Х	11/13/18 0918
ACD-LS-6	Calabasas	Х			Х	Х	11/11/18 1615
AEW-LS-7	Calabasas	Х			Х	Х	11/11/18 1643
AEW-LS-8	Calabasas	Х			Х	Х	11/11/18 1652
JBA-LS-9	Calabasas	Х			Х	Х	11/11/18 1718
LHE-LS-5	Calabasas	Х			Х	Х	11/11/18 1550
MVE-LS-1	Calabasas	Х			Х		11/11/18 1412
MVE-LS-2	Calabasas	Х			Х	Х	11/11/18 1445
MVE-LS-3	Calabasas	Х			х	х	11/11/18 1515
MVE-LS-4	Calabasas		Х		х	х	11/11/18 1518
DP-LS-14	Ventura County (Oak Park)	Х			Х	Х	11/12/18 1700
AIR-LS-02	Agoura Hills			Х			11/12/18 1500
AIR-LS-03	Agoura Hills			Х			11/12/18 1610
OAP-LS-11	Agoura Hills	Х			х	х	11/12/18 1500
OAP-LS-12	Agoura Hills		Х		Х	х	11/12/18 1500
PCC-LS-13	Agoura Hills	Х			х	х	11/12/18 1610
COM-LM-1	Malibu		Х		Х	х	11/14/18 1254
COM-LM-2	Malibu		Х		Х	Х	11/14/18 1335
COM-LM-3	Malibu		Х		Х	Х	11/14/18 1448
	Total	25	8	3	29	31	

¹ XRF - X-ray Fluorescence (metals analysis)

² Radiation measured using Ludlum Model 19 gamma microRem meter

Table A-2
Co-located Sample Locations
DTSC Woolsey Fire Investigation Activities
Ventura and Los Angeles Counties, California

Location	General Location/Address	DOE RAP ¹	DTSC	9 th CST	Sample time/Date ²
1	SSFL	31930/30263/31929	SSFL-LS-6	No Sample	11:55am/ 11/13/2018
2	SSFL	SCF-30465/SCF-30467/30466	SSFL-LS-5	No Sample	11:40am/ 11/13/2018
3	SSFL	SCF-30462/SCF-30463/SCF-30464	SSFL-LS-2	No Sample	8:25am/ 11/13/18
4	SSFL	SCF-30444	SSFL-LS-1	No Sample	9:28am/ 11/11/2018
5	Ventura County (Bell Canyon)	SCF-30460/SCF-30459/SCF-30473	SCF-30474	B239739 S/B239739 L	6:00pm/ 11/11/2018
6	Ventura County (Bell Canyon)	SCF-01430	BC-LM-15	B234501 S/B234501 A	8:02am/ 11/13/18
7	Ventura County (Bell Canyon)	SCF-30487	SCF-30476	B239374 S/B239374 A	8:15am/ 11/13/18
8	Ventura County (Bell Canyon)	SCF-30472/SCF-30469	BC-LM-16	B234506 S/B234506 A	9:20am/ 11/13/18
9	Ventura County (Bell Canyon)	No Sample	SCF-30488	B234502 S/B234502 A	9:18am/ 11/13/18
10	Ventura County (Bell Canyon)	SCF-30471/SCF01370/SCF-30489	SCF-2500	B233602 S/B233602 A	10:15am/ 11/13/18
11	Ventura County (Bell Canyon)	SCF-01337/SCF-30249	BC-LM-17	No Sample	10:28am/ 11/13/18
12 ³	Calabasas	SCF-30470	MVE-LS-2	No Sample	2:45pm/ 11/11/18

Where there are co-located samples from one agency, the sample names are displayed here as 'Sample 1/Sample 2'

etc. All sample dates and times were recorded by DTSC.

Samples are approximately 1,000 feet apart and may not represent co-located samples for the purposes of this table.

Table A-3

U.S. EPA Regional Residential Screening Levels for Chemicals

https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables

DTSC Woolsey Fire Investigation Activities Ventura and Los Angeles Counties, California

N	letals
Chemical	RSL (mg/kg)
Antimony-Sb	31
Arsenic ¹ -As	27
Barium-Ba	15000
Beryllium-Be	160
Cadmium-Cd	71
Chromium ² -Cr	120000
Cobalt-Co	23
Copper-Cu	3100
Lead-Pb	400
Molybdenum-Mo	390
Nickel-Ni	820
Selenium-Se	390
Silver-Ag	390
Thallium ³ -Tl	0.78
Vanadium-V	390
Zinc-Zn	23000
Mercury - Hg	11

PA	Hs
Chemical	RSL (mg/kg)
Acenaphthene	3600
Acenaphthylene	
Anthracene	18000
Benzo(a)anthracene	1.1
Benzo(a)pyrene	11
Benzo(b)fluoranthene	0.42
Benzo(g,h,l)perylene	
Benzo(k)fluoranthene	11
Chrysene	110
Dibenzo(a,h)anthracene	0.11
Fluoranthene	2400
Fluorene	2400
Indeno(1,2,3-c,d)pyrene	1.1
Naphthalene	3.8
Phenanthrene	
Pyrene	1800

- 1 Arsenic- Local background used instead of RSL (0.68)
- 2 Based on Chromium³⁺
- 3 Based on lower valence state

Poly-chlorinated	l Biphenyl (PCB)
Aroclor	RSL (ug/kg)
Aroclor 1016	4100
Aroclor 1221	200
Aroclor 1232	170
Aroclor 1242	230
Aroclor 1248	230
Aroclor 1254	240
Aroclor 1260	240

Table A-4
Radiation Meter (Ludlum model 19) Measurements
DTSC Woolsey Fire Investigation Activities
Ventura and Los Angeles Counties, California

Sample Location	Location	Ludlum Reading (in µrem/hr)
SSFL-LS-1	SSFL	N/A
SSFL-LS-2	SSFL	15-18
SSFL-LS-3	SSFL	15-18
SSFL-LS-4	SSFL	15-18
SSFL-LS-5	SSFL	15-18
SSFL-LS-6	SSFL	15-18
SSFL-LS-7	SSFL	15-18
SSFL-LS-8	SSFL	20
WCR-LS-1	LA County (Woolsey Canyon)	15-20
AIR-LS-01	Ventura County (Bell Canyon)	N/A
BC-LM-15	Ventura County (Bell Canyon)	40
BC-LM-16	Ventura County (Bell Canyon)	40
BC-LM-17	Ventura County (Bell Canyon)	30
BCP-LS-10	Ventura County (Bell Canyon)	16
SCF-2500	Ventura County (Bell Canyon)	30
SCF-30474	Ventura County (Bell Canyon)	10
SCF-30476	Ventura County (Bell Canyon)	30
SCF-30488	Ventura County (Bell Canyon)	30
ACD-LS-6	Calabasas	18
AEW-LS-7	Calabasas	15-16
AEW-LS-8	Calabasas	13
JBA-LS-9	Calabasas	14
LHE-LS-5	Calabasas	13
MVE-LS-1	Calabasas	N/A
MVE-LS-2	Calabasas	15-25
MVE-LS-3	Calabasas	13-15
MVE-LS-4	Calabasas	13-15
DP-LS-14	Ventura County (Oak Park)	12
AIR-LS-02	Agoura Hills	N/A
AIR-LS-03	Agoura Hills	N/A
OAP-LS-11	Agoura Hills	12
OAP-LS-12	Agoura Hills	13
PCC-LS-13	Agoura Hills	14
COM-LM-1	Malibu	14
COM-LM-2	Malibu	10
COM-LM-3	Malibu	12

Table A-5 XRF Results Summary DTSC Woolsey Fire Investigation Activities Ventura and Los Angeles Counties, California

	Sample																			
SAMPLE ID	Date/Time	Units	Sb	As ¹	Ba	Ве	Cd	Cr ²	Co	Cu	Pb ³	Мо	Ni	Se	Ag	Ti	v	Zn	Hg	Duration
RSL ⁴	Date/ IIIIe		31			160		120.000	23	3100	80	390	820	390		0.78	390	23000		Duration
	11/11/0010 11 10	ppm	< LOD	27 < LOD	15000		71 LOD	-,	< LOD				< LOD	< LOD		0.78	< LOD		11 < LOD	20.57
test	11/11/2018 11:10	ppm	< LOD	< LOD			LOD	74.33 < LOD	< LOD	50.69 39.82	19.36 11.89	8.8 5.25	< LOD	< LOD			< LOD	379.21 386.74	< LOD	38.57 26.12
aewls8	11/11/2018 18:14	ppm																		
jbals9	11/11/2018 18:41	ppm	< LOD	13.67			LOD	< LOD	158.9	48.43	13.38	40.22	48.62	7			< LOD	387.78	< LOD	30.5
jbals9	11/11/2018 18:46	ppm	< LOD	11.66			LOD	< LOD	< LOD	30.46	9.79	< LOD	86.67	< LOD			< LOD	399.57	< LOD	14.09
bcpls10	11/12/2018 12:36	ppm	< LOD	17.34			LOD	< LOD	< LOD	< LOD	< LOD	< LOD	< LOD	< LOD			< LOD	408.79	< LOD	21.9
bcpls10	11/12/2018 12:38	ppm	< LOD	13.61			LOD	< LOD	< LOD	24.6	21.67	3.68	104.78	< LOD			< LOD	368.04	< LOD	22.08
bcpls10	11/12/2018 12:39	ppm	< LOD	12.08			LOD	< LOD	< LOD	32.98	22.53	7.29	< LOD	< LOD			< LOD	401.3	< LOD	21.64
bcpls10	11/12/2018 12:39	ppm	< LOD	16.52			LOD	< LOD	< LOD	33.33	16.11	< LOD	46.68	< LOD	_		< LOD	388.58	< LOD	21.27
bcpls10	11/12/2018 12:40	ppm	< LOD	12.89			LOD	< LOD	< LOD	22.32	15.15	< LOD	44.2	< LOD			< LOD	396.5	< LOD	22.01
bcpls10	11/12/2018 12:41	ppm	< LOD	8.63			LOD	< LOD	< LOD	21.91	15.03	7.28	57.29	< LOD			< LOD	393.81	< LOD	21.24
bcpls10	11/12/2018 12:42	ppm	< LOD	< LOD			LOD	< LOD	< LOD	< LOD	14.62	< LOD	78.52	< LOD			< LOD	383.57	< LOD	22.44
oapls11	11/12/2018 16:53	ppm	< LOD	< LOD			LOD	< LOD	< LOD	30.29	11.8	11.93	49.96	< LOD			< LOD	381.07	< LOD	24.89
oapls11	11/12/2018 16:55	ppm	< LOD	< LOD			LOD	< LOD	< LOD	35.99	11.41	11.23	37.37	< LOD			< LOD	411.15	< LOD	23.71
oapls11	11/12/2018 16:55	ppm	< LOD	7.25			LOD	< LOD	< LOD	26.57	17.87	13.88	< LOD	< LOD			< LOD	396.89	< LOD	23.72
oapls11	11/12/2018 16:56	ppm	< LOD	7.97			LOD	< LOD	< LOD	26.71	14.08	11.23	< LOD	< LOD			< LOD	405.65	< LOD	25.85
oapls11	11/12/2018 16:57	ppm	< LOD	8.25			LOD	< LOD	< LOD	23.52	16.32	12.05	< LOD	< LOD	< LOD		< LOD	394.13	< LOD	22.95
oapls12	11/12/2018 17:00	ppm	< LOD	< LOD		<	LOD	< LOD	< LOD	70.29	< LOD	8.75	< LOD	< LOD	< LOD		< LOD	718.57	< LOD	23.21
oapls12	11/12/2018 17:04	ppm	< LOD	< LOD		<	LOD	< LOD	< LOD	< LOD	< LOD	4.1	< LOD	< LOD	< LOD		< LOD	820.39	< LOD	23.27
pccls13	11/12/2018 17:56	ppm	< LOD	8.72		<	LOD	< LOD	< LOD	21.65	9.98	11.55	63.78	< LOD	< LOD		< LOD	387.78	< LOD	30.13
pccls13	11/12/2018 17:58	ppm	< LOD	14.95		<	LOD	< LOD	< LOD	20.55	11.59	11.16	64.26	< LOD	< LOD		< LOD	384.55	< LOD	18.55
pccls13	11/12/2018 17:59	ppm	< LOD	< LOD		<	LOD	< LOD	< LOD	36.8	14.16	< LOD	86.24	< LOD	< LOD		< LOD	388.1	< LOD	12.95
pccls13	11/12/2018 17:59	ppm	< LOD	6.07		<	LOD	< LOD	< LOD	< LOD	9.27	11.49	55.19	< LOD	< LOD		< LOD	406.77	< LOD	25.2
pccls13	11/12/2018 18:00	ppm	< LOD	9.6		<	LOD	< LOD	< LOD	< LOD	15.23	11.99	49.41	< LOD	< LOD		< LOD	390.63	11.2	19.82
pccls13	11/12/2018 18:00	ppm	< LOD	11.83		<	LOD	< LOD	< LOD	36.75	17.08	15.72	63.14	< LOD	< LOD		< LOD	389.42	< LOD	21.57
pccls13	11/12/2018 18:01	ppm	< LOD	12.09		<	LOD	< LOD	< LOD	42.42	8.4	16.79	64.15	< LOD	< LOD		< LOD	386.02	< LOD	21.58
pccls13	11/12/2018 18:01	ppm	< LOD	12		<	LOD	< LOD	< LOD	36.67	9.79	13.28	103.67	5.79	< LOD		< LOD	373.96	< LOD	21.78
pccls13	11/12/2018 18:03	ppm	< LOD	9.09		<	LOD	< LOD	< LOD	32.98	11.84	9.7	83.79	< LOD	< LOD		< LOD	367.28	< LOD	21.61
pccls13	11/12/2018 18:03	ppm	< LOD	< LOD		<	LOD	< LOD	< LOD	32.94	17.05	12.26	54.34	< LOD	< LOD		< LOD	388.92	< LOD	22.11
dpls14	11/12/2018 18:43	ppm	< LOD	9.87		<	LOD	< LOD	< LOD	< LOD	< LOD	< LOD	84.56	< LOD	< LOD		< LOD	388.06	< LOD	23.2
ssflls2	11/13/2018 9:40	ppm	< LOD	< LOD		<	LOD	669.9	238.3	47.42	14.47	5.62	< LOD	< LOD	< LOD		< LOD	375.46	< LOD	31.07
ssflls3	11/13/2018 11:12	ppm	< LOD	< LOD		<	LOD	< LOD	< LOD	18.96	17.46	< LOD	59.89	< LOD	< LOD		< LOD	373.43	< LOD	32.86
ssflls4	11/13/2018 12:37	ppm	< LOD	< LOD		<	LOD	< LOD	< LOD	52.42	25.04	< LOD	< LOD	< LOD	< LOD		< LOD	407.68	< LOD	30.63
ssflls5	11/13/2018 13:12	ppm	< LOD	6.06		<	LOD	< LOD	< LOD	32	17.51	< LOD	29.98	< LOD	< LOD		< LOD	396.71	< LOD	30.05
ssflls6	11/13/2018 13:27	ppm	< LOD	8.46			LOD	< LOD	< LOD	27.19	47.42	< LOD	123.47	< LOD			< LOD	366.15	9.32	30.51
ssflls7	11/13/2018 13:53	ppm	< LOD	6			LOD	< LOD	< LOD	32.06	17.9	2.64	28.91	< LOD			< LOD	359.82	< LOD	30.37
ssflls8	11/13/2018 14:26	ppm	< LOD	6.98			LOD	< LOD	< LOD	33.48	9.43	4.18	24.92	< LOD			< LOD	375.99	< LOD	30.14
wcrls1	11/13/2018 15:02	ppm	< LOD	9.14			LOD	< LOD	172.2	25.31	25.09	5.24	55.81	< LOD			< LOD	387.45	< LOD	30.24
bc-lm-15	11/13/2018 12:06	ppm		9.13					< LOD	24.9	20.2	< LOD	33.17	< LOD				85.46	< LOD	30.3
bc-lm-16	11/13/2018 13:12	ppm		10.52					< LOD	18.65	37.19	4.75	27.69	< LOD				95.61	< LOD	30.03
bc-lm-17	11/13/2018 14:29	ppm		7.04				< LOD	< LOD	77.67	13.4	36.31	45.21	< LOD			< LOD	305.27	< LOD	30.68
comlm1	11/14/2018 16:54	ppm	< LOD	8.93		<	LOD	< LOD	< LOD	139.37	< LOD	9.78	< LOD	< LOD	< LOD		< LOD	434.51	< LOD	37.61
comlm1	11/14/2018 16:58	ppm	< LOD	< LOD			LOD	< LOD	118.6	126.08	13.04	9.42	53.69	< LOD			< LOD	856.35	< LOD	30.51
comlm1	11/14/2018 17:00	ppm	< LOD	< LOD			LOD	< LOD	< LOD	132.7	13.46	10.57	< LOD	< LOD			< LOD	1557.6	< LOD	30.85
comlm1	11/14/2018 17:01	ppm	< LOD	< LOD			LOD	< LOD	140.2	117.69	9.2	9.43	38.01	< LOD			< LOD	859.25	< LOD	30.21
comlm1	11/14/2018 17:03	ppm	< LOD	< LOD			LOD	< LOD	< LOD	150.07	7.53	12.72	27.8	6.62			< LOD	421.6	< LOD	31.03
comlm2	11/14/2018 17:38	ppm	< LOD	< LOD			LOD	< LOD	< LOD	124.05	< LOD	7.39	56.18	< LOD			< LOD	644.83	< LOD	30.44
comlm2	11/14/2018 17:39	ppm	< LOD	< LOD			LOD	< LOD	115.8	96.97	14.22	5.35	68.02	< LOD			< LOD	813.25	< LOD	30.6
comlm2	11/14/2018 17:40	ppm	< LOD	< LOD			LOD	< LOD	< LOD	139.46	6.79	12.26	32.43	< LOD			< LOD	981.89	< LOD	30.04
comlm2	11/14/2018 17:42	ppm	< LOD	< LOD			LOD	< LOD	< LOD	105.69	7.2	6.58	39.44	< LOD			< LOD	974.65	< LOD	30.25
comlm2	11/14/2018 17:45	ppm	< LOD	< LOD			LOD	< LOD	< LOD	129.14	8.21	8.79	38.7		< LOD		< LOD	1281.4	< LOD	30.81
comlm3	11/14/2018 18:52	ppm	< LOD	< LOD			LOD	< LOD	< LOD	120.34	112.69	17.08	< LOD	< LOD			< LOD	409.05	< LOD	31.06
comlm3	11/14/2018 18:53		< LOD	< LOD			LOD	< LOD	< LOD	84	90.76	15.59	39.33	< LOD			< LOD	374.98	< LOD	30.72
		ppm	< LOD	< LOD	-		LOD	< LOD	82.73	115.56	75.33	9.87	79.47	< LOD			< LOD	530.14	< LOD	30.72
comlm3	11/14/2018 18:55	ppm	< LOD	< LOD	-		LOD	< LOD	82.73 < LOD	130.55	181.11	8.24	64.88	< LOD			< LOD	436.25	< LOD	
comlm3	11/14/2018 18:57	ppm												< LOD						30.64
comlm3	11/14/2018 18:58	ppm	< LOD	< LOD		<	LOD	< LOD	< LOD	114.77	144.67	12.73	61.41	< LOD	► LOD		< LOD	527.39	< LOD	30.45

Arsenic-As background used instead of RSL (0.68)
 Based on Cr3+
 U.S. EPA Risk Screening Level is 400ppm. DTSC screening level is 80 ppm.
 RSL - U.S. EPA Risk Screening Level, except for arsenic and lead Barium (Ba), Beryllium (Be), and Thallium (TI) not read by Instrument LOD - Level of Detection Instrument Used - Niton XL3 Analyzer

Table A-6 Metals Laboratory Results DTSC Woolsey Fire Investigation Activites Ventura and Los Angeles Counties, California

Authorization No.: 18SC0045

ECL No(s).: BC00768 - BC00828

ECL No.	BC007	′68-A		BC007	69-A		BC007	70-A		BC007	71-A	BC007	772-A		BC00773-A		
Collector's No.	SSFL-	LS-1		SCF-3	0474		MVE-	LS-1		MVE-	LS-2	MVE-LS-3			MVE-LS-4		
Digestion Date	11/12/	2018		11/12/	2018		11/12/2018			11/12/	2018	11/12/2018			11/12/2018		
Analysis Date	11/12/	2018		11/12/2018			11/12/2018			11/12/	2018	11/12/	/2018		11/12/2018		
Matrix Type	Ash/Soil			Soil/Gravel			So	il		So	il	So	oil		As	h	
Units (mg/kg)	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	D_f Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q
Antimony-Sb	ND	48.1		ND	47.4		ND	49.5		ND	50.0	ND	49.5		ND	50.0	
Arsenic-As	ND	48.1		ND	47.4		13.8	49.5		ND	50.0	ND	49.5		ND	50.0	
Barium-Ba	75.7	48.1		98.0	47.4		166	49.5		144	50.0	170	49.5		292	50.0	
Beryllium-Be	ND	48.1		ND	47.4		ND	49.5		ND	50.0	ND	49.5		ND	50.0	
Cadmium-Cd	ND	48.1		ND	47.4		13.9	49.5		ND	50.0	ND	49.5		ND	50.0	
Chromium-Cr	16.9	48.1		14.0	47.4		38.3	49.5		46.0	50.0	27.4	49.5		35.9	50.0	
Cobalt-Co	ND	48.1		ND	47.4		ND	49.5		ND	50.0	ND	49.5		ND	50.0	
Copper-Cu	10.3	48.1		19.0	47.4		48.1	49.5		36.3	50.0	26.0	49.5		32.6	50.0	
Lead-Pb	ND	48.1		17.3	47.4		ND	49.5		ND	50.0	ND	49.5		ND	50.0	
Molybdenum-Mo	ND	48.1		ND	47.4		15.2	49.5		10.8	50.0	ND	49.5		25.4	50.0	
Nickel-Ni	12.4	48.1		14.9	47.4		59.3	49.5		59.0	50.0	29.3	49.5		48.0	50.0	
Selenium-Se	ND	48.1		ND	47.4		ND	49.5		ND	50.0	ND	49.5		ND	50.0	
Silver-Ag	ND	48.1		ND	47.4		ND	49.5		ND	50.0	ND	49.5		ND	50.0	
Thallium-Tl	ND	48.1		ND	47.4		ND	49.5		ND	50.0	ND	49.5		ND	50.0	
Vanadium-V	27.8	48.1		25.8	47.4		47.1	49.5		42.0	50.0	29.0	49.5		36.7	50.0	
Zinc-Zn	48.2	48.1		58.5	47.4		119	49.5		95.9	50.0	64.4	49.5		84.8	50.0	
Mercury - Hg	0.024	99.7		0.022	94.6		0.052	93.5		0.071	94.6	0.032	93.0		ND	95.8	

Table A-6
Metals Laboratory Results
DTSC Woolsey Fire Investigation Activites
Ventura and Los Angeles Counties, California

ECL No.	BC007	74-A		BC007	75-A		BC007	776-A		BC007	77-A		BC007	78-A		BC007	BC00779-A		
Collector's No.	LHE-I	LS-5		ACD-	LS-6		AEW-	LS-7		AEW-LS-8			JBA-I	_S-9		BCP-L	S-10		
Digestion Date	11/12/2	2018		11/12/	2018		11/12/2018			11/12/2018			11/12/2018			11/13/2018			
Analysis Date	11/12/2	2018		11/12/2018			11/12/2018			11/12/2	2018		11/12/2	2018		11/14/2018			
Matrix Type	Soil			Soil			As	h		So	il		So	i1		Soi	i1		
Units (mg/kg)	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	
Antimony-Sb	ND	50.0		ND	49.8														
Arsenic-As	10.7	50.0		ND	49.8		12.4	49.8											
Barium-Ba	163	50.0		337	49.8		293	49.8		78.2	49.8		133	49.8		112	49.8		
Beryllium-Be	ND	50.0		ND	49.8														
Cadmium-Cd	ND	50.0		ND	49.8														
Chromium-Cr	48.0	50.0		35.0	49.8		22.2	49.8		20.1	49.8		15.1	49.8		25.0	49.8		
Cobalt-Co	10.7	50.0		15.6	49.8		ND	49.8		ND	49.8		11.3	49.8		ND	49.8		
Copper-Cu	60.3	50.0		37.4	49.8		64.9	49.8		22.4	49.8		32.5	49.8		26.1	49.8		
Lead-Pb	11.5	50.0		ND	49.8		13.8	49.8											
Molybdenum-Mo	13.4	50.0		13.0	49.8		12.4	49.8		ND	49.8		24.3	49.8		ND	49.8		
Nickel-Ni	85.2	50.0		40.2	49.8		ND	498		17.7	49.8		26.8	49.8		29.4	49.8		
Selenium-Se	ND	50.0		ND	49.8														
Silver-Ag	ND	50.0		ND	49.8														
Thallium-Tl	ND	50.0		ND	49.8		23.3	49.8											
Vanadium-V	106	50.0		65.4	49.8		37.9	49.8		38.6	49.8		60.8	49.8		36.4	49.8		
Zinc-Zn	132	50.0		83.7	49.8		339	498		88.9	49.8		118	49.8		82.0	49.8		
Mercury - Hg	0.084	92.6		0.056	98.3		0.020	95.9		0.022	94.7		0.028	94.2		0.026	93.9		

Table A-6
Metals Laboratory Results
DTSC Woolsey Fire Investigation Activites
Ventura and Los Angeles Counties, California

ECL No.	BC007	80-A		BC007	′81-A		BC007	782-A		BC007	83-A		BC007	87-A		BC00788-A		
Collector's No.	OAP-L	S-11		OAP-I	LS-12		PCC-I	LS-13		DP-LS-14			SSFL-LS-2			SSFL-LS-3		
Digestion Date	11/13/2	2018		11/13/	2018		11/13/2018			11/13/2018			11/14/2018			11/14/2018		
Analysis Date	11/14/2	2018		11/14/2018			11/14/2018			11/14/2	2018		11/15/2	2018		11/15/2018		
Matrix Type	Soil			Ash			So	il		So	i1		So	i1		Soi	i1	
Units (mg/kg)	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q
Antimony-Sb	ND	49.8		ND	50.0		ND	49.5		ND	49.8		ND	49.3		ND	50.0	
Arsenic-As	ND	49.8		ND	50.0		ND	49.5		ND	49.8		ND	148		ND	50.0	
Barium-Ba	114	49.8		127	200		121	49.5		33.9	49.8		94.8	49.3		77.6	50.0	
Beryllium-Be	ND	49.8		ND	50.0		ND	49.5		ND	49.8		ND	49.3		ND	50.0	
Cadmium-Cd	ND	49.8		ND	50.0		ND	49.5		ND	49.8		ND	49.3		ND	50.0	
Chromium-Cr	25.9	49.8		11.4	50.0		17.7	49.5		21.6	49.8		24.1	49.3		15.0	50.0	
Cobalt-Co	12.5	49.8		ND	50.0		ND	49.5		ND	49.8		ND	49.3		ND	50.0	
Copper-Cu	27.1	49.8		32.7	50.0		17.4	49.5		14.0	49.8		15.3	49.3		ND	50.0	
Lead-Pb	ND	49.8		ND	50.0		ND	49.5		ND	49.8		ND	49.3		ND	50.0	
Molybdenum-Mo	10.7	49.8		ND	50.0		ND	49.5		ND	49.8		ND	49.3		ND	50.0	
Nickel-Ni	37.6	49.8		17.4	50.0		25.9	49.5		20.0	49.8		14.7	49.3		10.3	50.0	
Selenium-Se	ND	49.8		ND	50.0		ND	49.5		ND	49.8		ND	49.3		ND	50.0	
Silver-Ag	ND	49.8		ND	50.0		ND	49.5		ND	49.8		ND	49.3		ND	50.0	
Thallium-Tl	31.9	49.8		ND	200		ND	99.0		ND	49.8		56.6	49.3		73.5	50.0	
Vanadium-V	57.2	49.8		23.5	50.0		58.8	49.5		20.4	49.8		42.8	49.3		27.7	50.0	
Zinc-Zn	84.1	49.8		312	200		47.2	49.5		40.6	49.8		66.0	49.3		46.9	50.0	
Mercury - Hg	0.039	98.9		ND	96.8		0.022	95.1		ND	99.9		0.023	99.0		ND	92.7	

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Metals Laboratory Results
DTSC Woolsey Fire Investigation Activites
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ECL No.	BC00789-A			BC00790-A			BC007	791-A	BC007	92-A	BC007	93-A		BC00794-A				
Collector's No.	SSFL-LS-4			SSFL-LS-5			SSFL-LS-6			SSFL-LS-7			SSFL-LS-8			WCR-LS-1		
Digestion Date	11/14/2018			11/14/2018			11/14/2018			11/14/2018			11/14/2018			11/14/2018		
Analysis Date	11/15/2018			11/15/2018			11/15/2018			11/15/2018			11/15/2018			11/15/2018		
Matrix Type	Soil			Soil			Soil			So	il	Soil			Soil			
Units (mg/kg)	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q
Antimony-Sb	ND	48.8		ND	48.8		ND	47.8		ND	49.5		ND	50.0		ND	49.8	
Arsenic-As	ND	48.8		ND	48.8		ND	47.8		ND	49.5		ND	50.0		ND	49.8	
Barium-Ba	75.0	48.8		87.2	48.8		77.5	47.8		58.4	49.5		76.9	50.0		78.8	49.8	
Beryllium-Be	ND	48.8		ND	48.8		ND	47.8		ND	49.5		ND	50.0		ND	49.8	
Cadmium-Cd	ND	48.8		ND	48.8		ND	47.8		ND	49.5		ND	50.0		ND	49.8	
Chromium-Cr	23.9	48.8		16.0	48.8		27.4	47.8		19.6	49.5		15.2	50.0		20.2	49.8	
Cobalt-Co	ND	48.8		ND	48.8		ND	47.8		ND	49.5		ND	50.0		ND	49.8	
Copper-Cu	15.4	48.8		15.8	48.8		15.8	47.8		10.7	49.5		11.6	50.0		14.6	49.8	
Lead-Pb	21.8	48.8		10.8	48.8		19.9	47.8		14.3	49.5		ND	50.0		13.7	49.8	
Molybdenum-Mo	ND	48.8		ND	48.8		ND	47.8		ND	49.5		ND	50.0		ND	49.8	
Nickel-Ni	14.7	48.8		11.1	48.8		26.5	47.8		12.2	49.5		ND	50.0		15.7	49.8	
Selenium-Se	ND	48.8		ND	48.8		ND	47.8		ND	49.5		ND	50.0		ND	49.8	
Silver-Ag	ND	48.8		ND	48.8		ND	47.8		ND	49.5		ND	50.0		ND	49.8	
Thallium-Tl	60.5	48.8		60.4	48.8		75.5	47.8		59.4	49.5		57.3	50.0		61.7	49.8	
Vanadium-V	29.0	48.8		31.9	48.8		37.3	47.8		25.4	49.5		26.2	50.0		37.7	49.8	
Zinc-Zn	200	48.8		61.5	48.8		76.6	47.8		79.8	49.5		66.3	50.0		81.7	49.8	
Mercury - Hg	0.536	93.5		0.054	92.4		0.027	93.8		ND	93.8		0.026	93.9		ND	93.4	

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Metals Laboratory Results
DTSC Woolsey Fire Investigation Activites
Ventura and Los Angeles Counties, California

ECL No.	BC00795-A			BC00796-A			BC007	⁷ 97-A		BC007	98-A	BC00	799-A		BC00800-A			
Collector's No.	BC-LM-15			BC-LM-16			BC-L	M-17		SCF-30	0488	SCF-3	SCF-30476			SCF-02500		
Digestion Date	11/14/2018			11/14/2018			11/14/2018			11/14/2	2018	11/14/	11/14/2018			11/14/2018		
Analysis Date	11/15/2018			11/15/2018			11/15/2018			11/15/2	2018	11/15/	11/15/2018			11/15/2018		
Matrix Type	Soil			Ash/Soil			Ash/Soil			Soi	1	So	Soil			Ash/Soil		
Units (mg/kg)	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	D _f	Q	Amount	D _f (Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	
Antimony-Sb	ND	48.5		ND	49.5		ND	49.0		ND	48.8	ND	49.3		ND	49.8		
Arsenic-As	ND	48.5		16.02	49.5		ND	147		ND	48.8	ND	49.3		ND	49.8		
Barium-Ba	108	48.5		82.2	49.5		141.6	49.0		56.5	48.8	80.7	49.3		79.8	49.8		
Beryllium-Be	ND	48.5		ND	49.5		ND	49.0		ND	48.8	ND	49.3		ND	49.8		
Cadmium-Cd	ND	48.5		ND	49.5		ND	49.0		ND	48.8	ND	49.3		ND	49.8		
Chromium-Cr	22.8	48.5		13.0	49.5		54.2	49.0		14.5	48.8	20.9	49.3		28.1	49.8		
Cobalt-Co	ND	48.5		ND	49.5		ND	49.0		ND	48.8	ND	49.3		ND	49.8		
Copper-Cu	11.0	48.5		10.5	49.5		41.3	49.0		12.2	48.8	20.0	49.3		20.0	49.8		
Lead-Pb	ND	48.5		12.4	49.5		ND	49.0		ND	48.8	ND	49.3		ND	49.8		
Molybdenum-Mo	ND	48.5		ND	49.5		24.7	49.0		ND	48.8	ND	49.3		ND	49.8		
Nickel-Ni	17.9	48.5		10.0	49.5		71.9	49.0		9.83	48.8	13.4	49.3		19.8	49.8		
Selenium-Se	ND	48.5		ND	49.5		ND	49.0		ND	48.8	ND	49.3		ND	49.8		
Silver-Ag	ND	48.5		ND	49.5		ND	49.0		ND	48.8	ND	49.3		ND	49.8		
Thallium-Tl	70.0	48.5		46.3	49.5		52.9	49.0		35.6	48.8	44.3	49.3		43.7	49.8		
Vanadium-V	27.9	48.5		23.8	49.5		114.2	49.0		22.7	48.8	33.5	49.3		33.0	49.8		
Zinc-Zn	65.1	48.5		70.0	49.5		131.7	49.0		58.3	48.8	62.6	49.3		83.1	49.8		
Mercury - Hg	ND	95.2		0.020	93.8		0.045	95.5		ND	93.4	0.027	97.2		ND	97.7		

Table A-6
Metals Laboratory Results
DTSC Woolsey Fire Investigation Activites
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ECL No.	BC00824-A			BC00825-A			BC00826-A			BC00827-A			BC008			
Collector's No.	COM-LM-1			COM-LM-2			COM-LM-3			1			2			
Digestion Date	11/18/2018			11/18/2018			11/18/2018			11/17/2018			11/17/2018			Reporting
Analysis Date	11/18/2018			11/18/2018			11/18/2018			11/17/2018			11/17/2018			Limit
Matrix Type	Ash			Ash			Ash			Ash			Soil			
Units (mg/kg)	Amount	$D_{\rm f}$	Q													
Antimony-Sb	ND	50.0		ND	50.0		ND	49.5		ND	49.8		ND	48.3		0.2
Arsenic-As	ND	50.0		ND	50.0		ND	49.5		ND	49.8		ND	48.3		0.2
Barium-Ba	139	250		198	50.0		102	248		224	49.8		166	48.3		0.2
Beryllium-Be	ND	50.0		ND	50.0		ND	49.5		ND	49.8		ND	48.3		0.04
Cadmium-Cd	ND	50.0		ND	50.0		ND	49.5		ND	49.8		ND	48.3		0.2
Chromium-Cr	12.0	50.0		23.3	50.0		15.1	49.5		17.6	49.8		21.3	48.3		0.2
Cobalt-Co	ND	50.0		12.6	50.0		ND	49.5		ND	49.8		11.7	48.3		0.2
Copper-Cu	78.5	50.0		78.0	50.0		43.9	49.5		27.8	49.8		23.0	48.3		0.2
Lead-Pb	ND	50.0		ND	50.0		87.2	248		10.4	49.8		19.2	48.3		0.2
Molybdenum-Mo	ND	50.0		ND	50.0		ND	49.5		ND	49.8		ND	48.3		0.2
Nickel-Ni	16.2	50.0		51.1	50.0		25.8	49.5		15.0	49.8		16.7	48.3		0.2
Selenium-Se	ND	50.0		ND	50.0		ND	49.5		ND	49.8		ND	48.3		0.2
Silver-Ag	ND	50.0		ND	50.0		ND	49.5		ND	49.8		ND	48.3		0.2
Thallium-Tl	26.7	50.0		22.8	50.0		16.8	49.5		ND	49.8		ND	48.3		0.2
Vanadium-V	27.9	50.0		35.3	50.0		23.5	49.5		27.1	49.8		40.5	48.3		0.2
Zinc-Zn	376	250		603	250		181	248		84.1	49.8		59.9	48.3		0.2
Mercury - Hg	ND	96.0		0.026	96.5		ND	96.3		ND	93.0		0.042	98.5		2.0E-04

Table A-7

Metals Waste Extraction Test (WET) Laboratory Results

DTSC Woolsey Fire Investigation Activities

Ventura County and Los Angeles Counties, California

Authorization No.: 18SC0045

ECL No(s).: BC00768 - BC00828

ECL No.	BC007	68-A		BC007	69-A		BC007	70-A		BC007	′71-A		BC007	72-A	BC007	73-A	
Collector's No.	SSFL-	LS-1		SCF-30	0474		MVE-l	LS-1		MVE-	LS-2		MVE-	LS-3	MVE-	LS-4	
Extraction Date	11/12/	2018		11/12/2	2018		11/12/2	2018		11/12/	2018		11/12/2	2018	11/12/	2018	
Analysis Date	11/14/	2018		11/14/2	2018		11/14/2	2018		11/14/	2018		11/14/2	2018	11/14/	2018	
Matrix Type	Leach	nate		Leach	nate		Leach	ate		Leacl	hate		Leach	nate	Leach	nate	
Units (mg/L)	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	D_f Q	Amount	$D_{\rm f}$	Q
Antimony-Sb	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0	
Arsenic-As	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0	
Barium-Ba	2.49	2.0		4.89	2.0		3.13	2.0		1.51	2.0		3.72	2.0	1.45	2.0	
Beryllium-Be	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0	
Cadmium-Cd	ND	2.0		ND	2.0		0.781	2.0		ND	2.0		ND	2.0	ND	2.0	
Chromium-Cr	ND	2.0		ND	2.0		0.515	2.0		0.571	2.0		ND	2.0	ND	2.0	
Cobalt-Co	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0	
Copper-Cu	ND	2.0		ND	2.0		0.640	2.0		ND	2.0		0.474	2.0	ND	2.0	
Lead-Pb	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0	
Molybdenum-Mo	ND	2.0		ND	2.0		ND	2.0		ND	2.0		0.412	2.0	2.41	2.0	
Nickel-Ni	ND	2.0		ND	2.0		1.56	2.0		1.86	2.0		1.00	2.0	0.468	2.0	
Selenium-Se	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0	
Silver-Ag	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0	
Thallium-Tl	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0	
Vanadium-V	ND	2.0		ND	2.0		0.896	2.0		0.637	2.0		0.414	2.0	0.712	2.0	$oxed{L}$
Zinc-Zn	0.487	2.0		1.04	2.0		2.23	2.0		1.77	2.0		2.41	2.0	ND	2.0	
Mercury - Hg	ND	10.0		ND	10.0		ND	10.0		ND	10.0		ND	10.0	ND	10.0	\Box

Table A-7

Metals Waste Extraction Test (WET) Laboratory Results

DTSC Woolsey Fire Investigation Activities

Ventura County and Los Angeles Counties, California

ECL No.	BC007	74-A		BC007	75-A		BC007	76-A		BC007	77-A		BC007	778-A		BC007	79-A	
Collector's No.	LHE-I	LS-5		ACD-I	LS-6		AEW-	LS-7		AEW-	LS-8		JBA-	LS-9		BCP-L	S-10	
Extraction Date	11/12/	2018		11/12/2	2018		11/12/2	2018		11/12/2	2018		11/12/	2018		11/13/	2018	
Analysis Date	11/14/	2018		11/14/2	2018		11/14/2	2018		11/14/2	2018		11/14/	2018		11/16/	2018	
Matrix Type	Leach	nate		Leach	nate		Leach	nate		Leach	nate		Leac	hate		Leacl	hate	
Units (mg/L)	Amount	$D_{\rm f}$	Q	Amount	D_{f}	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q
Antimony-Sb	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Arsenic-As	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Barium-Ba	1.38	2.0		11.6	2.0		0.989	2.0		2.51	2.0		2.64	2.0		4.41	2.0	
Beryllium-Be	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Cadmium-Cd	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Chromium-Cr	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Cobalt-Co	ND	2.0		0.559	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Copper-Cu	0.907	2.0		ND	2.0		ND	2.0		ND	2.0		0.408	2.0		ND	2.0	
Lead-Pb	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Molybdenum-Mo	ND	2.0		ND	2.0		0.815	2.0		ND	2.0		ND	2.0		ND	2.0	
Nickel-Ni	1.61	2.0		0.689	2.0		0.468	2.0		ND	2.0		0.551	2.0		ND	2.0	
Selenium-Se	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Silver-Ag	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Thallium-Tl	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Vanadium-V	0.993	2.0		0.924	2.0		0.574	2.0		ND	2.0		0.627	2.0		ND	2.0	
Zinc-Zn	1.09	2.0		0.436	2.0		0.933	2.0		1.60	2.0		1.92	2.0		0.589	2.0	
Mercury - Hg	ND	10.0		ND	10.0		ND	10.0		ND	10.0		ND	10.0		ND	10.0	

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Metals Waste Extraction Test (WET) Laboratory Results

DTSC Woolsey Fire Investigation Activities

Ventura County and Los Angeles Counties, California

ECL No.	BC007	′80-A		BC007	81-A		BC007	82-A		BC007	83-A	BC007	87-A		BC007	88-A	
Collector's No.	OAP-I	S -11		OAP-L	S-12		PCC-L	S-13		DP-LS	S-14	SSFL-	LS-2		SSFL-	LS-3	
Extraction Date	11/13/	2018		11/13/2	2018		11/13/	2018		11/13/	2018	11/15/2	2018		11/15/2	2018	
Analysis Date	11/16/	2018		11/16/2	2018		11/16/	2018		11/16/	2018	11/18/2	2018		11/18/2	2018	
Matrix Type	Leacl	hate		Leach	nate		Leacl	nate		Leacl	nate	Leach	nate		Leach	nate	
Units (mg/L)	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	D_f Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q
Antimony-Sb	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Arsenic-As	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Barium-Ba	4.14	2.0		ND	2.0		5.75	2.0		1.66	2.0	3.95	2.0		0.933	2.0	
Beryllium-Be	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Cadmium-Cd	0.561	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Chromium-Cr	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Cobalt-Co	0.571	2.0		ND	2.0		ND	2.0		0.486	2.0	ND	2.0		ND	2.0	
Copper-Cu	ND	2.0		0.544	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Lead-Pb	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Molybdenum-Mo	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Nickel-Ni	1.09	2.0		ND	2.0		0.551	2.0		0.753	2.0	ND	2.0		ND	2.0	
Selenium-Se	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Silver-Ag	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Thallium-Tl	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Vanadium-V	1.09	2.0		0.515	2.0		1.26	2.0		ND	2.0	ND	2.0		ND	2.0	
Zinc-Zn	1.64	2.0		ND	2.0		0.564	2.0		0.903	2.0	0.856	2.0		ND	2.0	
Mercury - Hg	ND	10.0		ND	10.0		ND	10.0		ND	10.0	ND	10.0		ND	10.0	

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Metals Waste Extraction Test (WET) Laboratory Results

DTSC Woolsey Fire Investigation Activities

Ventura County and Los Angeles Counties, California

ECL No.	BC007	89-A		BC007	90-A		BC007	91-A		BC007	92-A	BC007	93-A		BC007	94-A	\equiv
Collector's No.	SSFL-			SSFL-			SSFL-			SSFL-		SSFL-1			WCR-		
Extraction Date	11/15/			11/15/2			11/15/2			11/15/		11/15/2			11/15/2		
Analysis Date	11/18/			11/18/2			11/18/2			11/18/		11/18/2			11/18/2		
Matrix Type	Leacl	nate		Leach	nate		Leach	nate		Leacl	nate	Leach	nate		Leach	nate	
Units (mg/L)	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	D_f Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q
Antimony-Sb	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Arsenic-As	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Barium-Ba	3.33	2.0		4.08	2.0		4.23	2.0		2.42	2.0	3.67	2.0		4.39	2.0	
Beryllium-Be	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Cadmium-Cd	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Chromium-Cr	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Cobalt-Co	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Copper-Cu	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Lead-Pb	0.729	2.0		ND	2.0		0.549	2.0		ND	2.0	ND	2.0		ND	2.0	
Molybdenum-Mo	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Nickel-Ni	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Selenium-Se	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Silver-Ag	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Thallium-Tl	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Vanadium-V	ND	2.0		ND	2.0		ND	2.0		ND	2.0	ND	2.0		ND	2.0	
Zinc-Zn	12.1	2.0		1.17	2.0		0.848	2.0		1.82	2.0	1.79	2.0		1.06	2.0	
Mercury - Hg	ND	10.0		ND	10.0		ND	10.0		ND	10.0	ND	10.0		ND	10.0	

Table A-7

Metals Waste Extraction Test (WET) Laboratory Results

DTSC Woolsey Fire Investigation Activities

Ventura County and Los Angeles Counties, California

ECL No.	BC007	95-A		BC007	96-A		BC007	797-A		BC007	798-A		BC007	799-A		BC008	300-A	\neg
Collector's No.	BC-LN	M-15		BC-LN	1 -16		BC-LN	M-17		SCF-3	0488		SCF-3	0476		SCF-0	2500	
Extraction Date	11/15/	2018		11/15/2	2018		11/15/	2018		11/15/	2018		11/15/	2018		11/15/	2018	
Analysis Date	11/18/	2018		11/18/2	2018		11/18/	2018		11/18/	2018		11/18/	2018		11/18/	2018	
Matrix Type	Leacl	nate		Leach	nate		Leacl	hate		Leac	hate		Leac	hate		Leacl	nate	
Units (mg/L)	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	D_{f}	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q
Antimony-Sb	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Arsenic-As	ND	2.0		ND	2.0		0.57	2.0		ND	2.0		ND	2.0		ND	2.0	
Barium-Ba	7.13	2.0		4.43	2.0		4.73	2.0		2.80	2.0		4.34	2.0		3.52	2.0	
Beryllium-Be	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Cadmium-Cd	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Chromium-Cr	ND	2.0		ND	2.0		0.7	2.0		ND	2.0		ND	2.0		ND	2.0	
Cobalt-Co	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Copper-Cu	ND	2.0		ND	2.0		0.446	2.0		ND	2.0		ND	2.0		ND	2.0	
Lead-Pb	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Molybdenum-Mo	ND	2.0		ND	2.0		0.409	2.0		ND	2.0		ND	2.0		ND	2.0	
Nickel-Ni	ND	2.0		ND	2.0		2.20	2.0		ND	2.0		ND	2.0		ND	2.0	
Selenium-Se	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Silver-Ag	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Thallium-Tl	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0	
Vanadium-V	ND	2.0		ND	2.0		5.26	2.0		ND	2.0		ND	2.0		ND	2.0	
Zinc-Zn	ND	2.0		2.22	2.0		2.63	2.0		1.65	2.0		1.67	2.0		1.64	2.0	
Mercury - Hg	ND	10.0		ND	10.0		ND	10.0		ND	10.0		ND	10.0		ND	10.0	

Table A-7

Metals Waste Extraction Test (WET) Laboratory Results

DTSC Woolsey Fire Investigation Activities

Ventura County and Los Angeles Counties, California

ECL No.	BC008	324-A		BC008	25-A		BC008	326-A		BC00	827-A		BC008	328-A		
Collector's No.	COM-	LM-1		COM-l	LM-2		COM-	LM-3					2			
Extraction Date	11/16/	2018		11/16/	2018		11/16/	2018		11/16	/2018		11/16/	/2018		Reporting
Analysis Date	11/19	/208		11/19/	/208		11/19	/208		11/19	9/208		11/19	/208		Limit
Matrix Type	Leac	hate		Leach	nate		Leac	hate		Lead	hate		Leac	hate		
Units (mg/L)	Amount	D_{f}	Q	Amount	D_{f}	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	D_{f}	Q	
Antimony-Sb	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		0.2
Arsenic-As	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		0.2
Barium-Ba	ND	2.0		1.06	2.0		3.86	2.0		11.5	2.0		9.68	2.0		0.2
Beryllium-Be	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		0.04
Cadmium-Cd	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		0.2
Chromium-Cr	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		0.2
Cobalt-Co	ND	2.0		ND	2.0		ND	2.0		0.461	2.0		0.659	2.0		0.2
Copper-Cu	2.41	2.0		0.584	2.0		ND	2.0		ND	2.0		ND	2.0		0.2
Lead-Pb	ND	2.0		ND	2.0		0.561	2.0		ND	2.0		ND	2.0		0.2
Molybdenum-Mo	0.432	2.0		ND	2.0		0.443	2.0		ND	2.0		ND	2.0		0.2
Nickel-Ni	0.566	2.0		1.53	2.0		0.979	2.0		ND	2.0		ND	2.0		0.2
Selenium-Se	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		0.2
Silver-Ag	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		0.2
Thallium-Tl	ND	2.0		ND	2.0		ND	2.0		ND	2.0		ND	2.0		0.2
Vanadium-V	0.778	2.0		0.626	2.0		0.423	2.0		0.562	2.0		ND	2.0		0.2
Zinc-Zn	5.24	2.0		3.85	2.0		7.57	2.0		3.51	2.0		0.971	2.0		0.2
Mercury - Hg	ND	10.0		ND	10.0		ND	10.0		ND	10.0		ND	10.0		2.0E-04

DTSC Woolsey Fire Investigation Activities Ventura County and Los Angeles Counties, California

Authorization No.: 18SC0045

ECL No(s).: BC00768 - BC00828

BC0	0768-A		BC0	0769-A		BC0	0770-A		BC00	0771-A		BC0	0772-A	1	BC00)773-A	
SSF	L-LS-1		SCF	7-30474		MV	E-LS-1		MVI	E-LS-2		MV	E-LS-3	}	MV	E-LS4	
11/1	2/2018		11/1	2/2018		11/1	2/2018		11/1	2/2018		11/1	2/2018	3	11/1	2/2018	
11/1	5/2018		11/1	5/2018		11/1	5/2018		11/1	5/2018		11/1	5/2018	3	11/1:	5/2018	
Asl	h/Soil		Soil	/Gravel		,	Soil		S	Soil		,	Soil		A	Ash	
μ	g/kg		μ	g/kg		μ	g/kg		μ	g/kg		μ	g/kg		μ	g/kg	
Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q
ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
							c	/ D o	0011041								
			1			•	7	∞ Ke	covery								
C	14.2			103			04.7		a	3 3			o2 8		1	09	
	SSFI 11/1 11/1 AsI Amount ND	SSFL-LS-1 11/12/2018 11/15/2018 Ash/Soil μg/kg Amount D _f ND 1.00	11/12/2018 11/15/2018 Ash/Soil μg/kg Amount D _f Q ND 1.00	SSFL-LS-1 SCF	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	SSFL-LS-1 SCF-30474 11/12/2018 11/15/2018 11/15/2018 11/15/2018 Ash/Soil Soil/Gravel μg/kg μg/kg Amount D _f Q Amount D _f Q ND 1.00 ND 1.00 ND	SSFL-LS-1 SCF-30474 MV	SSFL-LS-1 SCF-30474 MVE-LS-1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	SSFL-LS-1 SCF-30474 MVE-LS-1 MVI	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	SSFL-LS-1 SCF-30474 MVE-LS-1 MVE-LS-2 11/12/2018 11/12/2018 11/12/2018 11/12/2018 11/15/2018 11/15/2018 11/15/2018 11/15/2018 Ash/Soil Soil/Gravel Soil Soil μg/kg μg/kg μg/kg μg/kg Amount D _f Q Amount D _f Q Amount D _f Q ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND 1.00 ND ND 1.00 ND 1.00 ND	SSFL-LS-1 SCF-30474 MVE-LS-1 MVE-LS-2 MV	SSFL-LS-1 SCF-30474 MVE-LS-1 MVE-LS-2 MVE-LS-3 11/12/2018 11/12/2018 11/12/2018 11/12/2018 11/12/2018 11/15/2018 11/15/2018 11/15/2018 11/15/2018 11/15/2018 11/15/2018 11/15/2018 11/15/2018 Ash/Soil Soil/Gravel Soil Soil Soil μg/kg μg/kg μg/kg μg/kg μg/kg μg/kg Amount D _f Q A	SSFL-LS-1 SCF-30474 MVE-LS-1 MVE-LS-2 MVE-LS-3 11/12/2018 11/12/2018 11/12/2018 11/12/2018 11/12/2018 11/15/2018 11/15/2018 11/15/2018 11/15/2018 11/15/2018 Ash/Soil Soil/Gravel Soil Soil Soil μg/kg μg/kg μg/kg μg/kg μg/kg μg/kg Amount D _f Q Amount D _f D _f	SSFL-LS-1 SCF-30474 MVE-LS-1 MVE-LS-2 MVE-LS-3 MV	SSFL-LS-1 SCF-30474 MVE-LS-1 MVE-LS-2 MVE-LS-3 MVE-LS-4

ECL No.	BC00)774-A		BC0	0775- <i>A</i>	1	BC0	0776-A		BC00)777-A		BC0	0778-A		BC0	0779-A	
Collector's No.	LHE	LS-5		ACI	D-LS-6		AE	W-LS-7		AEV	V-LS-8		JB <i>A</i>	A-LS-9		BCF	P-LS-10	
Extraction Date	11/12	2/2018		11/1	2/2018	3	11/1	12/2018		11/1:	2/2018		11/1	2/2018		11/1	5/2018	
Analysis Date	11/15	5/2018		11/1	5/2018	3	11/1	15/2018		11/1:	5/2018		11/1	5/2018		11/1	8/2018	
Matrix Type	S	oil		5	Soil			Ash		S	Soil		Ç	Soil		(Soil	
Units	με	g/kg		μ	g/kg		μ	ıg/kg		μ	g/kg		μ	g/kg		μ	g/kg	
Compounds:	Amount	D_{f}	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	D_{f}	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q
Aroclor 1016	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1221	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1232	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1242	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1248	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1254	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1260	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
							9	% Recov	ery									
2,4,5,6-Tetrachloro-m- Xylene		05		1	107			107		1	.06		9	93.4			101	

l-																		$\overline{}$
ECL No.	BC0	0780-A		BC0	0781-A		BC0	0782-A		BC0	0783-A		BC0	0787-A		BC0	0788-A	
Collector's No.	OAI	P-LS-11		OAI	P-LS-12		PCC	C-LS-13		DP-	-LS-14		SSF	L-LS-2		SSF	L-LS-3	
Extraction Date	11/1	5/2018		11/1	5/2018		11/1	5/2018		11/1	5/2018		11/1	7/2018		11/1	7/2018	
Analysis Date	11/1	8/2018		11/1	8/2018		11/1	8/2018		11/1	8/2018		11/1	9/2018		11/1	9/2018	
Matrix Type	,	Soil			Ash			Soil		,	Soil		,	Soil		9	Soil	
Units	μ	g/kg		μ	g/kg		μ	g/kg		μ	g/kg		μ	g/kg		μ	g/kg	
Compounds:	Amount	$D_{\rm f}$	Q	Amount	D_{f}	Q	Amount	D_{f}	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	D_{f}	Q
Aroclor 1016	ND	0.99		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1221	ND	0.99		ND 1.00			ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1232	ND	0.99		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1242	ND	0.99		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1248	ND	0.99		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1254	ND	0.99		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1260	ND	0.99		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
							%	Recover	у									
2,4,5,6-Tetrachloro-m- Xylene		113			101		(98.1			103			110		Ç	99.9	

ECL No.	BC0	0789-A		BC0	0790-A		BC0	0791-A		BC0	0792-A		BC0	0793-A		BC0	0794-A	
Collector's No.	SSF	L-LS-4		SSF	L-LS-5		SSF	L-LS-6		SSF	L-LS-7		SSF	L-LS-8		WC	R-LS-1	
Extraction Date	11/1	7/2018		11/1	7/2018		11/1	7/2018		11/1	7/2018		11/1	7/2018		11/1	7/2018	
Analysis Date	11/1	9/2018		11/1	9/2018		11/1	9/2018		11/1	9/2018		11/1	9/2018		11/1	9/2018	
Matrix Type	Ç	Soil		,	Soil		,	Soil		,	Soil			Soil			Soil	
Units	μ	g/kg		μ	g/kg		μ	g/kg		μ	g/kg		μ	g/kg		μ	g/kg	
Compounds:	Amount	$\mathrm{D_{f}}$	Q	Amount	$\mathrm{D_{f}}$	Q	Amount	$\mathrm{D_{f}}$	Q	Amount	$D_{\rm f}$	Q	Amount	$\mathrm{D_{f}}$	Q	Amount	D_{f}	Q
Aroclor 1016	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1221	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1232	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1242	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1248	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1254	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1260	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
							%	Recover	у									
2,4,5,6-Tetrachloro-m- Xylene		109			110			113			108			102			104	

ECL No.	BC0	0795-A		BC0	0796-A		BC0	0797-A		BC0	0798-A		BC0	0799-A		BC0	0800-A	
Collector's No.	BC-	LM-15		BC-	LM-16		BC-	LM-17		SCF	-30488		SCF	-30476		SCF	-02500	
Extraction Date	11/1	7/2018		11/1	7/2018		11/1	7/2018		11/1	7/2018		11/1	7/2018		11/1	7/2018	
Analysis Date	11/1	9/2018		11/1	9/2018		11/1	9/2018		11/1	9/2018		11/1	9/2018		11/1	9/2018	
Matrix Type		Soil		As	h/Soil		As	h/Soil		,	Soil			Soil		As	h/Soil	
Units	μ	g/kg		μ	g/kg		μ	g/kg		μ	g/kg		μ	g/kg		μ	g/kg	
Compounds:	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	D_{f}	Q	Amount	$D_{\rm f}$	Q	Amount	D_{f}	Q	Amount	$D_{\rm f}$	Q
Aroclor 1016	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1221	ND	1.00		ND 1.00			ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1232	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1242	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1248	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1254	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
Aroclor 1260	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00	
							%	Recover	у									
2,4,5,6-Tetrachloro-m- Xylene	Ç	2.5			105			104			104			110			105	

ECL No.	BC0	0824-A		BC0	0825-A		BC0	0826-A		BC0	0827-A		BC0	0828-A		
Collector's No.	CON	M-LM-1		CON	M-LM-2		CON	<i>I</i>-LM-3			1			2		
Extraction Date	11/1	9/2018		11/1	9/2018		11/1	9/2018		11/1	9/2018		11/1	9/2018		Reporting
Analysis Date	11/2	20/2018		11/2	20/2018		11/2	20/2018		11/2	20/2018		11/2	20/2018		Limit
Matrix Type		Ash			Ash		1	Ash			Ash		,	Soil		
Units	μ	g/kg		μ	g/kg		μ	g/kg		μ	g/kg		μ	g/kg		
Compounds:	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	D_{f}	Q	Amount	50		
Aroclor 1016	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		50
Aroclor 1221	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		50
Aroclor 1232	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		50
Aroclor 1242	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		50
Aroclor 1248	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		50
Aroclor 1254	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		50
Aroclor 1260	ND	1.00		ND	1.00		ND	1.00		ND	1.00		ND	1.00		50
						% F	Recovery									Control Limits
2,4,5,6-Tetrachloro-m-																
Xylene		112			111			106			101			104		70-130%

Authorization No.: 18SC0045 ECL No(s).: BC00768 - BC00828

ECL No.	BC	00768-A		BC0	0769-A		ВС	C00770-A		BC	00771-A		BC	00772-A		BC	00773-A	
Collector's No.	SS	FL-LS-1		SCF	7-30474		M	VE-LS-1		MV	E-LS-2		MV	/E-LS-3		M	VE-LS4	
Extraction Date	11/	15/2018		11/1	15/2018		11	/15/2018		11/	15/2018		11/	15/2018		11/	15/2018	
Analysis Date	11/	17/2018		11/2	21/2018		11	/17/2018		11/	17/2018		11/	17/2018		11/	21/2018	
Matrix Type	A	sh/Soil		Soil	/Gravel			Soil			Soil			Soil			Ash	
Units		μg/kg		μ	g/kg			μg/kg		ļ	ıg/kg		ļ	ıg/kg		!	ug/kg	
Compounds:	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q
Acenaphthene	ND	1.00		ND	3.97		ND	1.00		ND	0.99		ND	0.99		ND	3.94	
Acenaphthylene	33.6	1.00		ND	3.97		12.9	1.00		12.6	0.99		5.12	0.99		ND	3.94	
Anthracene	10.1	1.00		ND	3.97		ND	1.00		ND	0.99		ND	0.99		ND	3.94	
Benzo(a)anthracene	5.20	1.00		ND	3.97		ND	1.00		ND	0.99		ND	0.99		ND	3.94	
Benzo(a)pyrene	ND	1.00		ND	3.97		ND	1.00		ND	0.99		ND	0.99		ND	3.94	
Benzo(b)fluoranthene	5.99	1.00		ND	3.97		ND	1.00		ND	0.99		ND	0.99		ND	3.94	
Benzo(g,h,l)perylene	ND	1.00		ND	3.97		5.51	1.00		ND	0.99		5.90	0.99		ND	3.94	
Benzo(k)fluoranthene	ND	1.00		ND	3.97		ND	1.00		ND	0.99		ND	0.99		ND	3.94	
Chrysene	7.24	1.00		ND	3.97		ND	1.00		ND	0.99		ND	0.99		ND	3.94	
Dibenzo(a,h)anthracene	ND	1.00		ND	3.97		ND	1.00		ND	0.99		ND	0.99		ND	3.94	
Fluoranthene	31.3	1.00		ND	3.97		13.4	1.00		11.8	0.99		7.18	0.99		ND	3.94	
Fluorene	21.7	1.00		24.6	3.97		13.0	1.00		16.4	0.99		9.27	0.99		ND	3.94	
Indeno(1,2,3-c,d)pyrene	ND	1.00		ND	3.97		ND	1.00		ND	0.99		ND	0.99		ND	3.94	
Naphthalene	210	1.00		297	3.97		120	1.00		131	0.99		81.8	0.99		460	3.94	
Phenanthrene	64.3	1.00		77.8	3.97		33.7	1.00		44.8	0.99		25.8	0.99		67.8	3.94	
Pyrene	19.7	1.00		ND	3.97		8.34	1.00		6.21	0.99		ND	0.99		ND	3.94	
Surrogates:	% Recovery																	
2-Fluorobiphenyl		89.2		9	97.1		90.8		91.5				90.3			87.3		
Terphenyl-d14		103			109		108			113				109			91.1	

				<u> </u>						1						<u> </u>		
ECL No.		00774-A			00775-A			00776-A			00777-A			00778-A			00779-A	
Collector's No.	LH	E-LS-5		AC	D-LS-6		AE	W-LS-7		AE	W-LS-8		JB	A-LS-9		BC.	P-LS-10	
Extraction Date	11/	15/2018		11/1	15/2018		11/	15/2018		11/	15/2018		11/	15/2018		11/	16/2018	
Analysis Date	11/	17/2018		11/1	17/2018		11/2	21/2018		11/	22/2018		11/	22/2018		11/	19/2018	
Matrix Type		Soil			Soil			Ash			Soil			Soil			Soil	
Units	ļ	ıg/kg		μ	ıg/kg		ļ	ıg/kg		Ļ	ug/kg			µg/kg		ļ	ıg/kg	
Compounds:	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q
Acenaphthene	ND	0.99		ND	0.99		ND	4.00		ND	3.98		ND	3.96		ND	4.00	
Acenaphthylene	5.63	0.99		ND	0.99		ND	4.00		ND	3.98		ND	3.96		ND	4.00	· ·
Anthracene	ND	0.99		ND	0.99		23.3	4.00		ND	3.98		ND	3.96		ND	4.00	· ·
Benzo(a)anthracene	ND	0.99		ND	0.99		ND	4.00		ND	3.98		ND	3.96		ND	4.00	
Benzo(a)pyrene	ND	0.99		ND	0.99		ND	4.00		23.8	3.98		ND	3.96		ND	4.00	· ·
Benzo(b)fluoranthene	ND	0.99		ND	0.99		ND	4.00		32.2	3.98		ND	3.96		ND	4.00	1
Benzo(g,h,l)perylene	ND	0.99		ND	0.99		ND	4.00		23.0	3.98		ND	3.96		ND	4.00	· ·
Benzo(k)fluoranthene	ND	0.99		ND	0.99		ND	4.00		ND	3.98		ND	3.96		ND	4.00	· ·
Chrysene	ND	0.99		ND	0.99		22.4	4.00		22.7	3.98		ND	3.96		ND	4.00	· ·
Dibenzo(a,h)anthracene	ND	0.99		ND	0.99		ND	4.00		ND	3.98		ND	3.96		ND	4.00	
Fluoranthene	17.4	0.99		5.84	0.99		40.6	4.00		38.5	3.98		ND	3.96		37.0	4.00	
Fluorene	12.3	0.99		11.0	0.99		21.4	4.00		25.9	3.98		ND	3.96		31.2	4.00	
Indeno(1,2,3-c,d)pyrene	ND	0.99		ND	0.99		ND	4.00		ND	3.98		ND	3.96		ND	4.00	· ·
Naphthalene	98.5	0.99		158	0.99		622	4.00		165	3.98		87.4	3.96		155	4.00	1
Phenanthrene	45.1	0.99		29.0	0.99		210	4.00		65.2	3.98		29.1	3.96		146	4.00	
Pyrene	7.33	0.99		ND	0.99		33.6	4.00		42.3	3.98		ND	3.96		ND	4.00	
							% R	ecovery										
2-Fluorobiphenyl 92.7 92.5					92.5		101			102				100			95.1	
Terphenyl-d14		112			114			120			138			136			107	

ECL No.	BC	00780-A		BC	00781-A		BC0	00782-A	Ţ	BC	00783-A		BC	00787-A		BC	00788-A	
Collector's No.	OA	P-LS-11		OA	P-LS-12		PCC	C-LS-13		DP	P-LS-14		SSI	FL-LS-2		SS	FL-LS-3	
Extraction Date	11/	16/2018		11/	16/2018		11/	16/2018		11/	16/2018		11/	17/2018		11/	17/2018	
Analysis Date	11/	19/2018		11/	19/2018		11/	19/2018		11/	19/2018		11/2	20/2018		11/	20/2018	
Matrix Type		Soil			Ash			Soil			Soil			Soil			Soil	
Units	1	ug/kg		ļ	ug/kg		μ	ıg/kg		μ	ıg/kg		ļ	ıg/kg			µg/kg	
Compounds:	Amount	$D_{\rm f}$	Q															
Acenaphthene	ND	4.00		ND	3.99		ND	3.99										
Acenaphthylene	ND	4.00		ND	3.99		ND	3.99										
Anthracene	ND	4.00		ND	3.99		ND	3.99										
Benzo(a)anthracene	32.9	4.00		ND	3.99		ND	3.99										
Benzo(a)pyrene	33.1	4.00		ND	3.99		ND	3.99										
Benzo(b)fluoranthene	49.5	4.00		ND	3.99		ND	3.99										
Benzo(g,h,l)perylene	32.4	4.00		ND	3.99		ND	3.99										
Benzo(k)fluoranthene	22.2	4.00		ND	3.99		ND	3.99										
Chrysene	47.5	4.00		ND	3.99		ND	3.99										
Dibenzo(a,h)anthracene	ND	4.00		ND	3.99		ND	3.99										
Fluoranthene	139	4.00		38.8	4.00		ND	4.00		ND	4.00		25.6	3.99		ND	3.99	
Fluorene	26.3	4.00		ND	4.00		ND	4.00		ND	4.00		21.7	3.99		ND	3.99	
Indeno(1,2,3-c,d)pyrene	36.1	4.00		ND	3.99		ND	3.99										
Naphthalene	65.4	4.00		281	4.00		232	4.00		ND	4.00		118	3.99		ND	3.99	L
Phenanthrene	207	4.00		121	4.00		49.7	4.00		ND	4.00		43.5	3.99		ND	3.99	L
Pyrene	96.0	4.00		22.2	4.00		ND	4.00		ND	4.00		ND	3.99		ND	3.99	<u> </u>
							% Re	covery										
2-Fluorobiphenyl		88.2			91.2			91.0			91.2			89.9			86.7	
Terphenyl-d14		91.5			93.9			98.1			96.8			93.7			88.8	

			% Recovery			
2-Fluorobiphenyl	88.2	91.2	91.0	91.2	89.9	86.7
Terphenyl-d14	91.5	93.9	98.1	96.8	93.7	88.8

ECL No.	BC	00789-A		BC	00790-A		BC	00791-A		BC	C00792-A		BC	C00793-A		BCC	00794-A	
Collector's No.		FL-LS-4			FL-LS-5			FL-LS-6			SFL-LS-7		_	FL-LS-8		WC	R-LS-1	
Extraction Date	11/	17/2018		11/	/17/2018		11/	17/2018		11	/17/2018		11	/17/2018		11/1	17/2018	
Analysis Date	11/	20/2018		11/	/20/2018		11/	20/2018		11	/21/2018		11.	/21/2018		11/2	21/2018	
Matrix Type		Soil			Soil			Soil			Soil			Soil			Soil	
Units	ļ	ıg/kg			μg/kg			ug/kg			μg/kg			μg/kg		μ	ıg/kg	
Compounds:	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q
Acenaphthene	ND	10.0		ND	4.00		ND	3.98		ND	3.97		ND	4.00		ND	4.00	
Acenaphthylene	ND	10.0		22.6	4.00		ND	3.98		ND	3.97		22.8	4.00		ND	4.00	
Anthracene	ND	10.0		ND	4.00		ND	3.98		ND	3.97		37.8	4.00		ND	4.00	
Benzo(a)anthracene	179	10.0		54.1	4.00		ND	3.98		ND	3.97		53.3	4.00		ND	4.00	
Benzo(a)pyrene	182	10.0		50.3	4.00		ND	3.98		ND	3.97		43.9	4.00		ND	4.00	
Benzo(b)fluoranthene	225	10.0		86.7	4.00		ND	3.98		ND	3.97		61.2	4.00		ND	4.00	
Benzo(g,h,l)perylene	g,h,l)perylene 177 10.0 46.2 4.00 ND 3.98 ND 3.97 26.8 4.00										ND	4.00						
Benzo(k)fluoranthene	ND	10.0		26.0	4.00		ND	3.98		ND	3.97		ND	4.00		ND	4.00	
Chrysene	280	10.0		44.8	4.00		ND	3.98		ND	3.97		57.8	4.00		ND	4.00	
Dibenzo(a,h)anthracene	69.8	10.0		ND	4.00		ND	3.98		ND	3.97		ND	4.00		ND	4.00	
Fluoranthene	142	10.0		91.4	4.00		29.1	3.98		24.2	3.97		145	4.00		ND	4.00	
Fluorene	ND	10.0		ND	4.00		ND	3.98		21.3	3.97		51.2	4.00		ND	4.00	
Indeno(1,2,3-c,d)pyrene	195	10.0		64.2	4.00		ND	3.98		ND	3.97		38.2	4.00		ND	4.00	
Naphthalene	171	10.0		161	4.00		138	3.98		196	3.97		247	4.00		ND	4.00	
Phenanthrene	283	10.0		49.9	4.00		55.5	3.98		73.2	3.97		151	4.00		ND	4.00	
Pyrene	141	10.0		68.8	4.00		20.3	3.98		ND	3.97		112	4.00		ND	4.00	
							% R	ecovery										
2-Fluorobiphenyl		95.5			91.6			90.1			89.8			91.5			90.7	
Terphenyl-d14		94.1			108			105			112			110			92.2	

ECL No.	BC	00795-A		BC0	0796-A		BC	00797-A		BC	00798-A		BC	00799-A		BC	00800-A	
Collector's No.	BC	-LM-15		BC-	-LM-16		ВС	-LM-17		SCI	F-30488		SCI	F-30476		SC	F-02500	
Extraction Date	11/	17/2018		11/1	17/2018		11/	17/2018		11/	17/2018		11/	17/2018		11/	17/2018	
Analysis Date	11/2	20/2018		11/2	20/2018		11/2	20/2018		11/2	20/2018		11/	20/2018		11/	20/2018	
Matrix Type		Soil		As	sh/Soil		As	sh/Soil			Soil			Soil		A	sh/Soil	
Units	ļ	ıg/kg		μ	g/kg		ļ	ιg/kg		μ	ıg/kg		Ļ	ıg/kg			ug/kg	
Compounds:	Amount	$D_{\rm f}$	Q															
Acenaphthene	ND	4.00		ND	4.00		50.1	3.98		ND	9.98		ND	4.00		ND	9.97	
Acenaphthylene	ND	4.00		47.7	4.00		28.7	3.98		ND	9.98		ND	4.00		ND	9.97	
Anthracene	ND	4.00		29.0	4.00		89.0	3.98		ND	9.98		ND	4.00		ND	9.97	
Benzo(a)anthracene	ND	4.00		ND	4.00		ND	3.98		ND	9.98		ND	4.00		ND	9.97	
Benzo(a)pyrene	ND	4.00		ND	4.00		ND	3.98		ND	9.98		ND	4.00		ND	9.97	
Benzo(b)fluoranthene	ND	4.00		ND	4.00		ND	3.98		ND	9.98		ND	4.00		ND	9.97	
Benzo(g,h,l)perylene	ND	4.00		ND	4.00		ND	3.98		ND	9.98		ND	4.00		ND	9.97	
Benzo(k)fluoranthene	ND	4.00		ND	4.00		ND	3.98		ND	9.98		ND	4.00		ND	9.97	
Chrysene	ND	4.00		ND	4.00		ND	3.98		ND	9.98		ND	4.00		ND	9.97	
Dibenzo(a,h)anthracene	ND	4.00		ND	4.00		ND	3.98		ND	9.98		ND	4.00		ND	9.97	
Fluoranthene	ND	4.00		56.8	4.00		287	3.98		ND	9.98		24.4	4.00		ND	9.97	
Fluorene	ND	4.00		31.8	4.00		114	3.98		ND	9.98		ND	4.00		ND	9.97	
Indeno(1,2,3-c,d)pyrene	ND	4.00		ND	4.00		ND	3.98		ND	9.98		ND	4.00		ND	9.97	
Naphthalene	ND	4.00		252	4.00		329	3.98		ND	9.98		ND	4.00		144	9.97	
Phenanthrene	ND	4.00		117	4.00		592	3.98		ND	9.98		ND	4.00		95.6	9.97	
Pyrene	ND	4.00		41.1	4.00		135	3.98		ND	9.98		ND	4.00		ND	9.97	
							% Re	covery										
2-Fluorobiphenyl		91.5			88.8			89.7			96.3			90.3			96.6	
Terphenyl-d14		105			104			103			109			113		107		

ECL No.	ВС	C00824-A		ВС	C00825-A		ВС	C00826-A		ВС	00827-A		В	C00828-A		
Collector's No.	CO	OM-LM-1		CC	OM-LM-2		CC	OM-LM-3			1			2		
Extraction Date	11	1/18/2018		11	/18/2018		11	/18/2018		11	/18/2018		11	1/18/2018		Reporting
Analysis Date	11	1/21/2018		11	/21/2018		11	/21/2018		11	/21/2018		11	1/21/2018		Limit
Matrix Type		Ash			Ash			Ash			Ash			Soil		
Units		μg/kg			μg/kg			μg/kg			μg/kg			μg/kg		
Compounds:	Amount	$D_{\rm f}$	Q	Amount	$D_{\rm f}$	Q	Amount	D_{f}	Q	Amount	$D_{\rm f}$	Q	Amount	D_{f}	Q	(RL)
Acenaphthene	ND	3.96		ND	3.97		ND	3.98		ND	3.98		ND	3.99		5.0
Acenaphthylene	ND	3.96		ND	3.97		ND	3.98		ND	3.98		ND	3.99		5.0
Anthracene	21.7	3.96		27.0	3.97		ND	3.98		ND	3.98		ND	3.99		5.0
Benzo(a)anthracene	39.0	3.96		ND	3.97		ND	3.98		ND	3.98		ND	3.99		5.0
Benzo(a)pyrene	ND	3.96		ND	3.97		ND	3.98		ND	3.98		ND	3.99		5.0
Benzo(b)fluoranthene	145	3.96		38.3	3.97		ND	3.98		ND	3.98		ND	3.99		5.0
Benzo(g,h,l)perylene	68.4	3.96		ND	3.97		ND	3.98		ND	3.98		ND	3.99		5.0
Benzo(k)fluoranthene	20.2	3.96		ND 3.97			ND	3.98		ND	3.98		ND	3.99		5.0
Chrysene	74.1	3.96		37.1	3.97		ND	3.98		ND	3.98		ND	3.99		5.0
Dibenzo(a,h)anthracene	ND	3.96		ND	3.97		ND	3.98		ND	3.98		ND	3.99		5.0
Fluoranthene	109	3.96		112	3.97		24.1	3.98		ND	3.98		ND	3.99		5.0
Fluorene	ND	3.96		ND	3.97		ND	3.98		24.2	3.98		ND	3.99		5.0
Indeno(1,2,3-c,d)pyrene	42.4	3.96		ND	3.97		ND	3.98		ND	3.98		ND	3.99		5.0
Naphthalene	409	3.96		418	3.97		311	3.98		806	3.98		ND	3.99		5.0
Phenanthrene	222	3.96		233	3.97		52.3	3.98		82.8	3.98		ND	3.99		5.0
Pyrene	74.3	3.96		62.7	3.97		ND	3.98		ND	3.98		ND	3.99		5.0
	Con												Control			
% Recovery Limit													Limits			
2-Fluorobiphenyl		90.7			87.5			92.7			89.0			93.1		70-130%
Terphenyl-d14		112				, and the second		111	•		112			121	•	70-13070

ECL No. BC00784-A BC00785-A BC00786-A
Analysis Date Matrix Type Air Air Air Air Air Dpb∨ D
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Compounds: D _f Amount D _f Amount D _f Amount Q Amount RL Acetone 1.00 8.61 1.00 8.86 0.99 2.30 0.20 Acetonie 1.00 0.56 1.00 0.74 0.99 0.35 0.10 Acrolein 1.00 ND 1.00 ND 0.32 0.99 0.15 0.10 Acrylonitrile 1.00 ND 1.00 ND 0.99 ND 0.10 Allyl Chloride 1.00 ND 1.00 ND 0.99 ND 0.10 Benzyl Chloride 1.00 ND 1.00 ND 0.99 ND 0.10 Bromofichloromethane 1.00 ND 1.00 ND 1.00 ND 0.99 ND 0.10 Bromoform 1.00 ND 1.00 ND 1.00 ND 0.99 ND 0.10 Bromoform 1.00 ND 1.00
Acetone 1.00 8.61 1.00 8.86 0.99 2.30 0.20 Acetonitile 1.00 0.56 1.00 0.74 0.99 0.35 0.10 Acrolein 1.00 0.38 1.00 0.32 0.99 0.15 0.10 Acrylonitrile 1.00 ND 1.00 ND 0.99 ND 0.10 Allyl Chloride 1.00 ND 1.00 ND 0.99 ND 0.10 Benzene 1.00 ND 1.00 ND 0.99 ND 0.10 Benzene 1.00 ND 1.00 0.21 0.99 ND 0.10 Benzene 1.00 ND 1.00 0.14 0.99 ND 0.10 Benzene 1.00 ND 1.00 ND 1.00 ND 0.10 Benzyl Chloride 1.00 ND 1.00 ND 1.00 ND 0.10 Benzyl Chloride 1.00
Acetonitile
Acrolein
Acrylonitrile
Allyl Chloride
terr-Amyl Methyl Ether 1.00 ND 1.00 ND 0.99 ND 0.10 Benzene 1.00 0.27 1.00 0.21 0.99 ND 0.10 Benzyl Chloride 1.00 ND 1.00 0.14 0.99 ND 0.10 Bromodichloromethane 1.00 ND 1.00 ND 0.99 ND 0.10 Bromoform 1.00 ND 1.00 ND 0.99 ND 0.10 Bromomethane 1.00 ND 1.00 ND 0.99 ND 0.10 1.3-Butadiene 1.00 ND 1.00 ND 0.99 ND 0.10 terr-Butanol 1.00 ND 1.00 ND 0.99 ND 0.10 terr-Butanol 1.00 ND 1.00 ND 0.99 ND 0.10 terr-Butanol 1.00 ND 1.00 ND 0.99 ND 0.10 sec-Butylbenzene <td< td=""></td<>
Benzene 1.00 0.27 1.00 0.21 0.99 ND 0.10
Benzyl Chloride
Bromodichloromethane 1.00 ND 1.00 ND 0.99 ND 0.10 Bromoform 1.00 ND 1.00 ND 0.99 ND 0.10 Bromomethane 1.00 ND 1.00 ND 0.99 ND 0.10 1,3-Butadiene 1.00 0.14 1.00 ND 0.99 ND 0.10 tert-Butanol 1.00 ND 1.00 ND 0.99 ND 0.10 2-Butanone (MEK) 1.00 ND 1.00 ND 0.99 ND 0.10 2-Butaploence 1.00 ND 1.00 ND 0.99 ND 0.10 sec-Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 tert-Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 tert-Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 Carbon Disulfide
Bromoform
Bromomethane 1.00 ND 1.00 ND 0.99 ND 0.10 1,3-Butadiene 1.00 0.14 1.00 ND 0.99 ND 0.10 tert-Butanol 1.00 ND 1.00 ND 0.99 ND 0.10 2-Butanone (MEK) 1.00 ND 1.00 ND 0.99 ND 0.10 n-Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 sec- Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 sec- Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 sec- Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 sec- Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 carbon Tetrachloride 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorobenzene
1.3-Butadiene
tert- Butanol 1.00 ND 1.00 ND 0.99 ND 0.10 2-Butanone (MEK) 1.00 0.39 1.00 0.40 0.99 0.23 0.10 n-Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 sec-Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 tert-Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 tert-Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 Carbon Disulfide 1.00 ND 1.00 ND 0.99 ND 0.10 Carbon Disulfide 1.00 ND 1.00 ND 0.99 ND 0.10 Carbon Disulfide 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorobenzene 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorotdibrom
2-Butanone (MEK) 1.00 0.39 1.00 0.40 0.99 0.23 0.10 n-Butylbenzene 1.00 ND 1.00 ND 1.00 ND 0.99 ND 0.10 sec-Butylbenzene 1.00 ND 1.00 ND 1.00 ND 0.99 ND 0.10 tert-Butylbenzene 1.00 ND 1.00 ND 1.00 ND 0.99 ND 0.10 tert-Butylbenzene 1.00 ND 1.00 ND 0.11 0.99 ND 0.10 Carbon Disulfide 1.00 ND 1.00 ND 1.00 ND 0.11 0.99 ND 0.10 Carbon Tetrachloride 1.00 ND 1.00 ND 1.00 ND 0.11 0.99 ND 0.10 Chlorobenzene 1.00 ND 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorodibromomethane 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorothane 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorothane 1.00 ND 1.00 ND 0.99 ND 0.10 Chloromethane 1.00 ND 1.00 ND 0.99 ND 0.10 Chloromethane 1.00 ND 1.00 ND 0.99 ND 0.10 Cyclohexane 1.00 ND 1.00 ND 0.99 ND 0.10 1,2-Dibromoethane 1.00 ND 1.00 ND 1.00 ND 0.99 ND 0.10 1,2-Dichlorobenzene 1.00 ND 1.00 ND 1.00 0.21 0.99 ND 0.10 1,3-Dichlorobenzene 1.00 ND 1.00 ND 1.00 0.22 0.99 ND 0.10 1,4-Dichlorobenzene 1.00 ND 1.00 ND 1.00 0.22 0.99 ND 0.10
n-Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 sec- Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 tert- Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 Carbon Disulfide 1.00 ND 1.00 0.11 0.99 ND 0.10 Carbon Tetrachloride 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorobenzene 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorodibromomethane 1.00 ND 1.00 ND 0.99 ND 0.10 Chloroform 1.00 ND 1.00 ND 0.99 ND 0.10 Chloroprene 1.00 ND 1.00 ND 0.99 ND 0.10 2-Chloroprene 1.00 ND 1.00 ND 0.99 ND 0.10 2-Chlorotoluene
sec- Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 tert- Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 Carbon Disulfide 1.00 ND 1.00 0.11 0.99 ND 0.10 Carbon Tetrachloride 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorobenzene 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorodibromomethane 1.00 ND 1.00 ND 0.99 ND 0.10 Chloroform 1.00 ND 1.00 ND 0.99 ND 0.10 Chloroform 1.00 ND 1.00 ND 0.99 ND 0.10 Chloroperene 1.00 ND 1.00 ND 0.99 ND 0.10 2-Chloroprene 1.00 ND 1.00 ND 0.99 ND 0.10 Cyclohexane
tert-Butylbenzene 1.00 ND 1.00 ND 0.99 ND 0.10 Carbon Disulfide 1.00 ND 1.00 0.11 0.99 ND 0.10 Carbon Tetrachloride 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorobenzene 1.00 ND 1.00 0.11 0.99 ND 0.10 Chlorodibromomethane 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorodibromomethane 1.00 ND 1.00 ND 0.99 ND 0.10 Chloroform 1.00 ND 1.00 ND 0.99 ND 0.10 Chloroperae 1.00 ND 1.00 ND 0.99 ND 0.10 2-Chloroprene 1.00 ND 1.00 ND 0.99 ND 0.10 2-Chlorotoluene 1.00 ND 1.00 ND 0.99 ND 0.10 1,2-Dibromoeth
Carbon Disulfide 1.00 ND 1.00 0.11 0.99 ND 0.10 Carbon Tetrachloride 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorobenzene 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorodibromomethane 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorotethane 1.00 ND 1.00 ND 0.99 ND 0.10 Chloroform 1.00 ND 1.00 ND 0.99 ND 0.10 Chloromethane 1.00 ND 1.00 ND 0.99 ND 0.10 2-Chloroprene 1.00 ND 1.00 ND 0.99 ND 0.10 2-Chlorotoluene 1.00 ND 1.00 ND 0.99 ND 0.10 Cyclohexane 1.00 ND 1.00 ND 0.99 ND 0.10 1,2-Dibromoethane
Carbon Tetrachloride 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorobenzene 1.00 ND 1.00 0.11 0.99 ND 0.10 Chlorodibromomethane 1.00 ND 1.00 ND 0.99 ND 0.10 Chlorotethane 1.00 ND 1.00 ND 0.99 ND 0.10 Chloroform 1.00 ND 1.00 ND 0.99 ND 0.10 Chloromethane 1.00 ND 1.00 ND 0.99 ND 0.10 2-Chloroprene 1.00 ND 1.00 ND 0.99 ND 0.10 2-Chlorotoluene 1.00 ND 1.00 ND 0.99 ND 0.10 Cyclohexane 1.00 ND 1.00 ND 0.99 ND 0.10 1,2-Dibromoethane 1.00 ND 1.00 0.12 0.99 ND 0.10 1,3-Dichlorobenzene
Chlorobenzene 1.00 ND 1.00 0.11 0.99 ND 0.10 Chlorodibromomethane 1.00 ND 1.00 ND 0.99 ND 0.10 Chloroethane 1.00 ND 1.00 ND 0.99 ND 0.10 Chloroform 1.00 ND 1.00 ND 0.99 ND 0.10 Chloromethane 1.00 0.33 1.00 0.38 0.99 0.30 0.10 2-Chloroprene 1.00 ND 1.00 ND 0.99 ND 0.10 2-Chlorotoluene 1.00 ND 1.00 ND 0.99 ND 0.10 Cyclohexane 1.00 ND 1.00 ND 0.99 ND 0.10 1,2-Dibromoethane 1.00 ND 1.00 0.12 0.99 ND 0.10 1,3-Dichlorobenzene 1.00 ND 1.00 0.21 0.99 ND 0.10 1,4-Dichlorobenzen
Chlorodibromomethane 1.00 ND 1.00 ND 0.99 ND 0.10 Chloroethane 1.00 ND 1.00 ND 0.99 ND 0.10 Chloroform 1.00 ND 1.00 ND 0.99 ND 0.10 Chloromethane 1.00 0.33 1.00 0.38 0.99 0.30 0.10 2-Chloroprene 1.00 ND 1.00 ND 0.99 ND 0.10 2-Chlorotoluene 1.00 ND 1.00 ND 0.99 ND 0.10 Cyclohexane 1.00 ND 1.00 ND 0.99 ND 0.10 1,2-Dibromoethane 1.00 ND 1.00 0.12 0.99 ND 0.10 1,2-Dichlorobenzene 1.00 ND 1.00 0.21 0.99 ND 0.10 1,4-Dichlorobenzene 1.00 ND 1.00 0.22 0.99 ND 0.10
Chloroethane 1.00 ND 1.00 ND 0.99 ND 0.10 Chloroform 1.00 ND 1.00 ND 0.99 ND 0.10 Chloromethane 1.00 0.33 1.00 0.38 0.99 0.30 0.10 2-Chloroprene 1.00 ND 1.00 ND 0.99 ND 0.10 2-Chlorotoluene 1.00 ND 1.00 ND 0.99 ND 0.10 Cyclohexane 1.00 ND 1.00 ND 0.99 ND 0.10 1,2-Dibromoethane 1.00 ND 1.00 0.12 0.99 ND 0.10 1,2-Dichlorobenzene 1.00 ND 1.00 0.21 0.99 ND 0.10 1,3-Dichlorobenzene 1.00 ND 1.00 0.20 0.99 ND 0.10 1,4-Dichlorobenzene 1.00 ND 1.00 0.22 0.99 ND 0.10
Chloroform 1.00 ND 1.00 ND 0.99 ND 0.10 Chloromethane 1.00 0.33 1.00 0.38 0.99 0.30 0.10 2-Chloroprene 1.00 ND 1.00 ND 0.99 ND 0.10 2-Chlorotoluene 1.00 ND 1.00 ND 0.99 ND 0.10 Cyclohexane 1.00 ND 1.00 ND 0.99 ND 0.10 1,2-Dibromoethane 1.00 ND 1.00 0.12 0.99 ND 0.10 1,2-Dichlorobenzene 1.00 ND 1.00 0.21 0.99 ND 0.10 1,3-Dichlorobenzene 1.00 ND 1.00 0.20 0.99 ND 0.10 1,4-Dichlorobenzene 1.00 ND 1.00 0.22 0.99 ND 0.10
Chloromethane 1.00 0.33 1.00 0.38 0.99 0.30 0.10 2-Chloroprene 1.00 ND 1.00 ND 0.99 ND 0.10 2-Chlorotoluene 1.00 ND 1.00 ND 0.99 ND 0.10 Cyclohexane 1.00 ND 1.00 ND 0.99 ND 0.10 1,2-Dibromoethane 1.00 ND 1.00 0.12 0.99 ND 0.10 1,2-Dichlorobenzene 1.00 ND 1.00 0.21 0.99 ND 0.10 1,3-Dichlorobenzene 1.00 ND 1.00 0.20 0.99 ND 0.10 1,4-Dichlorobenzene 1.00 ND 1.00 0.22 0.99 ND 0.10
2-Chloroprene 1.00 ND 1.00 ND 0.99 ND 0.10 2-Chlorotoluene 1.00 ND 1.00 ND 0.99 ND 0.10 Cyclohexane 1.00 ND 1.00 ND 0.99 ND 0.10 1,2-Dibromoethane 1.00 ND 1.00 0.12 0.99 ND 0.10 1,2-Dichlorobenzene 1.00 ND 1.00 0.21 0.99 ND 0.10 1,3-Dichlorobenzene 1.00 ND 1.00 0.20 0.99 ND 0.10 1,4-Dichlorobenzene 1.00 ND 1.00 0.22 0.99 ND 0.10
2-Chlorotoluene 1.00 ND 1.00 ND 0.99 ND 0.10 Cyclohexane 1.00 ND 1.00 ND 0.99 ND 0.10 1,2-Dibromoethane 1.00 ND 1.00 0.12 0.99 ND 0.10 1,2-Dichlorobenzene 1.00 ND 1.00 0.21 0.99 ND 0.10 1,3-Dichlorobenzene 1.00 ND 1.00 0.20 0.99 ND 0.10 1,4-Dichlorobenzene 1.00 ND 1.00 0.22 0.99 ND 0.10
Cyclohexane 1.00 ND 1.00 ND 0.99 ND 0.10 1,2-Dibromoethane 1.00 ND 1.00 0.12 0.99 ND 0.10 1,2-Dichlorobenzene 1.00 ND 1.00 0.21 0.99 ND 0.10 1,3-Dichlorobenzene 1.00 ND 1.00 0.20 0.99 ND 0.10 1,4-Dichlorobenzene 1.00 ND 1.00 0.22 0.99 ND 0.10
1,2-Dibromoethane 1.00 ND 1.00 0.12 0.99 ND 0.10 1,2-Dichlorobenzene 1.00 ND 1.00 0.21 0.99 ND 0.10 1,3-Dichlorobenzene 1.00 ND 1.00 0.20 0.99 ND 0.10 1,4-Dichlorobenzene 1.00 ND 1.00 0.22 0.99 ND 0.10
1,2-Dichlorobenzene 1.00 ND 1.00 0.21 0.99 ND 0.10 1,3-Dichlorobenzene 1.00 ND 1.00 0.20 0.99 ND 0.10 1,4-Dichlorobenzene 1.00 ND 1.00 0.22 0.99 ND 0.10
1,3-Dichlorobenzene 1.00 ND 1.00 0.20 0.99 ND 0.10 1,4-Dichlorobenzene 1.00 ND 1.00 0.22 0.99 ND 0.10
1,4-Dichlorobenzene 1.00 ND 1.00 0.22 0.99 ND 0.10
1,1-Dichloroethane 1.00 ND 1.00 ND 0.99 ND 0.10
1,2-Dichloroethane 1.00 ND 1.00 0.12 0.99 ND 0.10
1,1-Dichloroethene 1.00 ND 1.00 ND 0.12 0.99 ND 0.10
<i>cis</i> -1,2-Dichloroethene 1.00 ND 1.00 ND 0.99 ND 0.10
trans- 1,2-Dichloroethene 1.00 ND 1.00 ND 0.99 ND 0.10
1,2-Dichloropropane 1.00 ND 1.00 ND 0.99 ND 0.10
<i>cis</i> - 1,3-Dichloropropene 1.00 ND 1.00 ND 0.99 ND 0.10
trans- 1,3-Dichloropropene 1.00 ND 1.00 0.13 0.99 ND 0.10
Dichlorotetrafluoroethane (Freon 114) 1.00 ND 1.00 ND 0.99 ND 0.10
Diisopropyl Ether 1.00 ND 1.00 ND 0.99 ND 0.10
1,4-Dioxane 1.00 ND 1.00 0.17 0.99 0.18 0.10
Ethanol 1.00 1.09 1.00 1.22 0.99 0.42 0.10
Ethyl Acetate 1.00 0.24 1.00 0.11 0.99 0.36 0.10
Ethylbenzene 1.00 0.23 1.00 ND 0.99 0.10 0.10
Ethyl <i>tert</i> - Butyl Ether 1.00 ND 1.00 ND 0.99 ND 0.10
4-Ethyltoluene 1.00 ND 1.00 0.10 0.99 ND 0.10
<i>n</i> -Heptane 1.00 0.11 1.00 ND 0.99 ND 0.10
Hexachloro-1,3-Butadiene 1.00 ND 1.00 0.23 0.99 0.16 0.10

ECL No.	BC00	0784-A	BC00)785-A	BC00)786-A	
Collector's No.		-LS-01		LS-02		LS-03	
Analysis Date		3/2018		3/2018	11/13	3/2018	
Matrix Type		Air		Air		Air	Reporting
Units	p	pbv	pi	obv	pı	obv	Limit
Compounds:	$D_{\rm f}$	Amount	$D_{\rm f}$	Amount	$D_{\rm f}$	Amount	(RL)
n- Hexane	1.00	ND	1.00	ND	0.99	ND	0.10
2-Hexanone	1.00	ND	1.00	0.23	0.99	0.29	0.10
Isopropyl Alcohol	1.00	ND	3.96	25.7	0.99	0.53	0.50
Isopropylbenzene	1.00	ND	1.00	ND	0.99	ND	0.10
o- Isopropyltoluene	1.00	ND	1.00	ND	0.99	ND	0.10
Methyl tert- Butyl Ether (MTBE)	1.00	ND	1.00	ND	0.99	ND	0.10
Methyl Methacrylate	1.00	ND	1.00	ND	0.99	ND	0.10
4-Methyl-2-Pentanone (MIBK)	1.00	ND	1.00	0.14	0.99	0.11	0.10
Methylene Chloride	1.00	ND	1.00	0.21	0.99	ND	0.20
Naphthalene	1.00	ND	1.00	0.69	0.99	0.32	0.10
Propene	1.00	0.87	1.00	0.79	0.99	0.20	0.10
<i>n</i> - Propylbenzene	1.00	ND	1.00	ND	0.99	ND	0.10
Styrene	1.00	ND	1.00	ND	0.99	ND	0.10
1,1,1,2-Tetrachloroethane	1.00	ND	1.00	ND	0.99	ND	0.10
1,1,2,2-Tetrachloroethane	1.00	ND	1.00	ND	0.99	ND	0.10
Tetrachloroethene	1.00	ND	1.00	ND	0.99	ND	0.10
Tetrahydrofuran	1.00	ND	1.00	ND	0.99	ND	0.10
Toluene	1.00	0.57	1.00	ND	0.99	0.21	0.20
1,2,4-Trichlorobenzene	1.00	ND	1.00	0.51	0.99	0.32	0.10
1,1,1-Trichloroethane	1.00	ND	1.00	ND	0.99	ND	0.10
1,1,2-Trichloroethane	1.00	ND	1.00	ND	0.99	ND	0.10
Trichloroethene	1.00	ND	1.00	ND	0.99	ND	0.10
Trichlorofluoromethane	1.00	0.29	1.00	0.27	0.99	0.25	0.10
Trichlorotrifluoroethane (Freon 113)	1.00	ND	1.00	ND	0.99	ND	0.10
1,2,4-Trimethylbenzene	1.00	ND	1.00	0.14	0.99	ND	0.10
1,3,5-Trimethylbenzene	1.00	ND	1.00	ND	0.99	ND	0.10
2,2,4-Trimethylpentane	1.00	0.66	1.00	ND	0.99	0.22	0.20
Vinyl Acetate	1.00	0.18	1.00	0.13	0.99	ND	0.10
Vinyl Bromide	1.00	ND	1.00	ND	0.99	ND	0.10
Vinyl Chloride	1.00	ND	1.00	ND	0.99	ND	0.10
(m & p) Xylenes	1.00	0.26	1.00	ND	0.99	ND	0.20
o -Xylene	1.00	ND	1.00	ND	0.99	ND	0.10
							Control
Surrogate Standards:			% Red	covery			Limits
							(%)
4-Bromofluorobenzene	8	34.6	8	7.3	8	4.1	70-30

Table A-11
Dioxin and Furan Sampling Locations
DTSC Woolsey Fire Investigation Activities
Ventura and Los Angeles Counties, California

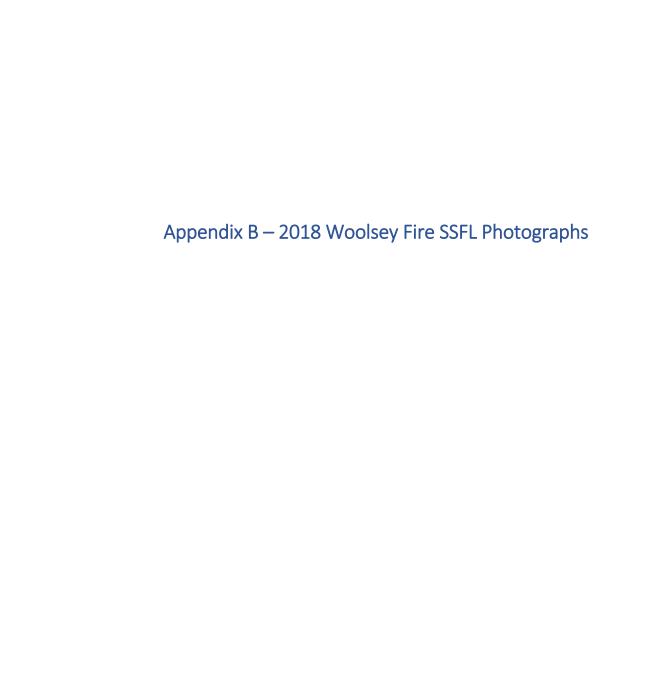
Sample Name	Laboratory Sample ID	Location	Sample Date/Time
SSFL-LS-1	BC00768-A	SSFL	11/11/18 0928
SSFL-LS-2	BC00769-A	SSFL	11/13/18 0825
ACD-LS-6	BC00775-A	Calabasas	11/11/18 1615
AEW-LS-7	BC00776-A	Calabasas	11/11/18 1643
AEW-LS-8	BC00777-A	Calabasas	11/11/18 1652
JBA-LS-9	BC00778-A	Calabasas	11/11/18 1718
LHE-LS-5	BC00774-A	Calabasas	11/11/18 1550
MVE-LS-1	BC00770-A	Calabasas	11/11/18 1412
MVE-LS-2	BC00771-A	Calabasas	11/11/18 1445
MVE-LS-3	BC00772-A	Calabasas	11/11/18 1515
MVE-LS-4	BC00773-A	Calabasas	11/11/18 1518

Table A-12
Dioxin and Furan Laboratory Results
DTSC Woolsey Fire Investigation Activities
Ventura County and Los Angeles Counties, California

ECL No.	BC00768-A	BC00769-A	BC00770-A	BC00771-A	BC00772-A	BC00773-A
Collector's No.	SSFL-LS1	SSFL-LS2	MVE-LS1	MVE-LS2	MVE-LS3	MVE-LS4
Date Prep Complete	11/17/2018	11/17/2018	11/17/2018	11/17/2018	11/17/2018	11/17/2018
Analysis Date	11/20/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018
Matrix Type	Ash/Soil	Soil/Gravel	Soil	Soil	Soil	Ash
Analyte			Conc.	(pg/g)		
2,3,7,8-CI4DD	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
1,2,3,7,8-CI5DD	n.d.	n.d.	10.54	8.19	n.d.	n.d.
1,2,3,4,7,8-Cl6DD	n.d.	n.d.	7.77	n.d.	0.73	n.d.
1,2,3,6,7,8-Cl6DD	n.d.	n.d.	7.44	n.d.	n.d.	n.d.
1,2,3,7,8,9-Cl6DD	n.d.	n.d.	7.44	n.d.	n.d.	n.d.
1,2,3,4,6,7,8-CI7DD	0.563	8.1	11.93	9.31	6.91	n.d.
1,2,3,4,6,7,8,9-CI8DD	4.526	35.7	30.59	28.28	45.72	2.14
2,3,7,8-CI4DF	n.d.	n.d.	2.61	n.d.	n.d.	n.d.
1,2,3,7,8-CI5DF	n.d.	n.d.	8.71	n.d.	n.d.	n.d.
2,3,4,7,8-CI5DF	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
1,2,3,4,7,8-Cl6DF	n.d.	n.d.	7.81	6.08	1.67	n.d.
1,2,3,6,7,8-Cl6DF	n.d.	n.d.	6.62	n.d.	1.37	n.d.
1,2,3,7,8,9-Cl6DF	n.d.	n.d.	9.08	7.94	n.d.	n.d.
2,3,4,6,7,8-Cl6DF	n.d.	n.d.	9.43	7.31	n.d.	n.d.
1,2,3,4,6,7,8-CI7DF	n.d.	n.d.	10.63	7.99	2.21	0.79
1,2,3,4,7,8,9-CI7DF	n.d.	n.d.	8.21	7.35	n.d.	n.d.
1,2,3,4,6,7,8,9-CI8DF	0.293	n.d.	13.18	9.72	8.41	n.d.
CI4DD	n.d.	n.d.	19.58	30.7	n.d.	n.d.
CI5DD	0.537	5.6	13.19	22	22.04	52.25
CI6DD	0.588	n.d.	23.29	n.d.	9.54	19.2
CI7DD	1.175	14.5	15.35	27.34	n.d.	25.24
CI4DF	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
CI5DF	0.731	n.d.	22.83	n.d.	n.d.	49.45
CI6DF	0.579	10.4	34.95	27.33	17.83	17.75
CI7DF	0.299	5.3	n.d.	17.37	8.94	23.41

Table A-12
Dioxin and Furan Laboratory Results
DTSC Woolsey Fire Investigation Activities
Ventura County and Los Angeles Counties, California

ECL No.	BC00774-A	BC00775-A	BC00776-A	BC00777-A	BC00778-A
Collector's No.	LHE-LS5	ACD-LS6	AEW-LS7	AEW-LS8	JBA-LS9
Date Prep Complete	11/17/2018	11/17/2018	11/17/2018	11/17/2018	11/17/2018
Analysis Date	11/20/2018	11/20/2018	11/20/2018	11/20/2018	11/20/2018
Matrix Type	Soil	Soil	Ash	Soil	Soil
Analyte			Conc. (pg/g)		
2,3,7,8-Cl4DD	n.d.	n.d.	n.d.	n.d.	n.d.
1,2,3,7,8-CI5DD	n.d.	n.d.	n.d.	n.d.	0.069
1,2,3,4,7,8-Cl6DD	n.d.	n.d.	n.d.	n.d.	n.d.
1,2,3,6,7,8-Cl6DD	2.9	n.d.	0.3743	n.d.	n.d.
1,2,3,7,8,9-Cl6DD	n.d.	n.d.	n.d.	n.d.	n.d.
1,2,3,4,6,7,8-CI7DD	5.8	1.91	2.3183	3.8912	0.258
1,2,3,4,6,7,8,9-CI8DD	41.5	4.7	4.9095	28.5575	1.3746
2,3,7,8-Cl4DF	n.d.	n.d.	0.3051	n.d.	n.d.
1,2,3,7,8-CI5DF	n.d.	n.d.	n.d.	n.d.	n.d.
2,3,4,7,8-CI5DF	n.d.	n.d.	0.474	n.d.	n.d.
1,2,3,4,7,8-Cl6DF	4.9	n.d.	0.4101	n.d.	n.d.
1,2,3,6,7,8-Cl6DF	n.d.	n.d.	0.4019	n.d.	0.0227
1,2,3,7,8,9-Cl6DF	n.d.	n.d.	0.1093	n.d.	n.d.
2,3,4,6,7,8-Cl6DF	n.d.	n.d.	0.2415	n.d.	n.d.
1,2,3,4,6,7,8-CI7DF	3.8	n.d.	0.4158	0.5017	n.d.
1,2,3,4,7,8,9-CI7DF	3.7	n.d.	0.0935	n.d.	0.0325
1,2,3,4,6,7,8,9-CI8DF	12.0	n.d.	n.d.	3.1363	n.d.
CI4DD	39.2	56.39	1.1164	0.6748	0.7254
CI5DD	34.7	n.d.	1.6974	n.d.	n.d.
CI6DD	13.9	23.74	2.5134	n.d.	0.7165
CI7DD	42.6	53.04	n.d.	5.9802	n.d.
CI4DF	n.d.	n.d.	6.391	n.d.	n.d.
CI5DF	n.d.	n.d.	5.3432	0.4755	n.d.
CI6DF	25.1	32.39	2.2801	2.127	0.676
CI7DF	12.9	23.03	0.5409	2.3839	0.4562





View looking north-northeast with RMHF in background, and the Sodium Pump Test Facility in the left foreground.

Date: 11/10/2018

Time: 12:20 PM



View looking north-northeast with RMHF in background, and the Sodium Pump Test Facility in the left foreground.

Date: 11/10/2018

Time: 12:19 PM



Looking south-southwest at the RMHF.

Date: 11/10/2018

Time: 11:52 AM



Looking west-southwest at the former Hazardous Waste Management Facility (HWMF - Building 4133)

Date: 11/10/2018

Time: 11:49 AM



Looking north-northwest across the former SRE site. The SRE was deactivated in 1968. Decommissioning began in 1974 and was completed in 1983, to the applicable "unrestricted use" standards.

Date: 11/10/2018

Time: 11:48 AM



Looking east-northeast at the former Sodium Reactor Experiment (SRE) area (grassy area in foreground.) The tarped area in the background is the former steam plant.

Date: 11/10/2018 Time: 11:49 AM



View looking north-northeast with RMHF in background, and the Sodium Pump Test Facility in the left foreground.

Date: 11/10/2018

Time: 12:07 PM



View from the western side of SSFL, looking east toward the Coca and former Delta rocket engine test stands (in background.)

Date: 11/10/2018 Time: 12:04 PM



Looking west-northwest at the former Storable Propellant Area (SPA). This portion of the site is associated with NASA (Area II)

Date: 11/10/2018 Time: 11:42 AM



Looking northwest at the Former Sodium Pump Test facility.

Date: 11/10/2018

Time: 11:57 AM





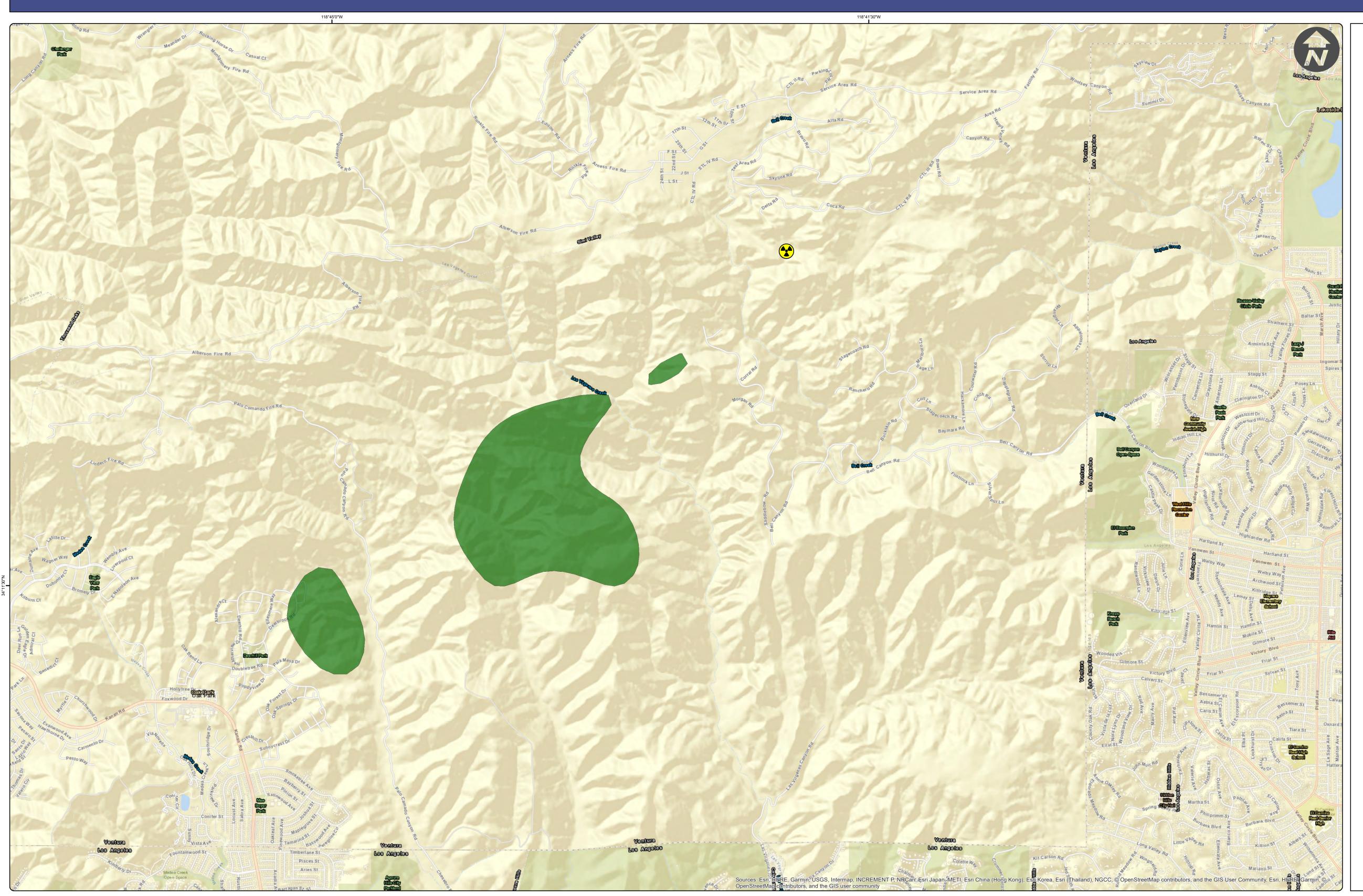


Appendix C – U.S. Department of Energy Ra- Products	diological Assistance Program

POTENTIAL DOSE FROM INHALATION

SANTA SUSANA FIELD LAB SIMI VALLEY, CA

Dose from Signficant Dose Contributors







> 1.00E-6 rem

1 million times LOWER than the EPA Protective Action Guideline.

Assumptions made regarding ground contamination concentration, area consumed in the fire, and other details are very conservative. Yet, the potential for downwind doses are much less than the already conservative values published in the EPA Protective Action Guidelines.

This map was produced by the Geographic Information Systems department of NNSA's Remote Sensing Laboratory (RSL) at Nellis AFB, Las Vegas, Nevada. HSIP, ESRI World Street Map, and FRMAC databases were used for map generation.

RSL Map Identification: InhalationDose

Scale 1:24,000 1 Miles 2 Kilometers



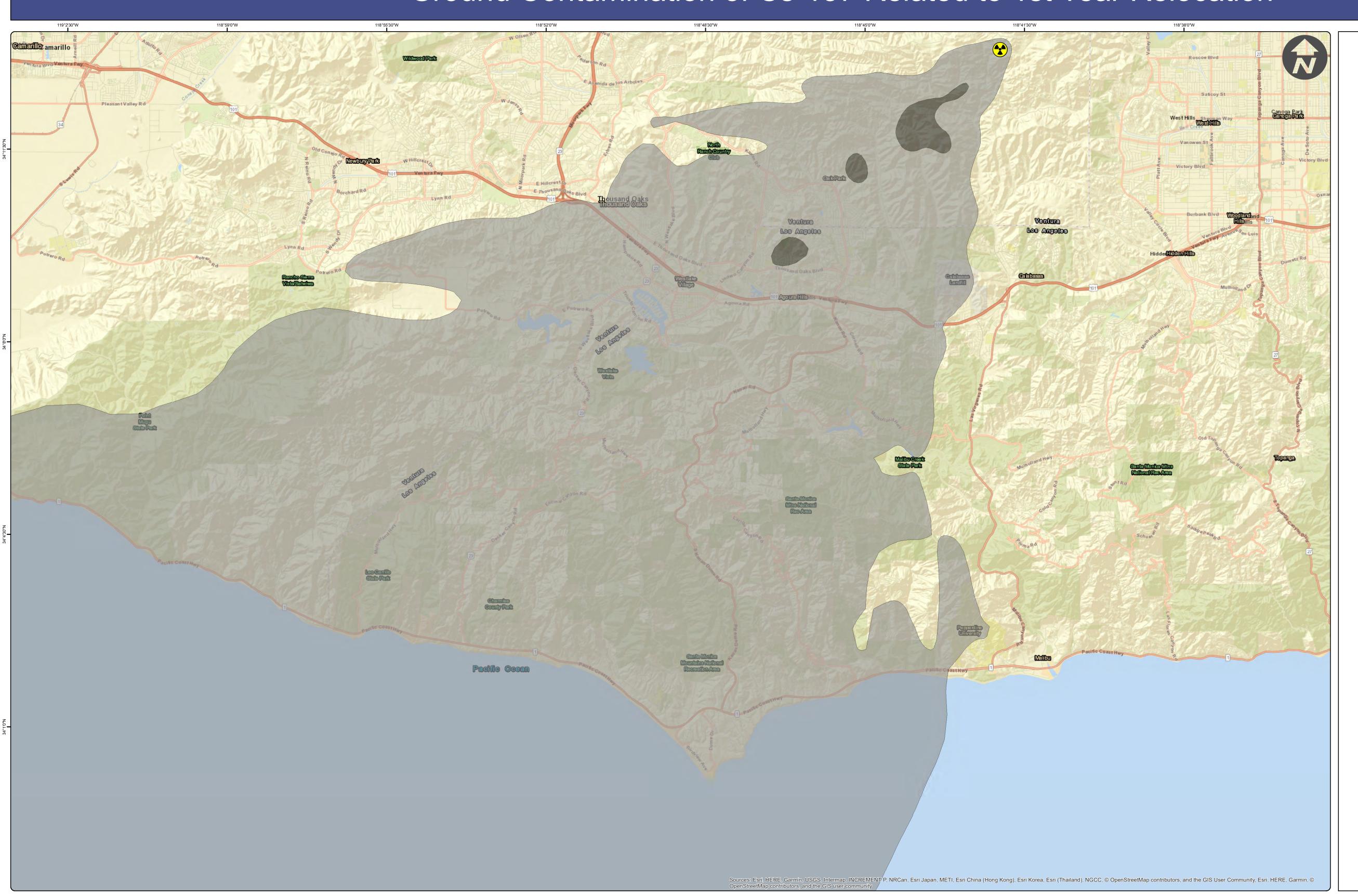




DEPOSITION RELATED TO EPA PAG

SANTA SUSANA FIELD LAB SIMI VALLEY, CA

Ground Contamination of Cs-137 Related to 1st Year Relocation



AOI

> 2.50E-6 uCi/m2

1 million times LOWER than the EPA

Protective Action Guidelines.

> 2.50E-7 uCi/m2

10 million times LOWER than the EPA Protective Action Guidelines.

Useful to guide field survey activities only. Note that public protection actions are not warranted according to the EPA Protective Action Guidelines as the potential for ground deposition a million times less than published values.

This map was produced by the Geographic Information Systems department of NNSA's Remote Sensing Laboratory (RSL) at Nellis AFB, Las Vegas, Nevada. HSIP, ESRI World Street Map, and FRMAC databases were used for map generation.

RSL Map Identification:
DepositionRelatedEPAPAG

Scale 1:80,000

5 Miles

The state of the state

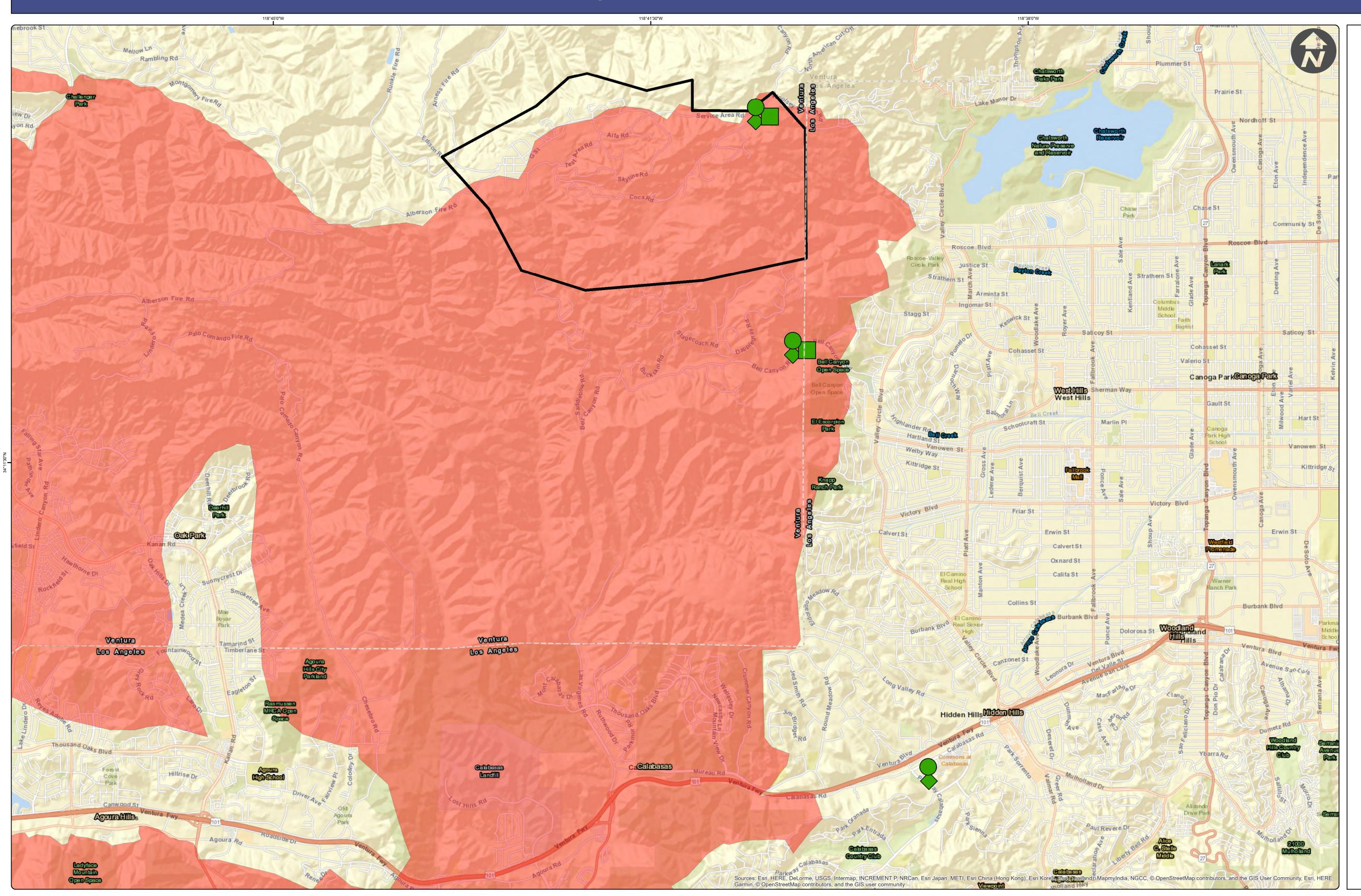




MONITORING RESULTS AS OF 11/12/2018

SANTA SUSANA FIELD LAB SIMI VALLEY, CA

Alpha, Beta, and Gamma Measurements



Alpha Measurements

Consistent with Background

Beta Measurements

Consistent with Background

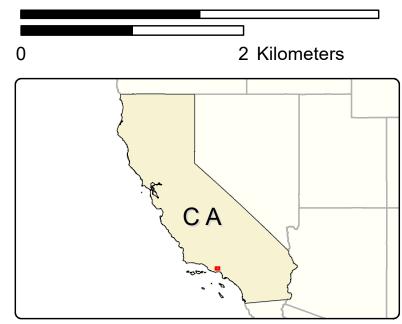
Gamma Measurements

- Consistent with Background
- Santa Susana Field Lab
- Woolsey Fire Perimeter

This map was produced by the Geographic Information Systems department of NNSA's Remote Sensing Laboratory (RSL) at Nellis AFB, Las Vegas, Nevada. HSIP, ESRI World Street Map, and FRMAC databases were used for map generation.

RSL Map Identification: 20181112_Field Monitoring Results_v1_update

Scale 1:34,000



Created on 11/12/2018 Last modified on 11/12/2018 19:35 UTC Check for revision in 12 hours

FRMAC APPROVED

NNSA Consequence Management Home Team Contact (702) 794 - 1665 FRMAC APPROVED



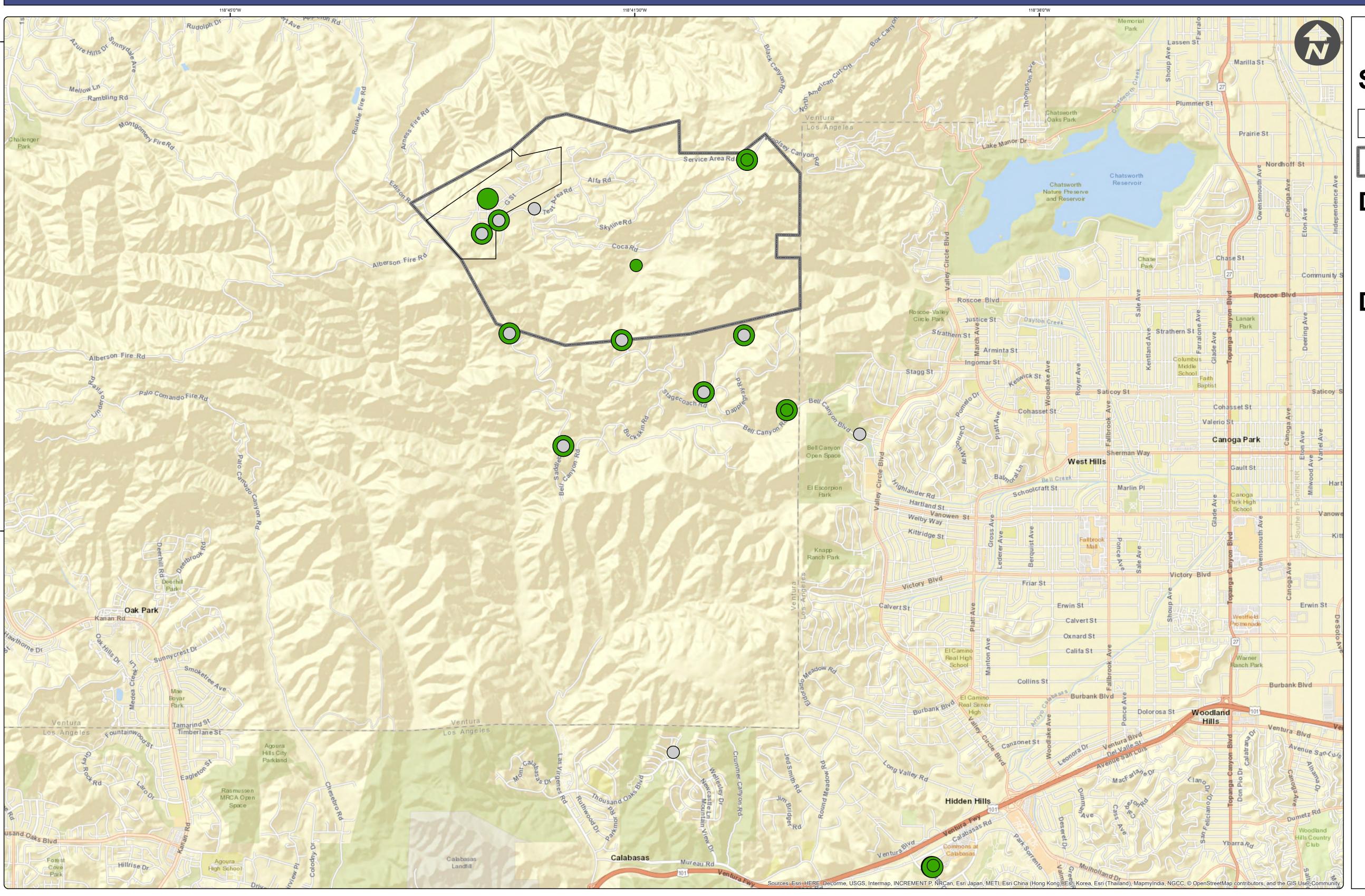


2 Miles

INTERAGENCY MONITORING RESULTS SANTA SUSANA FIELD LAB

SIMI VALLEY, CA

Radiological Samples and Measurements



Santa Susana Field Lab

Area 4

Site Boundary

DOE Field Measurements

Consistent with Background

DOE Field Samples

- Consistent with Background (6)
- Collected/Sent to Laboratory (21)

Awaiting data from interagency organizations as of the publication of this map. Only DOE data is being displayed.

This map was produced by the Geographic Information Systems department of NNSA's Remote Sensing Laboratory (RSL) at Nellis AFB, Las Vegas, Nevada. HSIP, ESRI World Street Map, and FRMAC databases were used for map generation.

> **RSL Map Identification:** 20181113_Field Monitoring Results_v1

> > Scale 1:32,000

2 Miles 2 Kilometers CA

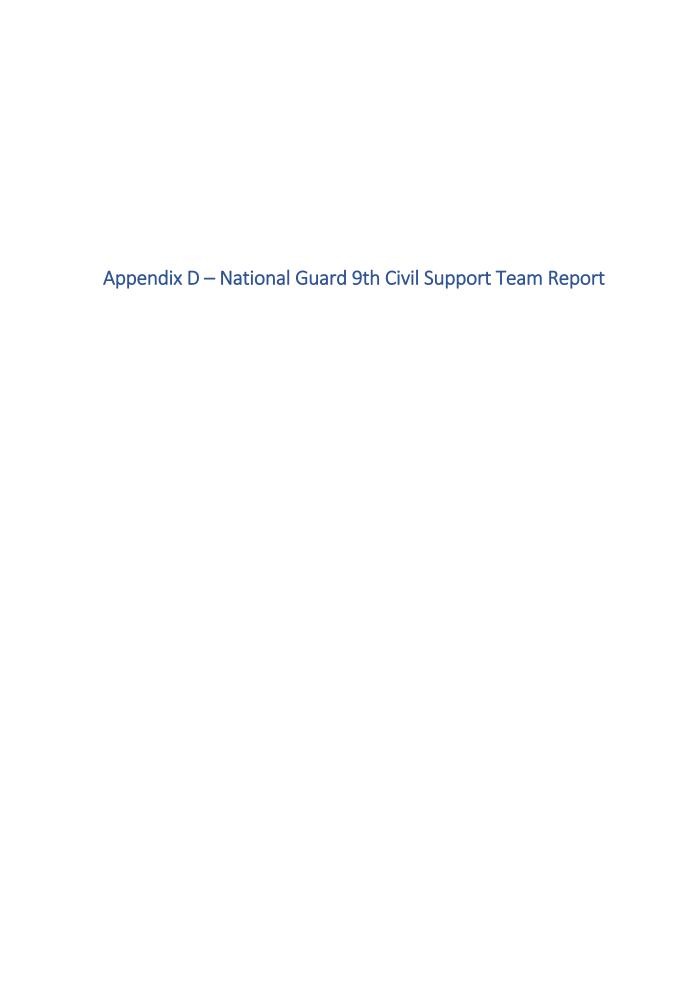
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FRMAC APPROVED

NNSA Consequence Management Home Team Contact (702) 794 - 1665

FRMAC APPROVED





9th Civil Support Team (WMD) Close Out Report: 19 November 2018



Section 1

Commanders

Executive Summary



DEPARTMENTS OF THE ARMY AND THE AIR FORCE

CALIFORNIA NATIONAL GUARD 9TH Civil Support Team (Weapons of Mass Destruction) 11302A Independence Road, Los Alamitos, CA 90720

NGCA-CST-S-CR 19 November 2018

MEMORANDUM FOR: Incident Commander

SUBJECT: Commander's Executive Summary

1. IC Objectives

- A. 6 Air samples in the Bell Canyon community area
- B. 6 Soil samples in the Bell Canyon community area
- C. Get Presumptive Analysis for Sample in ALS
- D. Report Findings of Presumptive Analysis to IC
- 2. **Identification of contaminant**: The 9th CST identified <u>hydrocarbon chains</u> and <u>plant</u> <u>materials</u> during its presumptive analysis. The hydrocarbon chains may have originated from sample preparation syringe/filter materials or possibly from car oil runoff from the nearby street. Hydrocarbons are often found in soil near roadways and in residential or other areas; therefore, finding them in both the matrix background which was taken in a location known to be safe, as well as the sampling locations at Bell Canyon is unremarkable. The plant materials likely originated from plants near the sampling site. The monitoring technologies of the CST for chemicals are designed to detect volatile/semi-volatile organic compounds and not geared towards detecting heavy metals.
- 3. **Chronology of Events:** The 9th CST was requested by CAL EPA to provide support to the California Department of Toxic Substances Control (DTSC) on 090010NOV2018. The CST was asked to get air and soil samples in conjunction with the Department of Energy's (DOE) offsite radiation sampling efforts at Bell Canyon. The CST was asked to conduct chemical analysis at sampling locations in the Bell Canyon community area for volatile organic compounds. On 11NOV2018 the 9th CST took one air sample and soil sample at SITE ONE with DOE. Further samples were originally planned for that day. A significant increase in wind conditions changed the fire threat to the teams in that area, as a result of the increased threat the teams evacuated the sampling locations. The 9th CST conducted presumptive laboratory analysis in the ALS for SITE ONE air and soil samples on 11NOV2018 with no significant findings.

On 13NOV2018 the 9th CST resumed the sampling mission in conjunction with DOE. The initial plan for that day was to take air and soil samples from four (4) sample locations in the Bell Canyon community area. DOE completed sampling the initial four sites and decided to add two additional sample locations. The 9th CST Commander directed the CST sampling teams to return the samples from the four locations so that the lab could begin its analysis. This decision was made in order to allow the lab to start its analysis at its deployed location in an effort to allow the 9th CST Commander to provide DTSC presumptive analytic results more quickly. One of the two CST sampling teams ended up taking an additional air and soil sample in conjunction with DOE because they did not receive the message to return with the samples that were already completed due to a lag in communications. The other CST field sampling team received the message before they conducted any additional sampling. Upon completing the field sampling operations both CST sampling teams took back all samples taken to the Analytical

SUBJECT: Commander's Executive Summary

Laboratory System (ALS) vehicle to start the presumptive analysis to give the IC the results as quickly as possible. This is why the 9th CST has one fewer sampling location at Bell Canyon than the DOE team. The decision to command the sampling teams to return to the ALS with samples as well as to run the composite samples first was made by the 9th CST Commander in an effort to give the civilian authorities access to presumptive laboratory results in a more expeditious manner.

In total, the 9th CST took six (6) air and soil samples from six sample locations (one sample location both air and soil on day one of sampling and five additional locations both air and soil on the second day of sampling operations). On 13-14NOV2018 SITE TWO through SITE SIX samples were first analyzed as composite samples in their respective matrices with no significant findings, followed by individual sample analysis that also showed no significant findings.

- 4. **Survey:** the 9th CST Survey Section was tasked with collecting AIR and SOIL samples of the Bell Canyon Community according to the guidance of the Department of Energy counterparts on scene. The FLIR Instantaneous Biological Analyzer and Collector 1 (IBAC) and the Smart Air Sampler System 3100 (SASS) were utilized for filtered air analysis. A sterile plastic scoopula was utilized for the collection of soil. All samples were taken from the same locations dictated by the DOE specialists on scene. Environmental monitoring was conducted using MultiRae Pro detectors. Nothing outside of normal conditions was detected during sample collection. Descriptions of sample sites are as follows.
 - a. Site 1 21 Bell Cyn Rd. West Hills, CA 91307 (34.20612, -118.66960). Air and soil sample collected on NORTH side access road. Charred area with ashen debris. IBAC and scoopula utilized for collection. No significant changes in background from environmental detection equipment. Solid, air filter, and liquid extraction of air filter collected for analysis. Samples B239739 S(oil) and B239739 L(iquid) respectively.
 - b. Site 2 232 Saddlebow Rd., Bell Canyon, CA 91307 (34.21525, -118.70973). Air and soil sample collected on NORTH side of the cul-de-sac between two homes. The area was not significantly burned and had standard vegetation for the area. SASS and scoopula utilized for collection. No significant changes in background from environmental detection equipment. Solid, and air filter collected for analysis. Samples B234501 S(oil) and B234501 A(ir Filter) respectively.
 - c. Site 3 74 N Coolwater Rd., Bell Canyon, CA 91307 (34.21486, -118.67586). Air and soil sample collected on SOUTH side of the cul-de-sac between along the fence line. The area was not significantly burned and had standard vegetation for the area. IBAC and scoopula utilized for collection. No significant changes in background from environmental detection equipment. Solid, and air filter collected for analysis. Samples B239374 S(oil) and B239374 A(ir Filter) respectively.
 - d. Site 4 10 Wagon Ln., Bell Canyon, CA 91307 (34.21422, -118.69343). Air and soil sample collected on NORTH side of the cul-de-sac between two homes. The area was significantly burned and had charred vegetation. SASS and scoopula utilized for collection. No significant changes in background from environmental detection equipment. Solid, and air filter collected for analysis. Samples B234506 S(oil) and B234506 A(ir Filter) respectively.
 - e. Site 5 32 N Marlboro Ln., Bell Canyon, CA 91307 (34.21363, -118.68617). Air and soil sample collected on SOUTHWEST side of the cul-de-sac between along the pony wall. The area was not significantly burned and had standard vegetation for the area. IBAC and scoopula utilized for collection. No significant changes in background from environmental detection equipment. Solid, and air filter collected for analysis. Samples B234502 S(oil) and B234502 A(ir Filter) respectively.
 - f. Site 6 49 Hackamore Ln., Bell Canyon, CA 91307 (34.20920, -118.68182). Air and soil sample collected on 20 feet WEST of the side of Hackamore Road. Charred area with ashen debris. IBAC and scoopula utilized for collection. No significant changes in background from environmental

SUBJECT: Commander's Executive Summary

detection equipment. Solid, and air filter collected for analysis. Samples B233602 S(oil) and B233602 A(ir Filter) respectively.

5. Analytical:

A. The Analytical Laboratory Science Vehicle presumptively concluded that hydrocarbon chains and plant materials were found in environmental samples. The soil and air filter samples were analyzed using Gas Chromatography-Mass Spectrometry (GC-MS). Hydrocarbon chains may have originated from sample preparation syringe/filter materials or from car oil runoff from the nearby street. Plant materials likely originated from plants near the sampling site. No compounds were found in samples that were not in matrix background, other than plant materials.

6. **Medical**:

- A. <u>Health effects</u>: There are no expected current or future health effects specifically relating to the findings provided by the analytical laboratory. Wildfires themselves have known adverse health effects due to the particulate matter and gaseous emissions that become airborne when vegetation and wood burn. Respiratory symptoms would likely result and would be most pronounced in those at the extremes of age and with preexisting cardiopulmonary disease.
- B. <u>Treatment</u>: No treatment is required relating to the analytical findings. Individuals in and around the burn areas should exercise precaution and limit outside activity as much as possible and evacuate if asked to avoid unnecessary inhalation of fire products. If individuals suspect they have symptoms relating to the fire, they should seek medical attention for evaluation and potential treatment.
- 7. Contaminated Durable/Expendable Items: Refer to Close Out packet for list.
- 8. Follow on Actions/ Recommendations: None.

9. Questions and/or concerns can be addressed to the undersigned at (562) 254-8078 or neal.p.rodak.mil@mail.mil.

Digitally signed by

RODAK.NEAL.PATRICK.1237824926

Date: 2018.11.19 13:58:16 -08'00'

NEAL P. RODAK Lt Col, CA ANG

Commander, 9th Civil Support Team

Section 2

Hazard Location/

Hazard Conclusions



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Final Call Notes (Tacht	ical indom	orte annuma	ueviati	interpretation	a Dave Affected	the reported	results	: LI Yes	M No	
Final Call Notes [Techs	icar landin	cata, opinior	is, and	merprecicio	us' n abbucapi	e, and the Basi	for th	ese opinio	nal: Nothing four	id.
STANDARD TEST I Shimadzu QP2010+ GO	MIC	1303110310	analyt	acar resting	performed in	accordance	with th	e Special	Text)	
Applicable I Not App						Boon	and the same			
GC/MS Notes: Batter have	MEMULE					QC Notes:			QC Criteria	
Retention Time	-			Compound		QC INOTES:			CAS#	
Enter PT have Enter o	, F1 1	M PARK						2-2	CAS # here	-
Enter K'l hare Better a	250, 200								CAS # here	
liluminatIR FTIR										
☐ Applicable ☑ Not App	licable					QC Perf QC Notes: 1			QC Criteria	Andrings
				Sample appea	rs to consist of a	Select	CANADA ME	100		
		Compound					_	C	AS#	
Enter compound name have	3000					Enter CAS	# here			
Polarized Light Micros Applicable Not App					_					
PLM Notes: Enter here	nicable									
				Sample appea	rs to consist of a	Select				
M	ounting	Gen					Bire	fringenc		
Possible	edia/Refracti	1 2 2 3	it or	Size (µm)	Color/	Relative Refractive	e: is	otropic,	Extinction	Sign of
Identification(s)	dex(es) Used	2.00	15 57	See (pas)	Pleochroism	Index(es)		, Mod.,	Characteristics	Elongation
Possible ID have Es	ior hore	Pare	r licere	Enter here	Enter here	Enter here	or H		Sister have	Calaca
EPI-Fluorescence Micro	овсору			1		Linear Marie	-	ia .	College State	Select
☐ Applicable ☑ Not App						☐ QC Perf	ormed	□ Met ST (C Criteria	
Fluorescence Notes: Fine						QC Notes: I			20 01111111	
Postsoto	0.1				escence Assessme					
Excitation UV		-	-	Autofl	uorescence Color				Comments	
Blu		-			Enter have			To-C	V comments here	
Gree					Bater here				en comments here	-
			Ind	uced Fluoresc	ence of Biologica	l Particles		100	an ordinately last	
Possible Identification	-(-)		n .		12 to 10 East		and I		article Characteri	istics
Possible Identification	n(s)		Probe		Excitation Color	r Emission (Color	Particle		g., shape,
Possible ID here		Select or type	arche tie	ed	Enter here	Enter he	me.	Size (µm)	biological pa	tterning, etc.)
JBAIDS PCR					Tremet titrafe	Address of the	pris.	Carried State		
☐ Applicable ☑ Not App PCR Notes: Energy hore	licable					□ QC Perfe	ormed	Met ST C	C Criteria	
	Farget(s)		-	Result	-	QC Notes: I		6		
Select or type Target here	Err(a)		Se	inci	Select or 1	Tier 2 Targ	(cr(2)		Res Splags	710



ALS Sar 9-18111			Sample ID 234501S	34501S 11/13/2018					
		REVISED REI	PORT SECTION						
Check here if this is a	Bute of the original re-	nort: Select original report d	ate Indition of	person making the clu	unge: Enter have				
revised report (if m.	List the revised section			mon for the change: E	ater here				
pro- por	Town title Language was to	DIE CHICK DESC	Note that 19	most and have compage. It	allow course				
PR2 ECL ☐ Applicable ☐ Not Ap ECL Notes: Enter here	plicable			Performed Met ST	QC Criteria				
	get	Result		Notes					
Bot - Botu	linum toxin	Select	1	Bot-specific note					
SEB - Staphyloco		Select		SEB-specific not					
	cin	Select	1 1	Rich-specific not					
		ESULTS (Performed	using methods and/	or matruments inc	dadea in 31)				
Wet Chemical Paper T ☐ Applicable ☑ Not Apper Test Notes: Extend	plicable			erformed Met ST (QC Criteria				
	is Aqueous OR Organ	tic (color Enter here)	1 00 1500	O. Labour Inner					
	cidic, Neutral, OR B								
	es sample is Oxidizing O								
Hand Held Immunoas									
☐ Applicable ☑ Not Ap	plicable			erformed Met ST (QC Criteria				
HHA Notes: Emer here				s: Enter here					
		ving target(s) Enter here, but	does not necessarily indica	te presence of viable, p	athogenic microorganisms or active				
toxin. Rerun result has	been obtained for the follow	uring targetts): Enter have							
		following target(s): Hater he	ere. Rerun results: Enter h	bré					
M256A	NY ILANG STREET STREET, STREET								
☐ Applicable ☒ Not Ap M256A Notes: Enter hors	plicable								
Results are negative	OR Analysis indicates th	e presence of Nerve Age	ents Blister Agents	lood Agents Lewis	ite				
Raid-M IMS	Ole Thingsia indicates th	e presence of Carterior rige		Total I Igentation					
☐ Applicable ☑ Not A	pplicable								
RAID-M Notes: Enter ha									
☐ Results are negative		s the presence of Enter here							
Radiological Data Ana	lysis								
☐ Applicable ☑ Not A	pplicable								
Isotopes: Enter here	mation and Massas Batash								
	mation and Notes: Enter h	rformed using metho	de and/on instrumon	w NOT included i	- STA				
	id/or instrument used:		Non-standard Results	Enter have	231)				
METHOD DEVIAT		el mate	INOU-SIZINGATU RESUITS	Family more					
		ecial Text methods that we	ere used for the analysis o	f this sample? M No. i	Ves If we list helpw:				
Deviation Number:	is made to the standard of	COM LEAT MEETINGS that W	Brief Description of Devi		1 tes 11 yes, list below.				
Deviation # here			Description here						
	MPLE ANALYZED I	BY:		REPORT REVI	EWED BY:				
Name		Date	N:	ame	Date				
Brian Quigley		13/2018	Daniel Nadeau		11/13/2018				
REPORT AUTHOR	RIZED FOR RELEA	SE BY:							
	Name		Signature (if applicable)	Date				
Brian Quigley			(min)		11/14/2018				
CLOTYMER:									
			results, please conta	et the Unit POC a	if the phone number below				
Ui	it POG: linea (Intel	ty .	Unit Po	C phone number	: 502,254.5017				
Tager	wide (endland) of sub	one a constituint, plea	se pi les						
Notes to the customer;									
Copies of this test report Data provided by the cu Deviation Forms listed a	should be made in full. stomer is identified in the bove are available for revi	d and only to the portion to final call notes above and c lew upon request.	an affect the validity of th						
Any additional community	ditions were required for for the customer can be cal	interpreting results, they a	are included in the Firm C	can itutes seemin.					



	Sample ID		1,12	Origina	I Sample ID B239374S	-			eport Date 11/13/2018	
7 101					EPORT SECTIO	ON				
Check here if this	is a Date of the	prining ren		t original report		nitials of perso	n making (he chu	nge: Enter here	
revised report (if w	A SHITE OF SHE									
complete this section	M(ned section	1 000000			ist the reuson				
NOTE: To add ac					s, touch the ro	w and hit th	e plus (+) sign		
Incident		Sam	ple Recei			Operator Unit 9th CST	#:		Testing Location/	
Santa Susana R Customer Name and I			11/13/20	118	1	à C21	_	-	ALS	
Sample Type: Crys		r 🗆 Liquid	□ Slude	e Soil/Soli	d Vegetation	☐ Wine/Swab	Other (F	inter h	ere) Sample Am	ount: 1.5 g
☑ Looked for unknow							- Other 1s			
☑ Analyzed per ST (v										
☐ Analyzed per meth										
				FINAL RES	SULTS SECTIO	N.				
☑ Check here it	f									
nothing of interest	was Test Res	ults: Enter	final tes	st results her	e					
detected										
Analysis Date(s): 20	0181113				ALS Notebo	ook Page(s) #:	82			
Did the customer re	equire any samp	le handling	deviatio	ns that could	have affected th	he reported re	sults?	Yes	⊠ No	
Final Call Notes T	echnical judgme	nts, opinion	ns, and i	nterpretation	s, if applicable,	and the basis	for these o	pinio	ins : The first 4 co	
listed likely originate										
originating from pla	stic syringe/filter	used to prep	pare samp	ole. Conclusi	on: Some plant m	aterial from a	nearby trea	e or pl	lant was collected	into the soil
sample. Nothing ha	rmful detected.									
STANDARD TE	ST RESULTS	Standard	analyti	cal testing p	performed in se	ccordance w	ith the S	pecia	l Text)	
Shimadzu QP2010-										
⊠ Applicable □ No						☑ QC Perfo	rmed 🖾 M	let ST	QC Criteria	
GC/MS Notes: Enter I						QC Notes: E				
Retention Time				Compound					CAS#	
	lpha-Phellandrene							-	83-2	
	ucalyptol							1	-82-6	
	lloaromadendrene	the standard bases	- Francis	to death with a				0-00	46-27-9	
The second secon	-hydroxy-4-methox etradecane	yacciophenor	ic. TBUM	5 derivative				-	1-59-4	
	exacosane							-	-01-3	
	eptadecane							_	-78-7	
	nter compound nor	se here						Enti	er CAS A here	
IlluminatIR FTIR										
☐ Applicable ☒ No	t Applicable					☐ QC Perfo		let ST	QC Criteria	
FTIR Notes: Enter he	re					QC Notes: E	nter here			
				Sample appear	rs to consist of a: S	elect			2124	
Enter compound name	-	Compoun	d			Enter CAS	d bass		CAS#	
Polarized Light Mi						Emer CAS	e DCTC			
☐ Applicable ⊠ No										
PLM Notes: Enter her										
	T			Sample appear	rs to consist of a: S	elect				
	Mounting	Car	neral	1		Relative	Birefrin			
Possible	Media/Refracti	1.75077	bit or	Size (µm)	Color/	Refractive	e: Isotro		Extinction	Sign of
Identification(s)	Index(es) Used		pe	Stat (pin)	Pleochroism	Index(es)	Low, Me		Characteristics	Elongation
Possible ID here	Enter here	-	er here	Enter here	Enter here	Enter here	or High Select	-	Enter here	Select
EPI-Fluorescence		EIII	er mete	Lanes trete	Ether Bele	CHICK HELL	Delete		Earner Isere	SERVE
☐ Applicable ⊠ No		-	-		-	□ OC Perfe	rmed [] a	let ST	QC Criteria	
Fluorescence Notes:						QC Notes: E			Ve Cincia	
				Autofluore	scence Assessmen					
Exc	itation Color			Autoflu	orescence Color				Comments	
	UV				Enter here				UV comments here	
	Blue				Enter here				Blue comments here	
	Green		1.0	and Danie	Enter here ence of Biological I	Postinia:		0	reen comments here	
		_		uccu riuoresc					Particle Character	istics
Possible Identi	fication(s)		Probe		Excitation Color	Emission C	Color	Partic		.g., shape,



ALS San 9-181113		Origin	nal Sample l 3 B239374S		Report Date 11/13/2018		
		REVISED	REPORT SEC	TION			
Check have if this is n	Buts of the original	lost report: Select original rep	ort date	Initials of per	rann muhi	ng the chape	Enter here
revised report (if so,		section(s): Enter here			_		
complete this section)	Cast (the Leading	secrement come perc		THE PERSON	of the pas	change Enter	
Possible ID here	Calan	t or type probe used	Enter here	Enter h		Size (µm)	biological patterning, etc.)
JBAIDS PCR	3333	in type processes	Marie Ball	P	lest	Enter hore	Enter here
☐ Applicable ☑ Not App PCR Notes: Easter here	licable		104 miles	QC Per QC Notes:		Met ST QC	Criteria
	Target(s)	Result		Tier 2 Tar			Result
Select or type Turget here		Select	Select or	type Target here			Select
PR2 ECL							
☐ Applicable ☑ Not App ECL Notes: Fotor hore	licable			QC Per QC Notes:		Met ST QC	Criteria .
Targ		Result				Notes	
Bot - Botulis		Select				ecific notes he	
SEB - Staphyloccoo	The state of the s	Seloct				ecific notes he	
Rici		Select			Ricin-e	pecific notes h	Tar.
		AL RESULTS (Perform	med using met	hods and/or	instrum	ents includ	ded in ST)
Wet Chemical Paper Te							
☐ Applicable ☑ Not App	licable	,		□ QC Perfo	ormed 🗆	Met ST QC	Criteria
Paper Test Notes: Hater he		10-2-1-1		QC Notes: E	nter here		
And a Commission of the Commis		Organic (color Enter here)					
		zing OR 🗆 Non-oxidizing					
Hand Held Immunoassa		zing OK Non-oxidizing					
☐ Applicable ⊠ Not App				75			
HHA Notes: Enter here	ncable					Met ST QC	Criteria
	en obtained for the	following (prost/s) Enter have	hur done not none	QC Notes: E	inter here		genic microorganisms or active
toxin. Rerun results:	Pater bere	tonowing surger(2) Cames more	. Dut does not nece	ssarily indicate p	resence of	viable, patho	genic microorganisms or active
 A negative result has b 	een obtained for th	e following target(s): Enter her	re.				
 An inconclusive result 	has been obtained	for the following target(s): Est	ar hare. Rerun res	ults: Enter here			
M256A							
☐ Applicable ☒ Not Appl	icable						
M256A Notes: Enter here							
☐ Results are negative O	R Analysis indic	ates the presence of D Nerve	Agents, Blister	Agents, Bloo	d Agents,	☐ Lewisite	
Raid-M IMS							
☐ Applicable ☑ Not App	licable						
RAID-M Notes: Enter here		0					
Results are negative O	The state of the s	dicates the presence of Erner h	iore,				
Radiological Data Analy							
☐ Applicable ☑ Not App Isotopes: Enter here	icable						
Other Radiological Informa	tion and Notes: E	man ham					
NON-STANDARD TO	CT DECLI T	S (Performed using me	shade and/ t-		iom:		
Non-standard method and/	or instrument use	d Enter John astud Me	thous and/or if	astroments is	WOT inc	luded in S	1)
METHOD DEVIATION		u. 2000 1000	INOH-Stand	ard Results: Em	ser here		
		and Consist Tout weather the st	10.01				
Deviation Number:	made to the stand	ard Special Text methods tha	Prise Description	e analysis of this	s sample?	⊠ No □ Yo	s If yes, list below:
Deviation # here			Description he	tion of Deviation	nı		
	LE ANALYZ	ED BV-	Description Inc.		EDODI	DEMEN	ED DV
Name		Date				REVIEW	1
Brian Quigley		11/13/2018	Daniel Nadeau	Name			Date 11/13/2018
REPORT AUTHORIS	to anner student				11/13/2016		
	Name			ianatura CC	an Carlo		
Brian Quigley			12.53	ignature (if ap	рисавје)	Date
CUSTOMER:			7.00				11/14/2018
							THE RESERVE OF THE PERSON NAMED IN COLUMN 1997 AND ADDRESS OF THE PERSON
THE REST OF THE PARTY OF THE PARTY.	DATE: MORROWS IN	No. 120. CHARLEST PROPERTY AND LABOUR THE	THE PERSON NAMED IN	Name and Address of the Owner, where	No. of Lot,		a principal promises bulleting



ALS San 9-181113		Original Samp site3 B239374		Report Date 11/13/2018			
		REVISED REPORT S	ECTION				
Check here if this is a revised report (if so,	Date of the original rep	urt: Select original report date	Initials of perso	n making the change. Enter here			
empiete this section)	List the revised section;	s) Enter here	List the reason for the change. Enter here				
Tir provi	de feedback or wing	alt a complaint, please ye to:					
Copies of this test report st Data provided by the custo Deviation Forms listed abo	rould be made in full. omer is identified in the fin we are available for review itions were required for in	terpreting results, they are include					



ALS St 9-1811	imple ID 13-003			-		mple ID 506(S)				eport Date 11/13/2018		
				REVISED F			N.					
Check here Walk to	Date of the	n ordeland run	ert Sale	ot original super	rt dete	1	oltinia of parso	n molt	or this class	nde: Roter here		
revised report (if us,		reised section						coops for the change Enter lore				
complete this sertion)												
NOTE: To add add					25, 10				(+) sign		IALO CO UDO.	
Incident ID Santa Susana Res	-	Sam	11/13/2	eipt Date:			Operator Unit 9th CST	#:		Testing Location		
Customer Name and Ph			11/13/2	2010		-	7 C31			AL	3	
Sample Type: Crysta	The state of the s	der 🗆 Liquid	□ Sluc	ige Soil/So	lid 🗆	Vegetation [☐ Wipe/Swab	□ Oth	er (Enter he	se) Sample A	mount: 1.5 gm	
☑ Looked for unknown												
☑ Analyzed per ST (wi	th deviations, it	f required), SI	version									
				FINAL RE	SULT	SECTIO	N					
☑ Check here if				2 41 51 442 442	300.00	D DEC 110		_				
nothing of interest w	Test Re	sults: Enter	final to	est results he	ere							
Analysis Date(s): 201	81113				17	ALS Notebo	ok Page(s) #	: 82				
Did the customer req	uire any sam	ole handling	deviati	ons that coul	ld have	e affected th	e reported re	esults?	□ Yes	⊠ No		
Final Call Notes Tec											on chains	
found, likely coming f										and the same of the same of		
STANDARD TEST							cordance w	ith th	e Special	Text)		
Shimadzu QP2010+		A CONTRACTOR OF THE PARTY OF TH		mar maring	Per 10	- Annual and make	-venance ii		- a pecali			
☑ Applicable ☐ Not					-		OC Perfo	emed [Mei ST	OC Criteria		
GC/MS Notes: Enter her							QC Notes: E			QC CITICIA		
Retention Time				Compound	1		40,100,00			CAS#		
10.704 Telt	adecane								629.	-59-4		
	adecane									92-5		
	tadecane								629	-78-7		
IlluminatiR FTIR												
☐ Applicable ☑ Not A	Applicable						QC Perfo			QC Criteria		
		Company		Sample appea	ers to co	onsist of a: Se	elect	_		164		
Enter compound many is		Compound			_		Emer CAS	g hara		AS#		
Polarized Light Mice			-		_		Editor C. M.O.	N MADE				
☐ Applicable ☑ Not								-	_			
PLM Notes: Enter hore	*pparaoic											
		-		Sample appea	ers to co	onsist of a: S	elect					
	Mounting	Car	neral				Relative	Bire	fringene			
Possible Identification(s)	Media/Refract Index(es) Used	tive Hal	oit or	Size (µm)	Plea	or/ ochroism	Refractive Index(es)		otropie, , Mod., igh	Extinction Characteristics	Sign of Elongation	
Possible ID hare	Enter here	Emp	or here	Enter here	Enti	or here	Enter here	Selec		Enter hare	Select	
EPI-Fluorescence M	icroscopy											
☐ Applicable ☑ Not . Fluorescence Notes: En							QC Perfo			QC Criteria		
						e Assessment						
Excita	tion Color		-	Autofi		ence Color				Comments		
	UV			-	Enter I					V comments here		
	Blue Enter here Blue onnenents here Green Finter here Green comments here											
	этсен		In	duced Fluores			articles		CI	cer considerate and		
				The state of the s	tine 0	. Dividenti		~		Particle Characte	ristics	
Possible Identific	ation(s)		Probe		Excita	ation Color						
Possible ID here		Select or typ	s piche u	mod	Er	nter here	Enter he	re	Enter he			
JBAIDS PCR												
☐ Applicable 🖾 Not	Applicable									QC Criteria		
PCR Notes: Financian	-						QC Notes: I		nė.	-	noult	
	r 1 Target(s)			Result	-	Color and	Tier 2 Targ	ct(s)		Select	esult	
Select or type Target has	W.		5	elect		THIS OF OR	e Target here			DOMESTI		



ALS Sar 9-18111			Sample ID 234506(S)						
		REVISED RE	PORT SECTION						
Cheek here If this is a	Bate of the original rep	ore Sciect original report d	ate Luttinio	of purson making the chi	unge: Boter bere				
revised report #6 m.	List the revised section			reason for the change: E	inter here				
complete this section)	Last the Heavest McComm.	(w) Come more	Time offer	some sol car configs.	CHOOL EMPLY				
PR2 ECL ☐ Applicable ☑ Not Ap ECL Notes: Enter here	plicable			C Performed Met ST	QC Criteria				
Tar	get	Result		Notes					
Bot - Botul	inum toxin	Select		Bot-specific note					
SEB - Staphylocco		Select		SEB-specific not					
Ric		Select		Ricin-specific not					
		ESULTS (Performed	using methods an	dor instruments inc	cluded in S1)				
Wet Chemical Paper T ☐ Applicable ☑ Not Ap	plicable		200	Performed Met ST (QC Criteria				
Paper Test Notes: Emer be		in Index Date have	QC NO	otes: Enter here					
	is 🗆 Aqueous OR 🗆 Organ cidic, 🗆 Neutral, OR 🗆 Ba								
	s sample is Oxidizing O								
Hand Held Immunoas		The train territories							
☐ Applicable ⊠ Not Ap			1□00	Performed Met ST (OC Criteria				
HHA Notes: Enter here	Y-13-1-1-1			otes: Enter here					
		ring target(s) Enter here, but	does not necessarily ind	icate presence of viable, p	athogenic microorganisms or active				
toxin. Rerun results									
	been obtained for the follow	following target(s): Enter here.	on Berna results: Enter	home					
M256A	it has been obtained for the	lottowing target(s). Lines on	et, retuil (cours. Luma	DELIC					
☐ Applicable ☑ Not Ap	olicable								
M256A Notes: Enter here	, incapit								
☐ Results are negative	OR Analysis indicates th	e presence of D Nerve Age	ents, Blister Agents,	Blood Agents, Lewis	ite				
Raid-M IMS									
☐ Applicable ☑ Not Ap									
RAID-M Notes: Enter her									
		the presence of Enter here							
Radiological Data Ana									
☐ Applicable ☑ Not Ap Isotopes: Enter here	рисавте								
Other Radiological Inform	mation and Notes: Enter he	arc .							
	and the same of th	rformed using metho	de and/or instrume	ents NOT included i	n ST)				
	d/or instrument used: Em		Non-standard Resu						
METHOD DEVIAT	IONS								
Were there any deviation	s made to the standard Sp	ecial Text methods that we	ere used for the analysis	s of this sample? No	Yes If yes, list below:				
Deviation Number:			Brief Description of De	viation:					
Deviation # hore			Description here						
	IPLE ANALYZED E			ST REPORT REVI					
Name		Date		Name	Date				
Brian Quigley			Daniel Nadeau		11/13/2018				
REPORT AUTHOR	IZED FOR RELEA	PE BA:							
71.0.11	Name		Signature	(if applicable)	Date				
Brian Quigley			ween	34 mill	11/14/2018				
CANTONEL	Many many	and the same of th	married at the same	And the latest the lat					
			resums, please con	tact the second	The provide regarded before				
	it POC: Brian Chiefe			POE phone house					
	value (undita- la o - su i	milities militain plea	42 70 W.						
Copies of this test report Data provided by the cus Deviation Forms listed a	should be made in full. tomer is identified in the f bove are available for revi	l and only to the portion te final call notes above and c ew upon request.	an affect the validity of						
If any environmental cor	ditions were required for for the customer can be out	interpreting results, they a	are included in the Fina	Call Notes section.					



	Sample ID				al Sample ID B234502(S)		Report Date 11/13/2018			
2-10	4.4.40-40-4				EPORT SECTI	DIN				
Physical Residence	On the second							and the sales of	nos Photos ham	
Check here I'm		Annual Sec		t original repo		militarili or per	NOW MANUAL	THE CHAIN	ge: lister here	
period report (ill coughts (ids sent	Limiter	eritari partire	(4): Enter l	NOTE		List the runin	in ther this of	sege Enl	or have	
NOTE: To add a	dditional row	s in any of	the light	vellow are	as, touch the re	w and hit	the plus	(+) sign	on the right.	
Inciden			nple Recei			Operator Un		1	Testing Location/	ALS (if diff):
Santa Susana		U.	11/13/20			9th CST			ALS	
Customer Name and						-				
Sample Type: Cry		der 🗆 Liquid	☐ Sluds	e Soil/So	id D Vegetation	☐ Wipe/Swa	o 🗆 Other	(Satur ho	e) Sample Am	ount: 1.5 gm
Looked for unkno										
■ Analyzed per ST ■ Analyzed per met	(with deviations, i	f required), S	T version:							
S remargated per men				FINAL RE	SULTS SECTIO	IN				
M Check here	10		_	1 30 12 310 140	OC LIVE BELL TIL	-				-
nothing of luteres		enlie Ente	final to	st results he	The Control					
detected	Will Lear Ice	STATEST LAKE	ranur so	at I Diraino III						
Analysis Date(s):	20191112				ALS Noteb	ook Page(s)	#+ 27			
		who I a ser	a design	ma 62 - 4 1				DV	M Na	
Did the customer	require any san	ple handlin	deviatio	ons that coul	a nave affected t	ne reported	results!	LI YES	W 70	1 - 2 - 1
Final Call Notes			ns, and i	nterpretatio	us, if applicable,	and the bas	is for thes	e opinior	is: All compoun	ds found
were natural plant										
STANDARD TI	IST RESULTS	S (Standare	analyti	cal testing	performed in a	ccordance	with the	Special	Text)	
Shimadzu QP2010										
☑ Applicable □ N						☑ OC Per	formed 🖾	Met ST (QC Criteria	
GC/MS Notes: Enter						QC Notes:				
Retention Time				Compound					CAS#	
7.838	Fucalyptol							470-	82-6	
11.093	Aromandendrene							489-	39-4	
13.201	l.auraidehyde							112-	54-9	
	2-nonadecanone							629-	66-3	
The state of the s	1.2.15.16-diepoxyh	revadecane						()-()()-	4)	
IlluminatiR FTIR										
☐ Applicable 図 N	ot Applicable					☐ QC Per	formed [Met ST	QC Criteria	
FTIR Notes:	100					QC Notes:	Enter here			
				Sample appea	rs to consist of a: !	leloct				
		Сопрово	ıd					C	AS#	
Enter compound man						Enter CA	S # here			
Polarized Light N										
☐ Applicable ☒ N										
PLM Notes: Butter	ALC: UNITED IN		-							
				Sample appea	rs to consist of a: §	idect	1 -7 -			
Possible	· Mounting	Ge	neral		Colont	Relative	F 10 10 10 10 10 10 10 10 10 10 10 10 10	ingenc	Post sustan	C1
Identification(s)	Media/Refrac		bit or	Size (µm)	Color/	Refractive		ropic,	Extinction	Sign of
luchtification(s)	Index(es) Use	d Sh	ире		Pleochroism	Index(es)	or His		Characteristics	Elongation
Possible ID have	liming horse	12	ter here	Enter have	Enter here	Enter here	Select		Fator here	Salect
EPI-Fluorescence		1		-			- principle			-
□ Applicable ❷ N			_			ПОСР	formed [Met ST	OC Criteria	
Fluorescence Notes:							Enter here		Ac cureum	
- de cottact roits				Antofluor	escence Assessmer				- T	
Ex	citation Color				uorescence Color		1	-	Comments	
	UV			7,000	Contr here			13	V continues here	
	Blue				Bater have				us community here	
	Green				Enter here				es consuments here	
			Ind	uced Fluores	ence of Biological	Particles		200		
				0		1			Particle Character	istics
Possible Ident	tification(s)		Probe		Excitation Color	Emission	Color	Particle		g., shape,
						1000000		Size (µm) biological pa	tterning, etc.
Possible 10 harc		Select or by	op probe un	ed	Bater bese	Enter	have	Berlin ber		
JBAIDS PCR	1.53-56-1									
☐ Applicable 図 ?							rformed [QC Criteria	



ALS San 9-181113			Sample ID 34502(S)					
			ORT SECTION					
☐ Check here if this is a	Date of the original con-	ort: School original report da		non making the char	Date have			
revised report (Was,								
complete this section)	List the revised sections			s for the change: Est	tor have			
Tier 1	Target(s)	Result	Tier 2 Tar	get(s)	Result			
Select or type Torget have		Select	Select or type Target here		Select			
PR2 ECL								
☐ Applicable ☑ Not App ECL Notes: Enter here			QC Peri		C Criteria			
Bot - Botulia		Result		Notes				
SEB - Staphyloccoc		Select Select		Bot-spectific notes				
Rici		Select		SEB-specific notes Ricin-specific notes				
			using methods and/or	instruments inch	uded in ST)			
Wet Chemical Paper Te	eit	COOL TO IT CHOINED	using miccinous and/or	mari dimento incli	naeu (n 31)			
☐ Applicable ☑ Not App			OC Parfo	rmed Met ST QC	Calinata			
Paper Test Notes: Enter her			QC Notes: E		Criteria			
	☐ Aqueous OR ☐ Organi	c (color Enter here)	1 (3)					
	idic, D Neutral, OR D Bas							
 Starch lodide indicates 	sample is Oxidizing OR	□ Non-oxidizing						
Hand Held Immunoassa	y (HHA)							
☐ Applicable ☑ Not App	licable		☐ QC Perfo	rmed Met ST QC	Criteria			
HHA Notes: Enter here			OC Notes: E	mor here				
A positive result has be	en obtained for the followi	ng target(s) Enter here, but o	loes not necessarily indicate p	resence of viable, path	ogenic microorganisms or active			
toxin. Rerun results:	Contract of the Contract of th							
An inconclusive result	een obtained for the follow	ing target(s); lenter bare. ollowing target(s): lenter has	Decree wester Free to					
M256A	has been obtained for the fe	onowing target(s). Esser near	e, rerun results: Emair nere					
☐ Applicable ☑ Not Appl	icable							
M256A Notes: Enter here	Kabic							
	R Analysis indicates the	presence of Nerve Agen	is, Blister Agents, Blood	Agente [] Lauricita	-			
Raid-M IMS		Province of the Local Section	o, a blatel regents, a block	Agenta, LI LEWISILE				
☐ Applicable 図 Not App	licable							
RAID-M Notes: Emer have								
☐ Results are negative O	R	he presence of Enter here						
Radiological Data Analy				-				
☐ Applicable ☑ Not App	licable				_			
Isotopes: Enter here								
Other Radiological Informa	ition and Notes: Enter her							
NON-STANDARD TI	ST RESULTS (Per	formed using method:	and/or instruments N	OT included in	ST)			
Non-standard method and/	or instrument used: Enter	hist	Non-standard Results: End	or hore				
METHOD DEVIATION								
Periodical Name of the Periodical Provincial	made to the standard Spec	cial Text methods that wer	used for the analysis of this	sample? No 🗆	Yes If yes, list below:			
Deviation Number:			rief Description of Deviation	1.				
	I P ANAL VZED DI		escription here					
	LE ANALYZED BY			EPORT REVIE	WED BY:			
Brian Quigley	11/02	Date	Name		Date			
REPORT AUTHORI	ZED EOD DEL EACH		aniel Nadeau		14/13/2018			
KET UKT AUTHUKI		L DY:						
Brian Quigley	Name		Signature (if ap	plicable)	Date			
	11/14/2016							
CUSTOMER	and the second second							
in there are any quest	ons, comments, or co	oneerns about these r			he phone number below:			
Unit	POC: Brian Quigley		Unit POC	phone number: 5				
	de lambaci a seta	Figure Line plane	golder.					
Notes to the customer:								
These results pertain only t	o the sample as received a	nd only to the portion teste	ed .					
Copies of this test report sh	ould be made in full.		AN					
Deviation Forms listed above	mer is identified in the lin	at call notes above and can	affect the validity of the res	ults.				
Person a or ma nated 200	C W. C MARRIAGIC IOF ICAICM	upon request.						



ALS San 9-181113		Original Sampl site5 B234502		Report Date 11/13/2018			
		REVISED REPORTS	ECTION				
Check here if this is a	Date of the original re-	port Select original report date	Initials of person making the change Enter here				
revised report (if so, complete this section)	List the revised section	n(s) Enter here	List the reason fo	or the change Enter here			



ALS Sat 9-18111					Sample ID B233602S			I	Report Date	
3-19111	2-662			The second second	PORT SECTI	CAL			11/13/2018	
Check here if this ha	there are the	maleland		_					-	
revised report (If in,			e Salact original	Labout			_		ings: Seter have	
complete this product		vised section(s)	the state of the s			List the reason				
NOTE: To add addit	ional rows	in any of th	e light yellow	area	s, touch the ro			s (+) sig	n on the right.	
Incident ID: Santa Susana Resp	nea		le Receipt Date:			Operator Un	t#:		Testing Location	
Customer Name and Phot			11/13/2018	_		9th CST			AL	S
Sample Type: Crystalli		er 🗆 Liquid I	☐ Sludge 🖾 So	il/Solic	☐ Vegetation	☐ Wipe/Swab	D Oil	ner (Enter l	sere) Sample A	mount: 1.5 gm
☐ Looked for unknown h	azards AND/C	OR Looked	for specific haza	rd(s) li	isted here: Enter	here				
■ Analyzed per ST (with				Versio	n 3 AND/OR					
☐ Analyzed per method/i	nstructions lis	ted here: Enter	and the same of th							
			FINAL	RES	ULTS SECTIO	N				
Check here if	Tree Day	uten Pinner C	o at some and to	1						
nothing of interest was detected	l'est Res	uits: Enter i	inal test result:	s here						
Analysis Date(s): 2018)	113			_	AT & Noteh	ook Page(s)	4. 03			
Did the customer requi		te handling d	aviations that	hluns				III Vee	⊠ No	
Final Call Notes Tech	ical indome	nts oninions	and interpret	etions	if applicable	and the back	for the	esa anini	and Simple such	no strain
found, likely originating	from sample	prep syringe.	mara ancer prece	Terom's	ti applicable,	RILL THE SHIPS	FOR TH	ese opini	maj. Sumple cart	on chant
STANDARD TEST				ag n	erformed in a	reardance v	with th	e Sperie	l Tayt)	
Shimadzu QP2010+ G0					- I I I I I I I I I I I I I I I I I I I	COI CHIECC	A Lens Pile	or radication	a reacy	
☑ Applicable ☐ Not Ap	plicable		-			QC Perf	ormed 1	Met ST	QC Criteria	
GC/MS Notes: Enter have						QC Notes:				
Retention Time		_	Compo	und					CAS#	
	reserved new	ur flager							er CAS # hate	
IlluminatiR FTIR								EE	DI CAD O RESE	
☐ Applicable ☑ Not Ap	plicable					QC Perf	ormed i	Met ST	QC Criteria	
FTIR Notes: Enter here						QC Notes: 1				
		Compound	Sample at	pears	to consist of a: S	elect			0.0.0	
Enter compound name here		Compound		-		Enter CAS	al house		CAS#	
Polarized Light Micros	сору					Column de Lifter	TY ABOUTO			
☐ Applicable ☒ Not Ap	plicable					_			-	#2
PLM Notes: Enter here	1-11-11									
				pears	to consist of a: S	sloct	Throng	6.du v		
Possible	ounting edia/Refractiv	Gener	TO		Color/	Relative		fringene otropic,	Extinction	Sign of
	euia/Keiractii dex(es) Used	ve Habit Shape	Activities May	m)	Pleochroism	Refractive Index(es)		, Mod.,	Characteristics	Elongation
	ster here	Enter I			E. L.	1000 250 450	or H			
EPI-Fluorescence Micr		- Interest	iere Enter h	cie	Enter here	Enter here	Sole	30	Enter here	Select
☐ Applicable ☑ Not Ap	plicable					□ OC Perf	ormed	□ Met ST	OC Criteria	
Fluorescence Notes: Enter	have					QC Notes: I			QC CIRCIA	
	A .		Autofi	dores	cence Assessment					
Excitatio U'		-	Au		rescence Color			-	Comments	
Blu					ster bore ster here		_		IV commands have the comments have	
Gre				_	pter bere				room communicate here	
			Induced Fluo	rescen	ce of Biological P	articles				
Possible Identification	on(s)	P	robe	E	xcitation Color	Emission (Color	Partiel		.g., shape,
Possible ID here	3	Select or type p	pite med		Enter here	Enter he	ce	Size (µr		tterning, etc.)
JBAIDS PCR						- Colon III		- The same of the	Tourist India	
☐ Applicable ☑ Not App PCR Notes: Enter large	olicable					QC Perfe			QC Criteria	
Tier 1	Target(s)		Resu	t		Tier 2 Tars			Re	sult
Select or type Target here			Select		Select or type	e Target here			Select	



ALS Sam 9-181113		Original S site6 B2			Report Date 11/13/2018		
		REVISED REPO	ORT SECTION				
Check here if this is a	Bute of the original res	port: Select original report date	Enitials of p	erron making the ola	ange: Enter here		
revised report (Man,	List the revised section			mon for the change: E	inter here		
complete this section)	THE CHE LEVINGE STREET	Mar Hale	Exert Date 1 mm	most one rac cassaffe.	AIRE USEC		
PR2 ECL ☐ Applicable ☑ Not App ECL Notes: Enter here	licable			erformed Met ST	QC Criteria		
Targ	et	Result		Notes			
Bot - Botulii		Select		Bot-specific none			
SEB - Staphyloccoo		Select		SEB-specific not			
Rici		Select	1 1 1 1/	Ricin-specific not			
		ESULTS (Performed u	sing methods and/o	r instruments inc	ciuded in ST)		
Wet Chemical Paper Te ☐ Applicable ☑ Not App Paper Test Notes: □	licable			rformed Met ST (QC Criteria		
Paper Test Notes: Enter he	☐ Aqueous OR ☐ Organ	nic (color Pater here)	QC 1401C3	· Latinas Electric			
	idic, Neutral, OR Ba						
	sample is Oxidizing O						
Hand Held Immunoassa							
☐ Applicable ☑ Not App			□ QC Pe	rformed Met ST (QC Criteria		
HHA Notes: Enter here				: Enter here			
toxin. Rerun results: A negative result has l	Enter here been obtained for the follow	wing target(s): Enter here, following target(s): Enter here			athogenic microorganisms or active		
1.11	tachta.						
☐ Applicable ☑ Not App M256A Notes: Enter here	neapte						
	R Analysis indicates th	e presence of D Nerve Agents	s, Blister Agents, B	lood Agents. Lewis	ite		
Raid-M IMS							
☐ Applicable ☑ Not App	dicable				-		
RAID-M Notes: Enter here							
The state of the s		the presence of Enter here					
Radiological Data Anal							
☐ Applicable ☑ Not App	olicable						
Isotopes: Enter here Other Radiological Inform	etion and Notes: Enter he						
		rformed using methods	and/or instrument	NOT included i	m ST)		
Non-standard method and			Non-standard Results:		131)		
METHOD DEVIATI		- India	Troit Statement of Research	COMMO PROPERTY.			
		ecial Text methods that were	used for the analysis of	this semple? M No. 1	Ves If yes list below:		
Deviation Number:	Made to the olinical wop		rief Description of Devia		2 140 11 120.101 2412.11		
Deviation # here			escription here				
SAM	PLE ANALYZED E	BY:	TEST	REPORT REVI	IEWED BY:		
Name		Date	Na	me	Date		
Brian Quigley			aniel Nadeau		11/13/2018		
REPORT AUTHOR	IZED FOR RELEA	SE BY:					
	Name		Signature (i	f applicable)	Date		
Brian Quigley			Don Hein	THE P	11/14/2018		
CUSTONERS							
					it the phone number below:		
	POC: Brian Quigi			C phoge number	12 562.254,5017		
To pind	ide fooliback or anh	mit a complaint, plause	ge to:				
Notes to the customer:		Contract of the contract of th					
Copies of this test report s Data provided by the cust Deviation Forms listed ab	hould be made in full. omer is identified in the i	i and only to the portion tests final call notes above and can ew upon request. interpreting results, they are	affect the validity of the				



ALS Sample ID 9-181113-006				The second secon		ample ID		Report Date				
9-18	113-006		0	THE R. W. LEWIS CO., LANSING, MICH.		4501A	187			11/1	3/2018	-
				-	_	AT SECTIO				_		
Chack here little revised regard (if a		n original rep	net Solo	nt original repo	rt dain	1	nitiain of peco	in stable	ing this cha	nge: E	inter here	
entanglesic than remain	Listther	refered workers	d: Ente	rhav		E	let the remon	for life	change: Ex	otor in	N. S.	
NOTE: To add a	dditional rows	in any of t	he ligh	nt vellow are	as. t	ouch the ro	w and hit t	ie plu	s (+) sign	on	the right.	
Incident				eipt Date:	1		Operator Uni				ting Location/	ALS (if diff):
Santa Susana I			11/13/	2018			9th CST				ALS	
Customer Name and	Phone #: DTSC	_									T 6: - 1: 1 -	27
Sample Type: Crys						-		⊠ Oth	er (filter)		Sample Am diameter	ount: 2
☑ Looked for unkno							inte					
☑ Analyzed per ST (n: 3-11.461 Ver	sion 3	AND/OR						
☐ Analyzed per met	od/instructions i	isted here:		DELLA DE	61.7	THE CALL PRINCE		_	_			
State Liver				FINAL RE	SLL	TS SECTIO	N	_	_	_		
Check here is nothing of interest	-	sults: Enter	final t	est results he	re							
detected	0101112					41000	-1. O	100				
Analysis Date(s): 2						ALS Notebo			-	1000		
Did the customer r	equire any sam	ple handling	deviat	tions that coul	d hav	ve affected th	ie reported i	esults.	□ Yes	DXI 1	No	
Final Call Notes [T												
STANDARD TE		(Standard	analy	tical testing	perfe	ormed in ac	cordance v	rith th	e Specia	113	d)	
Shimadzu QP2010												
△ Applicable □ No							☑ QC Perfe			QC C	riteria	
GC/MS Notes: Bank				-			QC Notes:	inter he	HC .		- A. O. O.	
Retention Time Compound								-	Londo	- 1º A1	CAS#	
Ency RY has											S a bere	
IlluminatIR FTIR									-	W 0.40	a - mark	
☐ Applicable ☒ No	t Applicable						QC Perfe	ormed	☐ Met ST	oc c	riteria	
FTIR Notes: Emair he							QC Notes: I					
	· ·			Sample appea	rs to	consist of a: Se	nlect					
Enter compound page	Name .	Compound	1				Enter CAS	46		AS#	-	
Polarized Light M							EBEI CAS	P MINE				
□ Applicable ⊠ No			_			-		_	-			
PLM Notes: Enter ha												
				Sample appea	rs to	consist of a: Se	dect				S. Alexander	
G 400	Mounting	Gen	eral				Relative		fringenc			
Possible	Media/Refrac		it or	Size (µm)		olor/	Refractive		ofropic.	40.50	inction	Sign of
Identification(s)	Index(es) Used	d Sha	pe	2200	Pi	eochroism	Index(es)	or H	, Mod.,	Cha	aracteristics	Elengation
Possible ID have	Short hard	Ent.	ir hang	Enter here	En	ster here	Enter here	Sele		Ene	er have	Soloct
EPI-Fluorescence												
☐ Applicable 図 No	ot Applicable						☐ QC Perf			QCC	riteria	
Fluorescence Notes:	Enter here						QC Notes: 1	inter ha	te			
-	talata Catan					ce Assessment	-	_		-		
Exc	itation Color UV			Autofl	uores	cence Color			1		mments majouts here	
	Blue		-		Emilar						initions not	-
	Green			-		here				_	organic line	
			la	duced Fluoresc	ence	of Biological P	articles					
Possible Identi	fication(s)		Probe		Exci	itation Color	Emission	Color	Particl	e		g., shape,
Possible ID hom		Culant or are				Destan house	Date to	-	Size (µr			tterning, etc.)
JBAIDS PCR		Select or type	1		- 1	Enter have	Enter h	14	Einhor for	e	Bater hore	
□ Applicable ⊠ No	nt Applicable				_	-	□ QC Perf	urmed	□ Met ST	OC.	riteria	
PCR Notes: Book ho							QC Notes:			400		
	Tier I Target(s)			Result			Tier 2 Tar				Res	ult
Select or time Toront	aprey .		4	Solect		Select or type	e Toryet here				Select	



	Sample ID Original Sample ID Report Date 1113-006 site2 B234501A 11/13/2018				CO. SUCCESSION CONTRACTOR CONTRAC
		REVISED REP	ORT SECTION		
Check here if this it a	Date of the original repo	ort: Select original report da	te Initials of po	erson mulding the ch	unger Dater have
revised report (if on,	List the revised sections			ou for the change: I	
complete this osetion)	The last Language specialist	T ENT DATE	PART THE LAND	on you die cirmits.	and asc
PR2 ECL Applicable Not Applicable CL Notes: Emer here	plicable			erformed Met ST	QC Criteria
Tars	pet	Result	T QC (Notes	Notes	
Bot - Botuli		Select	1000	Bot-specific note	s here
SEB - Staphylocco	cal enterotoxin B	Select		SEB-specific not	
Ric		Scient		Ricin-speciale not	
		ESULTS (Performed	using methods and/or	instruments in	eluded in ST)
Wet Chemical Paper To					
☐ Applicable ☑ Not App				formed Met ST (QC Criteria
Paper Test Notes: Enter he			QC Notes:	Enter here	
	Aqueous OR Organi				
	cidic, Neutral, OR Bas				
	s sample is Oxidizing OR	. □ Non-oxidizing			
Hand Held Immunoass			I CLOC Par	formed [] Mat ST (OC Cuitaria
☐ Applicable ☑ Not App HHA Notes: Enter here	plicable		QC Notes:	formed Met ST (QC Criteria
	een obtained for the following	ne target(s) Enter here, but o			athogenic microorganisms or active
toxin. Rerun results:		O our Barto, remain same, one	aver net meessaring manual	presented or visible p	amogania ilimanori Santania di activa
	been obtained for the follow				
	t has been obtained for the fe	ollowing target(s): Enter her	e. Rerun results: Enter hore		
M256A					
☐ Applicable 図 Not App	licable				
M256A Notes: Enter have	No. A selected at attacked to	C 17 19 1	- Davis		
	OR Analysis indicates the	presence of LI Nerve Agen	its. Blister Agents, Blo	od Agents, Lewis	ite
Raid-M IMS	W 41				
RAID-M Notes: Batter here					
	The second secon	the presence of Finer here,	- Am-		
Radiological Data Anal		are presence or means mare,			
☐ Applicable ☑ Not App					
Isotopes: Enter here	P. 100 100 100 100 100 100 100 100 100 10				
	nation and Notes: Enter how				
NON-STANDARD T	EST RESULTS (Per	formed using method	s and/or instruments	NOT included i	n ST)
Non-standard method and	lor instrument used: Buter	fiere	Non-standard Results: I	inter here	
METHOD DEVIATI	IONS				
Were there any deviations	made to the standard Spe	cial Text methods that wer	re used for the analysis of t	his sample? 🛭 No [J Yes If yes, list below:
Deviation Number:			Brief Description of Deviati	on:	
Deviation # here			Description here		
	PLE ANALYZED BY			REPORT REVI	EWED BY:
Name		Date	Nam	ie	Date
Brian Quigley			Daniel Nadeau		11/13/2018
REPORT AUTHOR	IZED FOR RELEAS	E BY:			
	Name		Signature (if	applicable)	Date
Brian Quigley			Dury Just	der Will	11/14/2018
CRARRIMER					
					t the phone number below:
	POC: Brian Quigley			phone number	: 562.254.5017
	lde fredlinck or subm	of a commission, ruess	n pode?		100
Notes to the customer:	and the second like the second	and the same of the same of			
These results pertain only Copies of this test report s	to the sample as received a	and only to the portion test	ted		
		al call notes show and cal	n affect the validity of the t	results.	
	ove are available for review		THE THIRDING OF THE		
If any environmental cond	ditions were required for in	iterpreting results, they ar	e included in the Final Cal	Notes section.	
Any additional commutes fi	br the ountempr can be enter	ed here			



ALS San				ginal Sample ID Report Date ite3 B239374A 11/13/2018					
9-181113	-007			The Control of the Co	(Date)	11/13/2018			
El Chesh level frimms				REPORT SECTI			ale and	Maria Sala	
revised report (if to,			Select original rupo		Juidale of person				
complete this sections		rrised section(s): E			List the runnin				
NOTE: To add addit	ional rows			as, touch the r					
Incident ID: Santa Susana Respo	nce		Receipt Date: 13/2018		Operator Unit	#:	Te	esting Location/	
Customer Name and Phon		110	13,2010		,				
Sample Type: Crystallin	e Solid/Powe	ler 🗆 Liquid 🗆	Sludge Soil/So	lid	☐ Wipe/Swab	☑ Other (filt	er)	Sample Am diameter	ount; 2"
Dooked for unknown h					licet				
☑ Analyzed per ST (with				sion 3 AND/OR					
☐ Analyzed per method/ii	istructions li	sted here: Emin he		POLIT TO SECTION	NAT .		_		
S Check here if	T***		FINAL RE	SULTS SECTION	JN				-
nothing of interest was	Test Re	sults: Enter fine	al test results he	ere					
Analysis Date(s): 20181	113			ALS Notel	ook Page(s) #	: 82			
Did the customer requi		ple handling dev	iations that con	ld have affected	the reported r	esults? 🗆	es 🗵	No	
Final Call Notes Techr									
STANDARD TEST	RESULTS	(Standard and	dytical testing	performed in a	ccordance v	rith the Spe	cial Te	ext)	
Shimadzu QP2010+ GC									
⊠ Applicable □ Not Ap GC/MS Notes: Enter hor:	plicable				☑ QC Perfe QC Notes: E	rmed Ø Mei	ST QC		
Retention Time			Compound	1			-	CAS#	
France RT have Enter		THE ROOM			-	-		AS # herc	
IlluminatiR FTIR		and the same					Lapare L	COLUMN SOURCE	g: -1
☐ Applicable ☑ Not Ap FTIR Notes: Emer hore	plicable				QC Perfe	rmed Me	ST QC	Criteria	
	- We-		Sample appea	ers to consist of a:	Select				
Parameter de la constant		Compound			Enter CAS	d base	CAS	*	
Polarized Light Micros					Comme CAS	n tide			
☐ Applicable ☑ Not Ap		-							
PLM Notes: Emer horo			Sample anne	ars to consist of a:	Select	- New Market	_		
Identification(s)	ounting edia/Refrac			Color/ Pleochroism	Relative Refractive	Birefringe e: Isotropi Low, Mod	c, E	xtinction haracteristics	Sign of Elongation
	dex(es) User	A 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			Index(es)	or High			
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EPI-Fluorescence Mice □ Applicable □ Not Ap					T D OC Park	ormed Me	ST OC	Caleania	
Fluorescence Notes: Emp	have				QC Notes: I		isi QC	Criteria	
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U Bl				Enter hore Enter hore				communic ber	
Gre				Enter bare				comments here	
- Silv			Induced Fluores	cence of Biological	Particles			Andrews State	
Possible Identificati	on(s)	Pro	be	Excitation Color	Emission 6	Section 1	rticle		g., shape,
Possible ID host		Select or type pro	he mad	Enter have	Enter lu		e (µm)	Enter here	tterning, etc.)
JBAIDS PCR		2000		Total States	Lossy Miles	- Salar		derived and a	
☐ Applicable ☑ Not Ap	plicable				QC Perf	ormed Me	t ST QC	Criteria	
	Target(s)		Result		Tier 2 Tar				sult
Select or type Parget have			Select	Select or ty	we Turnet here			Select	



	07		239374A		teport Date 11/13/2018
The second secon		REVISED REA	ORT SECTION		
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revised report (II so.	List the revised section	Cute Finter have	List the re	uson for the change: E	ater here
extended to property	All the Parish Street	(a) rims and a			
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Target		Result		Notes	
Bot - Botulinur		Select		Bot-specific note:	s here
SEB - Staphyloccocal	enterotoxin B	Select		SEB-specific note Ricks-specific note	a here
SCREENING AND RA	DIOLOGICAL D	Select	miles without and/		
		FPOT 19 (Lettoumen	neus mernons auna	St HPRLEGMENTS INC	iudea (ii 31)
Wet Chemical Paper Tests ☐ Applicable ☑ Not Applic Paper Test Notes: Enter here				rformed Met ST Q	C Criteria
M8 indicates sample is	Aqueous OR Organ	ic (color Enter here)			
• pH is Enter hore Acidi	c, Neutral, OR Ba	Bic			
 Starch lodide indicates sa 					
Hand Held Immunoassay					
☐ Applicable ☑ Not Applic	able		□ QC Po	erformed Met ST C	Criteria
HHA Notes: Enter here	men .			s: Enter here	
 A positive result has been toxin. Rerun results: En 		ring target(s) Enter here, but	does not necessarily indica	te presence of viable, pr	athogenic microorganisms or active
		wing target(s): Enter here.			
	as been obtained for the	following target(s): Enter he	ne. Rerun results: Enter he	me .	
M256A					
☐ Applicable ☐ Not Applica M256A Notes: Enter here	able				
☐ Results are negative OR	Analysis indicates the	presence of D Nerve Age	nts, 🗆 Blister Agents, 🗅 B	lood Agents, D Lewisi	ile
Raid-M IMS					
☐ Applicable ⊠ Not Applic	able				9
RAID-M Notes: Enter have					
Results are negative OR		the presence of Enter here			
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□ Applicable ☑ Not Applie Isotopes: Enter here	inoic				-
Other Radiological Informat	ion and Notes: Enter he	390			
NON-STANDARD TE	Contract of the Contract of th		ds and/or instrument	s NOT included in	a ST)
Non-standard method and/or			Non-standard Results		
METHOD DEVIATIO	NS				
Were there any deviations m	ade to the standard Sp	ecial Text methods that we	ere used for the analysis o	f this sample? 🛛 No 🕻	☐ Yes If yes, list below:
Deviation Number:			Brief Description of Devia	ition:	
Deviation # here			Description here	DECORE SEL	PROCEED WAY
THE PARTY OF THE P	LE ANALYZED E			REPORT REVI	
Name	110	Date		me	Date
Brian Quigley REPORT AUTHORIZ		3/2018 CE DV-	Daniel Nadeau		11/13/2018
REPURI AUTHORIZ		SE DI:	01-1-1	e	
Prince Ordinary	Name		Signature (f applicable)	Date 11/14/2018
Brian Quigley			12 Mary and the second	- CALL	11/14/2018
CONTINUED:		and the state of t	months of the same	a de la lace de la constante de	The second secon
If there are any question					
	OC: Brian Quigh			phone number	
	S Inchian Plant	out a complete of place	M 10 0 10:		
Notes to the customer: These results pertain only to	the sample as received	and only to the portion te	sted		
Copies of this test report sho	uld be made in full.				
Data provided by the custon			an affect the validity of th	e results.	
Deviation Forms listed abov	e are available for revi	ew upon request.	we included in the First C	all Notes section	
If any environmental conditi Any additional comments for	ions were required for	mierpreung resuits, they a	ire included ill the ridal C	an Autes actions	



ALS Sample ID Original Sample ID Report Date 9-181113-008 site4 B234506A 11/13/2018					9					
7-10111	3-40a				REPORT SECT	nicial.			11/13/2018	
Ci Charle have Middle in	The state of			et eriginal rep			-			
certain appare (if in-	The second second	The second second			ant can				ouge: limit have	
complete this continue		weed vection				List the reason	s the Mo	dame: E	later here	
NOTE: To add addit	ional rows	in any of	the ligh	it yellow ar	reas, touch the r	ow and hit	he plu	ıs (+) sigi	n on the righ	l.
Incident ID: Santa Susana Respo	anes»	San	11/13/2	eipt Date:		Operator Un 9th CST	it#:			ion/ALS (if diff):
Customer Name and Phon			11/1,3/4	2010		9-(31				ALS
Sample Type: Crystallia	ne Solid/Powd	er 🗆 Liquid	□ Sluc	ige 🗆 Soil/S	olid Vegetation	☐ Wipe/Swat	Ø Oil	her (filter)	Sample diamete	Amount; 2"
■ Looked for unknown h	azards AND/0	OR 🗆 Looke	d for spe	ecific hazard(s) listed here: Eme	here			Chambre	
Analyzed per ST (with	deviations, if	required), S	r version	1: 3-11.461 Ve	ersion 3 AND/OR					
☐ Analyzed per method/i	nstructions lis	sted here: 🖿	in here							
				FINAL R	ESULTS SECTION	ON				
Check here if			-							
nothing of interest was detected	Test Res	ults: Enter	final to	est results h	ere					
Analysis Date(s): 20181						oook Page(s)				
Did the customer requi	re any samp	de handling	deviati	ions that cos	ald have affected	the reported	results'	? □ Yes	⊠ Ne	
Final Call Notes [Techn	ical judgme	nts, opinio	s, and	interpretati	ons, if applicable,	and the basis	for th	ese opigio	onsi: Easter bere	
STANDARD TEST	LESULTS	(Standard	analyt	ical testing	performed in a	ccordance	vith th	e Specia	(Text)	
Shimadzu QP2010+ GC	/MS									
☑ Applicable ☐ Not App	dicable					☑ QC Perf	ormed	Met ST	QC Criteria	
Retention Time						QC Notes:		ine .		
The second secon		u lama		Compoun	<u>d</u>			For	CAS	#
		i limit							CAS I ber	
IlluminatIR FTIR			-							
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Polarized Light Micros							-			
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rossible	ounting		eral		Color/	Relative		fringenc otropic,	Extinction	Sign of
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	ler here			Charten.	5		or H			
EPI-Fluorescence Micro			r hape	Enter here	Ener have	Buter bere	Sebar		Enter line	Select
☐ Applicable ☑ Not App			_			□ OC Perf	rmed I	□ Met ST	QC Criteria	
Fluorescence Notes: Emer	hard			***		QC Notes: I			OC CINETIA	
				Autofluor	rescence Assessmen					
Excitation UV				Autof	luorescence Color			_	Comments	
Blu		-	-		Factor Name Bastor Name				V comments has	
Gree					Bager hare	-			lge accompany by ten consumery by	
			Ind	uced Fluores	cence of Biological I	Particles		-		100
Possible Identification	n(s)		Probe		Excitation Color	Emission (olor	Partick	Particle Charac Other	teristics (e.g., shape,
Possible ID have		teless or type		-	Describer	Physical Co.		Size (µn	1) biological	patterning, etc.)
JBAIDS PCR	1 3	1.1.			Enter hore	Einter he	ie .	Color ha	e Canar have	
☐ Applicable ☑ Not App PCR Notes: Enter hore	licabte				10-12-2000 Paris				QC Criteria	
	Farget(s)		1	Result		QC Notes: E		6	1	tesult
Soleci or top I was here			S		Select or be	e Carpet here	(2)		Scient	



ALS Sar 9-181112		Original Sample ID Report Date site4 B234506A 11/13/2018					
		REVISED REP	ORT SECTION				
D Check here if this is a	Date of the original rep	ort. Select original report de	te Infiliale ci	person making the char	nger. Enter here		
revised report (II to.	Lies the revised vection			mong for the change: Er	ster here		
PR2 ECL	THE REST PROPERTY AND ADDRESS.		1 1000	And the second second			
☐ Applicable ☑ Not Ap	plicable			Performed Met ST o	QC Criteria		
Tar	get	Result		Notes			
Bot - Botul	The state of the s	Solect		Bot-specific notes			
SEB - Staphylococ		Select		SEB-specific ante			
Ric		Select	Rich-specific sotes here I using methods and/or instruments included in ST)				
		Want 12 (Lettolined	using succinous and	or matraments me	urded III 31)		
Wet Chemical Paper T ☐ Applicable ☑ Not Ap			Пост	erformed Met ST Q	C Criteria		
Paper Test Notes: Enter in				es: Enter here	Continu		
	is Aqueous OR Organ	ic (color Fater here)					
	cidic, D Neutral, OR D Ba		19				
 Starch lodide indicate 	s sample is Oxidizing O	R □ Non-oxidizing					
Hand Held Immunoass			20 /				
☐ Applicable ☑ Not Ap	plicable			erformed Met ST Q	C Criteria		
HHA Notes: Enter here				es: Enter here	thogenic microorganisms or active		
A negative result has	Enter here been obtained for the follow				mogenie inicioniganisms of active		
An inconclusive resu M256A	it has been obtained for the	tollowing targetts). It is a	ic. Net un results. Canca e				
☐ Applicable ☑ Not Ap	plicable						
M256A Notes: Page lane ☐ Results are negative	OR Analysis indicates the	e presence of \(\subseteq \text{Nerve Ager}	ste	Blood Agents D Lawisit			
Raid-M IMS	OR Allalysis indicates un	e presence of Children Agen	its, Li bilster Agello, Li	Blood Agellis, D Dewish			
☐ Applicable ☑ Not Ap	policable						
RAID-M Notes: Emity hor							
	OR Analysis indicates	the presence of Enter here.					
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☐ Applicable 図 Not Ap							
Isotopes: Emer here							
	mation and Notes: Enter he		Name of Street or other Designation	. Nom: 1 1 11	CON		
		rformed using method			(81)		
	d/or instrument used: Eme	X ROTE	Non-standard Result	S: EXHER MORE			
METHOD DEVIAT		1.1 T	T. C. Alexandrate	CALL TO STATE OF	Was If you list believe		
Deviation Number:	s made to the standard Sp	ecial Text methods that we	Brief Description of Dev		Tes II yes. list below.		
Deviation # here			Description here	ation.			
	PLE ANALYZED B			T REPORT REVII	EWED BY:		
Name		Date		ame	Date		
Brian Quigley		The second secon	Daniel Nadeau		11/13/2018		
	NIZED FOR RELEAS	SE BY:					
	Name		Signature	(if applicable)	Date		
Brian Quigley			DUL DIE	Per Mil	11/14/2018		
CUSTOMER:							
of these are any que	stions, comments, or	concerns about these	results, please conti	et the Unit POC at	the phone number below:		
	it POC: Brian Quigle			OC phone number:			
		min a colombabil, plan			A SULL SULL SULL SULL SULL SULL SULL SUL		
Notes to the customer:							
Copies of this test report Data provided by the cus Deviation Forms listed al	should be made in full. tomer is identified in the f bove are available for revi	I and only to the portion testinal call notes above and ca ew upon request. Interpreting results, they a	n affect the validity of t				
Any additional opposits	for the customer can be ente	and here					



ALS Sample ID Original Sample ID Report Date 9-181113-009 soilmix1 11/13/2018										
9-1811	13-009					0.01		1	1/13/2018	
					EPORT SECTION					
Check here White in	4 Betrof for	original repr	ort: Solo	at original repo	et diato	witteln of pure	in spylik	ug the chem	ger Enter home	
revised support (If m. complete (Ma system)	List the res	nai meline	oj: Eleter	here		List the reason	for the	denge Bu	or have	
NOTE: To add add	litional rows i	n any of t	he ligh	t vellow are	as, touch the ro	w and hit t	he plus	(+) sign	on the right.	
Incident II				eipt Date:		Operator Unit			Testing Location	ALS (if diff):
Santa Susana Re	sponse		14/13/2			9th CST			ALS	
Customer Name and Pl									T-	
Sample Type: Crysta							□ Oth	er (Einter bei	e) Sample Au	ount: 3 G
☑ Looked for unknown	hazards AND/O	R 🗆 Lookee	d for spe	ecific hazard(s)	listed here: Eater	hate				
Analyzed per ST (wi				1: 3-11.461 Ver	sion 3 AND/OR					
☐ Analyzed per metho	d/instructions list	ed here: min	at lies	elenius me	on to one one come	2.	_			
F9 en 11 10				FINAL RE	SULTS SECTIO	IN.				-
Check here if	Tree Day	die France	C-la	on according to	-					
nothing of interest w	as l'est Resi	RIS: Enter	imai te	est results he	re					
detected Analysis Date(s): 201	91113				ALS Notah	ook Page(s) ff	. 87			
Did the customer rec		o bondlive	destant	ions that soul				TI Var	57 No.	
Final Call Notes Tec	heisel indoor	e nanoung	BEVIALI	intermentatio	e if applies ble	and the beein	for the	II 1 C5	els Normalament	Coarbon
chain) found in spectr						and the basis	ior tite	ac obtaios	ale seminorenie	(Car Don
STANDARD TES						acondenas i	Tol AL	Smeriel.	Test)	
		design of	EURIDA	new tenant	beliotana ma	ECUTUALNOS V	PER TRE	e 2 her un	Text)	oue
Shimadzu QP2010+ ☑ Applicable ☐ Not			_			QC Perfe	rmad 5	Mat ST C	C Critoria	
GC/MS Notes: Base ha						QC Notes: E			Criteria	
Retention Time		-		Compound		QC THOREST E			CAS#	
	tadecane							629-9	2-5	
	I the second reserve	a bare						Espher	CAS # here	
IlluminatiR FTIR										
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FTIR Notes: Fine land				Comple anne	us to nomelot of as C	QC Notes: E	miter ben			
		Compound	1	Sample appea	rs to consist of a: S	1	_	C	LS#	_
Enter compound name h	anc .	C.outpoune				Enter CAS	# bare			
Polarized Light Mice										
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			_	Sample appea	rs to consist of a: S	clect	Direct	T		
Possible	Mounting		eral	Contract.	Color/	Relative		ringene tropic,	Extinction	Sign of
Identification(s)	Media/Refractiv	1.00	it or	Size (µm)	Pleochroism	Refractive		Mod.	Characteristics	Elongation
	Index(es) Used	Sha	pe			Index(es)	or H			
Possible ID here	Emar lure	Ente	a peac	Enter here	Enter here	Enter here	Soles	1	Enter hat	Select
EPI-Fluorescence M						1 =				
☐ Applicable ☐ Not . Fluorescence Notes: ☐						OC Notes: I			C Criteria	
riuorescence Notes; m	and the same			Autofluor	escence Assessmen	QC Notes: I	WALL HOL			
Excits	tion Color	-			uorescence Color		-	-	Comments	-
Datit	UV			74240	Enter have			U	omments here	-
	Blue				Fater here				e comments here	
	Green				Enter have			Gre	en comments have	
			Inc	duced Fluorese	cence of Biological	Particles			tentiale City	desta-
Possible Identific	ation(e)		Probe		Excitation Color	Emission (Color	Particle	article Character	g., shape,
r ossible Identific	(3)		, lube		CACITATION COLOR	Ellission C	Joiot	Size (µm		.g., snape, itterning, etc.)
Possible 20 here		Select or type	probe to	ned	Enter here	Enter he	re .	Enter hon		B/
JBAIDS PCR										
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PCR Notes: Enter have	a free services		-	n		QC Notes: I	tiner bur	e		ente
	T 1 Target(s)		-18	Result	Culant on the	Tier 2 Tary	et(s)		Select	sult
Select or open Target he	7.0		2	Total Color	Committee (1)	the 1 des Pales Latter &			rantenny	

F-12A ALS Test Report Form (Optional with Logo) (Page 2 of 2)



ALS Sample ID		Original Sam	ple ID	Report Date		
9-181113	-009	soilmixi		11/13/2018		
REVISED			SECTION			
Chock here if this is u	Date of the original report.	Select original report date	Initials of po	recommonlying the cha	angre Huter been	
revised report (If as,	List the revisual sociloutet: E	nter hare	List the run	List the runnen for the change: Enter here		
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☐ Applicable ☒ Not App	licable		Tari Cara Cara Cara Cara Cara Cara Cara C	rformed Met ST	QC Criteria	
Targ	get	Result		Notes		
Bot - Botuli		Select		Bot-specific note		
SEB – Staphylococcal enterotoxin B Select SEB-apacific notes here Ricin Select Ricin-apacific notes here						
Rici	RADIOLOGICAL RESU	Select	mathode and/or			
Wet Chemical Paper To		L 13 (Feriormen ustas	methods and/or	10941 Gallenes Life	inden in 31 j	
☐ Applicable 図 Not App	olicable		QC Peri	formed Met ST (C Criteria	
Paper Test Notes: Enter he	s 🗆 Aqueous OR 🗆 Organic (co	olor Futer here)	QC Notes:	VIII IRIC		
pH is Enter have □ Acc	cidic, Neutral, OR Basic s sample is Oxidizing OR					
Hand Held Immunoass						
□ Applicable ⊠ Not App				formed Met ST (QC Criteria	
HHA Notes: Fireir lance			QC Notes:			
		arget(s) Enter here, but does no	ot necessarily indicate	presence of viable, p	athogenic microorganisms or active	
toxin. Rerun results:	been obtained for the following t	secretary Data has				
	t has been obtained for the follow		un results: Enter here			
M256A	The best opening to the tollow	HILL SWIED STORY				
☐ Applicable ☑ Not App	licable			***		
M256A Notes: Enter here						
	OR Analysis indicates the pres	ence of Nerve Agents,	Blister Agents, 🗆 Blo	od Agents, 🗆 Lewis	te	
Raid-M IMS						
☐ Applicable ☑ Not App						
RAID-M Notes: Boar hore		CN 4 - L		***		
☐ Results are negative (oresence of Emar nere				
Radiological Data Anal					1000	
☐ Applicable ☑ Not App	исате					
	nation and Notes: Enter here					
	EST RESULTS (Perfori	med using methods and	for instruments	NOT included in	ST)	
	l/or instrument used: Enter hand		standard Results: I			
METHOD DEVIATI	ONS					
Were there any deviations	made to the standard Special	Text methods that were used	for the analysis of t	his sample? A No	Yes If yes, list below:	
Deviation Number:			Brief Description of Deviation:			
Deviation # have		Deports	stion here			
	PLE ANALYZED BY:			REPORT REVI		
Name	The state of the s	Date	Nan	16	Date	
Brian Quigley	IZED EOD DEL EASE E		Nadeau		11/13/2018	
KEPUKI AUTHUR	Name	OT:	01	** ***		
Daise Onister	77	Signature (if	applicable)	Date		
Brian Quigley			THE REAL PROPERTY.	11/14/2018		
CUSTOMER:	distriction of the second	was about it		the Unit DOC	I the above or a track	
If there are any questions, comments, or concerns about these results, please contact the Unit POC at the phone number below: Unit POC: Brian Quigley Unit POC phone number: 562,254,5017						
	r POC: Brian Quigley			phone number	1 202,424,2017	
	vide feedback or substill :	Markey Land 13	200			
Notes to the customer:	to the sample as received and	only to the postion trated				
Copies of this test report		omy to the portion tested				
	tomer is identified in the final c	all notes above and can affect	ct the validity of the	results.		
Deviation Forms listed ab	ove are available for review up	on request.				
	ditions were required for inter		uded in the Final Cal	Il Notes section.		
Any additional community	for the customer one be entered to					

F-12A ALS Test Report Form (Optional with Logo) (Page 1 of 2)



	Sample ID 113-010			fil	teru							
REVISED REPORT SECTION												
C) Check here If finis	Will Disse of the	a anighed rep	per Salest	original repo	rt date	Ti ti	of the electric	nen maki	ng the rise	nger E	inter here	
contains topers (if a	Line Sec.	wheel sortion	ric Bater fo	300		1	in the room	o for the	thouse the	der he	ie .	
NOTE: To add ac					as to				-		4	
Incident		Sam Sam	ple Receip	of Date:	MO, 11	Juli Inc 10	Operator Un	it #:	1.73.6	Test	ing Location/	LS (if diff):
Santa Suzanna I		- Jan	11/13/20				9th CST				ALS	and a company
Customer Name and I	Phone #: Phone has	DÉ .										-
Sample Type: Crys								b 🖾 Oth	er (filter)		Sample Am- diameter	ount: 2"
■ Looked for unknown							ere					
☑ Analyzed per ST (v ☐ Analyzed per meth	with deviations, it	required), Si	r version:	3-11.461 Ver	sion 3	AND/OR						
Analyzed per meta	od/instructions i	SIEU REIE.		PINAL DE	SITT	TS SECTIO	N					
50 Check here it				PENALINE	M3 F 81	13 SECTIO						
nothing of interest	the state of the s	sults: Enter	final tes	t results he	re							
Analysis Date(s): 28	0181113					ALS Notebo	ok Page(s)	#: 82				
Did the customer re	equire any sam	ple handling	deviatio	ns that coul	d hav	e affected th	e reported	results?	☐ Yes	M P	io	
Final Call Notes [T	schnical Judgor	ents, opinio	ns, and in	terpretatio	ns, if	applicable, a	nd the bas	is for the	ese opinio	ns : \	Very small pe	ak best
identified as butyl or	ayl phthalate (a	plasticizer us	sed to rein	norce plastic	e) mos	st likely origi	nating from	plastic e	dge of pag	per fi	lter,	
STANDARD TE												
Shimadzu QP2616												
Applicable D No	The second secon						☑ QC Per	formed l	Met ST	QC C	riteria	
GC/MS Notes:							QC Notes:	Enter he	re		2 .	
Retention Time	and and advalage			Compound					01.5	78-6	CAS#	-
	utyl octyl pthalate		_							_	5 # Intre	
Illuminatin FTIR					_		=		-	M 7.75	a demis	
☐ Applicable ☑ No							QC Per QC Notes:			QC C	riteria	
FIRE NOISE.			S	ample appea	rs to d	consist of a: Si		Tribule seri	-			
		Compoun				-			(AS#		
Enter composed areas							Enter CA	S# hare				
Polarized Light Mi					_							
☐ Applicable ☒ No PLM Notes: Hater has												
P Livi Motes.	•	-	S	ample appea	rs to	consist of a: S	dect					
	Mounting	C.	neral		T		Relative	Bire	fringenc		-	
Possible Identification(s)	Mounting Media/Refrac Index(es) Used	tive Hal	bit or	Size (µm)		lor/ eochroism	Refractive Index(es)	e: Is	otropic, Mod.	2000	inction tracteristics	Sign of Elongation
Possible ID have	Bater bear	- End	ar hore	Enter have	Bu	ier here	Enter here	Sala		Ensis	er hore	Select
EPI-Fluorescence				-								
☐ Applicable ☒ No Fluorescence Notes: !							QC Per QC Notes		☐ Met ST	QC C	Priteria	
						ce Assessment		-		-		
Excitation Color Autofluorescence Color Comments												
UV Britis here UV comments here Blue comments here												
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F-12A ALS Test Report Form (Optional with Logo) (Page 2 of 2)



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If any environmental conditions were required for interpreting results, they are included in the Final Call Notes section. Any additional companies for the customer can be entered here				cluded in the Final Ca	II Notes section.		

F-12A ALS Test Report Form (Optional with Logo) (Page 1 of 2)



ALS Sample ID Original Sample II									
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F-12A ALS Test Report Form (Optional with Logo) (Page 2 of 2)



ALS Sample ID		Original	Sample ID		Report Date		
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F-12A ALS Test Report Form (Optional with Logo) (Page 1 of 2)



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Analysis Date(s): 20181113 ALS Notebook Page(s) #: 82		Test Resi	ults: Enter	final	test results h	ere						
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F-12A ALS Test Report Form (Optional with Logo) (Page 2 of 2)



ALS Sample ID		Original Sa	mple ID]	Report Date	
9-181113	-012	site6 B23			11/13/2018	
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	PLE ANALYZED BY			REPORT REVI	EWED BY:	
Brian Quigley	11/12/	Date	Name	e	Date	
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Brian Quigley	Name Sign Children				Date	
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			Unit POC	phone number	: 5h2.254.5017	
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These results pertain only t	o the sample as received a	nd only to the portion tested				
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Data provided by the customer is identified in the final call notes above and can affect the validity of the results.						
Deviation Forms listed above are available for review upon request. If any environmental conditions were required for interpreting results, they are included in the Final Call Notes section.						
Any additional comments for	nons were required for inf	terpreting results, they are in	ictuded in the Final Call	Notes section.		
		a mile	-10			

Schematics or Maps

of Event and Hazards

Location



Woolsey Incident

CA-LAC-338981 November 12, 2018 Page 6 of 23

)(Division Break

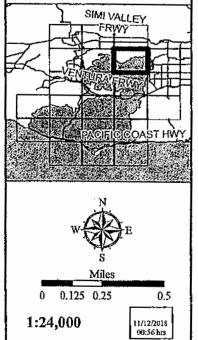
∏ Branch Break

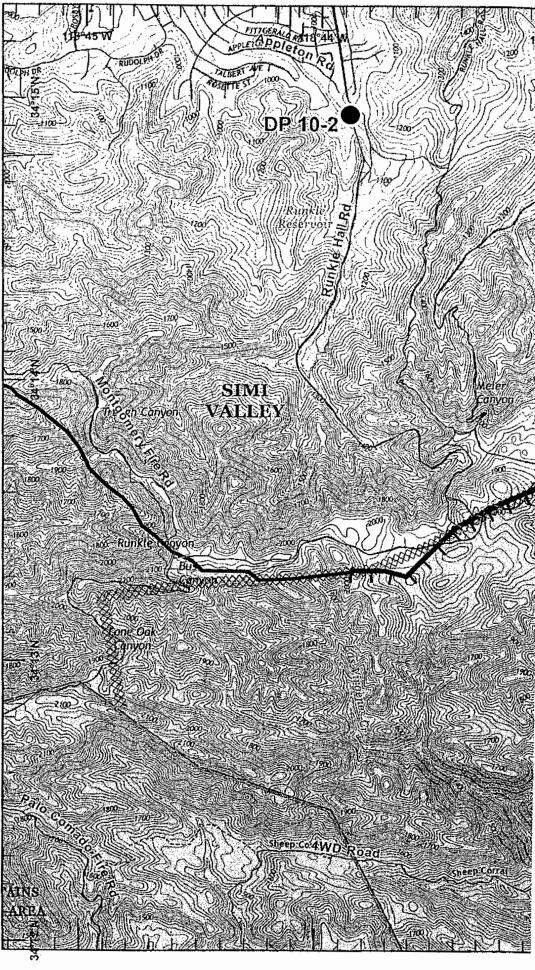
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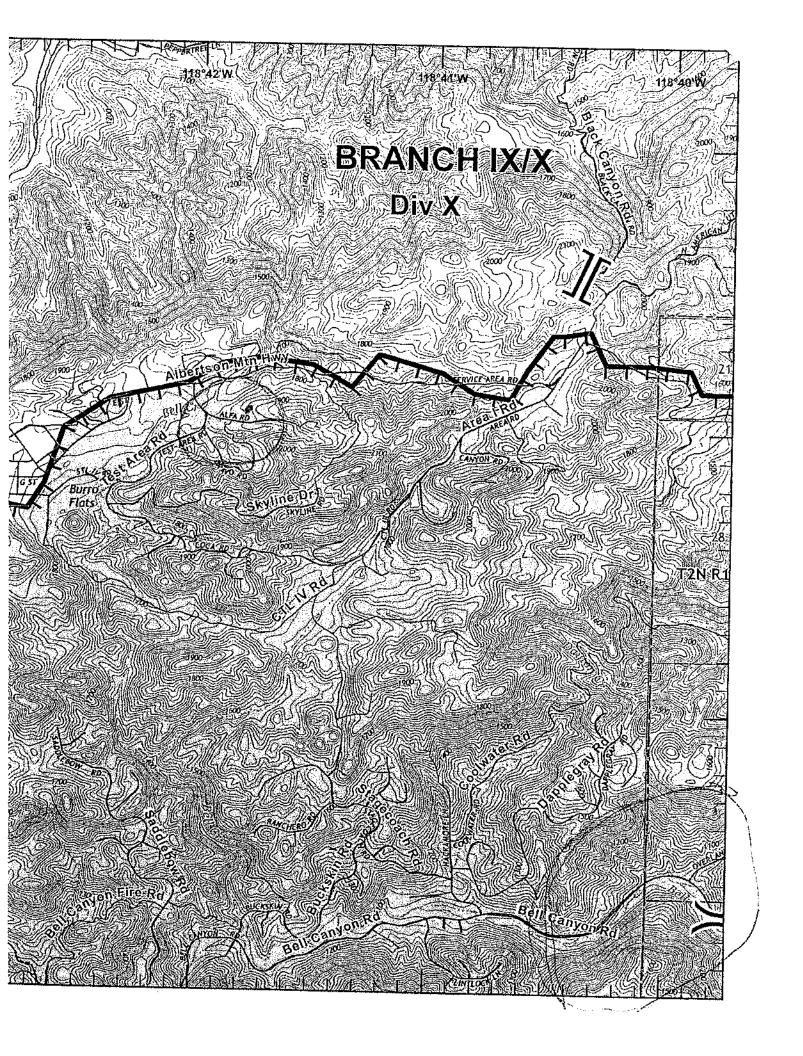
Uncontroll...
Fire Edge

____ Completed Line

Completed Dozer Line







Photographs-N/A

Proof of incidents
Debrief by Medical
Section for hazards
and potential medical
issues-No Medical
Issues Endured

Material Safety Data Sheet (MSDS) and/or other informational material providing hazard data on material(s) located on-site

FOUO

Radioactive Material Safety Data Sheet

This data sheet presents information on radioisotopes only. This document is not subject to WHMIS requirements. For information on chemical compounds incorporating this radionuclide, see the relevant Material Safety Data Sheet.

Cesium-137

Part 1 - Radioactive Material Identification

Common Names: Cesium-137 Chemical Symbol: Cs-137 or 137 Cs

Atomic Number: 55 Mass Number: 137 (82 neutrons)

Chemical Form: Cesium chloride Physical Form: A pellet of cesium ceramic housed in a welded stainless steel capsule

Part 2 - Radiation Characteristics

Physical half-life: 30.22 years Specific Activity (GBq/g): 3,220

Principle Emissions	^E Max (keV)	^E eff (keV)	Dose Rate (µSv/h/GBq at 1m)	Shielding Required
Beta* (β)	511 (94.6%)	157	-	-
Gamma (γ) / X-Rays	662 (89.9%)	-	103 ^a	HVL Lead: 0.65 cm
Alpha (α)	-	-	-	-
Neutron (n)	-	-	-	-

^{*} Where Beta radiation is present, Bremsstrahlung radiation will be produced. Shielding may be required.

Note: Only emissions with abundance greater than 10% are shown.

Progeny: Barium-137m (Ba-137m)

Part 3 - Detection and Measurement

Methods of detection (in order of preference)

- A radiation survey meter equipped with an energy-compensated Geiger Mueller detector.
- 2. Ion chamber survey meter tends to be less sensitive than a Geiger Mueller survey meter but is able to respond more precisely in higher radiation fields.
- Gamma scintillation detector very sensitive but is also anergy dependent. Must be calibrated for Cs-137 before it can be used for dose assessment surveys.

^{*} The Health Physics and Radiological Health Handbook, Scintra, Inc., Revised Edition, 1992

Dosimetry

Whole Body	Skin Extremity Neutron
Internal:	Sealed sources pose no internal radiation hazard. However, in the event of loss of containment by the sealed source, all precautions should be taken to prevent inhalation or ingestion of the material.
Critical Organ(s):	None known at this time.
Annual dose limits:	Non-nuclear energy workers: 1mSv per year Nuclear energy workers: a) 50 mSv in one year b) 100 mSv total over five years
	Pregnant nuclear energy workers: 4 mSv over the balance of the pregnancy

Part 4 - Preventive Measures

Always use the principles of time, distance and shielding to minimize dose

Engineering Controls:	Sealed radioactive sources used in industrial applications should always be within a protective source housing to minimize radiation dose and to protect the source capsule from damage.
	ipment (for normal handling of unsealed sources only. Always wear disposable gloves, safety quipment and clothing as appropriate to the material handled).
Special Storage Require	ements: None

Part 5 - Control Levels

Oral Ingestion	Inha	lation
ALI (kBq)	ALI (kBq)	DAC (Bq/ml)
3700	7400	2.2 x 10 ⁻³
Exemption Quantity (EQ):	10,000 Bq	

Part 6 - Non-Radiological Hazards

No potential health effects are known regarding non-radiological hazards associated with cesium. However, large oral doses of the material may cause gastrointestinal disturbances. Chronic effects are not known at this time.

OSHA Permissible Exposure Limit (PEL):

15 mg/m3 total dust, 5 mg/m3 respirable fraction for nuisance dusts

Part 7 - Emergency Procedures

The following is a guide for first responders. The following actions, including remediation, should be carried out by qualified individuals. In cases where life-threatening injury has resulted, first treat the injury, second deal with personal decontamination.

Personal Decontamination Techniques

- Wash well with soap and water and monitor skin
- Do not abrade skin, only blot dry
- Decontamination of clothing and surfaces are covered under operating and emergency procedures

Spill and Leak Control

- · Alert everyone in the area
- Confine the problem or emergency (includes the use of absorbent material)
- Clear area
- Summon Aid

Damage to Sealed Radioactive Source Holder

- Evacuate the immediate vicinity around the source holder
- Place a barrier at a safe distance from the source holder (min. 5 meters)
- · Identify area as a radiation hazard
- Contact emergency number posted on local warning sign

Suggested Emergency Protective Equipment

- Gloves
- Footwear Covers
- Safety Glasses
- Outer layer or easily removed protective clothing (as situation requires)

This information was prepared by:

Stuart Hunt & Associates Ltd.

20 Rayborn Crescent St. Albert, Alberta

T8N 5C1

Phone: (780) 458-0291 or (800) 661-4591

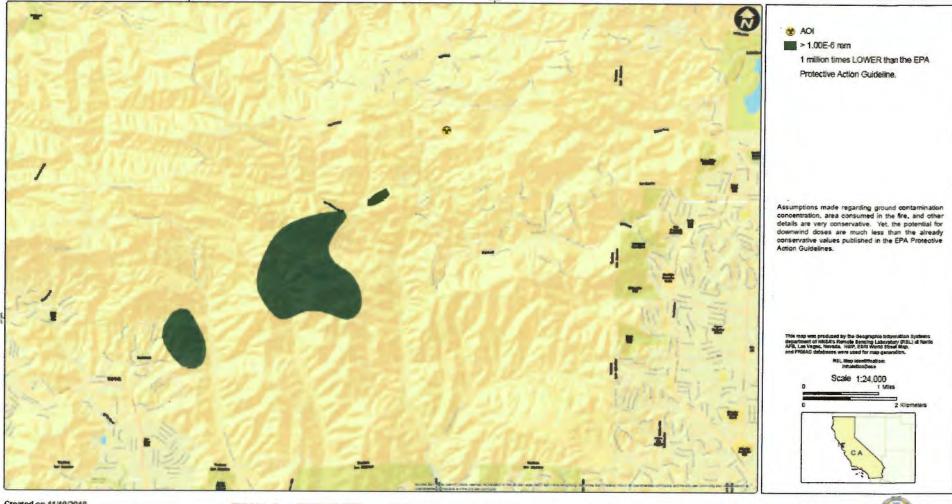
Fax: (780) 459-0746 Web site: www.stuarthunt.com

Hazard Modeling Data

POTENTIAL DOSE FROM INHALATION

Dose from Signficant Dose Contributors

SANTA SUSANA FIELD LAB SIMI VALLEY, CA



Created on 11/10/2018 Last modified on 11/10/2018 06:25 UTC

FRMAC APPROVED

NNSA Consequence Management Home Team Contact (702) 794 - 1665

FRMAC APPROVED





DEPOSITION RELATED TO EPA PAG

Ground Contamination of Cs-137 Related to 1st Year Relocation

SANTA SUSANA FIELD LAB SIMI VALLEY, CA



Created on 11/10/2018 Last modified on 11/10/2018 06:31 UTC FRMAC APPROVED

NNSA Consequence Management Home Team Contact (702) 794 - 1665 FRMAC APPROVED





Situational Reports

Whitaker, David A (Whit) SFC USARMY NG CAARNG (US)

From: Sent: To: Cc: Subject:	Quinonez, Brian SSG USARMY NG CAARNG (US) Monday, November 19, 2018 8:43 AM NG CA CAARNG Mailbox JOC OPS; NG NCR NGB ARNG Mailbox CBRN J39 Cho, Samuel H CPT USARMY NG CAARNG (US); Rodak, Neal P Lt Col USAF NG CAANG (US); Whitaker, David A (Whit) SFC USARMY NG CAARNG (US); Whitley, Garrick D (Garry) 1SG USARMY NG CAANG (US) GENTEXT SITREP 7 (Woolsey Fire)					
SITUATION REPORT / PERIOD //	Period 7: 084119NOV2018					
• •	equested by CAL EPA to support the Fire IC for public safety assessments of hazards ent. Capability requested is communication, laboratory testing, monitoring.					
2. INTELLIGENCE// There were no sources for this mission.	o known specific threats against this event// 9th CST is working closely with DOE for					
authorities utilizing strike team of throughout the Ventura County. advice regarding the mitigation of	ated Situational Awareness (SA) and O/O integrated CBRN response to requesting capabilities in coordination with civil authorities IOT enhance security and public safety Provide civil authorities with the ability to provide rapid identification, assessment, and fany hazards discovered. Provide hazard modeling and communications oile Field Kit (MFK) and Android Tactical Assault Kit (ATAK)/					
DAY 1						
(0900) IRT was alerted						
(1300) IRT was in route to Ventu	ra County from Los Alamitos JFTB					
(1600) Arrived at 1 Black Canyon	Rd, Simi Valley, CA 93063					
(1611) IRT linked up with DOE						
(1620) DOE link up was complete	1620) DOE link up was complete.					
(1630) ADVON is up and connect	1630) ADVON is up and connected.					
(1632) The survey team is preppi	ing equipment for downrange operations.					
(1900) IRT SP to lodging location.						
(2030) IRT arrived at lodging loca	ation 24150 Park Sorrento, Calabasas, CA 91302					

Day 2

- (0730) Survey Team SP for staging area to area 4 for environmental sampling.
- (0750) Winds will be from the NE to SW between 7-27 MPH from now until 1800HRS. 1900hrs winds direction will be from N to S at 21 MPH.
- (0838) ADVON moving to Area 4 location.
- (0853) Site 1 sample 1 complete.
- (0907) Sample 1 en-route to ALS
- (0944) Sample 1 has been delivered to ALS, White Van moving to pick up sample 2.
- (0950) Due to fire picking up hazardous conditions have increased. Survey Team is heading back to staging area.
- (1000) Everyone meet back at the staging area ASAP and regroup and plan.
- (1004) Bell Canyon Community entry team is back to staging area.
- (1007) Soil sample 1 is on GCMS now.
- (1039) Nothing of interest detected from GCMS on the soil sample taken from location 1 (NSMO)
- (1234) Nothing of interest detected from air sample buffer solution.
- (1622) Meeting in the conference room with DOE.
- (1630) Need to evacuate hotel due to fire shifting. Hotel no longer deemed safe.
- (1700) Moving to new lodging location at 15433 Ventura Blvd, Sherman Oaks, CA 91403.
- (1800) Arrived at Courtyard.

Day 3

IRT on Standby due to Red Flag warning and fire conditions.

Day 4

- (0705) Survey Team SP from staging area to sampling sites.
- (0708) 9th CST Commander and 1SG arrive at Freedom Park.
- (0735) Woolsey Incident shift brief complete no change to AO. Information previously briefed.

(0747) Division A will be located at overland Bell Canyon Rd.
(0806) Site Safety plan signed. Sampling can commence.
(0810) Survey Team 1 beginning environmental sampling time now.
(0828) Survey Team 1 sample complete.
(0835) ALS completely ready to receive samples, LQCS and pre-sample blank complete and passed.
(0857) Survey Team 2 has completed sample at site 3
(0905) Survey Team 1 beginning environmental sampling at site 4.
(0934) Survey Team 1 sample completed at site 4.
(1011) All samples at the 4 sites have been collected and the vehicle will all the samples will be heading towards the ALS
(1050) Alpha moving out to ALS.
(1051) Site 6 complete.
(1111) All Teams heading back to staging area.
(1205) All samples for EPA and DOE have been conducted.
(1246) Soil and Air samples have been prepared for GCMS Analysis. Soil sample mix is currently being analyzed now.
(1346) OPS back to staging area.
(1526) Nothing of interest detected from the paper filter mix sample.
(1600) IRT heading back to Home Station for refit.
Day 5
On Standby
Day 6
On Standby

Day 7

On Standby
Day 8
On Standby
Day 9
On Standby
4. LOGISTICS//Self-sustaining on a local economy.
Personnel: 14 PAX
ADVON (9th CST)
ALS (9th CST)
ALPHA Truck (9th CST)
Survey Trailer (9th CST)
Bravo Truck (9th CST
DECON Truck (9th CST)
OPS Truck (9th CST)
White Van (9TH CST)
5. COMMUNICATIONS-CONNECTIVITY/POINTS OF CONTACT// Primary: Radio 800 MHz radio/Alternate: TAK, Cell / Contingency: SAT phone/Emergency: civilian 911 system. POC on the ground is CPT Sam Cho: 562-254-9584/
6. PERSONNEL (DETAIL SERVICE, LOCATION, MISSION AND NUMBERS)// 11 PAX (4 OFFICER//10 ENLISTED) located at

Home Station 11302 Independence Road Los Alamitos Ca.

7. MEDICAL (MILITARY PERSONNEL HOSPITALIZED OR INJURED, REASON FOR HOSPITALIZATION/INJURY): No significant injuries or concerns. Local EMS will be utilized if any medical issues are endured.
8. INTERAGENCY COORDINATION//: CAL EPA Greg Vlasek (916-708-3885), DOE, DTSC Tom Seekington (562-822-8848)
9. DOMESTIC SUPPORT ACTIVITIES//: N/A
10. COMMENTS: Will update if SIGACT occurs.
A. EVENTS LAST 12 HOURS: 9th CST has provided an environmental sampling of specific locations designated by DOE, or the area affected by the Woosley Fire.
B. NEXT 12 HOURS: The 9th CST will be on standby ready to continue to provide analytical analysis of environmental samples, hazard class identification of environmental samples.
SSG Quinonez, Brian
Operations Training NCO
9th Civil Support Team (WMD)
11302 Independence Road
Los Alamitos, CA 90720
Office: (562)-795-2596
Cell: (S62) 2S4-9024
From: Quinonez, Brian SSG USARMY NG CAARNG (US) Sent: Sunday, November 18, 2018 6:11 AM To: NG CA CAARNG Mailbox JOC OPS; NG NCR NGB ARNG Mailbox CBRN J39 Cc: Cho, Samuel H CPT USARMY NG CAARNG (US); Rodak, Neal P Lt Col USAF NG CAANG (US); Whitaker, David A (Whit)

SFC USARMY NG CAARNG (US); Whitley, Garrick D (Garry) 1SG USARMY NG CAANG (US)

Subject: GENTEXT SITREP 6 (Woolsey Fire)

SITUATION REPORT / PERIOD // Period 6: 100917NOV2018

SITUATION// 9th CST has been requested by CAL EPA to support the Fire IC for public safety assessments of hazards related to the Woolsey Fire incident. Capability requested is communication, laboratory testing, monitoring.

- 2. INTELLIGENCE// There were no known specific threats against this event// 9th CST is working closely with DOE for sources for this mission.
- 3. OPERATIONS// Provide integrated Situational Awareness (SA) and O/O integrated CBRN response to requesting authorities utilizing strike team capabilities in coordination with civil authorities IOT enhance security and public safety throughout the Ventura County. Provide civil authorities with the ability to provide rapid identification, assessment, and advice regarding the mitigation of any hazards discovered. Provide hazard modeling and communications interoperability utilizing the Mobile Field Kit (MFK) and Android Tactical Assault Kit (ATAK)/

DAY 1

(0900) IRT was alerted

(1300) IRT was in route to Ventura County from Los Alamitos JFTB

(1600) Arrived at 1 Black Canyon Rd, Simi Valley, CA 93063

(1611) IRT linked up with DOE

(1620) DOE link up was complete.

(1630) ADVON is up and connected.

(1632) The survey team is prepping equipment for downrange operations.

(1900) IRT SP to lodging location.

(2030) IRT arrived at lodging location 24150 Park Sorrento, Calabasas, CA 91302

Day 2

(0730) Survey Team SP for staging area to area 4 for environmental sampling.

(0750) Winds will be from the NE to SW between 7-27 MPH from now until 1800HRS. 1900hrs winds direction will be from N to S at 21 MPH.

(0838) ADVON moving to Area 4 location.

(0853) Site 1 sample 1 complete. (0907) Sample 1 en-route to ALS (0944) Sample 1 has been delivered to ALS, White Van moving to pick up sample 2. (0950) Due to fire picking up hazardous conditions have increased. Survey Team is heading back to staging area. (1000) Everyone meet back at the staging area ASAP and regroup and plan. (1004) Bell Canyon Community entry team is back to staging area. (1007) Soil sample 1 is on GCMS now. (1039) Nothing of interest detected from GCMS on the soil sample taken from location 1 (NSMO) (1234) Nothing of interest detected from air sample buffer solution. (1622) Meeting in the conference room with DOE. (1630) Need to evacuate hotel due to fire shifting. Hotel no longer deemed safe. (1700) Moving to new lodging location at 15433 Ventura Blvd, Sherman Oaks, CA 91403. (1800) Arrived at Courtyard. Day 3 IRT on Standby due to Red Flag warning and fire conditions. Day 4 (0705) Survey Team SP from staging area to sampling sites. (0708) 9th CST Commander and 1SG arrive at Freedom Park. (0735) Woolsey Incident shift brief complete no change to AO. Information previously briefed. (0747) Division A will be located at overland Bell Canyon Rd.

(0835) ALS completely ready to receive samples, LQCS and pre-sample blank complete and passed.

(0806) Site Safety plan signed. Sampling can commence.

(0828) Survey Team 1 sample complete.

(0810) Survey Team 1 beginning environmental sampling time now.

4. LOGISTICS//Self-sustaining on a local economy.
Development 14 DAY
Personnel: 14 PAX
ADVON (9th CST)
ALS (9th CST)
ALPHA Truck (9th CST)
Survey Trailer (9th CST)
Bravo Truck (9th CST
DECON Truck (9th CST)
OPS Truck (9th CST)
White Van (9TH CST)
5. COMMUNICATIONS-CONNECTIVITY/POINTS OF CONTACT// Primary: Radio 800 MHz radio/Alternate: TAK, Cell / Contingency: SAT phone/Emergency: civilian 911 system. POC on the ground is CPT Sam Cho: 562-254-9584/
6. PERSONNEL (DETAIL SERVICE, LOCATION, MISSION AND NUMBERS)// 11 PAX (4 OFFICER//10 ENLISTED) located at Home Station 11302 Independence Road Los Alamitos Ca.
7. MEDICAL (MILITARY PERSONNEL HOSPITALIZED OR INJURED, REASON FOR HOSPITALIZATION/INJURY): No significant injuries or concerns. Local EMS will be utilized if any medical issues are endured.
8. INTERAGENCY COORDINATION//: CAL EPA Greg Vlasek (916-708-3885), DOE, DTSC Tom Seekington (562-822-8848)
9. DOMESTIC SUPPORT ACTIVITIES//: N/A
10. COMMENTS: Will update if SIGACT occurs.

A. EVENTS LAST 12 HOURS: 9th CST has provided an environmental sampling of specific locations designated by DOE, of the area affected by the Woosley Fire.

B. NEXT 12 HOURS: The 9th CST will be on standby ready to continue to provide analytical analysis of environmental samples, hazard class identification of environmental samples.

SSG Quinonez, Brian

Operations Training NCO

9th Civil Support Team (WMD)

11302 Independence Road

Los Alamitos, CA 90720

Office: (562)-795-2596

Cell: (562) 254-9024

From: Quinonez, Brian SSG USARMY NG CAARNG (US)

Sent: Saturday, November 17, 2018 2:53 AM

To: NG CA CAARNG Mailbox JOC OPS; NG NCR NGB ARNG Mailbox CBRN J39

Cc: Cho, Samuel H CPT USARMY NG CAARNG (US); Rodak, Neal P Lt Col USAF NG CAANG (US); Whitaker, David A (Whit)

SFC USARMY NG CAARNG (US); Whitley, Garrick D (Garry) 1SG USARMY NG CAANG (US)

Subject: GENTEXT SITREP 5 (Woolsey Fire)

SITUATION REPORT / PERIOD // Period 5: 184716NOV2018

SITUATION// 9th CST has been requested by CAL EPA to support the Fire IC for public safety assessments of hazards related to the Woolsey Fire incident. Capability requested is communication, laboratory testing, monitoring.

- 2. INTELLIGENCE// There were no known specific threats against this event// 9th CST is working closely with DOE for sources for this mission.
- 3. OPERATIONS// Provide integrated Situational Awareness (SA) and O/O integrated CBRN response to requesting authorities utilizing strike team capabilities in coordination with civil authorities IOT enhance security and public safety throughout the Ventura County. Provide civil authorities with the ability to provide rapid identification, assessment, and

advice regarding the mitigation of any hazards discovered. Provide hazard modeling and communications interoperability utilizing the Mobile Field Kit (MFK) and Android Tactical Assault Kit (ATAK)/

DAY 1 (0900) IRT was alerted (1300) IRT was in route to Ventura County from Los Alamitos JFTB (1600) Arrived at 1 Black Canyon Rd, Simi Valley, CA 93063 (1611) IRT linked up with DOE (1620) DOE link up was complete. (1630) ADVON is up and connected. (1632) The survey team is prepping equipment for downrange operations. (1900) IRT SP to lodging location. (2030) IRT arrived at lodging location 24150 Park Sorrento, Calabasas, CA 91302 Day 2 (0730) Survey Team SP for staging area to area 4 for environmental sampling. (0750) Winds will be from the NE to SW between 7-27 MPH from now until 1800HRS. 1900hrs winds direction will be from N to S at 21 MPH. (0838) ADVON moving to Area 4 location. (0853) Site 1 sample 1 complete. (0907) Sample 1 en-route to ALS (0944) Sample 1 has been delivered to ALS, White Van moving to pick up sample 2. (0950) Due to fire picking up hazardous conditions have increased. Survey Team is heading back to staging area. (1000) Everyone meet back at the staging area ASAP and regroup and plan. (1004) Bell Canyon Community entry team is back to staging area. (1007) Soil sample 1 is on GCMS now.

(1039) Nothing of interest detected from GCMS on the soil sample taken from location 1 (NSMO)

- (1234) Nothing of interest detected from air sample buffer solution. (1622) Meeting in the conference room with DOE. (1630) Need to evacuate hotel due to fire shifting. Hotel no longer deemed safe. (1700) Moving to new lodging location at 15433 Ventura Blvd, Sherman Oaks, CA 91403. (1800) Arrived at Courtyard. Day 3 IRT on Standby due to Red Flag warning and fire conditions. Day 4 (0705) Survey Team SP from staging area to sampling sites. (0708) 9th CST Commander and 1SG arrive at Freedom Park. (0735) Woolsey Incident shift brief complete no change to AO. Information previously briefed. (0747) Division A will be located at overland Bell Canyon Rd. (0806) Site Safety plan signed. Sampling can commence. (0810) Survey Team 1 beginning environmental sampling time now. (0828) Survey Team 1 sample complete. (0835) ALS completely ready to receive samples, LQCS and pre-sample blank complete and passed. (0857) Survey Team 2 has completed sample at site 3 (0905) Survey Team 1 beginning environmental sampling at site 4. (0934) Survey Team 1 sample completed at site 4. (1011) All samples at the 4 sites have been collected and the vehicle will all the samples will be heading towards the ALS.
- (1051) Site 6 complete.
- (1111) All Teams heading back to staging area.

(1050) Alpha moving out to ALS.

(1205) All samples for EPA and DOE have been conducted.

(1246) Soil and Air samples have been prepared for GCMS Analysis. Soil sample mix is currently being analyzed now.
(1346) OPS back to staging area.
(1526) Nothing of interest detected from the paper filter mix sample.
(1600) IRT heading back to Home Station for refit.
Day 5
On Standby
Day 6
On Standby
Day 7
On Standby
4. LOGISTICS//Self-sustaining on a local economy.
Personnel: 14 PAX
ADVON (9th CST)
ALS (9th CST)
ALPHA Truck (9th CST)
Survey Trailer (9th CST)
Bravo Truck (9th CST
DECON Truck (9th CST)
OPS Truck (9th CST)
White Van (9TH CST)

5. COMMUNICATIONS-CONNECTIVITY/POINTS OF CONTACT// Primary: Radio 800 MHz radio/Alternate: TAK, Cell / Contingency: SAT phone/Emergency: civilian 911 system. POC on the ground is CPT Sam Cho: 562-254-9584/
6. PERSONNEL (DETAIL SERVICE, LOCATION, MISSION AND NUMBERS)// 11 PAX (4 OFFICER//10 ENLISTED) located at Home Station 11302 Independence Road Los Alamitos Ca.
7. MEDICAL (MILITARY PERSONNEL HOSPITALIZED OR INJURED, REASON FOR HOSPITALIZATION/INJURY): No significant injuries or concerns. Local EMS will be utilized if any medical issues are endured.
8. INTERAGENCY COORDINATION//: CAL EPA Greg Vlasek (916-708-3885), DOE, DTSC Tom Seekington (562-822-8848) 9. DOMESTIC SUPPORT ACTIVITIES//: N/A
 10. COMMENTS: Will update if SIGACT occurs. A. EVENTS LAST 12 HOURS: 9th CST has provided an environmental sampling of specific locations designated by DOE, of the area affected by the Woosley Fire. B. NEXT 12 HOURS: The 9th CST will be on standby ready to continue to provide analytical analysis of environmental samples, hazard class identification of environmental samples.
SSG Quinonez, Brian Operations Training NCO 9th Civil Support Team (WMD) 11302 Independence Road Los Alamitos, CA 90720 Office: (562)-795-2596 Cell: (562) 254-9024

From: Quinonez, Brian SSG USARMY NG CAARNG (US)

Sent: Friday, November 16, 2018 5:50 AM

To: NG CA CAARNG Mailbox JOC OPS

Cc: Cho, Samuel H CPT USARMY NG CAARNG (US); Rodak, Neal P Lt Col USAF NG CAANG (US); Whitaker, David A (Whit)

SFC USARMY NG CAARNG (US); Whitley, Garrick D (Garry) 1SG USARMY NG CAANG (US)

Subject: RE: GENTEXT SITREP 4 (Woolsey Fire)

SITUATION REPORT / PERIOD // Period 4: 215015NOV2018

SITUATION// 9th CST has been requested by CAL EPA to support the Fire IC for public safety assessments of hazards related to the Woolsey Fire incident. Capability requested is communication, laboratory testing, monitoring.

- 2. INTELLIGENCE// There were no known specific threats against this event// 9th CST is working closely with DOE for sources for this mission.
- 3. OPERATIONS// Provide integrated Situational Awareness (SA) and O/O integrated CBRN response to requesting authorities utilizing strike team capabilities in coordination with civil authorities IOT enhance security and public safety throughout the Ventura County. Provide civil authorities with the ability to provide rapid identification, assessment, and advice regarding the mitigation of any hazards discovered. Provide hazard modeling and communications interoperability utilizing the Mobile Field Kit (MFK) and Android Tactical Assault Kit (ATAK)/

DAY 1

- (0900) IRT was alerted
- (1300) IRT was in route to Ventura County from Los Alamitos JFTB
- (1600) Arrived at 1 Black Canyon Rd, Simi Valley, CA 93063
- (1611) IRT linked up with DOE
- (1620) DOE link up was complete.
- (1630) ADVON is up and connected.
- (1632) The survey team is prepping equipment for downrange operations.
- (1900) IRT SP to lodging location.
- (2030) IRT arrived at lodging location 24150 Park Sorrento, Calabasas, CA 91302

(0730) Survey Team SP for staging area to area 4 for environmental sampling.

(0750) Winds will be from the NE to SW between 7-27 MPH from now until 1800HRS. 1900hrs winds direction will be from N to S at 21 MPH.

(0838) ADVON moving to Area 4 location.

(0853) Site 1 sample 1 complete.

(0907) Sample 1 en-route to ALS

(0944) Sample 1 has been delivered to ALS, White Van moving to pick up sample 2.

(0950) Due to fire picking up hazardous conditions have increased. Survey Team is heading back to staging area.

(1000) Everyone meet back at the staging area ASAP and regroup and plan.

(1004) Bell Canyon Community entry team is back to staging area.

(1007) Soil sample 1 is on GCMS now.

(1039) Nothing of interest detected from GCMS on soil sample taken from location 1 (NSMO)

(1234) Nothing of interest detected from air sample buffer solution.

(1622) Meeting in conference room with DOE.

(1630) Need to evacuate hotel due to fire shifting. Hotel no longer deemed safe.

(1700) Moving to new lodging location at 15433 Ventura Blvd, Sherman Oaks, CA 91403.

(1800) Arrived at Courtyard.

Day 3

IRT on Standby due to Red Flag warning and fire conditions.

Day 4

(0705) Survey Team SP from staging area to sampling sites.

(0708) 9th CST Commander and 1SG arrive at Freedom Park.

(0735) Woolsey Incident shift brief complete no change to AO. Information previously briefed.

(0747) Division A will be located at overland Bell Canyon Rd.

ADVON (9th CST)
ALS (9th CST)
ALPHA Truck (9th CST)
Survey Trailer (9th CST)
Bravo Truck (9th CST
DECON Truck (9th CST)
OPS Truck (9th CST)
White Van (9TH CST)
5. COMMUNICATIONS-CONNECTIVITY/POINTS OF CONTACT// Primary: Radio 800 MHz radio/Alternate: TAK, Cell / Contingency: SAT phone/Emergency: civilian 911 system. POC on the ground is CPT Sam Cho: 562-254-9584/
6. PERSONNEL (DETAIL SERVICE, LOCATION, MISSION AND NUMBERS)// 11 PAX (4 OFFICER//10 ENLISTED) located at Home Station 11302 Independence Road Los Alamitos Ca.
7. MEDICAL (MILITARY PERSONNEL HOSPITALIZED OR INJURED, REASON FOR HOSPITALIZATION/INJURY): No significant injuries or concerns. Local EMS will be utilized if any medical issues are endured.
8. INTERAGENCY COORDINATION//: CAL EPA Greg Vlasek (916-708-388S), DOE, DTSC Tom Seekington (562-822-8848)
9. DOMESTIC SUPPORT ACTIVITIES//: N/A
10. COMMENT5: Will update if SIGACT occurs.
A. EVENTS LAST 12 HOURS: 9th CST has provided environmental sampling of specific locations designated by DOE, of the area affected by the Woosley Fire.
B. NEXT 12 HOURS: The 9th CST will be will continue to providing analytical analysis of environmental samples, hazard class identification of environmental samples.
SSG Quinonez, Brian

Operations Training NCO

9th Civil Support Team (WMD)
11302 Independence Road
Los Alamitos, CA 90720
Office: (562)-795-2596
Cell: (562) 254-9024
From: Quinonez, Brian SSG USARMY NG CAARNG (US) Sent: Wednesday, November 14, 2018 8:44 PM To: NG CA CAARNG Mailbox JOC OPS Cc: Cho, Samuel H CPT USARMY NG CAARNG (US); Rodak, Neal P Lt Col USAF NG CAANG (US); Whitaker, David A (Whit) SFC USARMY NG CAARNG (US); Whitley, Garrick D (Garry) 1SG USARMY NG CAANG (US) Subject: RE: GENTEXT SITREP 3 (Woolsey Fire)
SITUATION REPORT / PERIOD // Period 2: 124114NOV2018
SITUATION// 9th CST has been requested by CAL EPA to support the Fire IC for public safety assessments of hazards related to the Woolsey Fire incident. Capability requested is communication, laboratory testing, monitoring.
2. INTELLIGENCE// There were no known specific threats against this event// 9th CST is working closely with DOE for sources for this mission.
3. OPERATIONS// Provide integrated Situational Awareness (SA) and O/O integrated CBRN response to requesting authorities utilizing strike team capabilities in coordination with civil authorities IOT enhance security and public safety throughout the Ventura County. Provide civil authorities with the ability to provide rapid identification, assessment, anadvice regarding the mitigation of any hazards discovered. Provide hazard modeling and communications interoperability utilizing the Mobile Field Kit (MFK) and Android Tactical Assault Kit (ATAK)/
DAY 1
(0900) IRT was alerted
(1300) IRT was in route to Ventura County from Los Alamitos JFTB

(1600) Arrived at 1 Black Canyon Rd, Simi Valley, CA 93063

- (1611) IRT linked up with DOE
- (1620) DOE link up was complete.
- (1630) ADVON is up and connected.
- (1632) The survey team is prepping equipment for downrange operations.
- (1900) IRT SP to lodging location.
- (2030) IRT arrived at lodging location 24150 Park Sorrento, Calabasas, CA 91302

Day 2

- (0730) Survey Team SP for staging area to area 4 for environmental sampling.
- (0750) Winds will be from the NE to SW between 7-27 MPH from now until 1800HRS. 1900hrs winds direction will be from N to S at 21 MPH.
- (0838) ADVON moving to Area 4 location.
- (0853) Site 1 sample 1 complete.
- (0907) Sample 1 en-route to ALS
- (0944) Sample 1 has been delivered to ALS, White Van moving to pick up sample 2.
- (0950) Due to fire picking up hazardous conditions have increased. Survey Team is heading back to staging area.
- (1000) Everyone meet back at the staging area ASAP and regroup and plan.
- (1004) Bell Canyon Community entry team is back to staging area.
- (1007) Soil sample 1 is on GCMS now.
- (1039) Nothing of interest detected from GCMS on soil sample taken from location 1 (NSMO)
- (1234) Nothing of interest detected from air sample buffer solution.
- (1622) Meeting in conference room with DOE.
- (1630) Need to evacuate hotel due to fire shifting. Hotel no longer deemed safe.
- (1700) Moving to new lodging location at 15433 Ventura Blvd, Sherman Oaks, CA 91403.
- (1800) Arrived at Courtyard.

IRT on Standby due to Red Flag warning and fire conditions. Day 4 (0705) Survey Team SP from staging area to sampling sites. (0708) 9th CST Commander and 1SG arrive at Freedom Park. (0735) Woolsey Incident shift brief complete no change to AO. Information previously briefed. (0747) Division A will be located at overland Bell Canyon Rd. (0806) Site Safety plan signed. Sampling can commence. (0810) Survey Team 1 beginning environmental sampling time now. (0828) Survey Team 1 sample complete. (0835) ALS completely ready to receive samples, LQCS and pre-sample blank complete and passed. (0857) Survey Team 2 has completed sample at site 3 (0905) Survey Team 1 beginning environmental sampling at site 4. (0934) Survey Team 1 sample completed at site 4. (1011) All samples at the 4 sites have been collected and vehicle will all the samples will be heading towards the ALS. (1050) Alpha moving out to ALS. (1051) Site 6 complete. (1111) All Teams heading back to staging area. (1205) All samples for EPA and DOE have been conducted. (1246) Soil and Air samples have been prepared for GCMS Analysis. Soil sample mix is currently being analyzed now. (1346) OPS back to staging area.

Day 5

Currently on Standby

(1526) Nothing of interest detected from paper filter mix sample.

(1600) IRT heading back to Home Station for refit.

4. LOGISTICS//Self-sustaining on local economy.
Personnel: 14 PAX
ADVON (9th CST)
ALS (9th CST)
ALPHA Truck (9th CST)
Survey Trailer (9th CST)
Bravo Truck (9th CST
DECON Truck (9th CST)
OPS Truck (9th CST)
White Van (9TH CST)
5. COMMUNICATIONS-CONNECTIVITY/POINTS OF CONTACT// Primary: Radio 800 MHz radio/Alternate: TAK, Celi / Contingency: SAT phone/Emergency: civilian 911 system. POC on the ground is CPT Sam Cho: 562-254-9584/
6. PERSONNEL (DETAIL SERVICE, LOCATION, MISSION AND NUMBERS)// 11 PAX (4 OFFICER//10 ENLISTED) located at Home Station 11302 Independence Road Los Alamitos Ca.
7. MEDICAL (MILITARY PERSONNEL HOSPITALIZED OR INJURED, REASON FOR HOSPITALIZATION/INJURY): No significant injuries or concerns. Local EMS will be utilized if any medical issues are endured.
8. INTERAGENCY COORDINATION//: CAL EPA Greg Viasek (916-708-388S), DOE, DTSC Tom Seekington (562-822-8848)
9. DOMESTIC SUPPORT ACTIVITIES//: N/A
10. COMMENTS: Will update if SIGACT occurs.
A. EVENTS LAST 12 HOURS: 9th CST has provided environmental sampling of specific locations designated by DOE, of the area affected by the Woosley Fire.

B. NEXT 12 HOURS: The 9th CST will be will continue to providing analytical analysis of environmental samples, hazard class identification of environmental samples.
SSG Quinonez, Brian
Operations Training NCO
9th Civil Support Team (WMD)
11302 Independence Road
Los Alamitos, CA 90720
Office: (562)-795-2596
Cell: (562) 254-9024
From: Quinonez, Brian SSG USARMY NG CAARNG (US) Sent: Monday, November 12, 2018 7:21 PM To: NG CA CAARNG Mailbox JOC OPS Cc: Cho, Samuel H CPT USARMY NG CAARNG (US); Rodak, Neal P Lt Col USAF NG CAANG (US); Whitaker, David A (Whit) SFC USARMY NG CAARNG (US); Whitley, Garrick D (Garry) 1SG USARMY NG CAANG (US) Subject: RE: GENTEXT SITREP 2 (Woolsey Fire)
SITUATION REPORT / PERIOD // Period 2: 112012NOV2018
SITUATION// 9th CST has been requested by CAL EPA to support the Fire IC for public safety assessments of hazards related to the Woolsey Fire incident. Capability requested is communication, laboratory testing, monitoring.
2. INTELLIGENCE// There were no known specific threats against this event// 9th CST is working closely with DOE for sources for this mission.
3. OPERATIONS// Provide integrated Situational Awareness (SA) and O/O integrated CBRN response to requesting authorities utilizing strike team capabilities in coordination with civil authorities IOT enhance security and public safety throughout the Ventura County. Provide civil authorities with the ability to provide rapid identification, assessment, and advice regarding the mitigation of any hazards discovered. Provide hazard modeling and communications interoperability utilizing the Mobile Field Kit (MFK) and Android Tactical Assault Kit (ATAK)/

DAY 1

- (0900) IRT was alerted
- (1300) IRT was in route to Ventura County from Los Alamitos JFTB
- (1600) Arrived at 1 Black Canyon Rd, Simi Valley, CA 93063
- (1611) IRT linked up with DOE
- (1620) DOE link up was complete.
- (1630) ADVON is up and connected.
- (1632) The survey team is prepping equipment for downrange operations.
- (1900) IRT SP to lodging location.
- (2030) IRT arrived at lodging location 24150 Park Sorrento, Calabasas, CA 91302

Day 2

- (0730) Survey Team SP for staging area to area 4 for environmental sampling.
- (0750) Winds will be from the NE to SW between 7-27 MPH from now until 1800HRS. 1900hrs winds direction will be from N to S at 21 MPH.
- (0838) ADVON moving to Area 4 location.
- (0853) Site 1 sample 1 complete.
- (0907) Sample 1 en-route to ALS
- (0944) Sample 1 has been delivered to ALS, White Van moving to pick up sample 2.
- (0950) Due to fire picking up hazardous conditions have increased. Survey Team is heading back to staging area.
- (1000) Everyone meet back at the staging area ASAP and regroup and plan.
- (1004) Bell Canyon Community entry team is back to staging area.
- (1007) Soil sample 1 is on GCMS now.
- (1039) Nothing of interest detected from GCMS on soil sample taken from location 1 (NSMO)
- (1234) Nothing of interest detected from air sample buffer solution.
- (1622) Meeting in conference room with DOE.
- (1630) Need to evacuate hotel due to fire shifting. Hotel no longer deemed safe.

(1700) Moving to new lodging location at 15433 Ventura Blvd, Sherman Oaks, CA 91403.
(1800) Arrived at Courtyard.
4. LOGISTICS//Self-sustaining on local economy.
Personnel: 10 PAX
ADVON (9th CST)
ALS (9th CST)
ALPHA Truck (9th CST)
Survey Trailer (9th CST)
Bravo Truck (9th CST
DECON Truck (9th CST)
OPS Truck (9th CST)
White Van (9TH CST)
5. COMMUNICATIONS-CONNECTIVITY/POINTS OF CONTACT// Primary: Radio 800 MHz radio/Alternate: TAK, Cell / Contingency: SAT phone/Emergency: civilian 911 system. POC on the ground is CPT Sam Cho: 562-254-9584/
6. PERSONNEL (DETAIL SERVICE, LOCATION, MISSION AND NUMBERS)// 11 PAX (4 OFFICER//7 ENLISTED) located at Courtyard Marriott 15433 Ventura Blvd, Sherman Oaks, CA 91403
7. MEDICAL (MILITARY PERSONNEL HOSPITALIZED OR INJURED, REASON FOR HOSPITALIZATION/INJURY): No significant injuries or concerns. Local EMS will be utilized if any medical issues are endured.
8. INTERAGENCY COORDINATION//: CAL EPA Greg Vlasek (916-708-3885), DOE, DTSC Tom Seekington (562-822-8848)
9. DOMESTIC SUPPORT ACTIVITIES//: N/A
10. COMMENTS: Will update if SIGACT occurs.

A. EVENTS LAST 12 HOURS: 9th CST has provided environmental sampling of specific locations designated by DOE, of the area affected by the Woosley Fire.
B. NEXT 12 HOURS: The 9th CST will be will continue to providing analytical analysis of environmental samples, hazard class identification of environmental samples.
SSG Quinonez, Brian
Operations Training NCO
9th Civil Support Team (WMD)
11302 Independence Road
Los Alamitos, CA 90720
Office: (562)-795-2596
Cell: (562) 254-9024
Original Message From: Quinonez, Brian SSG USARMY NG CAARNG (US) Sent: Sunday, November 11, 2018 1:03 AM To: NG CA CAARNG Mailbox JOC OPS <ng.ca.caarng.mbx.joc-ops@mail.mil> Cc: Cho, Samuel H CPT USARMY NG CAARNG (US) <samuel.h.cho.mil@mail.mil>; Rodak, Neal P Lt Col USAF NG CAANG (US) <neal.p.rodak.mil@mail.mil>; Whitaker, David A SSG USARMY NG CAARNG (US) <david.a.whitaker26.mil@mail.mil>; Whitley, Garrick D (Garry) SFC USARMY NG CAANG (US) <garrick.d.whitley.mil@mail.mil> Subject: GENTEXT SITREP 1 (Woolsey Fire)</garrick.d.whitley.mil@mail.mil></david.a.whitaker26.mil@mail.mil></neal.p.rodak.mil@mail.mil></samuel.h.cho.mil@mail.mil></ng.ca.caarng.mbx.joc-ops@mail.mil>

CLASSIFICATION: UNCLASSIFIED
SITUATION REPORT / PERIOD // Period 1: 003411NOV2018
SITUATION// 9th CST has been requested by CAL EPA to support the Fire IC for public safety assessments of hazards related to the Woolsey Fire incident. Capability requested is communication, laboratory testing, monitoring.
2. INTELLIGENCE// There were no known specific threats against this event// 9th CST is working closely with DOE for sources for this mission.
3. OPERATIONS// Provide integrated Situational Awareness (SA) and O/O integrated CBRN response to requesting authorities utilizing strike team capabilities in coordination with civil authorities IOT enhance security and public safety throughout the Ventura County. Provide civil authorities with the ability to provide rapid identification, assessment, and advice regarding the mitigation of any hazards discovered. Provide hazard modeling and communications interoperability utilizing the Mobile Field Kit (MFK) and Android Tactical Assault Kit (ATAK)/
DAY 1
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(1300) IRT was in route to Ventura County from Los Alamitos JFTB
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(1900) IRT SP to lodging location.
(2030) IRT arrived at lodging location 24150 Park Sorrento, Calabasas, CA 91302

4. LOGISTICS//Self-sustaining on local economy.

Personnel: 13 PAX

ADVON (9th CST)
ALS (9th CST)
ALPHA Truck (9th CST)
Survey Trailer (9th CST)
Bravo Truck (9th CST
TOC Trailer (9th CST)
DECON Truck (9th CST)
5. COMMUNICATIONS-CONNECTIVITY/POINTS OF CONTACT// Primary: Radio 800 MHz radio/Alternate: TAK, Ceil / Contingency: SAT phone/Emergency: civilian 911 system. POC on the ground is CPT Sam Cho: 562-254-9584/
6. PERSONNEL (DETAIL SERVICE, LOCATION, MISSION AND NUMBERS)// 13 PAX (5 OFFICER//8 ENLISTED) located at Hilton Garden Inn 24150 Park Sorrento, Calabasas, CA 91302.
7. MEDICAL (MILITARY PERSONNEL HOSPITALIZED OR INJURED, REASON FOR HOSPITALIZATION/INJURY): No significant injuries or concerns. Local EMS will be utilized if any medical issues are endured.
8. INTERAGENCY COORDINATION//: CAL EPA Greg Vlasek (916-708-3885), DOE, DT5C Tom Seekington (562-822-8848)
9. DOMESTIC SUPPORT ACTIVITIES//: N/A
10. COMMENTS: Will update if SIGACT occurs.
A. EVENTS LAST 12 HOURS: 9th CST has linked up with DOE to provide environmental sampling locations of the area affected by the Woosley Fire.
B. NEXT 12 HOURS: The 9th CST will be providing analytical analysis of environmental samples, hazard class identification of environmental samples.
SSG Quinonez, Brian
Operations Training NCO

9th Civil Support Team (WMD)

11302 Independence Road

Los Alamitos, CA 90720

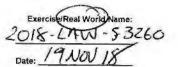
Office: (562)-795-2596

Cell: (562) 254-9024

Section 9

Logistical Status Report

ANNEX K - LOG/ADMIN DETAILED TACSOP: As of 11/19/2018 Equipment Loss Report





9th CST Roll-Up

Notional Total Pleces of Equipment Loss

Notional Total Dollar Amount

\$0.00

ACTUAL Real World TOTAL PIECES OF EQUIPMENT LOSS

13

ACTUAL Real World TOTAL DOLLAR AMOUNT

\$1,929.55

Item Description	Stock Number	LIN	NOMEN	Sections	Unit Issue	Unit Price	Serial No #	WORLD Actual Loss	Notional (exercise) Loss Oty	Notional Total Cost	Actual Total Cost
	0 666501X012097	99057G	GC/MS	Survey	EA	\$157,00	0	C	0	\$0.00	\$0.0
D-RING, GLOVEBOX	666501X011124	99103G	ALS	MED	EA	\$7.75	0	1	0	\$0,00	\$7.75
PIPETTE, PUMP 2ML FAST RELEASE	666501X011020	99103G	ALS	MED	EA	\$18.80	0	1	0	\$0.00	\$18.8
QUICKSILVER, SAMPLING KIT	666501X010960	99061G	SAMPLE	Survey	PG	\$180,00	0	10	0	\$0,00	\$1,800.00
REAGENT, BV DILUENT, 250ML	666501X102122	99103G	ALS	MED	EA	\$103.00	0		0	\$0.00	\$103.00

Section 10

Site Safety Plans, Incidents Action Plans, IC Goals and Objectives

9TH CST (WMD) SITE SAFETY AND CONTROL PLAN As of 6 MAR 2018

1. Incident Name;	2. Date in	epared;	3. Operational Time:		
Santa Susana Research Facility	20181111				
4. Incident Location:	SECTION I.	Site Information			
Sim Valley CA					
		. Organization			
5. Incident Commander: Tom Sellsanton	6. 9th CST CDR: LtCol Neal Rodak	7. TECH Specialist – HM Reference: CPT Brian Quigley / 2LT Daniel Nadeau			
8. Incident Site Safety Officer:	9. Entry Leader:		10. Emergency Medical Care	Provider	
CPT Samuel H Cho	SFC Eulizes Montalyo		First Response - SFC Zuniga		
11. Asst. Safety Officers – 9th CST 1SG Garrick Whitley	12. Decontamination Lea SFC Glenford Staine	der:	13. Hospital Contact Informat West Hills Hospital 818.676.4000	ion:	
14. Ambulance Service Information 9th CST/White Van					
17. Entry Team: (Circle = Primary entry)	Pl E Level	18. Decontamination El	ement: (Circle = Primary)	PPE Level	
Entry 1: Moltalvo, Kemp	\ ВСФ	Decon I. Staine, Brian,		ABCD	
Back Up: Quinonez, Zuniga	∧ в с 🛈	NA			
Entry 2: Sarmiento, Staine	\ B C (Decon 2 Staine, Brian,	Peralta, Ortiz, Vargas	ABCD	
васк Up:	ABCD	NA	· · · · · · · · · · · · · · · · · · ·		
Entry 3: Konp , Turigo Back Up:	\(\begin{array}{cccccccccccccccccccccccccccccccccccc	Decon 3. Staine. Brian.	Peralta, Ortiz, Vargas	ABCD	
Entry 4:	<u> </u>	Decon 4. Stame, Brian,	Peralta, Ortiz, Vargas	ABCD	
Back Up:	\ B C '.				
Entry 5:	A B C D	Decon 5, Staine, Brian,	Peralta, Ortiz, Vargas	ABCD	
Back Up:	V B C 1+				
SECTION III.	Hazard Evaluation (See a)	it closing report for MS	DS and more details)		
19. Initial Reported Substances Co	ontainer Qty/Concerns	Jon	Primary hazards		
Silvatoriti Ticaj tipis				<u>.</u>	
	SECTIONE	Reactive Hazards			
Unstable Water Reactive Pyropho	oric Rudioactive	orresive Oxidize	er Decomposition Ot	her (Unknown)	
Has EOD been called/	requested: YES (vo	
		amination Procedure	s		
24. Decontamination Line Certification:			Yes:	No:	
1. Solution N/A Contact time N/A	2. Solution	Contact time N	/A N/A	N/A	
25. Command Frequency: 1 2(3)4 A B	SETTION VI. N	te Communications	1 100 100		
	ON VII. Stedical Monte	money: 1 2 6 4 A LC	27. Medical Frequency: 1	2(3)4 A BC)	
28. Medical Monitoring: Yes:	No: 29, EMS	site and contact inform	ation - see block 14	Yes: No:	
	X		300 MOOR 1 1.	X X	
	SECTION VIII	Entry Objectives			
IC Goals/Objectives: 1. 5 Air Sampling at designated locations b	y DOE	C 5 Air Sampling at de	CDR's Objectives: signated locations by DOE _		
2. 5 Soil Sampling at designated locations l	ny DOE	. 5 Soil Sampling at d	esignated locations by DOE		
3. Get Presumptive Analysis for Sample in	ALS	Cret Presumptive Ana	alysis for Sample in ALS		
4. Report Findings of Presumptive Analysis	s to IC	. Report Findings of P	resumptive Analysis to IC	-	
5	· · · · · · · · · · · · · · · · · · ·	·			
6.	 	· · · · · · · · · · · · · · · · · · ·			

9TH CST (WMD) SITE SAMETY AND CONTROL PLAN As et a MAR 2018 SECTION VIII, Entry Objectives (cont.) ___1_# ENTRY (T: つ #ENTRY (T: 1. 5 Air Sampling at designated locations by DOE 4 gar sampling a designated locations by DOE 2. 5 Soil Sampling at designated locations by DOE 4. Report Findings of Presumptive Analysis to IC 4. 5. _____ 5. 7._____ 7. _____ # ENTRY (T: #ENTRY (T:) 1.

	 	1
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		'n
		7
		#ENTRY (T:)
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		3.
		4.
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		h
		7

9TH CST (WMD) SITE SAFETY AND CONTROL PLAN

30. Site Map: Mark the exclusion zone with: TAPE CONES TO SELECT THE SHEET N/A Escape Routes [] Weather [] CP [] Safe Refuge (clean/dire) Wind [] Sapidocaeut AN TOR 77 (A/B/G RAD ORTEC HX M8/M9/KI/pH Paper(s) de Fab MultiRae (O2/H2S/LEL/CO2/VOC) First . Nano Raiders 1 AND PR2(Radiac Meter) Trules AREARae Packeye Identionder ICX **SASS 3100** RAID M Hazhini a sa Color on the BT650 identifinder ICX U **JCAD** UDD: Digital Camera (Ricoh) Polaris M256 kit (G/H ID) Link MFR > 2Sample kit (Quicksilver) Survey Cart Test Profesor Backpack SECTION Very Eductices per site 32. Modifications to Documented SOP's or Work YES NO X SECTION XII. Eng. . inn Projedures briefing checklist

9TH CST (Water States The Total And Control Plan

- 33. Return/Evacuation Criteria
- o Dose: RAD @ 2.5 cGy/hr or 2.5 reni (Gamma)
- o Rate: RAD @ 12.5 cGy/hr or 12.5 rem/hr (Gan)

(10 CFR 20 & AR 40-14)

- o Deliberate loss of communication
- o No communication for 5 minutes
- o Other:
- 34. Additional hazards and control measures min.

- and start (90 degrees) (Safe work practice)
- 13 (16) OF LEL indoors) (25% of LEL outdoors) (OSHA)
 - sacached suits (SOP)
 - stry to the work practice)
 - seastile a naed individuals (Safe work practice)
- promailed back by CST CDR or IC (SOP)
 - Horn blast (go to safe refuge area) (SOP)
 - 3.47.81

by ON Plan/equipment

YES

Anaya	YES NO	r Kemp		The stags	PRESEN 11.8	Whitaker	PRESER YES NO
Brecht	YES	Muntales		t E onex	(TES) NO	Zuniga	NO NO
Brian	YES	Nadean	0	er egy (t)			YES NO
Cho	(ES) NO	Ortiz		%. %i.u to	YES		YES NO
Coe	YES	Peralta		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(YES)		YES NO
Foss	YES	Quigier	\bigcirc	:	(1-S) NO		YES NO

13, non Sely Notes

Licensed health providers may adv. (562) 254-6059,	er a reseems to the 9th CST Physicians Assistant at
All 9th CST (WMD) personnel requirementry. Permanent medical records are to	with the CA-ARNG,
There are known or suspected the 9th CST Commander at (562) 254-6	en en receing this incident. For specific details contact
There are physical injurie at contact the 9th CST Commander at 1 the Page 4	each state on the incident site. For specific details

9TH CST (VALUE CALL CONTROL PLAN DE LETS

	· · · · · · · · · · · · · · · · · · ·
	· · ·
All 9th CST (WMD) personnel have bagents named on the 9th CST (WCCST (WMD) Physicians Assistant Treatment Facility while contaction closing report for actual personnel provisions of this site safety plan.	connections following exposure to the substances or connections and have been advised to contact the 9th of a well-care at the nearest appropriate Medical and Assistant. See 9th CST (WMD) roster in this have been briefed or read and are familiar with the
• • • • • • • • • • • • • • • • • • • •	
,	
9TH CST (WMD) Commander's Signal 4 at the	e colont Commander's Signature (Entry 1)
9TH CST (WMD) Commande & Mary	at the samualder's Signature (Entry 2)
9TH CST (WMD) Commander's Si	Dente Tommander's Signature (Entry 3)
9TH CST (WMD) Commander's Signal	to them: Commander's Signature (Entry 4)
9TH CST (WMD) Commander's Series	ent Chaumander's Signature (Entry 5)
9TH CST (WMD) Commander's St	Entry 6)

			DELIBERATE RIS	K ASSES	SMENT W	ORKS	HEET				
1. MISSI	ON/TASK DESCRIP	MOIT							2. DATE (DD)	MM/YYYY)	
									1011	2018	
3. PREPA	ARED BY										
a, Name	(Last, First Middle	Initial)		b.	Rank/Grade		c. Duty	Title/Positio	n		
Mor	Halve, E		1765		SFC/	E4	NCOIC	:			
d. Unit			k Email			f. Tels	phone (DSN/Commer	rcial (Include A	rea Code))	
	9th CST	ورا	zer. I mudelie.	.17	nil@mail.mil	57	52-2	254-	624	3	
g. UIC/CI	IN (as required)	h. Trai	ning Support/Lesson Plan	or OPORD	(as required)	î. Sigr	nature of	Proparer	△		
	W7LKAA	OPOR	D Bear			!			9		
Five step	s of Risk Manageme			Assess the hi Supervise an				rois & make d equal to numb	iecisions pered items on	form)	
	4. SUBTASK/SUBST MISSION/TASK	EP OF	5. HAZARD	6. INITIAL RISK LEV	7. CONTRO	DL		8, HOW TO IN WHO WILL	APLEMENT/ IMPLEMENT	9. RESIDUAL RISK LEVEL	
	Downrange Survey Operations	,	CBRN contamination Air quality Slips, trips and falls Loss of communications Confined spaces Heat stress Use of all-terrain vehicles	М	Level A-C Fit testing Buddy tea Hand and Monitor v Medical n Seat belts	uns arm sig vater int nonitori	ake	How: Pre-Entry B Rehearsals	rictings	1.	
-			Man-down Limited visibility		Drive less Flashlight	than 5	mph	Survey Tea Recon NCC			
	Conduct Ground Movement	_	Unsafe roads Speeding Tailgating Traffic congestion Improper passing Purking lots	M	Weather r Speed firm 3 second: Traffic re Co-driver Ground g	rule ports used		How: Convoy Sat	ety Brief	1.	
+			Complicency Fatigue		Scat belts Drivers re drive less	st 8 hor	ers and	Who: Senior NCC	DIC		
	Maritime Operation Ship Boarding	ns	Drowning Falls Water hazards Ship hazards Inclement weather Strong currents	M	3 points of Identify wear PFI Use rails around an member g	veak sw Os with on ship id have guide av	immers lights to move crow	How; Briefings Who:		I.	
+					Lineguare			Ship Captai	n/Crew		

13. RISK.

	4. SUBTASK/SUBSTEP OF MISSION/TASK	5. HAZARU)	6. INIT	TIAL SK LEVEL	7. C	ONTROL			D IMPLEMENT/ ILL IMPLEMENT	9. RESIDUAL RISK LEVEL
+	Conduct Air Movement Aircraft Loading	exit/loadin Emergence Eye and h Equipmen	aircraft entry/ ng procedures ry landing caring injuries at on runways n runways			Take all directions from crew chief Seat belts Eye and car protection Situational awareness 5 mph speed limit		on	How: Brictings Who: Crew Ch		I,
10. OVE	RALL RESIDUAL RISK LE	VEL (All co	ntrois impleme	nted):							1
	EXTREMELY HIGH	☐ HiG	iH		N	/EDI	IUM	• • •	⊠ LO/	N	
Leaders	11. OVERALL SUPERVISION PLAN AND RECOMMENDED COURSE OF ACTION Leaders will brief all identified hazards and associated controls at briefings, check equipment prior to use, and review all likely scenarios during rehearsals. Any unresolved issues will be elevated through the chain of command to the Commander for final decisions.										
12. APP	ROVAL OR DISAPPROVA	L OF MISS	ION OR TASK			prov			prove		.,.
_	(Last, First, Middle Initial) Oz Samul 1		b. Rank/Grad					d. S	Signature of Approval Authority		
e. Addit	ional Guidance:										
				Pı	robability	(exp	pected frequency)			
	Risk Assessm	ent Ma	trix	re in	equent; ontinuous, gular, or evitable ccurrences	.	Likely: Several or numerous occurrences	Occas Spora Interm occurr	dic or ittent	Soldom: Infrequent occurrences	Unlikely: Possible occurrences but improbable
Severity	(expected consequence)				A		В		С	D	E
Catastrophic: Mission failure, unit readiness eliminated; death, unacceptable loss or damage				1	ia;ı		en		н	Н	М
Critical: Significantly degraded unit readiness or mission capability; severe injury, illness, loss or damage		II *	(d)		H		H	М	L		
	te: Somewhat degraded uni ly; minor injury, illness, loss,			in .	н		M		M	L	L
	ble: Little or no impact to un y; minimal injury, loss, or da		or mission	IV	M	L			L	L	L
Legend	Legend: EH - Extremely High Risk H - High Risk M - Medium Risk L - Low Risk										



9^{TH} CST OPERATIONS ORDER

Date: // /// Time of incider Time of Call:_/	ov 2018
Time of Incider	it: <u>0700</u>
Time of Call:	0100
Time on Scene	·
e Recommendation:	s (Shelter vs.
ions	estat,
,	
ter ne d analysis) : Spectra	
ources (DoD, DTRA,	DOE, FBI)
acilities Inits	
ine/Capability	
rea	

	Time of Call: UNIV
Commence of the Commence of th	Time on Scene:
SITUATION (Specific Location and General Description of	MISSION (Objectives):
Incident): 9th CST Deploy to Santa Susanna research	
facility in order to provide support to DOE approved	IC Objectives:
monitoring to ensure no donte mination due to fires at	☐ Life Safety
the received C. IV	☐ Determine Exclusion Zone
the research facility.	☐ Site Characterization
RELEASE INFORMATION:	□ Locate and Identify Hazards
Agent Released/Suspected How? How Much?	Mitigate hazards (if possible)
Color Odor How Much	☐ Collect / Process Samples
Agent still present? () Yes () No () Unknown	 Suggest Mitigation Options / Provide Recommendations (Shelter vs.
	Evacuation)
Dispersion Method? Indoor or Open Air Release?	☐ Provide Advice on Health Effects
Wind Direction? From To Wind Speed? MPH	 Establish interoperable communications
MSDS Available? () Yes ()No Casualties? () Yes () No	Other:
Casacinasi () res () no	
CASUALTY INFORMATION:	CST Objectives:
- Injured Deceased	☐ Determine Zones / Establish Perimeter
Signs/Symptoms	☐ Site Characterization of Exclusion Zone
Time from Exposure to time of onset	ID Hazard (conduct presumptive field analysis)
Have casualties been decontaminated? () No () Yes with	□ Conduct Sampling Mission / Capture Spectra
7 On Scene Medical Capabilities () Ambulance () Life Flight () Other	☐ Mitigate the hazard
en de la companya de La companya de la co	☐ Conduct Reach-Back with GBRN Resources (DoD, DTRA, DOE, FBI)
AREA INFORMATION:	Collect intelligence Data Downrange
Best avenue of approach to incident site (Staging	☐ Provide plume model to IC
Area):	☐ Locate Nearest Medical Treatment Facilities
Keys or codes required to enter effected area? () No () Yes	☐ Coordinate with On Scene Medical Units
Area cleared for secondary devices? () No () Yes By	 Provide voice/data Comms support
Power () On () Off HVAC () On () Off	Establish and Maintain Tech Decon Line/Capability
Maps () Supplied () Requested () Not Available () On Site Safety Plan	
Site Safety Plan () Complete () In-Progress	Entry Objectives:
Perimeter Established () No () Yes by:	☐ Execute PMT
Local HAZMAT Team on Scene:	☐ Site Characterization of the Target Area
Other Agencies on Scene or Called:	☐ Detect Hazards
DECON Line Established () No () Yes by:	☐ ID Hazards (if possible)
Exclusion Line Established () No () Yes by:	☐ Conduct Sampling Mission
Monitored for: () O2 () LEL () VOC () RAD () Crime Scene	☐ Mitigate Hazard (if possible)
Monitoring Equipment Used:	Preserve Evidence
Entries Made? () No () Yes PPE Level? (Circle) A B C D	Provide Intel and Recommendations during Debrief
Samples Taken? () No () Yes #	=

EXECUTION: N	ote - Below tosks are completed as needed according	g to the situatian	>	ALS/An	alytical	
> Site				IJ	Ready to Receive Samples	
	Site Verified Clean			<u> </u>	Tech Ref Ongoing	56
	Water Source Located					
	Site Setup Determined		>	Commu	ınications	
					HF-ACU 1000	•
Briefir	ngs			\Box	SAT Acquired	
ī	IRT In-brief (at unit)				Network Established	,
Ε	Arming and RUF Requirements:				Phones Up	
Ē	IC In-brief			\Box	ICS-205 Complete	
٥	IRT / Main Body Link-Up and Brief					
ī	Entry Briefing Conducted		*	Survey	-	
					Establish Exclusion Zone	
> Opera	tions				Set-up Survey Foot Print	
3	NGB 500 Initiated		•		Survey Equipment Prepared for	or Operation
⊐	Initial SITREP sent to JOC				Set Up MFK (Provide MFK-30	•
9	30 Min SITREP sent to JOC				Send Background Readings via	
2	MDMP with Survey Complete			Ω	Entry Team Dressing Out	
一点 指 4.8.11.0	•		-	_	Entry Team Batting Order Esta	ahlished
	• • • • • • • • • • • • • • • • • • • •	 A fine a fine at a constraint of the constraint of th	será con		Entry Brief Complete	
	DCO Operational				.2,	
	TOC Board Set-Up	* ** y*	SUSTAL	NMENT:		
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ū	Equipment Setup		. 1997 67	A - 1/2 - 1/	tion, and	
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<u> </u>	Generator Grounded / Fire Extinguisher		IC Ove	rantantini		
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> Medic	al .					
/ Ivieur.					hed to OPORD):	
_	_ ·				oy Safety Brief	Annex E – Tech Ref Chart
	Pre-Fatry Monitoring Complete				C Brief (Order of March)	Annex F – NGB Form 500
					Assessment	Annex G – RFI Tracker
			Annex	D – Sign-l	In Sheet	Annex H – RUF Brief

IRT/MAIN BODY CST MOVEMENT/SAFETY CHECKLIST

DTG:	J Nov	18			Maneur	er: General C	hecklist			
N-Hour:	IC Name &	: Phone#				☐ Brief Rou ☐ Strip Map	te (strip map w/r. s Printed, w/addi	tion and succession est, fuel & meal storess of end point ehicles w/out co-d	ops, SP time)	
					ORDER OF	VEHICLE	DRIVER	CO-DRIVER	PASSENGER	PASSENGER
					MARCH \	Alpha w TLR	Montales	AVAYA		
Movement Brief	time/location: _			<u> </u>	2	ALS	NADER	Ruiges	<u> </u>	
Destination Add	ress:				3	ADVON	62	Cho		!
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				-	4		PEValta	ZUNION		
•						OPS wiTLR		8		
MISSION:					5	15 PAX	Kemp	FUSS	· 	
EXECUTION Task Organizat □Perso		IRT -	1			☐ Plume Mo ☐ Identify w ☐ Uniform f ☐ Account f (ATNAAs, ■ Line thro ☐ Food and ☐ Vehicle D	Data (temperature del / Hazard Ass ho is contacting to refer travel (Must wor Sensitive Item: TLDs, UDR-13, ough items not apwater available ispatch Checklist	wind direction, he essment / Avenue - the JOC (departure rear uniform coat as Rad Watch, Radio, plicable to current is complete and si	of approach to inc & arrival on seen and patrol gear at a Mask, Weapon, mission for tracki	ident he emails) hill rest stops) CAC Card) hing
						☐ CRM Con☐ Keys or co		inter effected area () Yes () No.	
Rodak (Foss	Whitley		 		☐ Weapons:	and Ammo requir	red for mission	. , (, , -	
Cho /	Whitaker	Quinonez				☐ Special Ed		visionity		
Ortiz (Peralta	Staine	Brian							
Brecht	Quigley	Nadeau	Zuniga		COMMA	AND AND SIG	GNAL:			
Quinones	Montalvo	Anaya	Kemp			☐ Channel _☐ Radio Che	for movements of finites prices from the first factor of the following from the following			

As Of DIG:

9th CST (WMD) RFI/RFA TRACKER

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DATE 10 NEV 2018

	_ 		PERSONNEL STATUS BOARD			
NAME	RANK	POSITION	PRESENT FOR DUTY	NOT PRESENT FOR DUTY	TIME	REASON
Rodak, Neal	Lt Col	Commander				
Foss, Shane	CPT	Deputy Commander				<u> </u>
Vargas, John Lv 4 if ley Cravick Ortiz, Daniel	18G	First Sergeant				······································
Ortiz, Daniel	SFC	Communications Chief				
Peralta, Esteban	SFC	Information System Analyst	Self-let		0924	· · · · · · · · · · · · · · · · · · ·
Staine, Glenford	SFC	Logistics NCO			7	
Brian, David	SSG	Admin NCO	Hamil Wen		0905	
Cho, Samuel	CPT	Operations Officer	and the second	· · · · · · · · · · · · · · · · · · ·	2740	
Whitaker, David	SFC	Ops NCO-Modeling			1	
Quinonez, Brian	SSG	Asst Ops NCO	125		0459	
Brecht, Nicholas J.	MAJ	Physician Assistant				
Nadeau, Daniel C.	2LT	Medical Ops Officer		······	27730	
Zuniga, Aaron	SFC	Medical NCQ			7.7.9	· · · · · · · · · · · · · · · · · · ·
Quigley, Brian	CPT	Science Officer	34,20		0930	
Quinones, Kris	1LT	Survey Team Leader				
Montalvo, Eulízes	SFC	Survey Recon NCO	CCU		1759	
Kemp, Steven	SSG	Survey Team Chief	Z		0930	
Anaya, Alfonso	SSG	Survey Team Chief			0925	<u> </u>
Coe, Taylor	SGT	Survey Team Member			0123	
Sarmiento, Anthony	SGT	Survey Team Member				
	SGT	Survey Team Member				· · · · · · · · · · · · · · · · · · ·
	SGT	Survey Team Member				
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Senior NCO Deployment Responsibilities (circle one ADVON / MAIN BODY)

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u Vehic	ele Assignments	and Order of Mar	ch		*Denote	es IRT person(s)
ORDER OF MARCH	VEHICLE	DRIVER	CO-DRIVER	PASSE	NGER	PASSENGER
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2	ALS					
	UCS					
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· · · · · · · · · · · · · · · · · · ·	DECON					
	MRV					
4	IRT B w/ TLR					
· ·	OPS w/ TLR					
<u> </u>	15 PAX					

DEPLOYMENT Cheeks			IRT NCOIC Checklist			
	Develop Timeline to SP Along with STTREP for unit (YES NO N/A)		Receive Notification from IRT OIC			
0	All Radios Secured by Personnel or in UCS (YES NO N/A)	☐ Initiate Team Notification start with IRT				
Ö	Communications Equipment in Safe is Secured in UCS (YES NO N/A)	a	Initiate Sign-In sheet in conference room			
0	Weapons & Ammunition Secured (YES NO N/A)		Ensure all equipment is secured ic (NAKS, TLD, UDR 13)			
	Brief Rules of Engagement (YES NO N/A)		Complete Deployment Checks			
	Determine Health Assessment (YES NO N/A)		Complete IRT leave behind paperwork w/IRT OIC			
	All Personal Equipment Loaded per Load Plans (YES NO N/A)	O.	Conduct IC Link Up w/IRT O			
	Contact ADVON to Obtain Their Remaining Personal Equipment	1	Orientation to Hazard			
	(YES NO N/A)	П	11.70.0			
13	Line up Vehicles (YES NO N/A)	11				
	Radio Checks (YES NO N/A)	11	G Garra von Grantation			
	Admin MCO III II I					
	Admin NCO input Personnel Orders (YES NO N/A)]	Force Protection			
1 14	Print-Strip Maps (make sure to leave a copy for Main Body-if on IRT)		IC Goals			
	(YES NO N/A)					
	Convoy Safety and Route Briefing (YES NO N/A)	ū	Conduct PMT			
Ü	Building and All Gates are Secure (YES NO N/A)	<u> </u>	Complete Operational Footprint diagram			
	Verify JOC is Notified of Launch (YES NO N/A)	☐ Link up and direct Main Body into AO				

OTHER NOTES:

SR NCO NAME:		DATE:	

Woolsey Incident

CA-VNC-91023

Incident Action Plan

Operational Period

Nov 12th - Nov 13th 2018

0700 - 0700









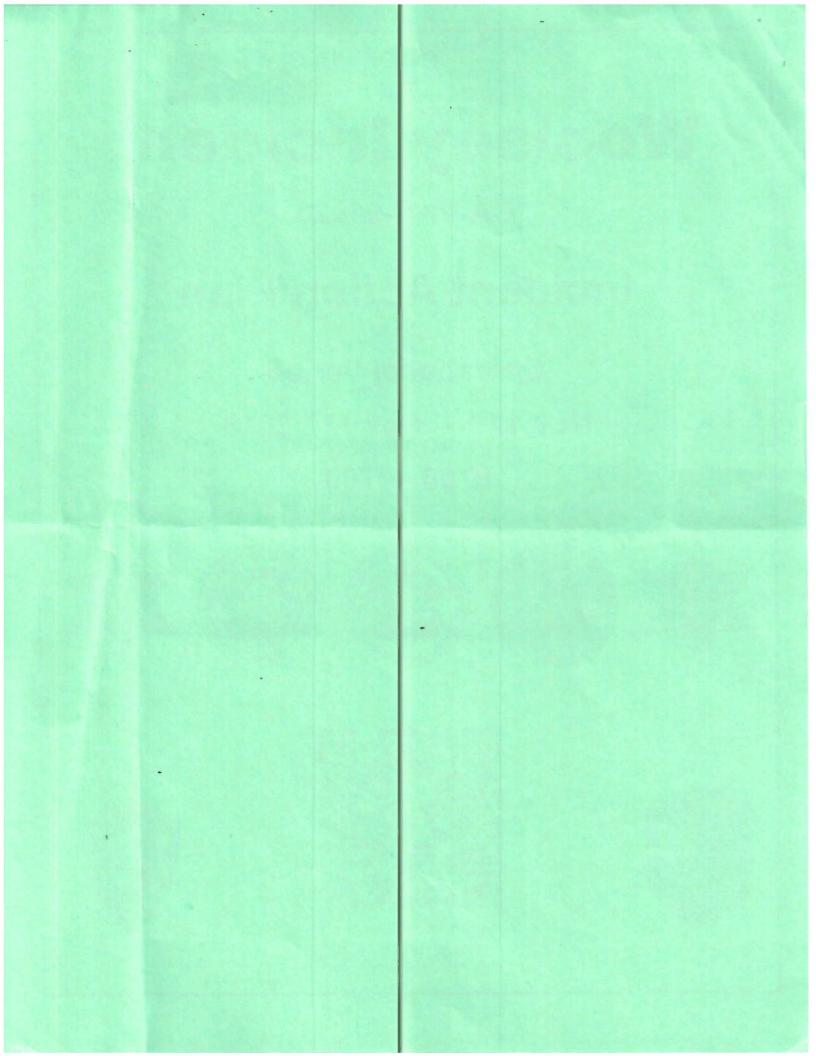












INCIDENT OBJECTIVES (ICS 202)

1. Incident Name:	2. Operational Period;	Date From:	11/12/2018	Date To:	11/13/2018
Woolsey		Time From:	0700	Time To:	0700
3. Objective(s):				-	
Management Objectives					
-Provide for emergency personnel and public safet through the hazard risk assesment process.	ly at all timas by ensuring ha	zards and risks are	identified, com	nunicated an	d mitigated
-Protect property, improvements, and infrastructure	9.				
-Ensure an appropriate evacuation and repopulation	on plan is in place and comm	unicated.			
-Foster and strengthen relationships by recognizin	g the needs of all unified, ass	sisting and coopera	ting agencies.		
-Accurately track costs and provide fiscal accounta	ability while ensuring the nee	ds of the incident ar	e met.		
-Ensure timely and accurate information is coordin	ated and provided to the pub	lic and cooperators			
Control Objectives -Keep the fire North of Pacific Coast Highway					
-Keep the fire South of Highway 118					
-Keep the fire East of South Reino Road & Sycam	ore Canyon Road				
-Keep the fire West of Topanga Canyon Boulevan					
, , ,					
General Situational Awareness:		1			·· v ·
Steep and rugged terrain, critically dry and rec	eptive fuel beds, active are	a for fire history a	nd drought str	essed trees	
The fire area has a significant history for firefly	obter entranments and inlu	rios			
size me area nos a significant instory for inent	inter entraphicina and Hiju	, rod,			
5. Site Safety Plan Required?	Yes □ No Ø				
Approved Site Safety Plan(s) Located at:			·		
6. Incident Action Plan	,				
2 1CS 203 2 1CS 215A	Phone List	∐ Fire S	uppression Rep	air Plan	
ICS 204 ICS 220	Training Message	닏			
ICS 205 Incident Map	Travel Map	닏			
ICS 206 Waather Forecast	Demob Pian				
ICS 208 Fire Behavior	Finance Message	ICS 2			
7. Prepared By: Anale Builew / Miltch Diehl	Position/Title: PSC	Signature:	WHI CHY	<u> </u>	
8. Approved by Incident Commander:	Mike Parkes	Signature: 🟒	////		
ICS 202			<i>(</i>		ALI SHEH

ORGANIZATION ASSIGNMENT LIST (ICS 203)

Walther Fig. 10 Cynnest Staff (C)UC's Parkos / Myers / Estada (Cynus) Cynus /		ONGANIZATION			······································		
Columnic	1. Incident Name:	• · · · · · · · · · · · · · · · · · · ·	Period:	£.		Date To:	11/13/2018
Cyberations Davis / Cost (VNC) / Imman (LAC)			A Company of the Comp	Time From:	0700	Time To:	0700
Wattins / Richardson / Lorenzon Deput Operations Berbena / Shea (VNC) / Derek Alkonis (LAC)	33Incident Command	r(s) and Command Staff:	7. Op	ration Secti	on: - S D	4.747951	14.00 A 14.00
Rose / Gage / Minton Safety Officer John Acknamara Night Ops Information Officer John McNamara Night Ops John McNamara Namara Namar	IC/UC's		ļ				
Safety Officer Dan McNamara Night Ops Blankenheim / Spykerman (VNC) / Hale (LAC) Information Officer Jones / Davis / Jared Jaragh Jar		 	Deput	Operations	Berbena / Shea (VNC) / Derek A	Nkonis (LAC)
Information Officer Johns of Towns / Jared Staping Area Lision Officer Johns of Towns / Jared Staping Area Lision Officer Johns of Towns / Jared Staping Area Lision Officer Johns of Towns / John Ame Division/Group A M. Martinez Agency/Organization Name Division/Group B J. Niederberger / E. Cecene (T) NPS Derrek Hartman Division/Group B J. Niederberger / E. Cecene (T) NPS Derrek Hartman Division/Group C Owings CDCR Li Ellere Division/Group C Owings Frish & Game J. C Heaty Frianch JV Ramirez (T) Public Health Mike Rogers Division/Group F M. Lipson Public Health Pablo Valadez Division/Group F M. Lipson Public Health Pablo Valadez Division/Group J J. Gray CA Alimad Control Cary Van Division/Group M M. Lamont / 8 Porrazzo (T) American Red Cross Cary Van Division/Group M M. Lamont / 8 Porrazzo (T) American Red Cross Cary Van Division/Group M M. Lamont / 8 Porrazzo (T) CAL County CEO DEM Sinan Khan Division/Group N M. Jacraz / A. Wilding (T) CSE Supervisor Dan Face Division/Group P P. Byde / A. Estabrook CSE Supervisor Scott Brown Division/Group P P. Byde / A. Estabrook CSE Supervisor Dave Valencia Division/Group S C. Tate / R. Decamp (T) LA Animal Control Cesar Chavez Division/Group S C. Tate / R. Decamp (T) LA Animal Control Cesar Chavez Division/Group V B. Myers CHIP Kevin Kurker Division/Group V B. Myers CHIP Kevin Kurker Division/Group V B. Myers CHIP Kevin Kurker Division/Group V B. Myers CHIP Stapport Division/Group Division/Group CHIP CROSS Card McMilton Division/Group CHIP CROSS Card			ļ	<u> </u>			
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INCIDENT Weather Forecast



FORECAST NO:

3

NAME OF FIRE: Woolsev

PREDICTION FOR: 24 hour

SHIFT

UNIT: VNC/CalFire

SHIFT DATE:

11/12/18-11/13/18 (0700-0700)

SIGNED: Rich Thompson

TIME AND DATE

Incident Meteorologist

FORECAST ISSUED:

11/11/18 @ 1900

WEATHER DISCUSSION: ... RED FLAG WARNING THROUGH 500 PM TUESDAY...

Moderate to strong Santa Ana winds will continue across the area through the operational period. The winds will peak in strength late this morning into early afternoon then will weaken through this evening. However, the winds will begin to increase yet again tonight and Tuesday morning. Relative humidity will drop into the single digits with little, or no, recovery tonight. Given the wind and moisture conditions, as well as the dry vegetation, CRITICAL FIRE WEATHER CONDITIONS will continue through the operational period.

The Santa Ana winds will continue through Tuesday afternoon with critical fire weather conditions continuing. There is a chance that Santa Ana winds could persist through Wednesday with CRITICAL FIRE WEATHER CONDITIONS continuing through Wednesday afternoon. For Thursday and Friday, the offshore flow will weaken with the potential for some weak onshore winds in the afternoon and evening hours.

WEATHER FORECAST:

WEATHER:

Mostly clear. Areas of smoke.

TEMPERATURES:

Max: 76-82.

Min: 50-60.

HUMIDITY:

Min: 4-10%. Max: 8-18%.

20 FT WINDS:

RIDGETOP ~

0700-1000: Northeast 20-30 MPH Gust 45 MPH. 1000-1400: Northeast 25-35 MPH Gust 55 MPH. 1400-2200: Northeast 20-30 MPH Gust 45 MPH. 2200-0700: Northeast 15-25 MPH Gust 40 MPH.

SLOPE/VALLEY -

0700-0900: North to northeast 15-25 MPH Gust 40 MPH. 0900-1400: North to northeast 25-35 MPH Gust 55 MPH. 1400-2200: North to northeast 20-30 MPH Gust 45 MPH. 2200-0400: North to northeast 15-25 MPH Gust 40 MPH. 0400-0700: North to northeast 20-30 MPH Gust 45 MPH.

EXTENDED FORECAST:

Tuesday:

Moderate to strong Santa Ana winds will continue across the area with gusts between 35 and 55 MPH with the strongest winds during the late morning and early afternoon hours. Relative humidity will remain very low with little, if any, overnight recovery. So, CRITICAL FIRE WEATHER CONDITIONS will

continue.

Wednesday/Thursday:

Santa Ana winds will gradually diminish through the period. However, dry conditions will persist with the chance of CRITICAL FIRE WEATHER

CONDITIONS continuing into Wednesday.

FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 3 TYPE OF FIRE: Wildland Fire

FIRE NAME: Woolsey OPERATIONAL PERIOD: 24hr 11/12 (0700-0700)

DATE ISSUED: 11/11 TIME ISSUED: 2100

UNIT: VNC SIGNED: //Troy Velin//

INPUTS

WEATHER SUMMARY

Red Flag Warning through 5:00 PM Tuesday

- Today's weather will be dominated by Santa Anna Winds (off shore flow)
 - See attached Incident Weather Forecast in IAP

OUTPUTS

FIRE BEHAVIOR

GENERAL:

Fuels in the area consist of cured annual and coastal grasses and coastal chaparral and sage. Rains in early October did not have a lasting effect and fuels are critically dry. The Topography is steep, broken and drainages are predominantly arranged in alignment with critical winds. Fire behavior in areas sheltered from the wind or decreases in off shore flow will transition rapidly to terrain runs. Long range spotting will continue to be a threat.

Forecasted Indices for Fire Area

Area	Fuels	DFM (10hr)	LFM	Bi	FL	ROS
LA Basin (N of Hwy 101)	Chaparral	3%	64%	87 (Critical is 105)	40+	7-14 m/hr
Santa Monica Mts (S of Hwy 101)	Chaparral	2%	65%	139 (Critical is 94)	40+	7-14 m/hr

SPECIFIC:

Branch I

Hot spots in the Hidden Hills area will continue to produce embers that will threaten the line. Hold over fires in structures should be monitored closely.

Branch III/IV

Structures within 1 mile of the perimeter are capable of producing spot fires outside containment lines. The area of the tunnel has the most potential for growth. Fire crossing Malibu Canyon near the tunnel will be sheltered from the wind, expect a slope run toward Puma rd before turning back and making a wind run to the coast.

Branch V

Significant structure loss in the area will continue to be a source of embers. There are numerous green islands within the branch. These areas should be monitored closely for hold over fires.

Branch VI

The fire has burned into the Springs fire scar. The 5-year-old regrowth has proven to be an option as a barrier to fire spread.

Branch VII

The fire south of Hidden Valley and Lake Sherwood will continue to back. Any slacking of the offshore flow will result in increased fire behavior and terrain runs. This will lead to lateral growth to the East and West.

Branch VIII/IV/X

I do not expect any growth in this branch. Continue to monitor for hold over fire within structures.

AIR OPERATIONS:

Except for smoke, skies will be clear. Heavy winds will impact air operations.

SAFETY

Classic Santa Anna conditions today. Continually evaluate Escape Routes and Safety Zones. House to house ignitions and long range spotting may leave unburned fuel between you and the main fire.

Piece

Woolsey/Hill Incident Safety Message

November 12, 2018



INCIDENT: Woolsey/Hill

DATE: 11-12-18

TIME: 0700-0700

MAJOR HAZARDS and RISKS: RED FLAG WARNING-EXTREME FIRE BEHAVIOR POTENTIAL-STEEP & ROCKY TERRAIN- BLOWING MATERIALS - WEAR ALL APPROPRIATE PPE – ALL the TIME – On the FIRELINE NO EXCEPTION!

FIRE ORDER of the DAY - Keep informed on fire weather conditions and forecasts.

This fire has demonstrated RAPID RATES OF SPREAD. Expect the same potential today!

Review Wildland Urban Interface Watchout Situations- IRPG

Identify Escape Routes and Safety Zones of adequate size. As your position changes ensure you identify new safety zones and escape routes.

Maintain awareness for rolling materials.

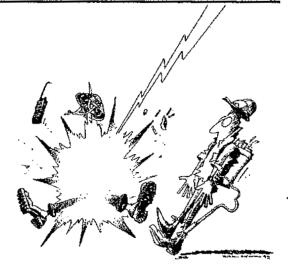
Confirm radio frequencies and that you know how to operate your radio. Develop back up procedures. Use assigned incident frequencies.

Provide for frequent rest breaks and adequate hydration. Monitor yourself and those around you for heat related illnesses. DON'T LET THE TEMPERATURE FOOL YOU!

Drive with caution at all times.

Utilize appropriate PPE for structure fires.

Watch Out Situation of the Day



4. UNFAMILIAR WITH WEATHER AND LOCAL FACTORS INFLUENCING FIRE BEHAVIOR

Escape Route/Safety Zone Checklist

Escape Routes:

- *More than one escape route
- *Scouted soils, vegetation, slope
- *Timed slowest person, fatigue, dozer speed
- *Marked flagged for day and night use

Safety Zone:

- *Survivable without a shelter
- *Natural clean burn, water, bare soil/rock
- *Manmade constructed sites, roads
- *Scouted for size and hazards
- *Close enough considering escape time needed

Remember and Follow:

- *The 10 Standard Fire Orders
- *The 18 Situations That Shout Watch Out
- *The Common Denominators of Fire Behavior on Tragedy Fires
- *The Downhill Line Construction Guidelines

Prepared By: Dan McNamara SOF1, Jeremy Lawson SOF1 (T), Richard Baligad SOFR

INCIDENT SAFETY ANALYSIS WOOLSEY/HILL FIRE

DIV	HAZARDS		MITIGATI	ONS				
All	Extreme Fire Behavior	LCES Risk Assessment	t IRPG					
All	Steep Terrain & Rolling Debris	 Don't work abo 	spacing when working we any personnel tel times to Safety Zo	-				
All	Fatigue Management	-	stfollow the 2:1 ation & nourishment,	work/rest guidelines take frequent breaks on fireline				
All	Communication	Review radio co	Review radio communication plan prior to committing resources					
All	Driving & Traffic	 Use spotters and honk horn when backing Always use headlights and seatbelts Use chock blocks, emergency brakes, and turn wheels in high bank Watch for wildlife on Hwy and at sunrise and sunset Expect the unexpected while driving 						
All	Structure Defense		Assessment" checklis	Watchouts, IRPG page 12 t, IRPG pages 13 – 17				
DOZER GROUP	Mechanized Equipment	_	0' or greater from do	operator, hand, radio, etc zer, depending on vegetation height				
All	Air Ops	 Communication Leave area for V ID Drop Areas 	s /LATS when needed					
A	Power Lines	 Mark areas with 	ver Lines Down as "LIVE" ith Caution Tape when possible h/Division of locations					
INCIDENT WOOLS	NAME EY/HILL FIRE	DATE & TIME PRE 11/11/2018 2	PARED 000	OPERATIONAL PERIOD 11/12/2018 0700-0700				

Prepared by Safety Officer: Dan McNamara SOF1, Jeremy Lawson SOF1 T, Richard Baligad SOFR

1. Incident Name:		2. Operation	il Perioa:			3.	- 1		
Woolsey		Date From:	11/12/18	Date To:	11/13/18		i		
		Time From:	0700	Time To:	0700	Branch;	- t		
4. Operations Personnel:						1			
OII OII Obi-f	Davis / (Cook (VNC) / Inm		Night Ops: Bl:	ankenheim /	Div/Group:	Α		
Operations Section Chief:			(LAC)	Branch Safety	e D. Cologue	i	Alpha		
Branch Director:				bianch salety	y. F. aelegue		Page 1 of 1		
Division/Group Supervisor:	W. Wart		Below in D	old are 12 Hou		Reporting Location	on, Special Equipment,		
5. Resources Assigned:		Lear		Personnel		Remarks, Notes, and Information			
Resource Identifier		Lead	361	Personner	Request#	0700-0700	DP 1-4		
STA LFD 1003A		E-215	0700-0700	DP 1-4					
STA LFD 1005A		CASTILLO, I		17					
STA LFD 1006A		CURRY, I		16	E-216	0700-0700	DP 1-4		
STA LFD 1008A		KELLY, TII		21	E-285	0700-0700	DP 1-4		
STA XCC 2025A		GOETSC		16	E-25	0700-0700	DP 1-4		
STC FKU 9431C		DOMINGU		15	E-99	0700-0700	DP 1-4		
STC CNF 6631C		TUCKER,	MICHAEL	27	E-311	0700-1900	DP 1-4		
STC				<u></u> _		0700-0700	DP 1-4		
STC						0700-0700	DP 1-4		
T/F - TASK FORCE 6110		SILVA,	ALEX	17	E-86	0700-0700	DP 1-4		
STG BDU 9355G		SILVA,	JEFF	33	C-36	0700-0700	DP 1-4		
STG LAC 1176G		HUN'	TER		C-17	0700-1900	DP 1-4		
CRW SLU Camarillo 21 (CCC									
W/T WMT 3081									
W/T PVT E-342 DOUBLE R	0700-0700	DP 1-4							
W/T PVT E-343 PVT DOUBL	ER	DUNN, VIEYRA		2	E-343	0700-0700	DP 1-4		
FALM						0700-1900	DP 1-4		
		···-							
6. Work Assignments:				*		<u> </u>			
Construct and improve direct	control li	ne as needed.							
Hold fire within current control									
Mop up 200' from the control									
7. Special instructions:				····					
						 			
8. Communications	Radio in	formation needed	for this assig	nment:	,				
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes		
VNC C8	1	COMMAND	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 4		
VFIRE 23	12	TACTICAL	154.2950N	156.7	154.2950N	156.7			
CDF T16	14	A/G TAC	159.2850	192.8	159.2850	192.8	AIR TO GROUND TAC		
CALCORD	15	MEDICAL	156,0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION		
AIR GUARD	16	EMERGENCY	168.6250N		168.6250N	110.9	EMERGENCY - TONE 1		
9. Prepared by: Name: Wood / McCarroll / Padilla Pos/Title: RESL Signature:									
ICS 204 Date/Time: 11/11/2018 2200 Personnel Count: 183									

1. Incident	Name:		2. Operation	nal Period:	# 		3.	
	Woolsey		Date From;	11/12/18	Date To:	11/13/18	Į	
			Time From:	0700	Time To:	0700	Branch:	į.
4. Operati	ions Personnel	:			i.			
!			/ Cook (VNC) / Inc		hight Ops: Bl	ankenheim /	Div/Group;	В
Operation			erman (VNC) / Hale	(LAC)	character (
	Branch Director				Branch Safet	y: P. Selegue		Bravo
		: J. Nie	derberger / E. Cec					Page 1 of 1
	es Assigned:	<u> </u>			dd are 12 Ho	ur **	Reporting Local Remarks, Notes	tion, Special Equipment, , and Information
Resource Id				ader	Personnel	Request#	Time	Location
STA LFD 10				VICHOLAS J	21	E-286	07.00-0700	DP 1-4
STA XLA 10				RO, JOHN	22	E-120	0700-0700	DP 1-4
STA LAC 1107A HARTER, KEITH S					21	E-117	0700-0700	DP 1-4
 -	STA LAC 1132A INFANTE, FRANK				21	E-75	0700-0700	DP 1-4
	STA LAC 1133A PADILLA, MIKE				21	E-72	0700-0700	DP 1-4
	TC XSL 1474C HARRIS, RANDY				20	E-62	0700-0700	DP 1-4
	STC ANF 1617C WHITE, RON						0700-1900	DP 1-4
STC							0700-0700	DP 1-4
STC							0700-0700	DP 1-4
STC							0700-0700	DP 1-4
STG LAC 1			HERN	ANDEZ		C-18	0700-1900	DP 1-4
STG LAC 1			VELAZ	ZQUEZ		C-16	0700-1900	DP 1-4
	CRW SQF 6 MEDINA, WALTER ALLEN					C-47	0700-1900	DP 1-4
	W/T PVT E-338 PVT FOOTHILL KELLY, TOM				2	E-338	0700-0700	DP 1-4
W/T PVT E-341 BYRNE, WESLEY				Ž.	E-341	0700-0700	DP 1-4	
	345 PVT GASS/	AWAY	GASSAW	AY, NORM	2	E-345	0700-0700	DP 1-4
FALM							0700-1900	DP 1-4
£ 1411- 0	1				# E.	<u> </u>		· · · · · · · · · · · · · · · · · · ·
6. Work Ass	_							
			line as needed.		¥ X			
	in current contro				ži E			
MOD UP 200	from the control	line,						
7. Special in	ritm rationar		····		<u> </u>			
r. Special in	istructions;							
					د. منشدر			
					ii.			
8. Communi	cations	Radio	information needed	for this assign	ment:			
Name		Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8		1	COMMAND	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 4
CDF T26		3	TACTICAL	159.2925N	192.8	159.2925N	192.8	
CDF T16		14	A/G TAC	159.2850	192.8	159.2850	192.8 -	AIR TO GROUND TAC
CALCORD		15	MEDICAL	156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD		16	EMERGENCY	168.6250N		168.6250N	110.9	EMERGENCY - TONE 1
		Wood	/ McCarroll /	· · · · · · · · · · · · · · · · · · ·			77	171
9. Prepared	by: Name:	Padilla		Pos/Title:	∯ESL		1 1/1	// /
	20.004					Signature:	ANTO	/ [/
ICS 204	Date/Time:	11/11/2	2018 2200	···		/	rsonnel Count:	
NINS IAP					i a	/60	NTROLLED UNCLA	SSIFIED INFORMATION/BASIC

1. Incident Name:		2. Operation:	al Period:			3.	
Woolsey		Date From:	11/12/18	Date To:	11/13/18		
		Tirne From:	0700	Time To:	0700	Branch:	141
4. Operations Personnel:			,				
		ook (VNC) / Inm	an (LAC)	Night Ops: Bl	ankenheim /	Div/Group:	С
Operations Section Chief:			(LAC)				
Branch Director:		·y (Τ)		Branch Safety	y: R, Diaz		Charlie
Division/Group Supervisor:	Owings	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					Page 1 of 1
5. Resources Assigned:	L	· · · · · · · · · · · · · · · · · · ·		old are 12 Ho	t 	Remarks, Notes,	
Resource Identifier		Lea		Personnel	Request #	Time 0700-0700	Location DP 3-4
STA LAC 1109A	STA LAC 1109A LOZANO, EDUARDO P 21 E-118						
STA LAC 1130A		MANCHA		22	E-122	0700-0700	DP 3-4
STA LAC 1131A		RAMIREZ,		21	E-74	0700-0700	DP 3-4
STA LAC 1135A		WELLS, E	RYAN E	21	E-76	0700-0700	DP 3-4
STF LAC 1144F		FLORES,	CARL N	16	E-80	0700-0700	DP 3-4
STG SLU 9342G		MUMFOR	D, DANE	33	C-4	0700-0700	DP 3-4
CRW LAC C-9		AN	E			0700-1900	DP 3-4
BEAR DIVIDE IHC	7-11	ANDERSO	N, BRIAN			0700-1900	DP 3-4
STL VNC 1592L	,,,_			1	E-218	0700-0700	DP 3-4
W/T PVT E-346 PVT GOLDE	N	MCCABE,	PATRICK	2	E-346	0700-0700	DP 3-4
FEMP WILCOX 0-217		WILCOX,		1	0-217	0700-0700	DP 3-4
FEMT CHILD 0-206		CHILD, R		1	O-206	0700-0700	DP 3-4
				1	1		
				 			
		1		1			
			184				
		_l			l		
6. Work Assignments:							
Construct and improve direct		as needed.					
Mop up 100' from the control	line.						
Backhaul trash.							
Maintain positive interaction v	vith the pul	olic and assist es	needed.				
7. Special Instructions:							
•							
0.00	Dest. 1.1		f				
8. Communications		rmation needed		T	r	<u> </u>	
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8	1	COMMAND	155.9850N		154.7250N	186.2	VENTURA CO CMD 4
CDF T27	4	TACTICAL	159.3075N		159,3075N	192.8	
CDF T16	14	A/G TAC	159.2850	192.8	159.2850	192.8	AIR TO GROUND TAC
CALCORD	15	MEDICAL	156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD		MERGENCY	168.6250N		168.6250N	110.9 /	EMERGENCY - TONE 1
0. Dwarana d b	Wood / Mi	cCarroll /	D C'''	OF CU			
9. Prepared by: Name:	Padilla		Pos/Title:	RESL		100/1	1 /.
100.004	4411				Signaturet	- Wy V	<u>/</u>
ICS 204 Date/Time:	11/11/201	8 2200			/	sonnel Count	
NIMS IAP					çó	NTROLLED UNCLAS	SSIFIED INFORMATION//BASIC

1. Incident Name:	l. Incident Name:			į.		3.	
Woolsey		Date From:	11/12/18	Date To:	11/13/18		
		Time From:	0700	Time To:	0700	Branch:	IV
4. Operations Personne	l:		•			7	
	Davis	/ Cook (VNC) / Inc	nan (LAC)	Hight Ops: Bl	ankenheim /	Div/Group:	F
Operations Section Chie			(LAC)			1	
Branch Directo				Branch Safety	y: T. Prins (T)		Foxtrot
Division/Group Superviso	r: M. Lip					<u> </u>	Page 1 of 1
5. Resources Assigned:		** Resource	s Below in B	did are 12 Ho	Jr **	Reporting Local	ion, Special Equipment, , and Information
Resource Identifier		Lea	ader	Personnel	Request #	Time	Location
STA LAC 1134A		BENNET	T, BRIAN	26	E-73	0700-0700	DP 3-4
STA XLG 1362A				di Ba		0700-0700	DP 3-4
STA XLF 1321A		UNDERW	OOD, JIM	22	E-145	0700-0700	DP 3-4
STA				Î		0700-0700	DP 3-4
STC XSJ 4184C	ARGANBRI	GHT, SCOTT	20	E-67	0700-0700	DP 3-4	
STG LAC 1171G	косн,	DANIEL	27	C-33	0700-1900	DP 3-4	
CRW LAC C-8		GA	RZA	2		0700-1900	DP 3-4
CRW LAC C-12			ISON			0700-1900	DP 3-4
DOZ PVT E-355 PVT ARIA	S EQUIF	ARIAS	LOUIE	2	E-355	0700-0700	DP 3-4
DOZ PVT E-357 PVT BILL		ANDERS	ON, REX	2	E-357	0700-0700	DP 3-4
W/T PVT E-151 PVT TYPE			BARTON	2	E-151	0700-0700	DP 3-4
W/T PVT E-225 PVT WATE	S, MATT	2	E-225	0700-0700	DP 3-4		
W/T PVT E-226 TGU WATE	/T PVT E-226 TGU WATERDOGG PALAZZO, ANTHONY				E-226	0700-0700	DP 3-4
FEMP JACKSON 0-213	EMP JACKSON 0-213 JACKSON, ZACH				0-213	0700-0700	DP 3-4
FEMT SMITH O-117	RANDON	į. 1	0-117	0700-0700	DP 3-4		
				É			
0.341 3.4				<u> </u>		<u> </u>	
6. Work Assignments:							
Construct and improve direct		line as needed.		- Agents			
Hold fire within current contr				ř			
Structure defense and perin				Constitution of the Consti			
Perform Tactical Patrol arou	nd struc	tures,					
7. Special Instructions:							
				7.4			
				Š.			
8. Communications	Radio	information needed	for this assig	l. Diment		· · · · · · · · · · · · · · · · · · ·	
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Mate
VNC C8	1	COMMAND	155,9850N	186.2	154.7250N	186.2	Notes
CDF T28	5	TACTICAL	151.1825N	192.8			VENTURA CO CMD 4
CDF T16	14	A/G TAC	159,2850	192.8	151.1825N 159.2850	192.8	
CALCORD	15	MEDICAL	156.0750N	156.7	156.0750N	192.8	AIR TO GROUND TAC
AIR GUARD	_			150.7		156.7	MEDICAL COORDINATION
					168.6250N	110.9	EMERGENCY - TONE 1
Wood / McCarroll / D. Prepared by: Name: Padilla Pos/Title:				RESL		\cap	$\lambda(V)$
•		Signature: Maria			$\frac{1}{2}$		
ICS 204 Date/Time	11/11/2	2018 2200		1		rsonnel Count:	107
NIMS IAP							SSIFIED INFORMATION//BASIC

1. Incident Name:		2. Operation	al Period:			3.	
Woolsey		Date From:	11/12/18	Date To:	11/13/18		
		Time From:	0700	Time To:	0700	Branch:	V
4. Operations Personnel:						1	
		cook (VNC) / Inm		Night Ops: Bi	ankenheim /	Div/Group:	J
Operations Section Chief:			(LAC)				
Branch Director:		rson					Juliet
Division/Group Supervisor:	J. Gray						Page 1 of 2
5. Resources Assigned:	1	** Resource:	s Below in B	loid are 12 Hou			on, Special Equipment, and Information
Resource Identifier	Request#	Time	Location				
STA XSB 1502A		ALDERETI		22	E-233	0700-0700	LAC FS 71
STA XLC 1206A		SUEN, (23	E-232	0700-0700	LAC FS 71
STA LAC 1103A		CABRERA	A, STEVE	21	E-116	0700-0700	LAC FS 71
STA LAC 1119A		GRANAD	OS, JOE	22	E-71	0700-0700	LAC FS 71
STC						0700-0700	LAC FS 71
STC						0700-0700	LAC FS 71
ENGINE T/F - XAL - 2014		PAPPA	S, TOM	17	E-2	0700-0700	LAC FS 71
STG LAC 1185G		PEREZ,	MARK C	33	C-34	0700-1900	LAC FS 71
CRW LAC C-2		GAY	LOR			0700-1900	LAC FS 71
CRW KRN CREW 10 GOLD	EN EMPI	RE YOUNG, P	ADDRICK	22	C-46	0700-1900	LAC FS 71
W/T MAM 3381		MONTAG	SNE, BO	2	E-152	0700-0700	LAC FS 71
W/T VVF OES 22		FAY, B	 ,	2	E-155	0700-0700	LAC FS 71
W/T PVT E-138			S, JOHN	2	E-138	0700-0700	LAC FS 71
W/T PVT E-147 TUU J & M		DUNCA	N, JACK	2	E-147	0700-0700	LAC FS 71
W/T PVT E-148 TUU GREG	HOLT	HOLT,		2	E-148	0700-0700	LAC FS 71
W/T PVT E-336 SLU JOHN I			N, MARK	2	E-336	0700-0700	LAC FS 71
W/T PVT E-337 SLU JOHN I	FIRE	HUBBAF		2	E-337	0700-0700	LAC FS 71
W/T PVT E-339 PVT 40 TRA	\FFIC	JONES, I		2	E-339	0700-0700	LAC FS 71
6. Work Assignments:			717		. , , , , , , , , , , , , , , , , , , ,		A ''
Construct and improve direct	t control lin	e as needed.					
Construct line around islands							
Mop up 200' from the control	line.						
Fall hazard trees and trees th		n control lines.					
7. Special Instructions:				17			-
	···_						
8. Communications	T	ormation needed	·		·····		
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8	1	COMMAND	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 4
CDF T29	6	TACTICAL.	151.3475N		151.3475N	192.8	
CDF T16	14	A/G TAC	159.2850	192.8	159.2850	192.8	AIR TO GROUND TAC
CALCORD	15	MEDICAL	156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD	16	EMERGENCY	168.6250N		168.6250N	110.9	EMERGENCY - TONE 1
D D		/cCarroll /	D		O(110)		
9. Prepared by: Name:	Padilla		Pos/Title;	RESL	- /	1 she	/k (
Signature: ()							
ICS 204 Date/Time:	11/11/20	18 2200			Pe	rsonnel Count	: 176
· · · · · · · · · · · · · · · · · · ·					.6.	A PERSONAL FOR THE SALES	CONTRACTOR DATE OF THE PARTY OF

1. Incident Na	me:		2. Operation	al Period:	le de la companya de		3.	:
	Woolsey		Date From:	11/12/18	Date To:	11/13/18		
			Time From:	0700	Time To:	0700	Branch:	V
4. Operation	s Personnel:						1	
			Cook (VNC) / Inm		ight Ops: Bl	ankenheim /	Div/Group:	J
Operations	Section Chief:	Spyke	rman (VNC) / Hale	(LAC)	range (ŀ	
1	anch Director.							Juliet
	up Supervisor:	J. Gray						Page 2 of 2
5. Resources		<u> </u>			dd are 12 Ho		Reporting Locati Remarks, Notes,	on, Speciał Equipment, and Information
Resource Iden	tifier		Lea	der	Personnel	Request#	Time	Location
FALM						• · · · · · · · · · · · · · · · · · · ·	0700-1900	LAC FS 71
FALM					80		0700-1900	LAC FS 71
FALM					iko i		0700-1900	LAC FS 71
SOFR FRY O-	SOFR FRY 0-164 FRY, CHRISTOPHER					O-164	0700-1900	LAC FS 71
					#6		ļ	
					80 80 80			
			-		<u>. </u>	<u> </u>	-	
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			-			**********	.	
6. Work Assig	nments:				<u></u>		l	
_	•	central	line as needed.					
Construct line	•							
Mop up 200' fre					W. Conde			
1 ' '			ten control lines.					
7. Special Inst					İ			
					-			
]								
							<u> </u>	
8. Communica	ations	Radio i	nformation needed		, S			
Name		Ch	Function		Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8		1	COMMAND	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 4
CDF T29		6	TACTICAL	151.3475N	192,8	151.3475N	192.8	
CDF T16		14	A/G TAC	159.2850	192.8	159.2850	192.8	AIR TO GROUND TAC
CALCORD		15	MEDICAL	156.0750N	156,7	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD		16	EMERGENCY	168.6250N	<u> </u>	168.6250N	110.9	EMERGENCY - TONE 1
© Prepared by	r Name:	Wood / Padilla	McCarroll /	Pos/Title:	DEG!			$\sim \sim 1$
or Liebalen fi	9. Prepared by: Name: Padilla Pos/Title:			RESL			U_{Λ}	
ICS 204 Date/Time: 11/11/2018 2200					Signature: 1000			1
NIMS TAP	Date/ Inne:	1 1/ 1 1/2	VIO 4400	•	<u> </u>	····	rsonnel Count	
					<u>k</u>	CO	MINULLED UNCLA	SSIFIED INFORMATION/BASIC

1. Incident Name:		2. Operationa	il Period:			3.	
Woolsey		Date From:	11/12/18	Date To:	11/13/18		
		Time From:	0700	Time To:	0700	Branch:	· v
4. Operations Personnel:							
,		Cook (VNC) / Inma		Night Ops: Bl	ankenheim /	Div/Group:	M
Operations Section Chief:	Spykern	nan (VNC) / Hale	(LAC)				
Branch Director:	M. Halve	erson					Mike
Division/Group Supervisor:	M. Lamo	-					Page 1 of 2
5. Resources Assigned:		** Resources	Below in B	old are 12 Ho	ur **	Reporting Location, Special Equipment, Remarks, Notes, and Information	
Resource Identifier	Request #	Time	Location				
STA LAC 1137A		MITCHISC	ON, RAY	21	E-78	0700-0700	LAC FS 71
STA LAC 1138A		COOKUS, S	TEPHEN L	21	E-79	0700-0700	LAC FS 71
STA LAC 1139A		BROOKHYS	ER, MITCH	21	E-289	0700-0700	LAC FS 71
STA OES WA ST 2		HICKEY	, ALEX	20	E-613	0700-0700	LAC FS 71
STC						0700-0700	LAC FS 71
STC						0700-0700	LAC FS 71
ENGINE T/F - ID - TF 1		GAMMEL,	TERRY	17	E-624	0700-0700	LAC FS 71
TASK FORCE - T/F - 71		ANDERSON	TORREY	21	E-530	0700-0700	LAC FS 71
STG						0700-0700	LAC FS 71
STG						0700-0700	LAC FS 71
W/T OCF WT66		CABRERA,	ANDREW	2	E-157	0700-0700	LAC FS 71
W/T MRA 209		ORME,	JOEL	2 +/-	E-133	0700-0700	LAC FS 71
W/T BGP 2313		CARRINGTO	N, DEREK	2	E-153	0700-0700	LAC FS 71
W/T PVT E-223 PVT TENDE	R,	NABORS,	DUANE	2	E-223	0700-0700	LAC FS 71
W/T PVT E-224 TGU CULP I	D	WOODS	, DON	2 +/-	E-224	0700-0700	LAC FS 71
W/T PVT E-334 PVT TYPE 2	· · · · · · · · · · · · · · · · · · ·	TROEDEL	, BRYAN	2	E-334	0700-0700	LAC FS 71
W/T PVT E-340 MVU BRENI	DA'S	CLEER,	DANA	2	E-340	0700-0700	LAC FS 71
W/T PVT E-344 SLU HAYNE	s	TAYLOR,		2	E-344	0700-0700	LAC FS 71
6. Work Assignments:		1,0		· · · · · · · · · · · · · · · · · · ·		·	
Mop up 200' from the control	line.						
Hold fire within current contro	al line.						
7. Special Instructions:							
9 Communications	Dadia !-	formation was de-d	for this spain	inmont:		 ,	
8. Communications Name	Ch	formation needed Function		Rx Tone	Tx Freq	Тх Топе	Notes
VNC C8	1		Rx Freq 155.9850N	186.2	154.7250N	186.2	
CDF T29	6	COMMAND		192.8	151.3475N	192.8	VENTURA CO CMD 4
CDF T16		TACTICAL	151.3475N		 		
CALCORD	14	A/G TAC MEDICAL	159.2850 156.0750N	192.8 156.7	159.2850 156.0750N	192.8 156.7	AIR TO GROUND TAC
AIR GUARD				130.7			MEDICAL COORDINATION
AIN GUANU	16 Nood /	EMERGENCY McCarroll /	168.6250N	<u> </u>	168.6250N	110.9	EMERGENCY - TONE 1
9. Prepared by: Name:	Padilla	MICCALLOII /	Pos/Title:	RESL			411
9. Prepared by: Name: Pagina Pos/Title: RESL Signature:						busto	d V d
ICS 204 Date/Time:	11/11/20	018 2200			~ —	rsonnel Count	137
HOMS IAP						/	SSIFIED INFORMATION//BASIC

1. Incident I	łame:		2. Operation	al Period:			3.		
İ	Woolsey		Date From:	11/12/18	Dale To:	11/13/18	İ		
			Time From:	0700	Time To:	0700	Branch:	V	
4. Operati	ons Personnel:						1	;	
			Cook (VNC) / Inm		ight Ops: Bl	ankenheim /	Div/Group:	M	
Operation	s Section Chief:	Spyker	man (VNC) / Hale	(LAC)					
	Branch Director:	M. Halv	rerson					Mike	
		M. Lam	ont / B Porrazzo (-				Page 2 of 2	
} 	s Assigned:	<u> </u>			old are 12 Ho	ur **	Reporting Location, Special Equipment, Remarks, Notes, and Information		
Resource Ide			Lea Lea		Personnel	Request#	Time Location		
	347 BDU L & L		LUCK,	GARY	2	E-347	0700-0700	LAC FS 71	
FALM							0700-1900	LAC FS 71	
FALM							0700-1900	LAC FS 71	
FALM						<u>.</u>	0700-1900	LAC FS 71	
SOFR NOR	MAN		NOR	MAN	1	!	0700-0700	LAC FS 71	
SOFR RUDO	DLF O-298		RUDOLF	, HANS	† †	O-298	0700-1900	LAC FS 71	
								· · · · · ·	
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			• •						
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					<u>[</u>				
					<u>.</u>				
****					<u> </u>		<u> </u>	:	
6. Work Ass	-								
	from the control				N Š				
Hold fire with	in current contro	i line.							
					čia g				
7. Special Ir	efactions,		·····		<u>€</u>		•		
, opedia ii	suucuona.				Ĺ				
					i.				
8. Commun	cations	Radio ir	nformation needed	for this assig	ment:				
Name		Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes	
VNC C8		1	COMMAND	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 4	
CDF T29		6	TACTICAL	151.3475N	192.8	151.3475N	192.8		
CDF T16		14	A/G TAC	159.2850	192.8	159.2850	192.8	AIR TO GROUND TAC	
CALCORD		15	MEDICAL	156,0750N	156.7	156.0750N	156 <u>.</u> 7	MEDICAL COORDINATION	
AIR GUARD		16	EMERGENCY	168.6250N		168.6250N	110.9	EMERGENCY - TONE 1	
			McCarroll /				_		
9. Prepared by: Name: Padilla Pos/Title:				RESL	a /	7 .//	A(1).		
					Signature:				
ICS 204 NIMS IAP	Date/Time;	11/11/2	018 2200		ķ.	£	rsonnel Count	 	
THE INT)	CO	ntrolled uncla	SSIFIED INFORMATION//BASIC	

CONTROLLED UNCLASSIFIED

		ASSI	GNMEN	T LIST (#	CS 204)		ORMATION//BASIC
1. Incident Name:		2. Operation	al Period:			3.	
Woolsey		Date From:	11/12/18	Date To:	11/13/18	İ	
		Time From:	0700	Time To:	0700	Branch:	VI
4. Operations Personnel:	· /					1	
•	Davis:	/ Cook (VNC) / Inm	an (LAC)	Night Ops: Bla	ankenhelm /	Div/Group:	N
Operations Section Chief:		, .	(LAC)			ŀ	
Branch Director:	A. Tur	ner					November
Division/Group Supervisor:	M, Jua	rez / A. Widling (T)				Page 1 of 2
5. Resources Assigned:	<u> </u>	** Resources	s Below in B	oid are 12 Ho	₽F **	Reporting Locat Remarks, Notes	tion, Special Equipment, s, and Information
Resource Identifier	ource Identifier Leader Personnel Request#						
STA LAC 1102A		D. ROBE	RTSON		E-21	0700-0700	Hwy 1 x Deer Creek
STA LAC 1136A		ANZAI, W	ESLEY Y	21	E-77	0700-0700	Hwy 1 x Deer Creek
STC LFD 1880C		DAMERON	, BRIAN L	22	E-214	0700-0700	Hwy 1 x Deer Creek
STC LPF 1654 C		PRICE, CH	ARLES A	26	E-316	0700-1900	Hwy 1 x Deer Creek
STC						0700-0700	Hwy 1 x Deer Creek
STC						0700-0700	Hwy 1 x Deer Creek
ENGINE T/F - WA - TF 1		нотснк	SS, ERIK	18	E-619	0700-0700	Hwy 1 x Deer Creek
ENGINE T/F - NM - TF-1		BRIAN	FOX	24	E-618	0700-0700	Hwy 1 x Deer Creek
T/F WOOLSEY #2		ROCHE	, BEN	14	E-9043	0700-1900	Hwy 1 x Deer Creek
TFLD ALLEY		ALLEY,	GREG	1		0700-1900	Hwy 1 x Deer Creek
ENG A5S 348GW		GIFFORD	, KEVIN	4	E-428	0700-1900	Hwy 1 x Deer Creek
ENG A3S 481GX		BARBER,	WILLIAM	3	E-429	0700-1900	Hwy 1 x Deer Creek
ENG A5S 020GP		JOHNSON	, DAVID L	4	E-433	0700-1900	Hwy 1 x Deer Creek
W/T LAC WT128		MING, E	BOBBY	2	E-16	0700-1900	Hwy 1 x Deer Creek
STG TCU 9446G		SEIDEL,	BRENT	33	C-30	0700-0700	Hwy 1 x Deer Creek
STG LAC 1182G		GARCIA	, RICK J	33 +/-	C-14	0700-0700	Hwy 1 x Deer Creek
CRW SBC 2		MANFRED	BRENTJ	17	C-3	0700-0700	Hwy 1 x Deer Creek
DOZ BDU 3540				1		0700-0700	Hwy 1 x Deer Creek
6. Work Assignments:							
Structure defense and perim	eter con	itrof					
Perform Tactical Patrol arour	ad struc	tures.					
Hold fire within current control	ol line.						
Maintain positive interaction	with the	public and assist as	s needed.				
7. Special Instructions: -							
		······································					
8. Communications		information needed		· · · · · · · · · · · · · · · · · · ·	····	<u> </u>	
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8	1	COMMAND	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 4
CDE TOO	7	TACTICAL	4E4 202EN	102.0	464 202581	102.9	

v. communications	reado información recede for ano asolgrafiera.							
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes	
VNC C8	1	COMMAND	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 4	
CDF T30	7	TACTICAL	151,3925N	192.8	151.3925N	192.8		
CDF T16	14	A/G TAC	159.2850	192.8	159.2850	192.8	AIR TO GROUND TAC	
CALCORD	15	MEDICAL	156.0750N	156.7	156,0750N	156.7	MEDICAL COORDINATION	
AIR GUARD	16	EMERGENCY	168.6250N		168.6250N	110.9	EMERGENCY - TONE 1	

Wood / McCarroll /
9. Prepared by: Name: Padilla

Pos/Title: RESL

Signature:_

ICS 204 Date/Time: 11/11/2018 2200

Personnel Count: 223

controlled unclassified information//basic

1, Incident Name:	2. Operation		,		3,		
Woolsey		Date From:	11/12/18	Date To:	11/13/18	1	
		Time From:	0700	Time To:	0700	Branch:	VI
4. Operations Personnel:						1	
		ok (VNC) / Inm		Night Ops: Bla	ankenheim /	Div/Group:	N
Operations Section Chief:	Spykerma	n (VNC) / Hale	(LAC)	**************************************			
Branch Director:	A. Turner						November
Division/Group Supervisor:	M, Juarez						Page 2 of 2
5. Resources Assigned:		** Resources	s Below in B	old are 12 Hot	12 Hour ** Reporting Location, Special Equipm Remarks, Notes, and Information		
Resource Identifier		Lea	der	Personnei	Request#	Teme	Location
DOZ ORC 2		MONTELEO	NE, RYAN J	2 +/-	E-129	0700-0700	Hwy 1 x Deer Creek
STL SBC 9322L		LINANE,	JESSE	4	E-24	0700-0700	Hwy 1 x Deer Creek
W/T VNC 40		BUCKLES	, STEVEN	2	E-284	0700-0700	Hwy 1 x Deer Creek
W/T KRN OES 51		KENNISON	, ANDREW	2	E-57	0700-0700	Hwy 1 x Deer Creek
W/T PVT E-56 REE OES WI	52	AGU	EDA	2	E-56	0700-0700	Hwy 1 x Deer Creek
W/T PVT E-49 PVT 1 WATE	R AND	THO	MAS	1	E-49	0700-0700	Hwy 1 x Deer Creek
W/T PVT E-52 PVT WEYRIC	ж	COON, S	STEVEN	2	E-52	0700-0700	Hwy 1 x Deer Creek
W/T PVT E-54 PVT FIRELIN	ESE	HU	RL	2	E-54	0700-0700	Hwy 1 x Deer Creek
W/T PVT E-230 PVT GERAL	.D WA	BRYANT	, JERRY	1	E-230	0700-0700	Hwy 1 x Deer Creek
W/T PVT E-231 LITTLE BIG	MAN	STROTH	ER, TOM	1	E-231	0700-1900	Hwy 1 x Deer Creek
FEMP LOPEZ 0-212		LOPEZ,	RYAN J	1	O-212	0700-0700	Hwy 1 x Deer Creek
FEMT DOLER O-207	207 DOLER, DEREK				O-207	0700-0700	Hwy 1 x Deer Creek
SOFR LUCAS						0700-0700	Hwy 1 x Deer Creek
SOFR MARTIN 0-299	MATTHEW	1	O-299	0700-1900	Hwy 1 x Deer Creek		
	···			Ī:			
		<u> </u>					
						l	
6. Work Assignments:				E.			
Structure defense and perime				<u> </u>			
Perform Tactical Patrol erour		•). V			
Hold fire within current control							
Maintain positive interaction	with the publ	ic and assist as	s needed.	7		 	
7. Special Instructions:							
8. Communications	Radio infor	mation needed	for this assig	iment			
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8		OMMAND	155,9850N	186.2	154,7250N	186,2	VENTURA CO CMD 4
CDF T30	 	FACTICAL	151.3925N	192.8	151.3925N	192.8	PERFORM CO CMD4
CDF T16	14	A/G TAC	159,2850	192.8	159,2850	192.8	AIR TO GROUND TAC
CALCORD	 	MEDICAL	156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD		/ERGENCY	168.6250N	100.7	168.6250N	110.9	
, m s coor reser	Wood / McG		.00.0200N		100.02.0014	1 110.0	EMERGENCY-TONE 1
9. Prepared by: Name: Padilla			Pos/Title:	RESL		7 /)	1//N
TOTAL TOTAL					Signature:	211/2	ALL.
ICS 204 Date/Time:	11/11/2018	2200			-	rsonnel Count:	23
NIMS LAP				ì			SSIFIED INFORMATION//BASIC

1. Incident Name:		2. Operation:	al Period:			3.	'
Woolsey		Date From:	11/12/18	Date To:	11/13/18	1	
-		Time From:	0700	Time To:	0700	Branch:	VI
4. Operations Personnel:						7	
-		ook (VNC) / Inm		Night Ops: Bi	ankenheim /	Div/Group:	P
Operations Section Chief:	Spykern	an (VNC) / Hale	(LAC)				
Branch Director:	A. Turne	r				•	Рара
Division/Group Supervisor:	P. Byde					<u> </u>	Page 1 of 2
5. Resources Assigned:		** Resources	Below in B	old are 12 Ho	ur **	Reporting Location Remarks, Notes,	on, Special Equipment, and Information
Resource Identifier		Lea	der	Personnel	Request #	Time	Location
STA OES ST5		MCDANIE	L, DAVID	22	E-614	0700-0700	DP 7-2
STC XTB 4238C		MEANS,	SCOTT	16	E-69	0700-0700	DP 7-2
STC						0700-0700	DP 7-2
STC						0700-0700	DP 7-2
STF LAC 1145F							DP 7-2
T/F WOOLSEY #3		SOULI	E, TIM	21	E-9046	0700-1900	DP 7-2
TFLD NESSA				1		0700-1900	DP 7-2
ENG A4S 332HF		CARLOT	r, CHRIS	4	E-440	0700-1900	DP 7-2
ENG A3S 285DG		KINGSLEY	<u> </u>	3	E-441	0700-1900	DP 7-2
ENG A3S 615CS		COLLING	<u> </u>	3	E-442	0700-1900	DP 7-2
ENG A2S 432FG		CHAVEZ, C		3	E-443	0700-1900	DP 7-2
ENG A5S 605HX		RODRIGUE		3	E-444	0700-1900	DP 7-2
ENG A3S 275GX		DDLETON, K			E-445	0700-1900	DP 7-2
CRW VNC C11	·			16 +/-	C-1	0700-1900	DP 7-2
CRW VNC C12						0700-1900	DP 7-2
CRW SBC 1		···					DP 7-2
STG				 		0700-0700	DP 7-2
1010		 			 	10.00 0.00	
6. Work Assignments;			· · · · · ·			 ,	
Hold fire within current control	l line						
Structure defense and perime		ot					
Construct and improve direct							
Maintain positive interaction			s needed				
7. Special Instructions:		- Laborat a	5 116 G G G G G G				-
1							
8. Communications	Radio in	formation needed	for this assig	nment:			
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8	1	COMMAND	155,9850N	186.2	154.7250N	186.2	VENTURA CO CMD 4
CDF T30	7	TACTICAL.	151.3925N	192.8	151.3925N	192.8	````
CDF T16	14	A/G TAC	159.2850	192.8	159,2850	192.8	AIR TO GROUND TAC
CALCORD .	15	MEDICAL	156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD	16	EMERGENCY	168.6250N	1	168.6250N	110.9	EMERGENCY - TONE 1
·····		AcCarroll /			-1- <u> </u>		
9. Prepared by: Name:	Padilla		Pos/Title:	RESL		フー/ノ	-(()
					Signaturez	1-10	aul
ICS 204 Date/Time:	11/11/20	18 2200			P/C	ersonnet dount	96
RIMS LAP					/cc	ONTROLLED UNCLA	SSIFIED INFORMATION/BASIC

ASSIGNMENT LIST (ICS 204) CONTROLLED UNCLASSIFIED INFORMATION//BASIC

1. Incident Name:		2. Operation	al Period:			3.	
Woolsey		Date From;	11/12/18	Date To:	11/13/18	•	
		Time From:	0700	Time To:	0700	Branch:	VI
4. Operations Personnel:							
		cook (VNC) / Inπ		ight Ops: 81	ankenheim /	Div/Group:	Р
Operations Section Chief:			(LAC)	§ 6.			
Branch Director:				18 18 18 18			Papa
Division/Group Supervisor:	P. Byde	· · · · · · · · · · · · · · · · · · ·					Page 2 of 2
5. Resources Assigned:	<u> </u>			ld are 12 Ho	µr **	Reporting Location Remarks, Notes,	on, Special Equipment, and Information
Resource Identifier		Lea	·	Personnel	Request #	Time	Location
STL RRU 9318L		BENNETT, A		5	E-386	0700-0700	DP 7-2
DOZ PVT E-363 PVT BOHN				2	E-363	0700-0700	DP 7-2
DOZ PVT E-369 PVT SIERF	A GEN	HAUBER		2	E-369	0700-0700	DP 7-2
W/T CMB 57		CASTELLANO			E-134	0700-0700	DP 7-2
W/T PVT E-64 OES OES W	T11	CASILLI, J		2	E-64	0700-0700	DP 7-2
SOF2 PLYMALE O-96		PLYMALE,		1	O-96	0700-0700	DP 7-2
FEMP JORDAN 0-326		ORDAN, SHA		1	O-326	0700-0700	DP 7-2
FEMT AMES 0-327		AMES, ANDR	EW OLIVER	1	O-327	0700-0700	DP 7-2
		<u> </u>		:			
		+ · · ·		<u> </u>			
		-					
					······································		
							
6. Work Assignments:				<u>.</u>			
Hold fire within current control							
Structure defense and perim				¥.			
Construct and improve direct							
Maintain positive interaction	with the p	iblic and assist a	needed.	<u>[</u>		 	
7. Special Instructions:				· -			
8. Communications	Radio int	ormation needed	for this assign	ment	·		
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8	1	COMMAND	155.9850N	186.2	154.7250N	186,2	VENTURA CO CMD 4
CDF T30 7 TACTICAL 151.392				192.8	151.3925N	192,8	TEMPORAL OFFICE
			159.2850	192.8	159.2850	192.8	AIR TO GROUND TAC
			156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD 16 EMERGENCY 168.6250					168.6250N	110.9	EMERGENCY - TONE 1
Wood / McCarroll /						, ,	- 1
9. Prepared by: Name:	Padilla		Pos/Tille:	RESL		7 1	(Y).
				ŀ	Signature:	2 Mills	
ICS 204 Date/Time:	11/11/20	18 2200			Pei	sonnel Count:	16
NIMS IAP					COI	TROLLED UNCLA	SSIFIED INFORMATION/BASIC

CONTROLLED UNCLASSIFIED INFORMATION/BASIC

1. Incident Name:		2. Operation	al Period:			3.	
Woolsey		Date From:	11/12/18	Date To:	11/13/18	1	
		Time From:	0700	Time To:	0700	Branch:	VII/VIII
4. Operations Personnel:		*				1	
	Davis / Co	ok (VNC) / lnn		Night Ops: Bl	ankenheim /	Div/Group:	Q
Operations Section Chief:	Spykerma	n (VNC) / Hale	(LAC)				
Branch Director:	C. Bogan						Quebec
Division/Group Supervisor:	S. Gast						Page 1 of 1
5. Resources Assigned:		** Resource	s Below in Bo	old are 12 Ho	ur **	Reporting Locati Remarks, Notes	on, Special Equipment, , and information
Resource Identifier		Lea	der	Personnel	Request #	Time	Location
STA LAC 1120A		ESPY, TI	T NOVAS	21	E-119	0700-0700	DP 7-6
STA LAC 1140A		SPREWEL	L, ROLAND	22	E-290	0700-0700	DP 7-6
STA XOR 1421A		WIGG,	CHRIS	22	E-16	0700-0700	DP 7-6
STC XMR 2140C		MCCARTH	Y, GERALD	22	E-61	0700-0700	DP 7-6
STC CNF 6632C		COX, S	EAN J	12	E-312	0700-1900	DP 7-6
STG MVU 9337G		COULTRESS	JR, CARL J	33	C-12	0700-0700	DP 7-6
CRW STF 28		STEFL,	JERROD	20	C-48	0700-1900	DP 7-6
		_				<u> </u>	_ <u></u>
· · · · · · · · · · · · · · · · · · ·		-			 	<u></u>	
		<u> </u>			[····
						~ 	
·		 		<u> </u>		 	
			· ··				
6. Work Assignments:							
Hold fire within current contro	ol line.						
Mop up 100', Cut and improv	e line where	e needed,					
Perform Tactical Patrol arous	nd structures	S.					
Maintain positive interaction	with the pub	lic and assist a	s needed.				
7. Special Instructions:							7
ļ							
	5-0-4						
8. Communications	1	mation needed			T	1	1
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8	 }	COMMAND	155.9850N	186.2	154.7250N	186,2	VENTURA CO CMD 4
CDF T31	1	TACTICAL	159.3825N	192.8	159.3825N	192,8	<u> </u>
CDF T16	14	A/G TAC	159,2850	192.8	159.2850	192.8	AIR TO GROUND TAC
CALCORD	15	MEDICAL	156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD		MERGENCY	168.6250N		168,6250N	110.9	EMERGENCY - TONE 1
9. Prepared by: Name;	Wood / Mo Padiila	Carroll /	Pos/Title:	RESL	/	7 1	. 10
o., repared by, marrie,	i adina		, os me.	KEOL	Signatura	1,00/4	100
ICS 204 Date/Time:	11/11/2018	3 2200			Signature:	oroonnel Count	152
NIMS IAP	111111111111111111111111111111111111111	. 2200				ersonnel Count	: 152

19

ASSIGNMENT LIST (ICS 204) CONTROLLED UNCLASSIFIED INFORMATION//BASIC

				<u> </u>	100 204)	IN.F	ORMATION/BASIC
1. Incident Name:		2. Operatio				3.	
Woolsey		Date From:	11/12/18	Date To:	11/13/18		
		Time From:	0700	Time To:	0700	Branch:	VII/VIII
4. Operations Personnel	l:					7	
Operations Section Chief	Davis f: Spyk	s / Cook (VNC) / Inc erman (VNC) / Hale	man (LAC) e (LAC)	light Ops: B	Blankenheim /	Div/Group:	S
Branch Director		•					Sierra
Division/Group Supervisor	: C. Ta						Page 1 of 2
5. Resources Assigned:	<u> </u>	** Resource	es Below in B	old are 12 Ho	our**		tion, Special Equipment, s, and Information
Resource Identifier		Le	ader	Personnel	Request #	Time	Location
STA XSD 6431A		MORA, SER	GIO MANUEL	17	E-44	0700-0700	DP 7-6
STA OES 1860A				: Hy		0700-0700	DP 7-6
STC SLU 9341C		RYAN	, JESSE	16	E-37	0700-0700	DP 7-6
STC						0700-0700	DP 7-6
STE OES WA ST 1		BSON, ANT	HONY (STEN	22	E-616	0700-0700	DP 7-6
ENGINE T/F - WA - TF 6		DRAKE,	NATHAN	22	E-617	0700-0700	DP 7-6
T/F WOOLSEY #1		PICAZO,	ROBERTO	13	E-9041	0700-1900	DP 7-6
ENG A2S 447FG		ROVA, MA	RCUM JR H	3	E-391	0700-1900	DP 7-6
ENG A5S 507DN		LEFLET,	WILLIAM H	3	E-432	0700-1900	DP 7-6
ENG A3S 361		WEVERK	A, TODD S	3	E-450	0700-1900	DP 7-6
ENG A3S 109DW			BRENNAN	3	E-509	0700-1900	DP 7-6
W/T PAS WT37		·····	, GARY	2	E-62	0700-1900	DP 7-6
T/F WOOLSEY #4			TTHEW A	22	E-9044	0700-1900	DP 7-6
ENG A3S 396GL			HUCK W	4	E-446	0700-1900	DP 7-6
ENG A4S 795HV			ETTO, AL J	4	E-447	0700-1900	DP 7-6
ENG A2S 165JC			V, JERRY	4	E-448	0700-1900	DP 7-6
ENG A2S 254FP	•		ELTON BRIA		E-449	0700-1900	DP 7-6
ENG A1S 461FN			PHILLIP D	3	E-451	0700-1900	DP 7-6
ENG A1S 213BT			MARK	3	E-508	0700-1900	DP 7-6
6. Work Assignments:		357 (1)		<u> </u>	2-300	14100-1900	UF 1-0
Hold fire within current contri	ol line.			Vivida B			
Perform Tactical Patrol arous		dures.		ě ř			
Mop up 100' in from control l							
Maintain positive interaction		nublic and seriet a	habaan s	V-			
7. Special Instructions:	771UF UIC	panie and assist a	o recueu.	ţ.		· •-	
r. opcolar matractions.							•
8. Communications	Radio	information needed	for this assign	ment;			
Name	Ch	Function	Rx Freg	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8	1	COMMAND	155.9850N	186.2	154,7250N	186.2	VENTURA CO CMD 4
CDF T31	8	TACTICAL	159.3825N	192.8	159.3825N	192.8	FERTORIA CO CMD 4
CDF T16	14	A/G TAC	159.2850	192.8	159.2850	192.8	AID TO CHOICE TAG
CALCORD	15	MEDICAL	156.0750N	156.7	156.0750N	156.7	AIR TO GROUND TAC
AIR GUARD	16	EMERGENCY	168.6250N	1.55.,	168.6250N	110.9	MEDICAL COORDINATION
9. Prepared by: Name:	<u> </u>	/ McCarroll /	<u>'</u>	RESL	Signature	720	EMERGENCY - TONE 1
CS 204 Date/Time:		1	-	connolla	\		
VIMS IAP	1 17 1 474	20.0 2200		<u> </u>		rsonnel ¹ Count	
				E G	Co	NIROLLED UNCLA	SSIFIED INFORMATION/BASIC

CONTROLLED UNCLASSIFIED INFORMATION//BASIC

1. Incident Name:		2. Operationa	l Period:			3.	
Woolsey		Date From:	11/12/18	Date To:	11/13/18		
Housey		Time From:	0700	Time To:	0700	Branch:	VILVVIR
4. Operations Personnel:		Talle Liote:	0100	11110 10.	0,00		
4. Operations Personnel: Operations Section Chief:		ook (VNC) / inm an (VNC) / Hale		Night Ops: Bid	ankenheim /	Div/Group:	S
Branch Director:	C. Bogan	1					Sierra
Division/Group Supervisor:	C. Tate /						Page 2 of 2
5. Resources Assigned:		** Resources	Below in B	old are 12 Hou		Reporting Location Remarks, Notes,	on, Special Equipment, and Information
Resource Identifier		Lead		Personnel	Request #	Time	Location
STG LAC 1181G		RILEY, B	RIAN J	33 +/-	C-13	0700-1900	DP 7-6
STG						0700-0700	DP 7-6
STG						0700-0700	DP 7-6
W/T XFR #14		GARCIA,	CHRIS	<u> </u>		0700-0700	DP 7-6
W/T PVT OES 62		DUNCAN	SCOTT	2	E-58	0700-0700	DP 7-6
							
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<u></u>		_				 	
<u> </u>				 -		 	
	 -			-			
						<u> </u>	
							M-1
		<u></u>		1	l	_l	·
6. Work Assignments:							
Hold fire within current contro							
Perform Tactical Patrol aroun		es.					
Mop up 100' from the control							
Maintain positive interaction v	with the pu	iblic and assist as	needed.				
7. Special Instructions:							
8. Communications	Radio info	ormation needed	for this assi	anment:			
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8	1	COMMAND	155.9850N	· 	154.7250N	186.2	VENTURA CO CMD 4
CDF T31	8	TACTICAL	159.3825N		159.3825N	192.8	
CDF T16	14	A/G TAC	159.2850	192.8	159.2850	192.8	AIR TO GROUND TAC
CALCORD	15	MEDICAL	156,0750N	· }	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD		EMERGENCY	168.6250N		168.6250N	110.9	EMERGENCY - TONE 1
		tcCarrol! /	.00.02001		100.020011	1 110.0	T-MENDENOT - TORE I
9. Prepared by: Name:	Padilia	ioodiroi ;	Pos/Title:	RESL	Signature:	Dent	20 d
ICS 204 Date/Time:	11/11/20	18 2200				ersonnel Count	: 35
NEMS IAP			W 11.075				SSIFIED INFORMATION/BASIC

21

1. Incident Name:		2. Operation	al Period:			3.	
Woolsey		Date From:	11/12/18	Date To:	11/13/18		
		Time From:	0700	Time To:	0700	Branch:	VIVVIII
4. Operations Personnel:						7	
Operations Section Chief:		ook (VNC) / inn an (VNC) / Hale		ight Ops: Bl	ankenheim /	Div/Group:	T
Branch Director:	C. Bogan						Tango
Division/Group Supervisor:	J. Tieso					1	Page 1 of 1
5. Resources Assigned:		** Resource	s Below in Bo	ld are 12 Ho	ur **	Reporting Locati Remarks, Notes	on, Special Equipment,
Resource Identifier		Les	der	Personnel	Request#	Time	, and information Location
STA LAC 1111A		HERNANDE	Z, STEVEN A	21	£-70	0700-0700	VNC FS 31
STC				es est		0700-0700	VNC FS 31
T/F WOOLSEY #5		PETERMAN	, FORREST	18	E-9045	0700-1900	VNC FS 31
ENG A2S 893CP		ALLEN	WADE	3	E-435	0700-1900	VNC FS 31
ENG A1S 760GP		BROWN	ERIC B	4	E-436	0700-1900	VNC FS 31
ENG A4S 727EP		JOHNSTO	, KEVIN H	3	E-437	0700-1900	VNC FS 31
ENG A3S 368HF		VERDUGO), OSCAR	4	E-438	0700-1900	VNC FS 31
ENG A3S 874FH		BERNAL	, CHRIS	3	E-439	0700-1900	VNC FS 31
STG					ĺ	0700-0700	VNC FS 31
STG				a disconsistency of the control of t		0700-0700	VNC FS 31
STG				asáta:		0700-0700	VNC FS 31
						ļ	
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<u></u>		<u> </u>		\$ 5:			
						1	
6. Work Assignments:		•			<u> </u>	•	·
Hold fire within current control	ol line.			\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
Mop up 200' from the contro!	line.			Ž.			
Fall hazard trees and trees th		control lines.		Ś B			
7. Special Instructions:							
				Š.			
8. Communications	Radio lete	rmation needed	for this assist	t mant:			
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8	1	COMMAND	155.9850N	186.2	154.7250N	186.2	
CDF T32	9	TACTICAL	151,2425N	192.8	151.2425N	192.8	VENTURA CO CMD 4
CDF T16	14	A/G TAC	159.2850	192.8	159.2850	192.8	AND TO COOLING TAG
CALCORD	15	MEDICAL	156.0750N	156.7	156.0750N	156,7	AIR TO GROUND TAC
AIR GUARD	 	MERGENCY	168.6250N	100.7	168.6250N	110.9	MEDICAL COORDINATION EMERGENCY - TONE 1
		.00.020011		100.020014	1	EWERGENGT - TUNE 3	
9. Prepared by: Name:	Wood / McCarroll / Prepared by: Name: Padilla Pos/Title				/	7 /	2c/N
				tle: RESL Signature:			X1/4
ICS 204 Date/Time:	11/1 1/201	9 2200		L		rsonnel Count:	56
NIMS IAP				F			

1. Incident Name:		2. Operation	al Period:			3.	
Woolsey		Date From:	11/12/18	Date To:	11/13/18	,	
		Time From:	0700	Time To:	0700	Branch:	IX/X
4. Operations Personnel:	. ,_,_					1	
-	Davis / Co	ok (VNC) / inm	an (LAC)	Night Ops: Bl	ankenheim f	Div/Group:	V
Operations Section Chief:	Spykerma	n (VNC) / Hale	(LAC)			į	
Branch Director:	R. Lucas					1	Victor
Division/Group Supervisor:	B. Myers					<u> </u>	Page 1 of 1
5. Resources Assigned:		** Resources	s Below In B	old are 12 Ho	ur **	Reporting Locati Remarks, Notes,	on, Special Equipment, and information
Resource Identifier		Lea	đer	Personnel	Request #	Time	Location
STA OES6 6840A		FRY, JOHN	MURRAY	21	E-27	0700-0700	DP 10-06
STC						0700-0700	DP 10-06
STG						0700-0700	DP 10-06
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		<u> </u>			<u> </u>	 	
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			··· <u>-</u>	 		1	
		-	, , , , , , , , , , , , , , , , , , , ,				
						1	
6. Work Assignments:							
Hold fire within current contro	l line.						
Mop up 200' from the control	line.						
				- <u></u>			
7. Special Instructions:							
8. Communications	Dadia info		for this cosis				· · · · · · · · · · · · · · · · · · ·
Name		mation needed			7.5	T. T.	T
	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC CB		COMMAND	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 4
CDF T34		TACTICAL	151.4675N	192.8	151.4675N	192.8	
CDF T16	14	A/G TAC	159.2850	192.8	159.2850	192,8	AIR TO GROUND TAC
CALCORD	15	MEDICAL	156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD		MERGENCY	168.6250N	<u> </u>	168.6250N	110.9	EMERGENCY - TONE 1
9. Prepared by: Name:	Wood / Mc	Carroli /	PoolT#les	DCCI		-,	\sim
a. rrepareu dy: Name:	Padilla		Pos/Title:	RESL	Cinnat	1.1.	26/1/2
IDE 204	444440040	8000			Signature:		
ICS 204 Date/Time:	37/17/2018	2200	·		······································	rsonnel Count	SSIFIED INFORMATION//BASIC

1. Incident Name:		2. Operation	al Period:			3.	
Woolsey		Date From:	11/12/18	Date To:	11/13/18	:	
		Time From:	0700	Time To:	0700	Branch:	1X/X
4. Operations Personnel:		. !				1	
Operations Section Chief:	Davis / Co Spykerma	ook (VNC) / Inn in (VNC) / Hale	nan (LAC) (LAC)	Night Ops: Bl	ankenheim /	Div/Group:	x
Branch Director:			•	#N/A			X-ray
Division/Group Supervisor:	S. Turner			1			Page 1 of 1
5. Resources Assigned:		** Resource	s Below In B	old are 12 Ho	ur **	Reporting Locat	ion, Special Equipment,
Resource Identifier	·h	1	der	Personnel	Request#	Remarks, Notes	, and Information Location
STC						0700-0700	DP 10-06
STE OES WA ST2		BORTNE	R, JEFF	21	E-615	0700-0700	DP 19-06
STG	•					0700-0700	DP 10-06
STG		1				0700-0700	DP 10-06
W/T BSH 14		JANNEY	, JAMES	2	E-156	0700-0700	DP 10-06
W/T SWF 3982		SHIFFMAI	N, ELDON	2	E-154	0700-0700	DP 10-06
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=		+	•			 	
		·					
6. Work Assignments:			:				
Hold fire within current control	ol line.						
Mop up 200' from the control	line.						
7.0							
7. Special Instructions:			:				
8. Communications	Radio infor	mation needed	for this assic	hment:			
Name	Ch	Function		E	Tx Freq	Tx Tone	Notes
VNC C8		COMMAND	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 4
CDF T35		TACTICAL	159.3225N	192,8	159.3225N	192.8	- Linds or one 4
CDF T16	14	A/G TAC	159.2850	192.8	159.2850	192.8	AIR TO GROUND TAC
CALCORD	15	MEDICAL	156,0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD	16 EI	MERGENCY	168.6250N		168.6250N	110.9	EMERGENCY - TONE 1
	Wood / Mc			'			2 ~~
9. Prepared by: Name:						1 0	(())
					itle: RESL Signature:		
ICS 204 Date/Time:	11/11/2018	2200			Pe	rsonnel Count:	25
HIMS IAP			<u>-</u>	į.	co	NTROLLED UNCLA	SSIFIED INFORMATION/BABIC

1. Incident Name:	2. Operation	al Period:			3.	
Woolsey	Date From:	11/12/18	Date To:	11/13/18		
	Time From:	0700	Time To:	0700	Branch:	
4. Operations Personnel:]	
	s / Cook (VNC) / Imm	an (LAC)	Night Ops: Bl	ankenheim /	Staging	Freedom
Operations Section Chief: Spyl	terman (VNC) / Hale	(LAC)				
Branch Director:						
Division/Group Supervisor: J. Da					1	Page 1 of 1
5. Resources Assigned:	** Resource:	s Below in E	old are 12 Ho	ur **	Reporting Locat Remarks, Notes	ол, Special Equipment, , and information
Resource Identifier	Lea	der	Personnel	Request #	Time	Location
DOZ PVT HALEY E-124	HALEY,	BRYAN	1	E-124	0700-1900	ICP
DOZ PVT E-361 SLU WILBER	EMERY,	ALTON	1 1	E-361	0700-1900	ICP
DOZ PVT E-364 PVT RESTAD	RESTAD	BRUCE	1 1	E-364	0700-1900	ICP
DOZ PVT E-371 PVT ERIC	KRISMAN	I, TYLER	1	E-371	0700-1900	ICP
DOZ PVT E-380 PVT CHRISTIAN	& CHRISTIA	N, BRAD	1	E-380	0700-1900	ICP
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6. Work Assignments:	× 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Monitor command frequencies.						
Maintain 3 minute response time.						
7. Special Instructions:						
*All Resources in Staging are a 12	Hour Resource					
						
	o information needed	······································				
Name Ch	 	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8 1	COMMAND	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 4
<u> </u>	<u> </u>		<u> </u>			
CDF T16 14	A/G TAC	159.2850	192.8	159.2850	192.8	AIR TO GROUND TAC
CALCORD 15	MEDICAL	156,0750N	156.7	156.0750N	156,7	MEDICAL COORDINATION
AIR GUARD 16	EMERGENCY	168.6250N		168.6250N	110.9	EMERGENCY - TONE 1
	d / McCarroll /					
9. Prepared by: Name: Padi	lla	Pos/Title:	RESL		7. /A	(1)
				Signature:	My co	
ICS 204 Date/Time: 11/1	1/2018 2200			<i></i>	ersonnel Count	: 5

1. Incl	dent Name:		2. Date/Time Prepared		3. Operatio	nal Parlad:		INFORMATION//BASIC
,.	Woolse	v	· ·	11/11/2018	Date From:		Date To:	11/13/18
	incident Cha	•	Time:		Time From:		Time To:	0700
4. Cor	nmunications		Time.	1930	Tillie From.	0700		0700
	Function	Name	Assigned To	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
1	COMMAND	VNC C8	ALL DIVS	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 4
2	COMMAND	LAC V4		152,5700N	151.4	157.8300N	151.4	LA CO V4
3	TACTICAL	CDF T26	DIV B	159.2925N	192.8	159,2925N	192.8	
4	TACTICAL	CDF T27	DIV C	159.3075N	192.8	159.3075N	192.8	
5	TACTICAL	CDF T28	DIVF	151.1825N	192.8	151.1825N	192.8	
8	TACTICAL	CDF T29	DIV J/M	151.3475N	192.8	151.3475N	192.8	
7	TACTICAL	CDF T30	DIV N/P	151.3925N	192.8	151.3925N	192.8	
8	TACTICAL	CDF T31	DIV Q/S	159.3825N	192.8	159.3825N	192,8	
9	TACTICAL	CDF T32	DÍV T	151.2425N	192.8	151.2425N	192.8	
10	TACTICAL	CDF 134	DIAA	151.4675N	192.8	151,4675N	192.8	कारणी स्थापनी क्षा कर करते हैं। या स्थापनी स्थापनी क्षा कर कारणी का स्थापनी की कारण कर कर कर कर की स्थापनी की प्राप्त की स्थापनी की स्थापनी की स्थापनी की स्थापनी की स्थापनी की स्थापनी की स्थापनी की स्थापनी की स्थापनी की
11	TACTICAL	CDF T35	DIV X	159.3225N	192,8	159.3225N	192.8	
12	TACTICAL	VFIRE 23	DIV A	154.2950N	156.7	154,2950N	156.7	
13	A/G CMD	CDF T18	ALL DIVS	159.3450N	192.8	159.3450N	192.8	AIR TO GROUND CMD
14	A/G TAC	CDF T16	ALL DIVS	159.2850	192.8	159.2850	192.8	AIR TO GROUND TAC
15	MEDICAL	CALCORD	ALL DIVS	156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
16	EMERGENCY	AIR GUARD	ALL DIVS	168.6250N		168,6250N	110.9	EMERGENCY - TONE 1
17		1						
18	···							
19								
	EMERGENCY	AIR GUARD	ALL DIVS	168,6250N		168.6250N	110.9	EMERGENCY - TONE 1
<u> </u>	cial Instructions							
	quencies are ANA Unit Phone 559-6		AND					
6. Pres	pared by (Commu	nications Unit Le	ader). Name.		Signaturer			
			D INFORMATION//BASIC		NIMS IAP	Signature: Date/Time:	11/11/18	1930
			((10/10/0/0/0/0		nama IAP	Date: (IIIIo.	11/11/10	1000

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Wo Genera	AIF	OPERAT	IONS SU	ІВЛВАЛЬ					ropared		e Preparec				8y
Wo Genera	ncident Nam			1411412-71	i ica	5-220			800	Sunday, Novem			Sean O'Hara		•
Wo Genera		e / Number		Sunrise	Startup	Cutoff	Sunset	Shut					Operational Period - T		
Genera		A-VNC-91023		624	654	1623	1653		1		Operational Period - Date Ionday November 12, 2018		0600-0600		
TR/		Safety Notes		ur Opera	tions Sp	ecial Equip	ment, etc.	Helibase I	nformation		Informati		Resc	ue Ship inf	ormation
	ACK ALL DIS	SITE LOCAT	IONS / NUM	BER OF	DIRS / G	ALLONS TA	AKEN	Name	Camarillo	Request #			1	Day Hoist	Night Holet
		P LOCATION								Radius: NM		NM	Name		VNC 6
					1		TES FORMAT.	Latitude 34 12,27 Radius; N Longitude 119 04,34 Allitude: 5,500 N			Phone	******	71100		
								Congitace	115 04.34	- Autoco.	-	Lat	1	Bell 205++	Bell 205++
		on of Reterdent / Denned Within :					Water, etc. vide the Following	Name		Centerpoint;		Lona		Camarillo	Camarillo
		et / Long, Estimal						Latitude		NOTAMS:	8/4	202		Procedure for	These Aircraft:
	On	ly Access Helibas	sa from Acade	my Dr., Gel	te 1- Code :	3512#		Longitude		Frequency		5750		Division/Bran	
Your!		insel Info has not		•			Update		2 if needed)	http://tfr.fa				ical Plan For	
Freque		TX	Tone	R		Tone	AM / FM	Position		me		one		лее	Phone
Comm		see comm plan	10110	see con		186.2000	PM PM	AOBD		O'Hara		48-2408		Idol	805-338-4715
A/G CMD (159,2850	192.8	159.		192.8	FM	ASGS		Magana	-	00-2511	JIA.	V PAUL	004-330-4/13
A/G TAC C		159,3450	192.8	159.3		192.8	FM	HEBM	 	agana 530-200-2511 attecli 704-488-2460					
Rotor Vict		118.5750	102.0	118.		102.0	AM		THING		,,,,,,,,,		-	·	
AIR TAC		169,1500		169.			FM						}		
Air/Air Pi		125,1250		125.			AM	HLCO	John	Zuniga	209-30	04-3464	 		
Air/Air Sec		125.6750		125.			AM	HLCO		onzalez	819-607-8642		 	<u> </u>	
TOL	_ 	123.0250		123.0			AM			AcGough	951-840-8155		 		
DEC		163,1000		163.		<u>-</u>	FM			laskins	909-6	59-5233			
CALCORD -	MEDICAL	156,0750	156,7	156.0	0750	156,7			Matt /	Mhalco	805-6	10-1469			
AIRGUARD - Em	nergency Only	168.6250	110.9	168.	5250		FM						}		
						HE	LICOPTERS (U	se page 2 If N	leaded }						
FAA#	Type	Make/Modei	Helibase	Avail	Start	Re	marks	FAA#	Type	Make/Model	Helibase	Avail	Start	Re	marks
731	1	S64F	Van Nuys	0730	0630	LACo IA/Re	source Tank A-23	408	li	Bell 205++	Camarillo	0730	0630	Tank,	VG, A-127
732	i -	S64F	Camarillo	0730	0630	Ta	nk, A-58	5TK	ii ii	Bell 205++	Camarillo	0730	0630	Buc	ket, A-59
2HT	Ti'	CH54B	Camarillo	0730	0830	Та	nk, A-69	3LK	il il	Bell 205++	Camarillo	0730	0630	Вис	(et, A-42
1CH	I	CH47	Camarillo	0730	0630	Та	nk, A-90		Туре				Ĺ		
3CH		CH47	Camarillo	0730	0630	Buc	ket, A-91	407GH	H	Bell 407	Camarillo	0730	0630	1	Recon, A-72
792		S64	Camarillo	0730	0630		nk, A-130	3SH	III	206L	Cemanillo	0730	0630		Recon, A-73
793	1	\$64	Camarillo	0730	0630		nk, A-129	2BH	III	206L	Camarillo	0730	0630		Recon, A-74
XFT	<u> </u>	Kmax	Camarillo	0730	0630		ket, A-123	535		Bell 407	Camarillo	0730	0630	HLCO, F	Recon, A-138
19LA	<u> </u>	S-70	Barton	0730	0630		ALS Hoist, A-163						 		
286	<u> </u>	UH-60	Camarillo	0730	0630	Bud	kel, A-43			-			 		
	Type									ļ	 				
528		Bell 212HP	Camarillo	0730	0630		nk, A-132			ļ	ļ		ļ		
530		Bell 205++	Camarillo	0730	0630		nk, A-124				ļ ļ		1		/\
532		Bell 205++	Camarillo	0730	0630		nk, A-131				 		ļ		
VNC6	11	Bell 205++	Camarillo	0730 0730	0630		ALS Holst, A-139								//\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
308	ll	Bell 205++	Camarillo	0/30	0630		NVG, A-136	Dane 2 if his	naded)						٧
FIXED WING FAA# Type Make/Model Base Avail Start Remarks					VED MING (02	FAA#	Туре	Make/Model	Base	Avall	Start	Remarks			
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12	Air Tactical	AC690	San Barnardino	800	700					 	 		1	<u> </u>	
1	- AL LECTION	7.0000	samunati	230						 	 			 	

INCUIONE I LAIR		1. INCIDE	NT NAME OOLSEY	2. DATE 3. TIME 4. OPERATION PREPARED PREPARED 11/12-11/1				NAL PERIOD 13, 0700-0700				
ICS 206		IN	CIDENT			1/2018	l	00	127		, 13, 0, 5	o o o o o o o o o o o o o o o o o o o
			. S. INCIDENT ME	DIC	AL AID	STATION	s .					
MEDICAL A	ID STATIONS		dia a	LOCATION							PARAN	IEDICS
				CDC SLEEPING AREA							YES	NO
	ERT							<u> </u>			RN	
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TOP BOY OR AND					77.101	OD THE		00100	DATE ATT	ON TEL	YES	NO
AMR 492, 498, 499 ICP, PCH (BR VI),				1.50	06209/69620	3.18.75.22.75.85	\$250,000 PEC 144	COMMU	INICALI	UNS	X	0.79,000
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-17 47162		,		_	AIR	GRND	1		YES	NO	YES	NO
Los Robles Regional	1	-	Thousand Oaks		5 min	15 min	(805) 370	-5901	X			X
TRAUMA LEVEL 2			8° 52.960'W	-	10	20	(805) 652	6165	\mathbf{x}		ļ	X
Ventura County Med TRAUMA LEVEL 2		illmont Av	e, vendita 9° 15.211'W		min	min	(605) 052	0103	^			^
West Hills Hospital			nter Dr., West Hills	s	15	40	(818) 676	4999	X		х	
TRAUMA LEVEL 2	34° 12	.186'N, 11	8° 37.711'W		min	min						
UCLA Medical Cent TRAUMA LEVEL 1		stwood Pla: 00'N, 118°	za Los Angeles		20 min	60 min	(310) 208	-5387	Х			X
TRACIMA LE VEL 1	J4 04.		8. MEDICAL EMER	GE	NCY PI	ROCEDUE	ES					
EMERGENCY FREQ	mewey.	rener property of the second			l	2)		- 47			s adulin Signada namin la	A Service Constitution
"LINE EMERGENCY			, in the second			INJU	JRY REI	ORTING	PROC	ŒDU	RES	
Crew Supervisor will co		pervisor with	patient	:								
complaint/condition and Division/Gr	nocation. Toup Supervisor o	onlacts:	11.1	CHIEF COMPLAINT LOCATION OF PATIENT								
1. (Closest EMS reso	urce		POINT OF CONTACT								
	Communications ` itions Unit contac			TRANSPORTATION REQUESTED BY:AIR GROUND POINT OF PICKUP							D	
	Ground or Air em	ibulance as re	quested .			I OF PIC	LON	G				_
	Operations Safety			PATIENT UNIT ID IS AN EMT/P WITH PATIENT: YESNO								
	Medical Unit	nee svill eesse	e as point of contact and		AGE	EMT/P	WITH PA	MENT: Y	ES	NU_		
run medical	emergency on as	ssigned chann	el. [MALE_	FEM	ALE	_			
	A pre-assigned ta- be used for IWI at		gy CALCORD should									
 Communica 	ations Unit will cl	ear command	channel for emergency	,		I I EN	TEDCE	NCIES	Sa	C11 F A	the or	-00
traffic as no CAMP EMERGENCY	eded and only for	duration of i	need.									
Contact Medical Unit wi	ith patient compla	int/condition	and location. Medica		апа		-	esses fo			-	ион.
Staff will respond to state Medical Unit					1	Kee	p an a	ccurate	rog o	ı eve	ents.	
1. C	communications					,			n ~=:		ва	
	ıfety ogistics	5. Crew 6. Com	Supervisor			**IN		P EME		NCL	ES**	!
J. 12	omistica	o. Com	J. J. January				80	05-384-	2339			
					I							
	. PREPARED							IEWED BY			r)	
	JOSLAH STA	LEY (SJS					DAN M	ENAMA	RA (SI	RM)		

STATE OF CALIFORNIA
DEPARTMENT OF FORESTRY AND FIRE PROTECTION PROPERTY CERTIFICATION OF LOCATION OR DAMAGE CERTIFICATE OF RESPONSIBILITY FOR INCIDENT

Incident#: Request #:

OCCURRANG	JE				NOTE: This form must not be used to certify lost, stolen or worm out property. A STD 152 Property Survey Report must be completed.				
CAL FIRE-101 pa	age 1 of 2 (1/1	07)					DOC. NUM	BER:	
LOCATION / INC	IDENT NAM	E	INCIDENT NUMB	ER:	UNIT:	REGION:	DATE:		
THE FOLLOWING	G ARTICLES	WERE: (brof	ken, left on line, dam	naged, or other))		DATE OF	OCCURANCE:	
QUANTITY	UNIT OF MEAS.		STOCK NUMBER VHENEVER ASSIGNED)	(INDICATE SIZE, PROVIDE AL	DESCRIF MAKE, MODEL, TYPE, ETC DEQUATE DATA TO EFFEC PROPER	C., TO CLEARLY DESCRIENTIFY EQUIPM	BE THE ITEM, MENT OR	PROPERTY NUMBER	
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	-								
				<u> </u>					
1 OCATION OF I	TEALS:								
REMARKS:	I EMO.				•			• • • • • • • • • • • • • • • • • • • •	
		SIGNATUI	RE OF PERSON	CERTIFY	NG OCCURANCE	E AS DESCRIBI	ΕD		
SIGNATURE:			PRINTED NAME:		TITLE:		DATE:		
DIV:		Di	v's Nan	ae:					
Div. S	igna	ture:							
					rifying that the ply Unit and /		ms where	left on the	

WOOLSEY FIRE

CA-VNC-091023

FINANCE MESSAGE

Finance / Admin Section

- Finance Section is located on trailer row
- Please come by the Time Unit and start your and update your FC-33
- Vendors please drop off your agreements to the Time Unit
- Shift Tickets need to be completed by line supervisor, and turned in at the end of each shift
- All injuries need to be reported to the COMP / CLAIMS Unit
- All property Damage must be reported and documented
- Please report any Vehicle Damage, this includes Rental Vehicles
- Local Government please check in with OES
- Federal Time: Timekeeper on site.
- OFF-SITE FEEDING IS NOT APPROVED
- · Water usage report needs to be turned in daily to the COMP / CLAIMS Unit
- This fire is a under cost apportionment
 ALL DIVS, OPBD, STAM NEED TO DEBRIEF WITH THE COST
 APPORTIONMENT TEAM DAILY.

Cost apportionment is located on trailer row.

INCIDENT BILLING INFORMATION

CAL FIRE - SAN LUIS OBISPO UNIT

635 N. Sahta Rosa

Index Code: 3013

E-fund Billing Code: 013815

WATER USAGE REPORT

8/14/18	- .			IV A	E-23
NCY or VENDOR NAME:CAL FIRE/AAA Wat					WIS
WATER SOURCE LOCATION Address, DP #, Lat-Long, etc.	Hydrant	Open source i.e. pond	Tank	Gallons Used	Property Owner and Contact Number if known **
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					

The intent of this document is to track, record and validate the amount of water used on a incident. It is not intended to review the performance of equipment using the water on an incident.

Additional Information:

TRAINING SPECIALIST MESSAGE

A Training Specialist is now on the incident.

ALL ASSIGNED TRAINEES

working on position task books will need to register with the Incident Training Specialist in order to receive proper credit for your assignment.

The Training Specialist is available immediately following the morning Operations Briefing.

Location: Next to the Copy Trailer

TRAINING SPECIALIST

Cory Cisneros 909.644.6379 Claudia Soiza 949.632.7813 Jon Garber 909.499.6863 (t) Danielle McMillon 310.951.2136(t)

Incident Trainee/Trainer Data Form

Training Specialists: Cory Cisneros 909.644.6379

Danielle McMillon (t) 310.951.2136 Jon Garber (t) 909.499,6863

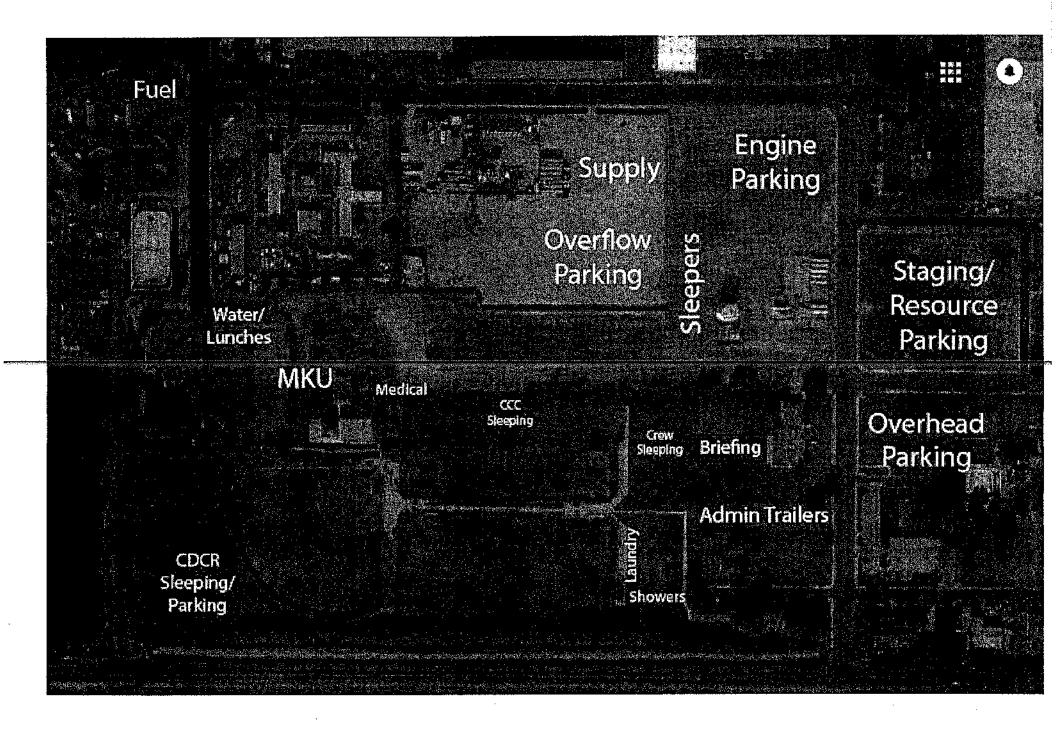
Claudia Soiza 949.632.7813

> All Incident trainees, including those on Firefighting Modules at your earliest opportunity complete this form and see the Training Specialist.

Prior to or as you process through DEMOB, remember to close your training package. To close your training package bring: 1) A performance rating from your trainer. (ICS 225)

2) Your task book that has as many entries as possible by your Trainer.

Trainee Data		1	
Trainee Name:	ICS Trainee Position:		
Request # (A,C,E, or O):	Agency Designator (MACS ID Ex. C/	4-ANF):	
Ordered as Trainee? Y N	Regional Priority Trainee	_ Local Forest Trainee	IMT Trainee
Date Assigned:	Cell / Contact # While on Incident:	:	
Training Records Mailed To: (I	Fire Chief, Training Officer):		
Name:	Title		_
Name of Agency/Unit:		,	
Agency/Unit Address:			
City: St	ate: Zip Code: Phone: _	,	
Trainee Prerequisites 1. Possesses valid Red Card or ag	ency certification card?	Yes No	1
Trainee has current position tast	•	YesNo	
Current Task Book Progress (Circl	e) 0% 25% 50% 75% 90%		
Phority Open Task in PTB (what o	o you need to accomplish on this incident?)		
Trainer/Evaluator Data			
Trainer / Evaluator Name:	ICS position	on fire:	. <u></u>
Home Unit:	Agency Designator (Ex. CA-ANF	F):Request	#
Work Address:			
City:	State:	Zip Code:	, , , , , , , , , , , , , , , , , , ,
Coll / Contact While on Incident:			



1. Incident Name:		2. Operational Period:	Date Fron Time Fron	n: Date To: n: Time To:
3. Name:	4.10	CS Position:		5. Home Agency (and Unit):
Date/Time	Notable Activities	······································		
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				-
			<u>.</u>	
				
		·····		
8. Prepared by: Na	ame:			Signature:
ICS 214, Page 2 of		Date/Time:		

ACTIVITY LOG (ICS 214)

3. Name:		4. ICS Position:	Time From:	Time To: ome Agency (and Unit):
				(and only)
6. Resources Ass	signed:		(4)	
N:	ame	ICS Position	on	Home Agency (and Unit)
**		-		
-				
7. Activity Log:				
Date/Time	Notable Activities			
	North 10	01 800ol		
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8. Prepared by: N ICS 214, Page 1 o		Position/Title:	5	gnature:
100 214, Fage 10		Date/Time.		
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al Avia	la (5)	65) 348 -8 59) 704= 09) 419-4	2005	
V	. / -	11 0110	V12	

Woolsey Incident

CA-VNC-91023

Incident Action Plan

Operational Period Nov 13th - Nov 14th 2018 0700 - 0700











BOX









FTP



INCIDENT OBJECTIVES (ICS 202)

1. Incident Name:	2. Operational Period;	Date From:	11/13/2018	Date To:	11/14/2018
Woolsey		Time From:	0700	Time To:	0700
3. Objective(s):	,		0.00	1311,0 10,	
Management Objectives					
-Provide for emergency personnel and public safe through the hazard risk assesment process.	ty at all times by ensuring haz	ards and risks are	identified, comr	nunicated ar	nd mitigated
-Protect property, improvements, and infrastructur	е.				
-Ensure an appropriate evacuation and repopulation	on plan is in place and commu	unicatéd.			
-Foster and strengthen relationships by recognizing	g the needs of all unified, ass	isting and cooperat	ling agencies.		
-Accurately track costs and provide fiscal accounted	ability white ensuring the need	ls of the incident ar	e met.		
-Ensure timely and accurate information is coordin	ated and provided to the publ	ic end cooperators			
Control Objectives -Keep the fire North of the Pacific Coast Highway -Keep the fire South of Highway 118					
-Keep the fire East of South Reino Road & Sycam	ore Canyon Road				
-Keep the fire West of Topanga Canyon Boulevard	i				
General Situational Awareness:	· · · · · · · · · · · · · · · · · · ·			 	
Steep and rugged terrain, critically dry and rec	eptive fuel beds, active area	a for fire history a	nd drought str	essed trees	4
The fire area has a significant history for firefig	shtor ontranments and injuri	ion.			
The late area has a significant history for meng	inter entrapments and injur	ies,			
5. Site Safety Plan Required?	Yes □ No ☑			······	
Approved Site Safety Plan(s) Located at:	IES LI NO SE				
6. Incident Action Plan		, ,,,,,,		,, <u>.</u> . <u> </u>	
☑ ICS 203 ☑ ICS 215A	☐ Phone List	☐ Fire St	appression Rep	air Plan	
☑ ICS 204 ☑ ICS 220	Training Message	\Box	,,	,,	
🗹 ICS 205 🔽 Incident Map	Travel Map				
☑ ICS 206 ☑ Weather Forecast	Demob Plan				
ICS 208 Fire Behavior	Finance Message	ICS 21	4	. /	
7. Prepared By: Anale Burlew / Mitch Diehl	Position/Title: PSC	Signature;	1000	Talli.	
8. Approved by incident Commander:	Mike Parkes	Signature:	11/2	e jo	
ICS 202					NIMS 1AP
					

ORGANIZATION ASSIGNMENT LIST (ICS 203)

	2 Operational S	— ¥			Date To: 11/14/2018	
l. Incident Name:		-eriot		11/13/2018 0700		
Woolse		1000	Time From:			
	(s) and Command Staff:	1.0	peration Secti	on;		
	Parkes / Myers / Estrada	D		Davis / Cook (Branch VI - X) / Inman (Branch I - V) Berbena / Shea / Alkonis		
	Watkins / Richardson / Lorenzon	Debt	ny Operations	Berbena / Snea / A	AIRORIS	
	Gage / Minton	-		Ol-shark (C-	diameter (Described)	
Safety Officer	McNamara / Lawson (T) / Balagad			(Branch I - V)	ykerman (Branch VI - X) / Hale	
Information Officer		essissis	Staging Area	renamen mendil e Militalia n menterambasa		
Liaison Officer	Jones (T) / Davis / Jared / Lewis (T0 / Garcia (T) / Haines / Shy (T) / Klar		Branch	1. The second se		
l: Agency/Organization	n Representatives: 1		Division/Group	Α	G. Tomlinson / Robertson (T)	
Agency/Organization	Name	Ш	Division/Group	В	A. Ward / A. Isemhagen (T)	
NPS	Derrek Hartman		Division/Group		}	
CDCR	Lt. Ellers		Branch	FINALLY ST	Burris .	
Fish & Game	JC Healy	} !	Division/Group	<u> </u>	S. Brawer (12-hour) / C. Kinney (T	
Public Health	Mike Rogers	1	Division/Group	F	D. Lacount (12-Hour)	
Public Heath	Pablo Valadez		Division/Group			
VC Animal Control	Ryan Bay		Branch	i v	Smith (12-hour) /D. Breshears (T (12-hour)	
CAL OES	David Stone		Division/Group	J	E. Maiorana / M. Haiverson (12-hour)	
American Red Cross	Cary Vanaulsdall		Division/Group	. М	Wisman (12-hour)	
LA County CEO OEM	Anthony Araelian	T-	Division/Group	1		
SCE Supervisor	Dan Face		. a Branch	VI	C. Trindade	
SCE Supervisor	Scott Brown	.,4	Division/Group	- No. 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	N. Gorham	
USFS	Michael Strawhun	1	Division/Group	Р	D. Carney	
USFS	Dave Valencia	-	Division/Group			
LA Animal Control	Cesar Chavez		Branch	· VIE/VIII.	R. Szczepanek	
CHP	Kevin Kurker	21/4/3/202	Division/Group		K. Van Wig / S. Gast (12-hour)	
CA State Parks	Jack Futoran	+-	Division/Group		K. Medonald / J. Colamarino (T)	
CCC	Hector Garcia	_	Division/Group		R. De La Rosa	
	The Table of Plants of the		Division/Group	·		
	Anale Burlew / Mitch Diehl		Branch		B. Reed (12-hour)	
	Sean Griffis / Al Yanagisawa	+) (************************************	Division/Group		C. Lowe (12-hour) / J. Enneking (1	
	Wood / McCarroll / Padilla		Division/Group		S. Turner (12-hour)	
	Jim Day / John Hamer	┿	Division/Group			
Documentation Unit		1	Division/Group	LA County Woolsey	B. Martin (STA 1132A)	
Demobilization Unit	Arturo Mota / Greg Barnhart (t)	1	Division/Group		1	
	Matt Tumer / Ed Lamas	1	Division/Group	Suppression Repair	r	
	Troy Velin	 	Staging Area		J. Davis	
IMET		\top	Division/Group			
	Cisneros / Soiza / McMillon	Á			Director: O'Hara / Idol (T)	
g,,,,,,		268000		rt Group Superviso		
····				al Group Superviso	** - · · · · · · · · · · · · · · · · · ·	
6 Logistics Section	77 (C. P. C. C. C. C. C. C. C. C. C. C. C. C. C.	3		Helibase Manage	· · · · · · · · · · · · · · · · · · ·	
	Reynolds / Robbins / Takeshita	***	_	The state of the s		
Deputy	····	Att	anse/Admir	sistration Section		
	Josh Randoli	22.02.0		f Rich Browne / Ta	7	
	Brian Pottenger	+		t Tiffany Tracy / Co		
Ground Support Unit	100000000000000000000000000000000000000	Pr	ocurement Uni			
Communications Unit		~-	mp/Claims Uni			
	Josh Staley		Cost Uni		· · · · · · · · · · · · · · · · · · ·	
	Mike Worford / Craig Zimmerman	+	Cost Uni	-		
		PS	cli	Signatura	Alalk —	
Prepared By: Name:	Griffis / Yanagisawa		ŧ	Signature		
ICS 203	Date/Time:		11/12/2018	3 2300 hours	NIMS	



INCIDENT Weather Forecast



FORECAST NO:

4

NAME OF FIRE: Woolsey

PREDICTION FOR: 24 hour

UNIT: VNC/CalFire

SHIFT DATE:

11/13/18-11/14/18 (0700-0700)

SHIFT

SIGNED:

Rich Thompson

Incident Meteorologist

TIME AND DATE

FORECAST ISSUED:

11/12/18 @ 1900

WEATHER DISCUSSION: ... RED FLAG WARNING THROUGH 500 PM WEDNESDAY ...

Moderate to strong Santa Ana winds will continue across the area through the operational period. The winds will peak in strength late this morning into early afternoon then will weaken through this evening. For tonight, the Santa Ana winds will continue to gradually diminish, although remain rather gusty. Relative humidity will drop into the single digits with little, or no, recovery tonight. Given the wind and moisture conditions, as well as the dry vegetation, CRITICAL FIRE WEATHER CONDITIONS will continue through the operational period.

On Wednesday, the Santa Ana winds will be weaker. However with continued very low relative humidity, CRITICAL FIRE WEATHER CONDITIONS will continue through the afternoon. For Thursday and Friday, weak diurnal flow will prevail, with slightly cooler temperatures and higher relative hurnidity.

WEATHER FORECAST:

WEATHER:

Mostly clear, Areas of smoke.

TEMPERATURES:

Max: 74-80.

Min: 48-58.

HUMIDITY:

Min: 4-10%.

Max: 8-18%.

20 FT WINDS:

RIDGETOP -

0700-1000: Northeast 20-30 MPH Gust 45 MPH. 1000-1400: Northeast 25-35 MPH Gust 55 MPH. 1400-2200: Northeast 20-30 MPH Gust 45 MPH. 2200-0700: Northeast 15-25 MPH Gust 40 MPH.

SLOPE/VALLEY -

0700-0900: North to northeast 15-25 MPH Gust 40 MPH. 0900-1400: North to northeast 25-35 MPH Gust 55 MPH. 1400-2200: North to northeast 20-30 MPH Gust 45 MPH. 2200-0400: North to northeast 15-25 MPH Gust 35 MPH. 0400-0700: North to northeast 20-30 MPH Gust 40 MPH.

EXTENDED FORECAST:

Wednesday:

Santa Ana winds will continue through the day, albeit weaker that the winds experienced the last couple of days. However, very low relative humidity will remain. So, CRITICAL FIRE WEATHER CONDITIONS will persist into the afternoon.

Thursday/Friday:

Weak diurnal flow is anticipated with offshore flow at night and onshore flow during the day. Temperatures will be a bit cooler and relative humidity will be

higher with better overnight recoveries.

FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 4 TYPE OF FIRE: Wildland Fire

FIRE NAME: Woolsey OPERATIONAL PERIOD: 24hr 11/13 (0700-0700)

DATE ISSUED: 11/12 TIME ISSUED: 2100

UNIT: VNC SIGNED: //Troy Velin//

INPUTS

WEATHER SUMMARY

Red Flag Warning through 5:00 PM Wednesday

- Today's weather will be dominated by Santa Anna Winds (off shore flow)
 - See attached Incident Weather Forecast in IAP

OUTPUTS

FIRE BEHAVIOR

GENERAL:

Fuels in the area consist of cured annual and coastal grasses and coastal chaparral and sage. Rains in early October did not have a lasting effect and fuels are critically dry. The Topography is steep, broken and drainages are predominantly arranged in alignment with critical winds. Fire behavior in areas sheltered from the wind or decreases in off shore flow will transition apidly to terrain runs. Long range spotting will continue to be a threat.

South of Hwy 101, many of the drainage bottoms are deep enough to be out of the wind. Expect to find higher humidity's along with areas of shaded fuels. These areas will challenge firefighters with hold over fires and mop up.

Forecasted Indices for Fire Area

. Croducted majors for the Area									
Area	Fuels	DFM (10hr)	LFM	BI	FL	ROS			
LA Basin (N of Hwy 101)	Chaparral	3%	64%	100 (Critical is 105)	40+	7-14 m/hr			
Santa Monica Mts (S of Hwy 101)	Chaparral	2%	65%	182 (Critical is 94)	40+	7-14 m/hr			

SPECIFIC:

Branch I

Hot spots in the Hidden Hills area will continue to produce embers that will threaten the line.

Branch III/IV

Structures within 1 mile of the perimeter are capable of producing spot fires outside containment lines. The area of the tunnel has the most potential for growth. Hot rolling material will continue to be a threat in this area. Fire crossing Malibu Canyon near the tunnel will be sheltered from the wind, expect a slope run toward Piuma rd. before turning back and making a wind run to the coast.

Branch V/VI

There are still green islands in Branch V to monitor. In Branch VI, the fire is still holding in the Springs fire scar and retardant.

Branch VII/VIII/IV/X

I do not expect any growth in these branches. Most interior islands have been consumed.

AIR OPERATIONS:

Except for smoke, skies will be clear. Heavy winds will impact air operations.

SAFETY

If you aren't thinking about your safety zone or escape route who is?

Know what your fire is doing at all times. Post look outs to monitor for changes.

WOOSLEY HEALTH AND SAFETY MESSAGE

We Are ALL accountable for SAFE behaviors



INCIDENT: Woolsey Incident

DATE: November 13, 2018

TIME: 0700-0700

Major Hazards and Risks: DRIVING—RED FLAG WEATHER—RECEPTIVE FUELS—TERRAIN—STRUCTURE DEFENSE—FATIGUE—COMPLACENCY!

Driving: Keep your speeds down ou all roads. Be alert for civilian traffic in the fire areas. Park apparatus off the roadway and utilize warning lights. Wear your seatbelts!

Fatigue: Take frequent nutrition and hydration breaks throughout the day. Hydrate with a 2 water to 1 electrolyte drink ratio. Monitor Personnel for excessive fatigue. Critical hours for injuries and accidents is between 14:00 and 18:00 hours; be especially alert during this period of time, don't become complacent and utilize the buddy system.

Complacency: The strongest weapon against complacency is good leadership. Clearly communicate leader's intent, stay engaged and empower your subordinates. Motivation is the cure for complacency!

Fire Effects: Be alert for rolling rocks, burned out power poles, snags, hazard trees, and hazards in and around impacted structures.

Potential Fire Behavior: Fuels are extremely receptive to fire and RH recoveries are very poor. Consider P.A.C.E and know your L.C.E.S. Don't be lulled into a false sense of security.

Lookouts, Communication, Escape routes, Safety zones

Planning For Medical Emergencies

Supervisors and all firefighters need to ask and be able to answer the following three questions:

- 1) What are we going to do if someone gets hurt?
 - Is there personnel and equipment available to assist?
- 2) How will we get them out of here?
 - What is your best extraction and transport method? Road, helispot, hoist? Primary plan and contingency plan in place?
- 3) How long will it take to get them to the hospital?
 - · Will you request air or ground resources?
 - · Are helicopters able to fly?

Review your ICS 206 and know what to do in the event of a medical emergency

TAILGATE SAFETY

- Accountability: Everyone checks in and everyone checks out. Supervisors know where their crews are at all times
- Hydration and Nutrition: Monitor each other for proper hydration and nutrition
- Communication: Everyone knows the comm plan and follows it
- Briefing: Leaders intent is fully communicated and safety briefing is provided
- Safety gear: Everyone has the appropriate PPE and is using it
- LCES: They are clear and made known to everyone
- Medical: Follow the medical procedures found on the ICS206 in the IAP

INCIDENT SAFETY ANALYSIS

WOOSLEY FIRE

DIV	HAZARDS		MITIGATI	ONS				
All	Extreme Fire Behavior	LCES Risk Assessmen	t IRPG					
All	Steep Terrain & Rolling Debris	Maintain 8'-10'Don't work above	spacing when working we any personnel wel times to Safety Zo.					
All	Fatigue Management	i i i i i i i i i i i i i i i i i i i	stfollow the 2:1 ation & nourishment,	work/rest guidelines take frequent breaks on fireline				
All	Communication	Use human repeReview radio co	aters when necessary mmunication plan pri	ior to committing resources				
All	Driving & Traffic	Always use headUse chock blockWatch for wildli	d honk horn when be dlights and seatbelts as, emergency brakes, ife on Hwy and at sun pected while driving	and turn wheels in high bank				
Ali	Structure Defense	 Review "Wildland Urban Interface" Watchouts, IRPG page 12 Use "Structure Assessment" checklist, IRPG pages 13 – 17 Maintain egress to Safety Zone 						
All	Mechanized Equipment	 Create positive of 	communication with o	operator, hand, radio, etc zer, depending on vegetation height				
All	Air Ops	Communication	<u> </u>					
All	Power Lines	 Mark areas with 	Lines Down as "LIV Caution Tape when polivision of locations					
All	Complacency	Expect the unex Monitor each off	the unexpected					
All	Hazard Trees	- · · .	Down, Look Around ly all hazard trees					
	OSLEY FIRE	DATE & TIME PRE 11/12/2018 2	PARED	OPERATIONAL PERIOD 11/13/2018 – 0700-0700				

Prepared by Safety Officer: Dan McNamara SOF1, Jeremy Lawson SOF1 T

A.

Jason (213) 342-7337 Cuy (661) 212-8016

ASSIGNMENT LIST (ICS 204) CONTROLLED UNCLASSIFIED INFORMATION//BASIC

t, incluent Name;		2. Operation	ai Period:			3,	
Woolsey		Date From:	11/13/18	Date To:	11/14/18	1	
		Time From:	0700	Time To:	0700	Branch:	I
t. Operations Personne	ł:					}	
Operations Section Chie	Davis / f: Blanke	/ Cook (Branch VI inheim / Spykerma	- X) / Inman (aл (Branch V	(Branch I - V) I - X) / Hale (B	Night Ops: Branch I - V)	Div/Group:	Α
Branch Director	r. Sulliva	תו		Branch Safe	ty: Randall Titus		Alpha
Division/Group Supervisor	r: G. Ton						Page 1 of 1
5. Resources Assigned:	<u> </u>	** Resources	s Below in B	old are 12 Ho	ur **		ion, Special Equipment, , and Information
Resource Identifier		Lea	der	Personnel	Request#	Time	Location
STA BDC 6230A		Tuttle, Jef	frey Scott	17	E-68	0700-0700	DP 1-4
STA XRI 6800A	·	Hause	r, Eric	21	E-33	0700-0700	DP 1-4
STC FKU 9431C		Domingu	ez, John	15	E-99	0700-0700	DP 1-4
STC CNF 6631C	·	Tucker,	Michael	27	E-311	0700-1900	DP 1-4
STG MMU 9425 G		Meadows,	Stephen B	31	C-7	0700-1900	DP 1-4
STG BEU 9465G		Young,	Arron S	32	C-8	0700-0700	DP 1-4
W/T E-342 PVT DOUBLE F	3	Wadswort	h, Boomer	2	E-342	0700-0700	DP 1-4
W/T E-343 PVT DOUBLE F	₹	Vieyra	, Rich	2	E-343	0700-0700	DP 1-4
FALM+							DP 1-4
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6. Work Assignments:		<u> </u>		<u> </u>			
Mog up 300' in from control	line.						
Fall hazard trees and trees		iten control lines.					
Backhaul trash.							
Maintain positive interaction	with the	public and assist a	s needed.				
7. Special Instructions:					····		
Do not go off paved highwa	w in Rock	otdyne Facility					
- a not go on parca mgmra	.y 1 (00)	cidyne (denty,					
8. Communications	Radio	information needed	for this assig	nment:			
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8	1	COMMAND	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 8
CDF T26	3	TACTICAL	159,2925N	192,8	159.2925N	192.8	T-CHISTON GO CMO B
CDF T16	14	A/G TAC	159.2850	192.8	159.2850	192.8	APTO CROUPS TAC
CALCORD	15	MEDICAL	156.0750N	156.7	156,0750N	156.7	AIR TO GROUND TAC
AIR GUARD	16	EMERGENCY	168.6250N	1.23.7	168.6250N	110.9	MEDICAL COORDINATION
		/ McCarroli /	1 100.020011		100.023014	1 110.9	EMERGENCY - TONE 1
9. Prepared by: Name:	Padilla		Pos/Title:	RESL	/	/ /	
_					Signature:	4	
ICS 204 Date/Time	e: 11/12/	2018 2200				rspnnel Count	148
MIMS IAP				· · · · · · · · · · · · · · · · · · ·		<u> </u>	ASSIFIED INFORMATION//BA

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1. Incident Name:		2. Operation:	al Period:			3.	
Woolsey		Date From:	11/13/18	Date To:	11/14/18		
		Time From:	0700	Time To:	0700	Branch:	Į.
4. Operations Personnel:							
Operations Section Chief:	Davis / (Blanker	Cook (Branch VI theim / Spykerma	- X) / Inmar in (Branch	(Branch I - V) VI - X) / Hale (B	Night Ops: Branch I - V)	Div/Group:	В
Branch Director:	Sullivan	1		Branch Safe	ty: Randall Titus		Bravo
Division/Group Supervisor:	A. Ward	l / A. Isernhagen	(T)				Page 1 of 1
5. Resources Assigned:		** Resources	Below in	old are 12 Ho	ur **	Reporting Locati	on, Special Equipment,
Resource Identifier	•	Lea	der	Personnel	Request #	Remarks, Notes, Time	and Information Location
STA LAC 1139A		Jimenez	, Arturo	21	E-289	0700-0700	DP 1-4
STA XSD 6414A	Frederick	, William	19	E-29	0700-0700	DP 1-4	
STC XSB 1521C		Baker,	Dave	24	E-60	0700-0700	DP 1-4
STC MVU 9332C		Marugg,	Ernest L	20	E-309	0700-1900	DP 1-4
STG RRU 9315G		Quast, 1		32	C-81	0700-0700	DP 1-4
CRW KRN Golden Empire		Young, F		24	C-46	0700-1900	DP 1-4
W/T E-338 PVT FOOTHILL		Kelly,		2	E-338	0700-0700	DP 1-4
FALM+			14,11	1	12-000	0700-0100	DP 1-4
						0700-1900	DF 14
			s				· · · · · · · · · · · · · · · · · · ·
				<u> </u>			
6. Work Assignments:		<u> </u>		<u> </u>	<u> </u>		
· ·							
Mop up 300° in from control li							
Fall hazard trees and trees the	iat Urreate	an control lines.					
Backhaul all trash.	*** -*						
Maintain positive interaction	with the p	ublic and assist as	needed.	· · · · · · · · · · · · · · · · · · ·			
7. Special Instructions:							
8. Communications	Radio in	formation needed	for this age	nmant:			
Name	Ch	Function		Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8	1	COMMAND	155.9850N	7 			
CDF T26	3	TACTICAL	159.2925N	186.2 192.8	154.7250N	186,2	VENTURA CO CMD 8
CDF T16	14	A/G TAC	159.2850		159.2925N	192.8	
CALCORD	15	MEDICAL	156.0750N		159.2850	192,8	AIR TO GROUND TAC
AIR GUARD	16			· · · · · · · · · · · · · · · · · · ·	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD				<u> </u>	168.6250N	110.9	EMERGENCY - TONE 1
9. Prepared by: Name:	Padilla	APPOSITOR I	Pos/Title;	RESL		/ V	
					Signature:	Z_ \ {	
ICS 204 Date/Time:	11/12/20	18 2200				COLUMN COLUMN	142
NOMES TAP						sonnel Count:	143

CONTROLLED UNCLASSIFIED INFORMATION/BASIC

1. Incident Name:			. Operational Period:				
Woolsey		Date From:	11/13/18	Date To:	11/14/18		
		Time From:	0700	Time To:	0700	Branch:	III / IV
4. Operations Personnel:							_
	Davis / Co	ook (Branch VI -	X) / Inman (I	Branch I - V)	Night Ops:	Div/Group:	С
Operations Section Chief:		eim / Spykerma	n (Branch VI	- X) \ Hale (R	ranch I - V}	1	GhIt-
Branch Director:							Charlie
Division/Group Supervisor:	S. Brawer				***	Papartina Lacati	Page 1 of 1
5. Resources Assigned:		** Resources		****		Remarks, Noles,	and Information
Resource Identifier	_ ,	Lead	er er	Personnel	Request #	Time	Location
STA XRI 6050A	 	11. 6.73	A CHI	24	E-66	0700-0700	DP 3-4
STA LAC 1109A		Mayfield,		21	E-118	0700-0700	DP 3-4
STA LAC 1130A		Brookhsye		22	E-122	0700-0700	DP 3-4
STA LAC 1131A		Ramirez	· · · · · · · · · · · · · · · · · · ·	21	E-74	0700-0700	DP 3-4
STG BDU 9352G		Elenburg		33	C-11	0700-0700	DP 3-4
STG LAC 1171G		Koch, D		33 +/-	C-33	0700-1900	DP 3-4
STG LAC 1176G	v	Hunter,			C-17	0700-1900	DP 3-4
W/T E-346 PVT GOLDEN		Mccabe,		2	E-346	0700-0700	DP 3-4
SOFR RUDOLF 0-298		Rudolf,		1	O-298	0700-0700	DP 3-4
FEMT WOOTEN 0-372		Wooten, I	 -	1	0-372	0700-0700	DP 3-4
FEMT DVORIN 0-373		Dvorin, N	farshall	1	O-373	0700-0700	DP 3-4
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6. Work Assignments:							
Hold fire within current control	l line.						
Map up 300' in from control li	ne.						
Backhaul trash.							
Maintain positive interaction	with the pu	blic and assist as	s needed.				
7. Special Instructions:			1 10-2-2		1		
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0.00	D - 4' - 1 - 2	<u> </u>	f - 11-1 1-1				
8. Communications	· · · · · · · · · · · · · · · · · · ·	ormation needed		1	T	T + +	
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
LAC V4	2	COMMAND	152.5700N	151.4	157.8300N	151.4	LA COV4
CDF T27	4	TACTICAL	159.3075N	192,8	159,3075N	192.8	
CDF T16	14	A/G TAC	159.2850	192.8	159.2850	192.8	AIR TO GROUND TAC
CALCORD	15	MEDICAL	156,0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD		EMERGENCY	168.6250N	<u> </u>	168.6250N	110.9	EMERGENCY - TONE 1
9. Prepared by: Name;	Wood / N 9. Prepared by: Name; Padilia			RESL		1/	
v. Prepared by, Maine,	r aulta		Pos/Title:	NEOL	Signature:	$\langle \mathcal{L} \mathcal{L} \rangle$	
ICS 204 Date/Time:	11/11/200	19 2200				lorgandal Ca	1. 126
NIMS IAP	11/12/20	10 2200		-,		ersonnel Coun	L; 130 ASSIFIED INFORMATION/BASIC

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2. Operational	l Period:			3.		
Date From:	11/13/18	Date To:	11/14/18		1	
Time From:	0700	Time To:	0700	Branch:	RI/IV	
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ok (Branch VI -	X) / Inman	Branch I - V)	Night Ops:	Div/Group:	F	
im / Spykermai	n (Branch 🏻	l - X) / Hale (Br	anch I - V)			
	Į.				Foxtrot	
					Page 1 of 2	
** Resources	Below in B	old are 12 Hou	f **		n, Special Equipment,	
Lead	er _	Personnel	Request#	Time Location		
Pitts, C	3len (21	E-119	0700-0700	DP 3-2	
Padilla,	Mike	21	E-72	0700-0700	DP 3-2	
Kovach,	Robert	23	E-10	0700-0700	DP 3-2	
Staley, M	lichael	22	E-42	0700-0700	DP 3-2	
De Viso,	Danny	33	C-12	0700-0700	DP 3-2	
1			<u> </u>	0700-0700	DP 3-2	
Hernande	z. David	777	C-18	0700-1900	DP 3-2	
- · · · · · · · · · · · · · · · · · · ·			C-16	0700-1900	DP 3-2	
		16			DP 3-2	
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		<u> </u>			DP 3-2	
Palazzo,	Anthony		E-226	10700-0700	DF 3-2	
W						
alic and assist as	needed.					
		<u> </u>				
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		1				
rmation needed	for this assis	ment:				
		24	Tx Freq	Tx Tone	Notes	
		1		· · · · · · · · · · · · · · · · · · ·	LA CO V4	
		5			D. CO 14	
		3			AID TO COOLING TAG	
		3			AIR TO GROUND TAC	
					MEDICAL COORDINATION	
				1 110.9	EMERGENCY - TONE 1	
Wood / McCarroll / 9. Prepared by: Name: Padilla Pos/Title:				A.V.		
				(/ ¼/		
8 2200				ersonnel Count	205	
			Personnel Count: 205 CONTROLLED UNCLASSIFIED INFORMATION//BAS			
	Date From: Time From: Time From: ok (Branch VI- im / Spykerman t (12-Hour) ** Resources Lead Pitts, (Padilla, Kovach, Staley, M De Viso, Hernande Velazo Garza, Ane, L Hanson, Anderson Thoma: Arias, Anderson Stein, E Mait Min Palazzo, slic and assist as rmation needed Function COMMAND TACTICAL MEDICAL MERGENCY	Date From: 11/13/18 Time From: 0700 ok (Branch VI - X) / Inmany im / Spykerman (Branch VI (12-Hour) ** Resources Below in Branch VI Leader Pitts, Glen Padilla, Mike Kovach, Robert Staley, Michael De Viso, Danny Hernandez, David Velazquez Garza, John Ane, Lance Hanson, Chris Anderson, Brian Thomas, Jim Arias, Louie Anderson, Rex Stein, Barton Matt Michaels Palazzo, Anthony olic and assist as needed. stream of this assist function TACTICAL 151.1825N A/G TAC 159.2850 MEDICAL 156.0750N MERGENCY 168.6250N CCarroll / Pos/Title:	Date From: 11/13/18 Date To: Time From: 0700 Time To: Ok (Branch VI - X) / Inman (Branch I - V) Im / Spykerman (Branch VI - X) / Hale (B	Date From: 11/13/18 Time To: 0700	Date From: 11/13/18	

ASSIGNMENT LIST (ICS 204) CONTROLLED UNCLASSIFIED INFORMATION///BASIC

1. Incident Name:		2. Operations	i Period:			3,			
Woolsey		Date From:	11/13/18	Date To:	11/14/18				
		Time From:	0700	Time To:	0700	Branch:	III / IV		
4. Operations Personnel:				*****		_			
r	avis / Co	ok (Branch VI	- X) / Inman (Branch (- V)	Night Ops:	Div/Group:	F		
Operations Section Chief: E	Blankenhe	im / Spykerma	ın (Branch V	l - X) / Hate (E	Branch I - V)				
Branch Director: E	orris (Foxtrot		
Division/Group Supervisor: [). Lacoun						Page 2 of 2		
5. Resources Assigned:		** Resources	Below in Bo	old are 12 Ho	ur **	Reporting Locati	on, Special Equipment, and information		
Resource Identifier		Lea	der	Personnel	Request#	Time	Location		
SOFR PERRY 0-17	OFR PERRY 0-17 Perry, Thomas 1 0-17								
SOFR (T) BINDER		Bine	der	1		0700-0700	DP 3-2		
SOFR FRY O-164		Fry, Chri	stopher	1	0-164	0700-1900	DP 3-2		
FEMP ANDERSON 0-365		Anderson	, Michael	1	O-365	0700-0700	DP 3-2		
FEMT MILANO 0-371		Milano	, Troy	1	O-371	0700-0700	DP 3-2		
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6. Work Assignments:					<u> </u>		* ********		
Hold fire within current control:	line.								
Mop up 300' in from control line	∍.								
Maintain positive interaction wi	th the pub	lic and assist as	s needed.						
7. Special Instructions:				-, <u></u>					
1									
8. Communications F						-			
<u> </u>		mation needed			T	,	· · · · · · · · · · · · · · · · · · ·		
		Function		•	Tx Freq	Tx Tone	Notes		
LAC V4		COMMAND	152.5700N	151.4	157.8300N	151.4	LA CO V4		
CDF T28		TACTICAL	151.1825N	192.8	151.1825N	192.8			
CDF T16	15	A/G TAC MEDICAL	159.2850 156.0750N	192.8 156.7	159.2850	192.8	AIR TO GROUND TAC		
CALCORD	156.0750N	156.7	MEDICAL COORDINATION						
AIR GUARD	168.6250N	110.9	EMERGENCY - TONE :						
9. Prepared by: Name: F									
9. Prepared by: Name: F	a	$\angle \mathbb{I}$							
ICS 204 Data Circus	14/4/12/04/0	. 2222			Signature:	1-1			
ICS 204 Date/Time: 11/12/2018 2200 Personnel Count: 5									

1. Incident Name:		2. Operational	l Period:			3.	
Woolsey		Date From:	11/13/18	Date To:	11/14/18		1
		Time From:	0700	Time To:	0700	Branch:	v
4. Operations Personnel:						1	
	Davis /	Cook (Branch VI -	X) / Inman	(Branch I - V)	Night Ops:	Div/Group:	J
Operations Section Chief:		• •	· · · · · · · · · · · · · · · · · · ·	/I - X) / Hale (B	ranch I - V)	•	
		12-hour) /D. Bresh	ears (T)				l M. a. k
Branch Director:	•	•	n /12-hour			ŀ	Juliet Page 1 of 1
Division/Group Supervisor: 5. Resources Assigned:	E. Maio			old are 12 Hou	- **	Recording Location	on, Special Equipment,
Resource Identifier		Lead		Personnel		Remarks, Notes,	and Information
STA LAC 1103A		Cabrera,		21	Request # E-116	7ime 0700-0700	Location DP 5-4
STA CAC 1103A STA OES 6820A		Cablela,	Sieve	2.	E-110	0700-0700	DP 5-4
		Tour B	iobard	17	E-41		DP 5-4
STC RRU 9310C		Tovar, R		21	E-35	0700-1900	DP 5-4
STC ORC 9328C T/F OES WA TF 1		Ashby, (18		0700-0700	
	. .			10	E-619	0700-1900	DP 5-4
STG LAC 1182G		Garcia, Perez, N		99	C-14	0700-1900	DP 5-4
STG LAC 1185G				33	C-34	0700-1900	DP 5-4 DP 5-4
W/T E-147 PVT J & M		Duncan		2	E-147	0700-0700	DP 5-4
W/T E-148 PVT DUST		Holt, C		2	E-148 E-336	0700-0700	DP 5-4
	T E-336 PVT BENDALLS Walton, Mark T E-337 JOHN BENDALLS Hubbard, Tom					0700-0700	
W/T E-337 JOHN BENDALLS				2	E-337	0700-0700	DP 5-4
W/T E-339 PVT 40 TRAFFIC		Jones,		<u> </u>	E-339	0700-0700	DP 5-4
SOFR SIOK		. Sio		1		0700-0700	DP 5-4
SOFR (T) FINNERTY O-53		Finnerty	, Peter	1	O-53	0700-0700	DP 5-4
				<u>-</u>	<u> </u>	 	
				<u> </u>		 	
· · · · · · · · · · · · · · · · · · ·							7
6. Work Assignments:							"
Construct and improve direct	control	line as needed.					
Mop up 300' in from control li	ne.						
Maintain positive interaction v	with the	public and assist as	needed.	ļ.			
				<u>.</u>			
7. Special Instructions:		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	5 "		· · · · · · · · · · · · · · · · · · ·	<u> </u>			
8. Communications	т -	nformation needed		<u> </u>	T. F	T	Natas
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
LAC V4	2	COMMAND	152,5700N	- it 	157.8300N	151.4	LA CO V4
CDF T29	6	TACTICAL	151.3475N	M	151.3475N	192.8	
CDF T16	14	A/G TAC	159.2850		159,2850	192.8	AIR TO GROUND TAC
CALCORD	15	MEDICAL	156.07501	3	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD	16	EMERGENCY	168.62501	· []	168.6250N	110.9	EMERGENCY - TONE 1
Wood / McCarroll / 9. Prepared by: Name: Padilla Pos/Title;				RESL		/V.	
						Z.\.\.\	
ICS 204 Date/Time:	11/12/	2018 2200		:: 	Signature:	ersonnel Count	: 122
NINSTAP	- 17 7207			Personnel Count: 122 CONTROLLED UNCLASSIFIED INFORMATION//BASIC			

-Sam (213) 312 7337

5016 CONTROLLED UNCLASSIFIED INFORMATION/BASIC ASSIGNMENT LIST (ICS 204) 2. Operational Period: 3. 1. Incident Name: Date From: 11/13/18 Date To: 11/14/18 Woolsey Time From: 0700 Time To: 0700 Branch: Operations Personnel: Div/Group: М Davis / Cook (Branch VI - X) / Inman (Branch I - V) Night Ops: Operations Section Chief: Blankenheim / Spykerman (Branch VI - X) / Hale (Branch I - V) Smith (12-hour) /D. Breshears (T) Mike Branch Director: (12-hour) Division/Group Supervisor: Wisman (12-hour) Page 1 of 1 Reporting Location, Special Equipment, Remarks, Notes, and Information 5. Resources Assigned: ** Resources Below in Bold are 12 Hour ** Resource Identifier Leader Personnel Request # Time Location T/F OES ID TF 1 Gammel, Terry 16 Ë-624 0700-1900 DP 5-6 T/F OES NM TF1 **Brian Fox** 24 E-618 0700-1900 DP 5-6 16 DP 5-6 **CRW LAC CREW 2** C-35 0700-1900 Gaylord W/T E-334 PVT TYPE 2 2 E-334 0700-0700 DP 5-6 Troedel, Bryan W/T E-340 PVT BRENDA'S Cleer, Dana 2 E-340 0700-0700 DP 5-6 Taylor, Dalton W/T E-344 PVT HAYNES WTR 2 E-344 0700-0700 DP 5-6 DP 5-6 W/T E-347 PVT L & L Luck, Gary 2 E-347 0700-0700 FALM+ 1 0700-1900 DP 5-6 Briant, Peter SOFR BRIANT 0-165 1 O-165 0700-0700 DP 5-6 6. Work Assignments: Hold fire within current control line. Fail hazard trees and trees that threaten control lines. Mop up 300' in from control line. Maintain positive interaction with the public and assist as needed. 7. Special Instructions: 8. Communications Radio information needed for this assignment: Name Ch **Function** Rx Freq Rx Tone Tx Freq Tx Tone Notes LAC V4 2 COMMAND 152.5700N 151,4 157.8300N 151.4 LA CO V4 CDF T29 6 TACTICAL 151.3475N 192.8 151.3475N 192.8 CDF T16 14 A/G TAC 159.2850 192.8 159.2850 192.8 AIR TO GROUND TAC CALCORD 15 MEDICAL 156.0750N 156,7 156.0750N 156.7 MEDICAL COORDINATION AIR GUARD 16 **EMERGENCY** 168.6250N 168,6250N 110.9 EMERGENCY - TONE 1 Wood / McCarroll /

ICS 204

9. Prepared by: Name:

Date/Time: 11/12/2018 2200

Padilla

Signature:

Personnel Count: 66

CONTROLLED UNCLASSIFIED INFORMATION/BASIC

RESL

Pos/Title:

1. Incident Name:		2. Operations	al Period:			3.			
Woolsey		Date From:	11/13/18	Date To:	11/14/18				
		Time From:	0700	Time To:	0700	Branch:	VI		
4. Operations Personn	el:]			
Operations Section Ch	Davis ief: Blanke	/ Cook (Branch VI enheim / Spykerma	- X) / Inman ın (Branch)	(Branch I - V) /I - X) / Hate (B	Night Ops: ranch I - V)	Div/Group:	N		
Branch Direc							November		
Division/Group Supervis	or: N. Gor	ham				1	Page 1 of 2		
5. Resources Assigned:	_		Below in E	old are 12 Hou	Jr **	Reporting Location, Special Equipment,			
Resource Identifier		Lea		Personnel	Request #	Remarks, Notes, and Information Time Location			
STA LAC 1102A		Roberts		21	E-21	0700-0700	DP 6-4		
TA OES WA ST 2 Hickey, Alex				20	E-613	0700-1900	DP 6-4		
STC MVU 9330C		Zingheim		18	E-39	0700-0700	DP 6-4		
STC MVU 9331C		Kremensk		14	E-40	0700-1900	DP 6-4		
STC BDU 9351C		Fowler,	-	21	E-313	0700-0700	DP 6-4		
STG RRU 9313G		Morris		33	C-6	0700-1900	DP 6-4		
STG BDU 9357G		Sabino, A	Amold D	33	C-5	0700-0700	DP 6-4		
STL SBC 9322L		Linane,		4	E-24	0700-0700	DP 6-4		
DOZ ORC 2		Monteleon	e, Ryan J	2 +/-	E-129	0700-0700	DP 6-4		
DOZ BDU 3540						1	DP 6-4		
W/T OES WT11		Casilli, Jo	effrey M	2	E-64	0700-0700	DP 6-4		
W/T E-49 PVT A-1 WATE	R	Thor		1	E-49	0700-0700	DP 6-4		
W/T PVT E-52 WEYRICK	;	Coon, S	Steven	2	E-52	0700-0700	DP 6-4		
W/T E-54 PVT FIRELINE		Hu		2	E-54	0700-0700	DP 6-4		
W/T PVT E-223 NABORS	;	Nabors,	Duane	2	E-223	0700-0700	DP 6-4		
W/T PVT E-224 WOODS		Woods, D		2	E-224	0700-0700	DP 6-4		
W/T E-231 PVT LITTLE B	iiG	Strothe	r, Tom	1	E-231	0700-0700	DP 6-4		
W/T PVT E-341 VEST		Byrne, \	Vesley	2	E-341	0700-0700	DP 6-4		
6. Work Assignments:			-						
Structure defense and pe	rimeter con	itrol.							
Perform Tactical Patrol as	ound struc	tures.							
Mop up 300' in from contr	of line.								
Maintain positive interacti	on with the	public and assist as	s needed.	:					
7. Special Instructions:									
9 Communications	fi - di -	:_f	Sandhin mari						
8. Communications Name		information needed		· · · · · · · · · · · · · · · · · · ·		T = -	1 3.		
VNC C8	Ch 1	Function COMMAND	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes		
CDF T30	<u> </u>	TACTICAL	155.9850N		154.7250N	186.2	VENTURA CO CMD 8		
			151.3925N		151.3925N	192.8			
		159.2850	192.8	159,2850	192.8	AIR TO GROUND TAC			
	15	MEDICAL	156.0750N	`	156.0750N	156.7	MEDICAL COORDINATION		
1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0				1	108.625UN	170,9	EMERGENCY - TONE 1		
Wood / McCarroll / Prepared by: Name: Padilla Pos/Title:				RESL N					
-					₹ /A				
ICS 204 Date/Tid	CS 204 Date/Time: 11/12/2018 2200					Personnel Count: 180			
NIMS IAP							ASSIFIED INFORMATION//BASIC		
	168.6250N Pos/Title:	RESL	168.6250N Signature: C	110.9	EMERGENCY - TONE 1				

Davis / Cook (Branch VI - X) / Inman (Branch I - V) Night Ops: Operations Section Chief: Blankenheim / Spykerman (Branch VI - X) / Hale (Branch I - V) Branch Director: C. Trindade Division/Group Supervisor: N. Gorham St. Resources Assigned: ** Resources Below in Bold are 12 Hour ** Resource Identifier Leader Personnel Request # FEMP GRAFTON 0-215 Grafton, Christopher M 1 0-215 0700-0700 DP 6-4	1. Incident Name:		2. Operationa	l Period:			3.			
1. Operations Personnel: Davis / Cook (Branch VI - X) / Inman (Branch II - V) Night Ops: Operations Section Chief: Blankenheim / Spykerman (Branch VI - X) / Hale (Branch II - V) Night Ops: November Page 2 of 2	Woolsey		Date From:	11/13/18	Date To:	11/14/18	}			
Dayls Cook (Branch N - X) Imman (Branch I - V) Night Ops: Div/Group: N			Time From:	0700	Time To:	0700	Branch:	VI		
Operations Section Chief: Blankenheim / Spykerman (Branch VI - X) / Hale (Branch I - V) Branch Director: C. Trindade Division/Group Supervisor: N. Gorbam Page 2 of 2	4. Operations Personnel:		· · · · · · · · · · · · · · · · · · ·				7			
Branch Director: C. Trindade Division/Group Supervisor: N. Gorham Page 2 of 2	-	Davis /	Cook (Branch VI -	X) / Inman (E	Branch I - V)	Night Ops:	Div/Group:	N		
Division/Group Supervisor: N. Gorham Page 2 of 2	Operations Section Chief:	Blanker	nheim / Spykerma	n (Branch VI	- X) / Hale (B	ranch I - V)	1			
Resources Assigned: "Resources Below in Bold are 12 Hour " Reguest # Resources (Acquires) Resources (Acquire	Branch Director:	C, Trino	lade							
Resource Identifier Leader Personnel Request # Time Location Control Time Location Control Contr	Division/Group Supervisor:	N. Gort					<u> </u>	. <u> </u>		
Resource Identifier	5. Resources Assigned:		** Resources	Below in Bo	ld are 12 Hou	(L **	Reporting Location	on, Special Equipment, and Information		
### Act To Communications Radio information needed for this assignment:	Resource Identifier		Lead	ler	Personnel					
6. Work Assignments: Structure defense and perimeter control. Perform Tactical Patrol around structures. Maintain positive interaction with the public and assist as needed. 7. Special Instructions: 8. Communications Radio information needed for this assignment: Name Ch Function Rx Freq Rx Tone Tx Freq Tx Tone Notes VNC CB 1 COMMAND 155.9850N 186.2 154.7250N 186.2 VENTURA CO CMD 8 CDF T30 7 TACTICAL 151.3925N 192.8 151.3925N 192.8 NRTO GROUND TAC CDF T16 14 A/G TAC 159.2850 192.8 159.2850 192.8 AIRTO GROUND TAC CALCORD 15 MEDICAL 156.0750N 156.7 156.0750N 156.7 MEDICAL COORDINATION AIR GUARD 16 EMERGENCY 188.6250N 188.2 Signature: Vood / McCarroll / Padilla Pos/Telle: RESL Signature: Signature: Signature: Personne Count: 2	FEMP GRAFTON 0-215		Grafton, Chr	istopher M	1	O-215	0700-0700	DP 6-4		
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Perform Tactical Patrol around structures.	6. Work Assignments:									
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### 7. Special Instructions: 8. Communications	Mop up 300' in from control I	ine.								
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VNC C8			nformation needed							
CDF T30 7 TACTICAL 151.3925N 192.8 151.3925N 192.8 CDF T16	Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes		
CDF T16 14 A/G TAC 159.2850 192.8 159,2850 192.8 AR TO GROUND TAC CALCORD 15 MEDICAL 156.0750N 156.7 156.0750N 156.7 MEDICAL COORDINATION AIR GUARD 16 EMERGENCY 168.6250N 168.6250N 110.9 EMERGENCY-TONE 1 9. Prepared by: Name: Padilla Pos/Title: RESL Signature: Signature: 2	VNC C8	1	COMMAND	155,9850N	186.2	154.7250N	186.2	VENTURA CO CMD 8		
CALCORD 15 MEDICAL 156.0750N 156.7 156.0750N 156.7 MEDICAL COORDINATION AIR GUARD 16 EMERGENCY 168.6250N 168.6250N 110.9 EMERGENCY-TONE 1 9. Prepared by: Name: Padilla Pos/Title: RESL Signature: Personnel Count: 2	CDF T30	7	TACTICAL	151.3925N	192.8	151.3925N	192.8			
AIR GUARD 16 EMERGENCY 168.6250N 168.6250N 110.9 EMERGENCY-TONE 1 9. Prepared by: Name: Padilla Pos/Title: RESL Signature: Personnel Count: 2	CDF T16	14	A/G TAC	159.2850	192.8	159,2850	192.8	AIR TO GROUND TAC		
9. Prepared by: Name: Padilia Pos/Title: RESL Signature: ICS 204 Date/Time: 11/12/2018 2200 Personnel Count: 2	CALCORD	15	MEDICAL	156.0750N	156.7	156,0750N	156.7	MEDICAL COORDINATION		
9. Prepared by: Name: Padilia Pos/Title: RESL Signature: Personnel Count: 2	AIR GUARD	16	EMERGENCY	168.6250N		168.6250N	110.9	EMERGENCY - YONE 1		
Signature: Personnel Count: 2						7, 180	11			
ICS 204 Date/Time: 11/12/2018 2200 Personnel Count: 2	9. Prepared by: Name:	Padilla		Pos/Title:	RESL		-/X			
							7			
		: 11/12/2	2018 2200			F	ersonne Coun	t: 2		

1. Incident Name:	1. Incident Name: 2. Op					3.	
Woolsey		Date From:	11/13/18	Date To:	11/14/18		
		Time From:	0700	Time To:	0700	Branch:	VI
4. Operations Personnel:		,				1	1
	Davis /	Cook (Branch VI -	X) / Inman	(Branch I - V)	Night Ops:	Div/Group:	P
Operations Section Chief:			n (Branch 🌡	/I - X) / Hale (B	ranch t - V)		İ
Branch Director:							Papa
Division/Group Supervisor:	D, Carn			·			Page 1 of 1
5. Resources Assigned:		· · · · · · · · · · · · · · · · · · ·		old are 12 Hou	ir **	Reporting Locals Remarks, Notes,	on, Special Equipment, and Information
Resource Identifier		Lead		Personnel	Request#	Time	Location
STA OES 1810A		Hallett,	Scott	22	E-26	0700-0700	DP 7-2
STC BDU 9350C				<u> </u>		0700-1900	DP 7-2
STF LAC 1145F		Pryor, W		16	E-231	0700-0700	DP 7-2
T/F WOOLSEY #3		Soule,		21	E-9046	0700-1900	DP 7-2
STG SLU 9344G (CCC)		Ornelas, I	Enrique	33	C-2	0700-0700	DP 7-2
STG LAC 1179G		Litz, Kr		33	C-15	0700-1900	DP 7-2
STG BDU 9358G		Escandel, N		33	C-10	0700-1900	DP 7-2
CRW STF 28		Steff, J	errod	20	C-48	0700-1900	DP 7-2
DOZ E-363 PVT BOHNA RAI	NCH	Burton,	Herb	2	E-363	0700-0700	DP 7-2
DOZ E-369 PVT SIERRA GE	N	Hauber,	Chase	2	E-369	0700-0700	DP 7-2
SOFR CZAPINSKI O-232	remy Rober	-	O-232	0700-0700	DP 7-2		
FEMP BILLEAUDEAUX O-21	4	Billeaudeaux, .	Jeremy Eud	1	0-214	0700-0700	DP 7-2
FEMT HAGIE O-208	Hagie, Ty	ler Brian	1	O-208	0700-0700	DP 7-2	
				<u></u>	·	ļ	
				<u> </u>		 	
					- "	 	
6. Work Assignments:		<u> </u>		(.)		_1	
Construct and improve direct	control	line as needed					
Hold fire within current control		into do ricedes.					
Mop up 300' in from control li				į.			
Maintain positive interaction		nublic and seriet as	hahaan :				
7. Special Instructions:	VIST GIE	public at lu assist as	needed.	<u>. </u>			
7. Special instructions.							
]							
8. Communications	Radio I	nformation needed	for this assi	sment:			
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8	1	COMMAND	155.98501	186.2	154.7250N	186.2	VENTURA CO.CMD 8
CDF T30	7	TACTICAL	151.39251	192.8	151.3925N	192.8	
CDF T16	14	A/G TAC	159.2850	192.8	159.2850	192.8	AIR TO GROUND TAC
CALCORD	15	MEDICAL.	156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD 16 EMERGENCY 168.6250				li e	168.6250N	110.9	EMERGENCY - TONE 1
Wood / McCarroll /						N	
9. Prepared by: Name:	9. Prepared by: Name: Paditle Pos/Title:			RESL		$\propto 4$	
				كتنوين	Signature:		
ICS 204 Date/Time:	11/12/	2018 2200		¥		ersonnel Coun	
NIMS CAP				F.	C	ONTROL SER LINE	ASSISTED INCODULATION(BASIC

ASSIGNMENT LIST (ICS 204) CONTROLLED UNCLASSIFIED INFORMATION///BASIC

1. Incident Nan	ne:		2. Operations	al Period:		•	3.	-
	Woolsey		Date From:	11/13/18	Date To:	11/14/18		
			Time From:	0700	Time To:	0700	Branch:	VII / VIII
4. Operations	s Personnel:	•		•			1	
			Cook (Branch VI				Div/Group:	Q
Operations S	Section Chief:	Blanker	nheim / Spykerma	ın (Branch V	! - X) / Hale (B	Iranch I - V)		
	inch Director:		•					Quebec
		K. Van \	Wig / S. Gast (12-					Page 1 of 1
5. Resources A	_	<u> </u>			old are 12 Ho	· · · · · · · · · · · · · · · · · · ·	Reporting Location Remarks, Notes,	on, Special Equipment, and Information
Resource Identi		····	Lea		Personnel	Request #	Time	Location
STA XLF 1321/		J-112	Underwo		22	E-145	0700-0700	DP 7-6
STA XLC 1202/			Bagan, A		22	E-12	0700-0700	DP 7-6
STC VNC 9325			Leake,	 -	19	E-283	0700-0700	DP 7-6
CRW VNC C11			Myers		17	C-82	0700-1900	DP 7-6
CRW VNC C12			Cleary, N	licholas	19	C-83	0700-1900	DP 7-6
SOFR LAWSO			Lawson	, Blake	1	O-237	0700-0700	DP 7-6
FEMT GOLDIE			Goldie,	Nathan	1	O-375	0700-0700	DP 7-6
FEMT THOMPS	SON 0-376		Thompso	n, Keith	1	O-376	0700-0700	DP 7-6
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<u> </u>	·				<u></u>	ļ		
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			<u>L</u>					
6. Work Assign								
Construct and in			ne as needed,					
Mop up 300' in								
Maintain positiv	e interaction v	with the p	ublic and assist as	needed.				
7. Special Insti					***		···.	···
7. Special insti	ructions:							
:								
8. Communica	tions	Radio in	formation needed	for this assig	nment:			····
Name		Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8	···	1	COMMAND	155.9850N	186.2	154,7250N	186,2	VENTURA CO CMD 8
CDF T31		8	TACTICAL	159.3825N	192.8	159.3825N	192.8	TENTON OU CIND O
CDF T16		14	A/G TAC	159.2850	192.8	159.2850	192.8	AIR TO GROUPS TAS
CALCORD		15	MEDIÇAL	156.0750N	156.7	156.0750N	156.7	AIR TO GROUND TAC
AIR GUARD		16	EMERGENCY	168.6250N	······································	168.6250N	110.9	MEDICAL COORDINATION
	Wood / McCarroll /						1/	EMERGENCY - TONE 1
9. Prepared by	9. Prepared by: Name: Padilla Pos/Title: RESL						//	
Signature;							<u> </u>	7
ICS 204	Date/Time:	11/12/20	018 2200			Pe	rsomel Count;	102
HIMS IAP						03	NTROLLED UNCLA	SSIFIED INFORMATION//BASIC

1. Incident Name:		2. Operationa	if Period;			3.	
Woolsey		Date From:	11/13/18	Date To:	11/14/18		
		Time From:	0700	Time To:	0700	Branch:	VII / VIII
4. Operations Personnel:					<u> </u>	1	
Operations Section Chief:	Davis / Blanke	Cook (Branch VI - nheim / Spykerma	X) / Inman n (Branch)	(Branch I - V) /I - X) / Hale (B	Night Ops: ranch I - V)	Div/Group:	S
Branch Director:		•	1			İ	Sierra
Division/Group Supervisor:	K. Mcd		····	; 			Page 1 of 1
5. Resources Assigned:	<u> </u>		· · · · · · · · · · · · · · · · · · ·	old are 12 Hou	<u> 1r ** </u>	Reporting Locali Remarks, Notes	on, Special Equipment, , and information
Resource Identifier		Lead		Personnel	Request#	Time	Location
STA XLG 1363A		Winter,	· · · · · · · · · · · · · · · · · · ·	22	E-230	0700-0700	DP 7-6
STA ORC 1400A		Edwards	, Steve	21	E-23	0700-0700	DP 7-6
STA VNC 1582A		Preston, I	Daniel H	17	E-457	0700-0700	DP 7-6
T/F WOOLSEY #1		Picazo, F	Roberto	13	E-9041	0700-1900	DP 7-6
T/F WOOLSEY #4		Moe, Mat	tthew A	22	E-9044	0700-1900	DP 7-6
STG RRU 9314G		Dacanay, t	Michael A	33	C-11	0700-0700	DP 7-6
SOFR KLUSYK 0-115		Klusyk, M	lichael J	1	O-115	0700-0700	DP 7-6
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				<u> </u>		+	
				E	, <u></u> .		
	·			<u> </u>	<u> </u>	-	
	····						
6. Work Assignments:				eri Services			
Construct and improve direct	t control	line as needed.					
Mop up 300' in from control	line.			į			
Maintain positive interaction	with the	public and assist as	s needed.	د د د د د د د د د د د د د د د د د د د			
7. Special Instructions:							
8. Communications	Radio	information needed	for this assi	nment:			
Name	Ch	Function	Rx Freq	Pa	Tx Freq	Tx Tone	Notes
VNC C8	1	COMMAND	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 8
CDF T31	8	TACTICAL	159.3825N	192.8	159.3825N	192.8	
CDF T16	14	A/G TAC	159.2850	192.8	159.2850	192,8	AIR TO GROUND TAC
CALCORD	15	MEDICAL	156.0750N	1	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD	16	EMERGENCY	168.6250N		168.6250N	A 110.9	EMERGENCY - TONE 1
		/ McCarroll /	<u> </u>		1	//	
9, Prepared by: Name:	9. Prepared by: Name: Padilla Pos/Title:			RESL	•	$\angle \Delta b$	
			Signature:	<u> </u>			
	: 11/12/	2018 2200				ersonhet Coun	
HIMS IAP				V		יטעוד פטו'ז בה וואכיו	ACRIFICA INFORMATION/RASIC

CONTROLLED UNCLASSIFIED INFORMATION//BASIC

1. Incident Name:		2. Operationa	l Period:			3.	
Woolsey		Date From:	11/13/18	Date To:	11/14/18		
		Time From:	0700	Time To:	0700	Branch:	VII / VIII
4. Operations Personnel:		1,,,,,,		*		1	ļ
Operations Section Chief:	Davis / Blanker	Cook (Branch VI - nheim / Spykerma	X) / Inman (8 n (Branch VI	Branch I - V) - X) / Hale (E	Night Ops: Branch I - V)	Div/Group:	т
Branch Director:			•		•		Tango
Division/Group Supervisor:	R. De L	a Rosa				1	Page 1 of 1
5. Resources Assigned:		** Resources	Below in Bo	ld are 12 Ho	ur **	Reporting Location	on, Special Equipment,
Resource Identifier		Lead	ler	Personnel	Request#	Remarks, Notes, Time	Location
STA VNC 1584A		Williams, J	oseph D	21	E-491	0700-0700	DP 8-2
T/F WOOLSEY #5		Peterman,	Forrest	18	E-9045	0700-1900	DP 8-2
STG LAC 1181G		Riley, B	rian J	31	C-13	0700-1900	DP 8-2
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C 197 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		<u> </u>	<u></u>		<u> </u>		
6. Work Assignments:							ŀ
Hold fire within current control							
Mop up 300' in from control if							
Maintain positive interaction	with the	public and assist as	s naeded.				
7. Special Instructions:			·			V	
<u> </u>							
8. Communications	Radio i	nformation needed	for this assign	oment:			<u>.</u>
Name	Ch	Function			Tx Freq	Tx Tone	Notes
VNC C8	1	COMMAND	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 8
CDF T32	9	TACTICAL	151.2425N	192.8	151.2425N	192.8	V4(1)419100 01110 0
CDF T16	14	A/G TAC	159.2850	192.8	159.2850	192.8	AIR TO GROUND TAC
CALCORD	15	MEDICAL	156.0750N	156.7	156,0750N	156.7	MEDICAL COORDINATION
AIR GUARD	16	EMERGENCY	168.6250N		168.6250N	110.9	EMERGENCY - TONE 1
	<u> — </u>	/ McCarroll /	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1	A /	CHILINGETO - TORE I
9. Prepared by: Name:	Padilla		Pos/Title:	RESL		/V/	
					Signature:	7-4	
ICS 204 Date/Time	11/12/2	2018 2200			Р	ersonnel Coun	t: 70
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1. Incident Name:		2. Operation	al Period:			3.	-
Woolsey		Date From:	11/13/18	Date To:	11/14/18		
		Time From:	0700	Time To:	0700	Branch:	IX / X
4. Operations Personnel:		•		·	***************************************	1	
	Davis / Co	ook (Branch VI	- X) / Inman	(Branch I - V)	Night Ops:	Div/Group:	٧
Operations Section Chief;	Blankenh	eim / Spykerma	ın (Branch	VI - X) / Hale (Β	ranch (- V)		
Branch Director:	B. Reed (12-hour)					Victor
Division/Group Supervisor:	C. Lowe (12-hour) / J. En	neking (T)	<u> </u>			Page 1 of 1
5. Resources Assigned:		** Resources	Below in	old are 12 Hot	Jr **		on, Special Equipment,
Resource Identifier		Lea	der	Personnel	Request#	Remarks, Notes, Time	Location
T/F OES WA TF 6		Drake, i	Vathan	22	E-617	0700-1900	DP 9-4
CRW NAA Navajo Scouts 1		Billie,	Brian	20	C-130	0700-1900	DP 9-4
W/T VNC 40		Buckles, Ste	ven Edward	2	E-284	0700-0700	DP 9-4
W/T PVT E-345 GASSAWAY		Gassawa	y, Norm	2	E-345	0700-0700	DP 9-4
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				<u> </u>		<u> </u>	
6. Work Assignments:				· -			
Hold fire within current contro	•						
Map up 300' in from control li							
Fall hazard trees and trees th							
Maintain positive interaction v	with the put	blic and assist as	s needed.	<u> </u>			
7. Special Instructions:							
1							
8. Communications	Radio info	rmation needed	for this ass	rument:			
Name	Ch	Function		Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8	1	COMMAND	155.98501		154,7250N		†
CDF T34	10	TACTICAL.	151.4675N	[151,4675N	186.2	VENTURA CO CMD 8
CDF T16	14	A/G TAC	159.2850			192.8	
CALCORD	15	MEDICAL	156.0750	· · · · · · · · · · · · · · · · · · ·	159,2850	192.8	AIR TO GROUND TAC
AIR GUARD	 	MERGENCY	168.6250	. 	156,0750N	156.7	MEDICAL COORDINATION
/ COAND	Wood / M		100.02301	<u> </u>	168.6250N	110,9	EMERGENCY - TONE 1
9. Prepared by: Name:	Padilla	CCATON/	Pos/Title:	RESL		/X.	
					Signature:	//	_
ICS 204 Date/Time:	11/12/201	8 2200				ersonne Count:	46
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ASSIGNMENT LIST (ICS 204) CONTROLLED UNCLASSIFIED INFORMATION//BASIC

1. Incident Name:	2. Operation	al Period:			3.	
Woolsey	Date From:	11/13/18	Date To:	11/14/18	1	
	Time From:	0700	Time To:	0700	Branch:	IX / X
4. Operations Personnel:	<u> </u>					
Davis :	Cook (Branch VI	- X) / Inman (Branch I - V)	Night Ops:	Div/Group:	χ
Operations Section Chief: Blanke	nheim / Spykerma	aπ (Branch Vi	- X) / Hale (i	Branch I - V)	ļ.	
Branch Director: B, Ree						Х-гау
Division/Group Supervisor: S. Turi	ner (12-hour)				<u> </u>	Page 1 of 1
5. Resources Assigned:	** Resource:	Below in Bo	old are 12 Ho	ur **		on, Special Equipment, , and Information
Resource Identifier	Lea	der	Personnel	Request#	Time:	Location
T/F OES WA TF 2	Brown	ı, Jon	20	E-623	0700-1900	DP 10-4
		······································				
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6. Work Assignments:	—	j		·I	1	· · · · · · · · · · · · · · · · · · ·
Hold fire within current control line.						
Mop up 300' in from control line.						
Maintain positive interaction with the	public and assist a	s needed				
• • • • • • • • • • • • • • • • • • • •	p-and aria abailor ar	o noceed,				
7. Special Instructions:					,,,,,	
	· · · · · · · · · · · · · · · · · · ·					
8. Communications Radio	nformation needed	for this assign	ment:			
Name Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8 1	COMMAND	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 8
CDF T35 11	TACTICAL	159.3225N	192.8	159.3225N	192.8	
CDF T16 14	A/G TAC	159,2850	192.8	159.2850	192,8	AIR TO GROUND TAC
CALCORD 15	MEDICAL	156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD 16	EMERGENCY	168.6250N		168.6250N	110.9	EMERGENCY - TONE 1
	McCarrolf /	D			1/	
9. Prepared by: Name: Padilla		Pos/Title:	RESL		SI	
ICS 204	1040 0005			Signature:	*************************************	
ICS 204 Date/Time: 11/12/2	2018 2200			P(ersonriel Count	20

ASSIGNMENT LIST (ICS 204) CONTROLLED UNCLASSIFIED INFORMATION//BASIC

	2. Operations	l Period:			3.	· <u>- · · · · · · · · · · · · · · · · · · ·</u>
	Date From:	11/13/18	Date To:	11/14/18		
	Time From:	0700	Time To:	0700	Branch:	
						LA County
avis / Coo	k (Branch VI -	X) / Inman	(Branch I - V)	Night Ops:	Div/Group:	Woolsey
lankenhei	m / Spykerma	n (Branch	/I - X) / Hale (B	ranch I - V)		Support
. Martin (S		<u> </u>			Danage 1 4	Page 1 of 1
					Remarks, Notes,	and Information
	***	•	: 		Time	Location
	 		+			ICP
						ICP
	Brown,	Mike	16	E-80		ICP
						ICP
			.		0700-1900	ICP
			1		0700-1900	ICP
					0700-1900	ICP
	<u> </u>		v i		0700-1900	ICP
 					0700-1900	ICP
					0700-1900	ICP
					0700-1900	ICP
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h the publi	c and assist as	needed.	}			
Caratta to de		Can Hate				
				To Ex	T 270	B1. /
					 	Notes
<u> </u>	UMMMAND	152,5700	151.4	157,8300N	151.4	LA CO V4
	A/O TAO	450.0055	465.5	150 0000	405	
						AIR TO GROUND TAC
_						MEDICAL COORDINATION
		168.6250	1	168.6250N	110.9	EMERGENCY - TONE 1
	Jarroll /	Pos/Titler	RESI		M	
GOSIG		LOW LINE:	NEOL	Signature:	ZN _	
1/12/2018	2200	ļ			rendral Count	- 63
, 2010						ASSIFIED INFORMATION/BASIC
	adio information (S) adio information (S) adio information (S) adio information (S) adio information (S) adio information (S)	Date From: Time From: Time From: avis / Cook (Branch VI- ankenheim / Spykerma Martin (STA 1132A) ** Resources Leac infante, Fi Brown, M Brown, adio information needed Ch Function 2 COMMAND 14 A/G TAC 15 MEDICAL 16 EMERGENCY //ood / McCarroll /	Avis / Cook (Branch VI - X) / Inmanankenheim / Spykerman (Branch Martin (STA 1132A) ** Resources Below in Face of the second o	Date From: 11/13/18 Date To: Time From: 0700 Time To: avis / Cook (Branch VI - X) / Inman Ankenheim / Spykerman (Branch VI - X) / Hale (B Martin (STA 1132A) ** Resources Below in Bold are 12 Hould Leader Personnel Infante, Francisco 21 Brown, Mitchell C 26 Brown, Mike 16 Brown, Mike 16 ** Brown, Mike 16 ** Brown Mike 16 ** Brow	Date From: 11/13/18 Time To: 11/14/18 Time From: 0700 Time To: 0700	Date From: 11/13/18 Date To: 11/14/18 Time From: 0700 Time To: 0700 Branch: Div/Group: Div/Grou

22

ASSIGNMENT LIST (ICS 204) CONTROLLED UNCLASSIFIED INFORMATION/BASIC

1. Incident Name:		2. Operation	al Period:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		3.	
Woolsey		Date From:	11/13/18	Date To:	11/14/18	1	
·		Time From:	0700	Time To:	0700	Branch:	
4. Operations Personnel		<u> </u>	- 1			1	
Operations Section Chief	: Blanke	/ Cook (Branch VI enheim / Spykerm	- X) / Inman (an (Branch V	Branch I - V) I - X) / Hale (I	Night Ops: Branch I - V)	Div/Group:	Suppression Repair
Branch Director						1	
Division/Group Supervisor	:	·					Page 1 of 1
5. Resources Assigned:	<u> </u>	·····	s Below in Bo	old are 12 Ho	ur **	Reporting Local	ion, Special Equipment, , and Information
Resource Identifier		Lea	ider	Personnel	Request #	Time	Location
, , , , , , , , , , , , , , , , , , ,			T "1		<u> </u>		
<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		-	·				
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<u> </u>							· · · · · · · · · · · · · · · · · · ·
····							
			7-11-11-1			 	
6. Work Assignments:					<u> </u>	*	
Scout and identify suppresid	n repair	needs and areas					
7. Special Instructions:							
				····			
8. Communications		nformation needed		******			
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
·	#N/A				1		
	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
041.0000	#N/A						
CALCORD	15	MEDICAL	156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD	16	EMERGENCY	168.6250N		168.6250N	110.9	EMERGENCY - TONE 1
9. Prepared by: Name:	Wood / Padilla	McCarroll /	Pos/Title;	DECI		M_{i}	
	i dallid		ros/ (ille;	RESL	Stt	H	
ICS 204 Date/Time	• 11/19/5	2018 2200			Signature: 7	7	A
NIMS IAP	, 12./2	2.0 2200				ersonnel Count	: () ASSIFIED INFORMATION//BASIC

1. Incident Name:		2. Operation	al Period:			3.	
Woolsey		Date From:	11/13/18	Date To:	11/14/18		
		Time From:	0700	Time To:	0700	Branch:	
4. Operations Personnel	:		· ·"·.			1	
Operations Section Chief Branch Director	: Blanke :		- X) / Inman (an (Branch Vi	Branch I - V) - X) / Hale (B	Night Ops: Branch I - V)	Staging	Freedom
Division/Group Supervisor	J. Davi	s	,,,			L.	Page 1 of 1
5. Resources Assigned:	ŀ	** Resource:	Below in Bo	d are 12 Ho	ur **	Reporting Locati	on, Special Equipment, and Information
Resource Identifier		Lea	der	Personnel	Request#	Time	Location
STA XLE 1283A		Paintor		22		0700-1900	ICP
STC ANF 1617C		White,		22		0700-1900	ICP
STE OES WA ST 1		Dobson, A	nthony (T)	22	E-616	0700-1900	ICP
STE OES WA ST 2		Bortne	r, Jeff	21	E-615	0700-1900	ICP
T/F WOOLSEY #2		Roche,		14	E-9043	0700-1900	ICP
T/F OES UT TF1		Dern, I	Dustin	25	E-627	0700-1900	ICP
T/F OES UT TF2		Carriga	ı, Boyd	22	E-658	0700-1900	ICP
T/F OES UT TF3		Lafontaiı	ne, Ryan	22	E-625	0700-1900	ICP
T/F OES UT TF4		Sandova	ıl, Rudy	28	E-626	0700-1900	ICP
T/F OES MT TF1		Wai	sh	54	E-659	0700-1900	ICP
T/F OES MT TF4		Вгомг	ı, Jeff	13	E-662	0700-1900	ICP
T/F XYO 4281		Kinney,	Shawn	16	. E-88	0700-1900	ICP
STL RRU 9318L		Bennett, A	ndrew W	5	E-386	0700-1900	ICP
DOZ PVT E-361 WILBER		Emery,	Alton	2	E-361	0700-1900	ICP
DOZ PVT E-364 RESTAD		Restad,	Bruce	1	E-364	0700-1900	ICP
DOZ E-371 PVT KRISMAN'	ş	Krisma	ı, Tyler	2	E-371	0700-1900	ICP
DOZ E-380 PVT CHRISTIAI	٧	Christia	n, Brad	4	E-380	0700-1900	ICP
					,		
6. Work Assignments:							
Monitor command frequenci							
Maintain 3 minute response	time.						
7. Special Instructions:							
							•
8. Communications	Radio i	nformation needed	for this assigr	ment:			
Name	Ch	Function	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
VNC C8	1	COMMAND	155.9850N	186.2	154,7250N	186.2	VENTURA CO CMD 8
CDC T40	1						<u></u>
CALCORD	14	A/G TAC	159.2850	192.8	159,2850	192.8	AIR TO GROUND TAC
CALCORD	15	MEDICAL	156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
AIR GUARD	16	EMERGENCY	168.6250N		168.6250N	110.9	EMERGENCY - TONE 1
9. Prepared by: Name:	Padilla	McCarroll /	Pos/Title:	RESL	Signature: 5	N	
ICS 204 Date/Time:	11/12/2	018 2200			-	rsonnei Count:	205
имэ Гар				1		Courtes Count.	<u> </u>

	Al	R OPERAT	TIONS S	UMMAI	RY IC	S-220	· · . · · · · · · · · · · · · · · ·	l .	repared		te Prepara		Prepared By		
	-			,							Monday, November 12, 2018		Sean O'Hara Operational Period - Tim		
	Incident Na	ne / Number	7	1	Startup	1 '	Sunset	•	tdown		mai Perio		Opera	-	
	Woolsey /	CA-VNC-9102	3	624	654	1623	1653	1	723	Tuesday	November	13, 2018	<u> </u>	0700-070	00
Gene	rai Remarks	, Safety Notes	e, Hazarde,	Air Oper	ations Sp	oecial Equip	ment, etc.	Helibase	Information	TE	R Informat	ion	Resc	ue Ship inf	ormation
T	RACK ALL D	IPSITE LOCAT	TIONS / NUI	MBER OF	DIPS /	GALLONS T	AKEN.	Name	- Camarillo	Request #	A-92		1	Day Holst	Night Holes
TF	ACK ALL DR	OP LOCATIO	NS / NUMBE	ER OF DE	ROPS / G	ALLONS DR	OPPED	Latitude	34 12.27	Radius	:	NM	Name	VNC 6	VNC 8
All GPS	DATA TO BE	COLLECTED	N <u>DEGREE</u>	S. MINU	res, dec	IMAL MINU	<u>res</u> format.	Longitude	119 04.34	Altitude	5,500		Phone		
		tion of Retendant.						١		Centerpoint:	:	Lef	1	Bell 205++	Bell 205++
if Retardant	/ Foam / Agent i: Information: I	s Dropped Within Lat / Long, Estima	These Areas i sted Number o	immedialelj f Gallons a	y Notify the nd a Man D	AOBD and Pro Atalina The An	vide the Following sa.	Name		NOTALIS		Long	ž.	Camariko	Camerillo
		•			•	-		Latitude		NOTAMS:		4202 3.57 5 0	1	Procedure for Division/Bran	These Aircraft:
.	•	uccess Helibase fi					11	Longitude		http://tfr.fa			1 *	ical Plan For A	
		unset info has no	 				Update		2 if needed)	me		hone	-i	Inee	Phone
	uencies nmand	969 çomm plan	Tone		mm plen	Tone 186,2000	AM / FM	Position		O'Hera		148-2408			805-338-47
	D CDF T18	159.3450	192.8	d	.3450	192.8	FM	ASGS	·	Magene	d	200-2511	Jiac	- 1441	000-000-47.
	C CDF T18	159,2850	192.6		.2850	192.8	FM	HEBM		viatteoli		188-2460	 		
	/ictor/TFR	118.5750	<u> </u>	·	.5750		AM		<u> </u>	·,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				, , , , , , , , , , , , , , , , , , , 	
AIR 1	ACTICS	169.1500	1	169.	1500		FM								
Air/Ai	Briefing	125.1250		125.	1250		AM	HLCO	John	Zuniga		04-3464	I		·
	Secondary	125.6750			.8750		AM	HLCO	\$	onzelez		07-8642			
	OFC	123.0250		<u> </u>	0250	ļ	AM	ATGS	 -	AcGough		340-8155	 		
	ECK	163,1000	1		1000		FM	ATGS		laskins Albalaa		559-5233	 	· · ·- -	
	- MEDICAL Emergency Only	156.0760 168.6250	156.7		.0750 .6250	156.7	FM FM	MLO	Man	Aihalco.	805-6	10-1469	 		
avenies -	Emergency Cruy	100.0230	110.8	100.	.0230	L	LICOPTERS (U	to page 7 lf l	Mondad)		1		<u>.H</u>		
FAA#	Туре	Make/Model	Helibase	Avail	Start		marks	FAA#	Type	Make/Model	Helibase	Avail	Start	Rei	marks
746	7,700	S84F	Van Nuya	0730	0630	-	source, Tenk A-23	408	1,750	Bell 205++	Camarillo	0730	0830		VG, A-127
732	1	S64F	Camarillo	0730	0630		nk, A-58	5TK	H .	Bell 205++	Camarillo	0730	0630		et. A-59
2HT	i	CH54B	Camarillo	0730	0630		ık , A-69	3LK	11	Bell 205++	Camarillo	0730	0630	Buck	et, A-42
tcH	1	CH47	Camerillo	0730	0630	Tai	nk, A-90		Туре						
3CH	1	CH47	Camerillo	0730	0630	Buc	ket, A-91	407GH	IEI	Bell 407	Camarillo	0730	0630	HLCO, F	Recon, A-72
792	1	\$84	Camanilo	0730	0830		k, A-130	3\$H	III	206L	Camarillo	0730	0630		Recon, A-73
793	1	\$64	Camarific	0730	0630	<u>-</u> _	k, A-129	2BH	III .	206L	Camarillo	0730	0630		Rасол, A-74
XFT	 	Kmax	Camarillo	0730	0630		et, A-123	\$35	iii	Bell 407	Cemarillo	0730	0630	HLCO, R	econ, A-138
15LA 286	<u> </u>	S-70 UH-60	Barton Camarillo	0730 0730	0630 0630		ALS Hoist, A-184 ket, A-43			·	ļ · 				
200	Туре	017-00	Camanilo	0/30	บอลน	Buc	nei, M=40		<u>-</u>	 	··		 		
528	ј гуре	Bell 212HP	Camarillo	0730	0630	Tsin	k. A-132			 					
530	11	Bell 205++	Cemarific	0730	0630		k, A-124	 					<u> </u>		-
532	0	Bell 205++	Camerillo	0730	0630		k, A-131	······					†····		
VNC6	(!	8ell 205++	Camerillo	0730	0630	Tank, NVG,	ALS Hoist, A-139								
308	H	Bell 205++	Camadillo	0730	0630	Tank, h	IVG, A-136								
						FL	(ED WING (Use	Page 2 if No	eded)				,		
	 														_
FAA#	Туре	Make/Model	Base	Avail	Start	Remarks		FAA#	Type	Make/Model	Base	Avail	Start	Remarks	A
FAA # 500	Type Air Tactical Air Tactical	Make/Model OV-10 AC690	Base Hernet San Bernarding	730 800	5tart 630 700	Remarks		FAA#	Туре	Make/Model	Base	Avail	Start	Remarks	$\sqrt{-}$

1	1. Inci	dent Name:		2. Date/Time Prepared		3. Operation	nal Period:		
		Woolse	у	Date:	11/12/2018	Date From:	11/13/18	Date To:	11/14/18
		Incldent Cha	ınneis	Time:		Time From:		Time To:	
4	4. Con	nmunications	<u> </u>	And the second second				T	
L	Ch#	Function	Name	Assigned To	Rx Freq	Rx Tone	Tx Freq	Tx Tone	Notes
	1	COMMAND	VNC C8	BR I, VI, VII, VIII, IX, X	155.9850N	186.2	154.7250N	186.2	VENTURA CO CMD 8
	2	COMMAND	LAC V4	BR III, IV, V	152.5700N	151,4	157.8300N	151.4	LA CO V4
	3	TACTICAL	CDF T26	DIV A/B	159.2925N	192.8	159.2925N	192.8	
	4	TACTICAL	CDF T27	DIV C	159.3075N	192.8	159.3075N	192.8	
	5	TACTICAL	CDF T28	DIVF	151.1825N	192.8	151.1825N	192.8	
	6	TACTICAL	CDF T29	DIV J/M	151.3475N	192.8	151.3475N	192.8	
	7	TACTICAL	CDF T30	DIV N/P	151.3925N	192.8	151.3925N	192.8	
	8	TACTICAL	CDF T31	DIV Q/S	159.3825N	192.8	159.3825N	192.8	
	9	TACTICAL	CDF T32	DIV T	151.2425N	192,8	151.2425N	192.8	
	10	TACTICAL	CDF T34	DIVV	151.4675N	192.8	151.4675N	192.8	
	11	TACTICAL	CDF T35	DIV X	159.3225N	192.8	159.3225N	192.8	
	12	TACTICAL	VFIRE 23	SUPPRESSION	154.2950N	156.7	154.2950N	156.7	
	13	A/G CMD	CDF T18	ALL DIVS	159.3450N	192.8	159.3450N	192,8	AIR TO GROUND CMD
	14	A/G TAC	CDF T16	ALL DIVS	159.2850	192,8	159.2850	192.8	AIR TO GROUND TAC
	15	MEDICAL	CALCORD	ALL DIVS	156.0750N	156.7	156.0750N	156.7	MEDICAL COORDINATION
	16	EMERGENCY	AIR GUARD	ALL DIVS	168.6250N		168.6250N	110.9	EMERGENCY - TONE 1
	17					1			
	18								
L	19			<u> </u>					
	20	EMERGENCY	AIR GUARD	ALL DIVS	168.6250N		168.6250N	110.9	EMERGENCY - TONE 1
5	5. Spe	clal Instructio⊓s							
		quencies are ANA Unit Phone 805-		AND					
E	5. Prei	pared by (Commu	nications Unit Le	ader): Name: Ken Parker	•		Signature:	PL Pa	
						 			

MEDICAL PLAN 1. INCIDENT NAME 2. DATE 3. TIME 4. OPERATIONAL PERIOD PREPARED PREPARED WOOLSEY ICS 206 11/13-11/14, 0700-0700 11/12/2018 1700 INCIDENT 52 INCIDENT MEDICAL AID STATIONS MEDICAL AID STATIONS LOCATION **PARAMEDICS** YES MERT CDC SLEEPING AREA RN MOUNTAIN MEDICS NEAR MKU RN ₩ S. W. TRANSPORTATION A. AMBULANCE SERVICES NAME LOCATION **PHONE PARAMEDICS** YES NO AMR 496, 497, 499 PCH (BR VI), HWY 101 (BR III, VIII) COMMUNICATIONS B. AIR AMBULANCES NAME LOCATION PARAMEDICS YES NO VENTURA COPTER 6 (HOIST) CAMARILLO AIRPORT ALS 7. HOSPITALS NAME **ADDRESS** TRAVEL TIME PHONE HELIPAD **BURN CENTER** AIR GRND YES NO YES NO Los Robles Regional 215 W Janss Rd, Thousand Oaks 15 (805) 370-5901 X TRAUMA LEVEL 2 34° 12.477'N, 118° 52.960'W min min Ventura County Med ŧΟ 20 300 Hillmont Ave, Ventura (805) 652-6165 \mathbf{X} X min TRAUMA LEVEL 2 34° 16.635'N, 119° 15.211'W West Hills Hospital 7300 Medical Center Dr., West Hills 40 15 (818) 676-4999 X X TRAUMA LEVEL 2 min 34° 12.186'N, 118° 37.711'W UCLA Medical Center 757 Westwood Plaza Los Angeles 20 60 (310) 208-5387 х Х TRAUMA LEVEL I 34° 04.00'N, 118° 26,77'W min B: MEDICAL ÉMERGENCY PROCEDURES **EMERGENCY FREQUENCY:** "LINE EMERGENCY" INJURY REPORTING PROCEDURES Crew Supervisor will contact Division Supervisor with patient complaint/condition and location, CHIEF COMPLAINT Division/Group Supervisor contacts: LOCATION OF PATIENT Closest EMS resource 1. POINT OF CONTACT Communications Unit TRANSPORTATION REQUESTED BY: AIR GROUND Communications Unit contacts: POINT OF PICKUP Ground or Air ambulance as requested ì LAT Operations LONG 2. PATIENT UNIT 1D Safety Medical Unit IS AN EMT/P WITH PATIENT: YES Division Supervisor or designee will serve as point of contact and run medical emergency on assigned channel. SEX: MALE FEMALE A pre-assigned tactical frequency CALCORD should be used for IWI and only for duration of need. Communications Unit will clear commund channel for emergency ALL EMERGENCIES --- Secure the area traffic as needed and only for duration of need. **CAMP EMERGENCY:** and identify witnesses for later investigation. Contact Medical Unit with patient complaint/condition and location. Medical Staff will respond to stabilize incident: Keep an accurate log of events. Medical Unit contacts: 1. Communications 4. Operations Safety 2. Crew Supervisor **IN CAMP EMERGENCIES** Logistics 6. Comps/Claims 805-384-2339 9. PREPARED BY: (Medical Unit Leader)

10. REVIEWED BY: (Safety Officer)

DAN MCNAMARA (SRM)

ICS 206

JOSIAH STALEY (SJS)

WOOLSEY FIRE

CA-VN&-091023

FINANCE MESSAGE

Finance / Admin Section

- Finance Section is located on trailer row
- Please come by the Time Unit and start your and update your FC-33
- Vendors please drop off your agreements to the Time Unit
- Shift Tickets need to be completed by line supervisor, and turned in at the end of each shift
- All injuries need to be reported to the COMP / CLAIMS Unit
- All property Damage must be reported and documented
- Please report any Vehicle Damage, this includes Rental Vehicles
- Local Government please check in with OES
- Federal Time: Timekeeper on sité.
- OFF-SITE FEEDING IS NOT APPROVED
- Water usage report needs to be furned in daily to the COMP / CLAIMS Unit
- This fire is a under cost apportionment
 <u>ALL DIVS, OPBD, STAM NEED TO DEBRIEF WITH THE COST APPORTIONMENT TEAM DAILY.</u>

Cost apportionment is located on trailer row.

INCIDENT BILLING INFORMATION

<u>CAL FIRE - SAN LUIS OBISPO UNIT</u>

635 N. Santa Rosa

Index Code: 3013

E-fund Billing Code: 013815

WATER USAGE REPORT

•••	8/14/18 W				IV A	REQUEST #: _	E-23		
EN	NCY or VENDOR NAM	E:		RESOURCE ID:					
		CALI	IRE/AAA \	Water		_	WT51/C		
ſ		Open							
	WATER SOURCE LOCATION Address, DP #, Lat-Long, etc.	Hydrant	source i.e. pond	Tank	Gallons Used	Property Owner and C Number if known **	ontact		
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
		-							
			<u> </u>						
		-							
			ļ	<u> </u>					

The intent of this document is to track, record and validate the amount of water used on a incident. It is not intended to review the performance of equipment using the water on an incident.

Additional Information:



PUBLIC INFORMATION SECTION



Incident Information Line: (805) 465-6650 Incident Media Line: (805) 669-6015

Email Updates (sign up): www.tinyurl.com/2018woolsey

	STATUS	
Incident Start Date: 11/08/201	Incident Start Time: 2:30 PM	
Cause: Under Investigation	Acres:	
Containment:	Total Personnel:	

MEDIA – The California State Penal Code Section 409 5(d) allows the news media to enter scenes of disaster, riot or civil disturbance. Properly identified members of the news media should not be restricted from entering locations specified within the code. However, this does not include crime scenes, private properly and does not imply that the news media may interfere with incident operations while they are in the areas of concern. More information can be found https://example.com/here.



CAL FIRE SOCIAL MEDIA POLICY – When assigned to a CAL FIRE incident, you will adhere to the CAL FIRE Social Media Policy, Section 0691. You can find further information about the CAL FIRE Social Media Policy here.



PHOTOGRAPHS AND VIDEOS OF INCIDENT – We are in a new era of media. Media no longer means news/broadcast industry, but now refers to anyone that has the capability to shoot video, photographs and post them onto social media sites in a matter of minutes. Unfortunately, we have seen some instances of photographs or videos that have depicted unsafe, unprofessional or embarrassing circumstances which are a serious breach of ethics. When this happens, it reflects poorly on all that are attached to this incident. Posting an inappropriate video, photo or blog comment could expose oneself to unwanted ramifications. It may be unsafe to shoot photos or video and a firefighter who is concentrating on a camera loses their situational awareness.

The Public Information Office would like copies of the video and pictures that you safely took while not in an emergency situation, fire suppression activity or in an overhead assignment. Bring your video and pictures to the Public Information trailer; they will be reviewed and possibly uploaded to our many CAL FIRE social media sites. Remember, we don't want photographs or videos that depict unsafe, unprofessional or embarrassing circumstances, which are a serious breach of ethics.

LOST AND FOUND — The Information Section will manage lost and found items for the incident. If you have lost an item please leave your contact information and what you have lost at the Information Section. If you have found an item on the incident, bring the item to the Information Section with your contact information as well. All items left in Lost and Found will be turned over to the local CAL FIRE San Luis Obispo Unit.

MAIL SERVICE – The Information Section will assist you in getting items mailed from the incident as well as receiving items whether it is letters or packages.

TRAINING SPECIALIST MESSAGE

Trainees who have not previously checked in with the TNSP should do so immediately.

Beat the Rush!!

Trainer / Evaluators: If as much work as possible has been completed in the position task book, you are strongly encouraged to take advantage of your time in camp and conduct the training close-out with the TNSP. It is not necessary to wait until demob!

The Training Specialist is available immediately following the morning Operations Briefing. Location: Next to the copy trailer

> TRAINING SPECIALIST Cory Cisneros 909.644.6379 Claudia Soiza 949.632.7813 Jon Garber (t) 909.499.6863 Danielle McMillion (t) 310.951.2136

Incident Trainee/Trainer Data Form

Training Specialists: Cory Cisneros 909.644.6379

Danielle McMillon (t) 310.951.2136 Jon Garber (t) 909.499.6863

Claudia Soiza 949.632.7813

All Incident trainees, including those on Firefighting Modules at your earliest opportunity complete this form and see the Training Specialist.

Prior to or as you process through DEMOB, remember to close your training package. To close your training package bring: 1) A performance rating from your trainer. (ICS 225)

2) Your task book that has as many entries as possible by your Trainer.

Trainee Data					
Trainee Name:	ICS Tra	nee Position:			
Request # (A,C,E, or O):	Agency Designate	r (MACS ID Ex. CA	\-ANF):		
Ordered as Trainee? Y N	Regional Pri	ority Trainee	_Local Forest	Trainee _	IMT Trainee
Date Assigned:	_ Cell / Contact # Wh	ile on Incident:			
Training Records Mailed To: (Fire	Chief, Training Offic	<u>er):</u>			
Name:	Tit	: E			
Name of Agency/Unit:		·.,*			
Agency/Unit Address:				·····	
City: State:	Zip Code: _	Phone: _			
Trainee Prerequisites					
1. Possesses valid Red Card or agence	y certification card?			YesN	lo
2. Trainee has current position task bo	ok issued by home u	nit?		YesN	lo
Current Task Book Progress (Circle)	0% 25% 50	% 75% 90%			
Priority Open Task in PTB (What do yo	ou need to accomplis	on this incident?)			
Trainer/Evaluator Data					
Trainer / Evaluator Name:		ICS position	on fire:		
Home Unit:	Agency Desig	nator (Ex. CA-ANI	F):	_ Reques	t#
Work Address:					
City:		State:	Zip Code:_		
Cell / Contact While on Incident:					

Peer Support

We may not recognize it now, but we are all part of an incident that may potentially have a lasting impact.

We are local, state and federal fire agencies, law enforcement, EMS, private contractors, public utilities and military working together for a common mission.

There are many kinds of trauma, grief and losses present in these incidents, and these factors may potentially have an impact on us, no matter who you are or what your background. These include:

- Successive large scale incidents.
- Local first responders who are personally impacted by the events.
- Incidents with national exposure, political implications and high media presence.
- Evacuations and rescues in high intensity environments.
- Destruction of residences, commercial buildings, critical infrastructure and community landmarks.
- Repopulation and the anguish we witness from the community.
- Providing emotional support for the community and each other.
- The time spent away from our families with the holidays approaching.

We all need to stick together, take care of ourselves and each other. We know how to watch out for each other on the fire line for our physical safety. The same is necessary for our emotional and psychological safety.

Come by the Peer Support trailer, we are on the grass adjacent to the briefing area.

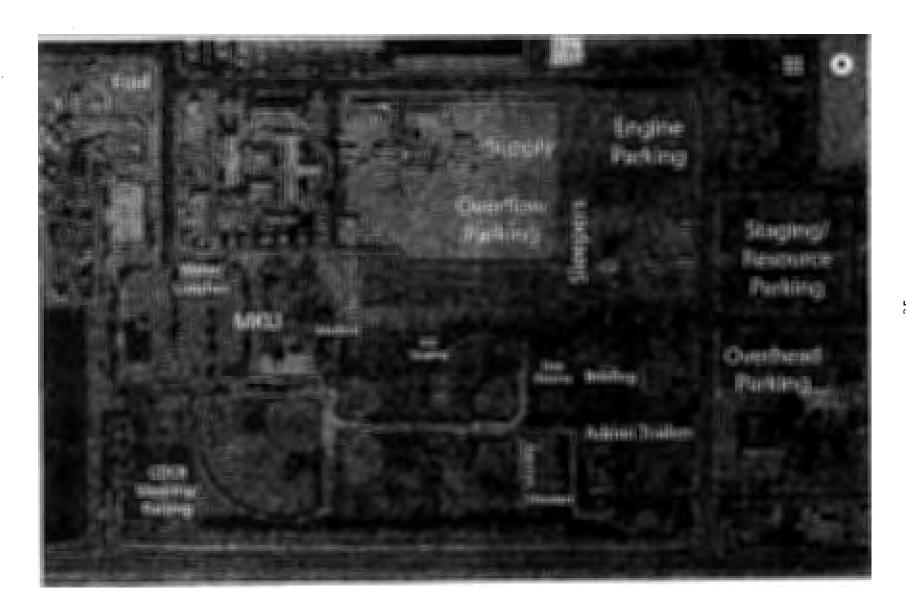
TUESDAY NOVEMBER 13, 2018 TENTATIVE RELEASE WOOLSEY FIRE

Req#	Name	Report To Demob
E-543	ENG LAC 132	11/13/2018
E-489	PICKUP - 4X4 3/4 TON - JOSH MOORE ENTERPRIZE	11/13/2018
E-475	MOBILE LAUNDRY - T1 - EXCEPTIONAL FIRE SERVICES	11/13/2018
O-75	Cooper, David	11/13/2018
O-78	Holguin, Eddie	11/13/2018
O-64	Atwood, Richard A	11/13/2018
O-99	Wight, Travis J	11/13/2018
O-62	Weise, Richard R	11/13/2018
O-63	Chapin, Ryan	11/13/2018
O-46	Enriquez, Jim V	11/13/2018
O-19	Reed, James A	11/13/2018
O-98	Grunbaum, Grant R	11/13/2018
E-70	STA LAC 1111A	11/13/2018 0700
E-71	STA LAC 1119A	11/13/2018 0715
E-76	STA LAC 1135A	11/13/2018 0730
E-77	STA LAC 1136A	11/13/2018 0745
E-78	STA LAC 1137A	11/13/2018 0800
E-79	STA LAC 1138A	11/13/2018 0815
E-117	STA LAC 1107A	11/13/2018 0830
E-290	STA LAC 1140A	11/13/2018 0845
E-218	STL VNC 1592L	11/13/2018 0900
E-503	STA VNC 1587A	11/13/2018 0915
E-16	W/T LAC 128	11/13/2018 0910
E-528	STA XVE 1553A	11/13/2018 0920
E-536	STA XVE 1554A	11/13/2018 0930
C-131	CRW SCA San Carlos T2IA Crew #1	11/13/2018 0930

TENTATIVE RELEASE HILL FIRE

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111 72	§ ! 17/3/2018



1. Incident Name: 2.		2. Operational Period:	. Operational Period: Date From: Date To: Time From: Time To:		
3. Name: 4. IC		ICS Position:	5. Home Age	ncy (and Unit):	
Date/Time	Notable Activities				
	 				
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8 Prepared by	Name:	Position/Title:	Ci	D'	
o. Frepared by:	Name:			e:	
105 Z14, Page 2	of	Date/Time:			

ACTIVITY LOG (ICS 214)

1. Incident Name: 2		2. Operation	nal Period: Date From: Date To: Time From: Time To:		
3. Name: 4. IC		S Position:		5. Home Agency (and Unit):	
6. Resources Assig	gned:				1
Name			ICS P	osition	Home Agency (and Unit)
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7. Activity Log:					
Date/Time	Notable Activities				
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8. Prepared by: Na ICS 214, Page 1 of			Position/Tit	*	Signature:

Section 11

Remaining Materials/Equipment on site



DEPARTMENTS OF THE ARMY AND THE AIR FORCE 9TH CIVIL SUPPORT TEAM (WEAPONS OF MASS DESTRUCTION) 11302A INDEPENDENCE ROAD LOS ALAMITOS, CALIFORNIA 90720

NGCA-CST-S-OPS 14 November 2018

MEMORANDUM FOR: Incident Commander

SUBJECT: Remaining Material or Equipment Memo

1. Remaining HAZMAT material and other informational material providing hazard data is located on-site or in Close-Out Report, Section 9 Logistical Status Report.

SAMUEL H. CHO CPT, CA ARNG OPERATIONS OIC

Section 12

Incident Log



DEPARTMENTS OF THE ARMY AND THE AIR FORCE 9TH CIVIL SUPPORT TEAM (WEAPONS OF MASS DESTRUCTION) 11302A INDEPENDENCE ROAD LOS ALAMITOS, CALIFORNIA 90720

NGCA-CST-S-OPS

14 November 2018

MEMORANDUM FOR: Incident Commander

SUBJECT: Incident Action Log

1. Incident Action Log is located in Section 8 Situational Reports, under Operations.

SAMUEL H. CHO CPT, CA ARNG

OPERATIONS OIC

Section 13

CST and State Contact Information



DEPARTMENTS OF THE ARMY AND THE AIR FORCE 9TH CIVIL SUPPORT TEAM (WEAPONS OF MASS DESTRUCTION) 11302A INDEPENDENCE ROAD LOS ALAMITOS, CALIFORNIA 90720

NGCA-CST-S-OPS

11 November 2018

MEMORANDUM FOR RECORD; Incident Commander

SUBJECT: 9th Civil Support Team Contact Roster

1. Please find the information for contacting the 9th Civil Support Team listed below. For general information or help with the paperwork included in this report please use either CPT Cho or SFC Whitaker as the primary contacts.

Contact information list:

9th Civil Support Team 11302 Independence Rd.(BLDG 920) Los Alamitos, CA 90720

Lt. Col Neal P. Rodak Commander 562-254-8078

MAJ Shane A. Foss Deputy Commander 562-254-9022

CPT Samuel H. Cho Operations Officer 562-370-3798

SFC David Whitaker Operations NCO 562-254-9584

2. Questions regarding this memorandum can be directed to the undersigned at samuel.h.cho.mil@mail.mil or (562)-370-3798

SAMUEL H. CHO CPT, CA ARNG

Selde

OPERATIONS OFFICER

Section 14

Information regarding Follow-on Support

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DEPARTMENTS OF THE ARMY AND THE AIR FORCE 9TH CIVIL SUPPORT TEAM (WEAPONS OF MASS DESTRUCTION) 11302A INDEPENDENCE ROAD LOS ALAMITOS, CALIFORNIA 90720

NGCA-CST-S-OPS 14 November 2018

MEMORANDUM FOR RECORD: Incident Commander

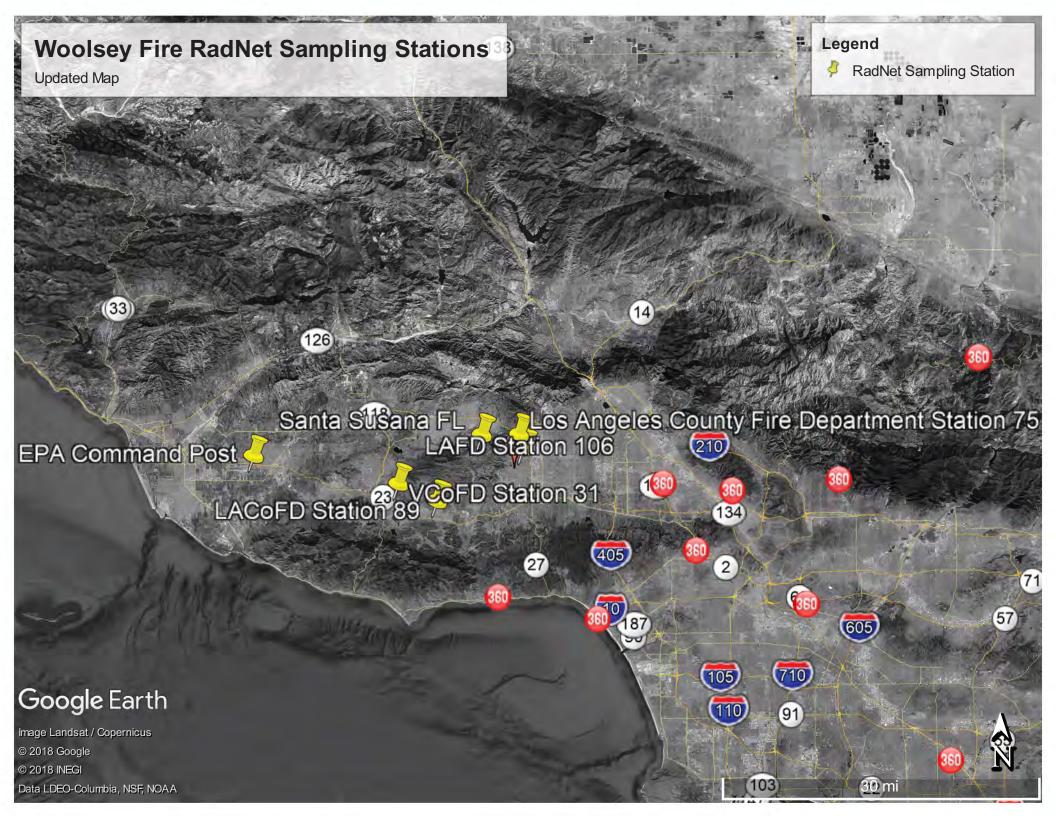
SUBJECT: No Follow On Support

- 1. No Follow on Support is requested for this event at this time.
- 2. Questions regarding this memorandum can be directed to the undersigned at Samuel.h.cho.mil@mail.mil or (562)-370-3798

SAMUÉL H. CHO CPT, CA ARNG

OPERATIONS OFFICER

Appendix E – U.S. Environmental Protection Agency RadNet



Appendix F – U.S. Department of Energy's Energy Technology Engineering Center SSFL Air Sampling Results and Short Reports

ETEC Air Sampling Interim Data November 10, 2018

Air monitoring results from DOE stations are normally produced and published on a quarterly basis. This short report provides some of the data generated since the last quarterly report, and prior to the fire event on November 8, 2018. There are two sets of air samplers in Area IV of Santa Susana. Set 1 consists of two air samplers near the DOE buildings. Set 2 consists of four samplers located at the perimeter of the DOE site. The attached map shows the location of the four stations in Set 2. Filters currently installed in the Set 2 stations, which were operational during the fire event on November 8, 2018, will be collected and analyzed once it is safe to return to Area IV. Data from all of the stations are provided in the table below.

The samples are analyzed on-site for gross alpha and gross beta radioactivity. The gross alpha and gross beta data sum the contribution from all alpha and beta-emitting radionuclides. Data for individual radionuclides is obtained by sending the samples to an off-site laboratory. This data is not yet available for this interim data. Because the data for individual radionuclides is not yet available, the results of the gross alpha and gross beta samples were compared to the individual radionuclides with the lowest environmental effluent limits as listed in the U.S. Nuclear Regulatory Commission's (USNRC) Standards for Protection from Radiation. The data was compared to the USNRC's effluent limits because they are independent from the U.S. Department of Energy. The gross alpha data was compared to the effluent limit for Pu-238 of 2E-14 uCi/ml, which is the lowest limit for all alpha-emitters potentially present at the ETEC site. The gross beta data was compared to the effluent limit for Sr-90 of 6E-12 uCi/ml, which is the lowest limit for all beta-emitters potentially present at the ETEC site. If a person inhaled air with a concentration equal to the environmental limits for a full 8760 hours in a year then the person would receive an internal radiation dose of 50 mrem.

The data from the Set 1 samplers from the month of October 2018 was less that 10% of the USNRC effluent limits for Pu-238 and Sr-90, except for one sample collected from Area 20 on October 3, 2018. This one sample was 13% of the Pu-238 effluent limit.

The data from the Set 2 samplers is for the month of June 2018. This is the latest data that has been fully validated and verified. Filters pulled since June will be counted on-site once conditions allow a return to the site. The data for the month of June is comparable to all previous months. This indicates that conditions are not changing and the data for June is likely representative of more recent data that has been collected but not yet published.

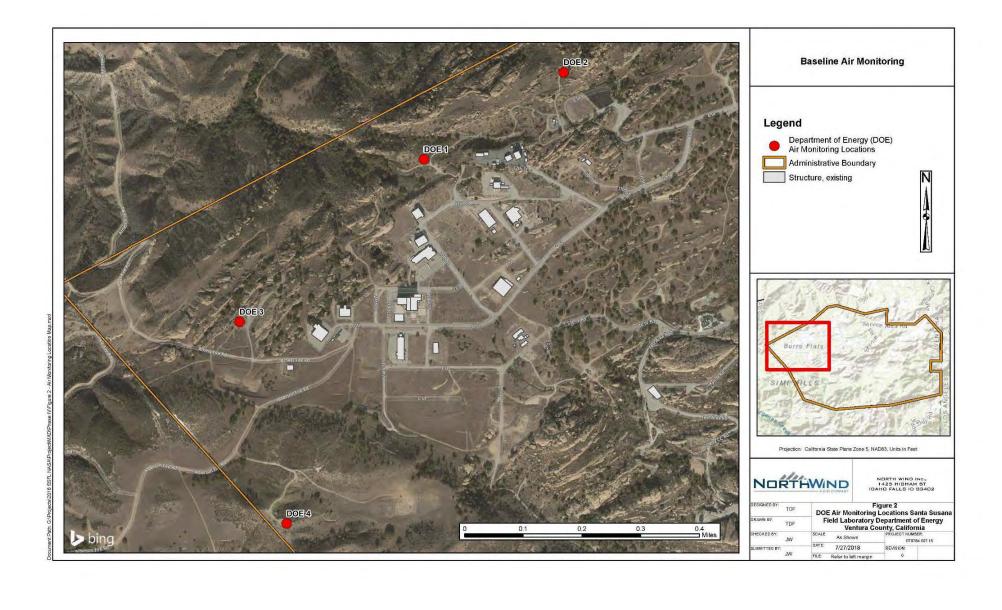
Data from Set 1 samplers is also comparable to data from Set 2 samplers. Thus, the data for both sets of samplers was averaged. The gross alpha data averaged 9% of the USNRC environmental effluent limit. The gross beta data averaged 0.3% of the USNRC environmental effluent limit. Note also that, while the actual sample results are provided in the table below, almost all sample results were less than the minimum detectable concentration.

If a person inhaled air for an entire year at the concentrations measured, if the gross alpha was 100% attributable to Pu-238, and if the gross beta was 100% attributable to Sr-90, this hypothetical individual would receive an internal radiation dose of less than 5 mrem. This hypothetical dose

can be compared to what people in the United States receive each year from natural background and medical sources of radiation of 620 mrem. The hypothetical maximum dose from airborne radioactivity measured at ETEC is less than 1% the dose from natural and medical sources of radiation.

Sampling Station	Date Collected	Gross Alpha Result uCi/ml)	Percent Pu- 238 USNRC Airborne Effluent Limit (%)	Gross Beta Result (uCi/ml)	Percent Sr- 90 USNRC Airborne Effluent Limit (%)			
		SET 1 SAMPLERS						
A3-RMHF	10/24/2018	8.53E-16	4.27E+00	2.08E-13	3.47E+00			
A3-Area 20	10/24/2018	1.02E-15	5.10E+00	2.49E-13	4.15E+00			
A3-A1ea 20	10/24/2018	1.06E-15	5.30E+00	1.08E-15	1.80E-02			
A3-Area 20	10/17/2018	-4.23E-15	-2.12E+01	-1.15E-13	-1.92E+00			
A3-RMHF	10/17/2018	5.19E-16	2.60E+00	-1.13L-13 -1.04E-13	-1.73E+00			
A3-Area 20	10/10/2018	6.75E-16	3.38E+00	4.89E-14	8.15E-01			
A3-RMHF	10/3/2018	1.56E-15	7.80E+00	8.61E-14	1.44E+00			
A3-Area 20	10/3/2018	2.60E-15	1.30E+01	1.47E-13	2.45E+00			
AJ-Alea 20	10/3/2018	SET 2 SA		1.471-13	2.431100			
DOE-1	6/4/2018	2.13083E-15	1.07E+01	1.07664E-14	1.79E-01			
DOE-1	6/7/2018	1.4202E-15	7.10E+00	9.54472E-15	1.59E-01			
DOE-1	6/11/2018	2.78971E-15	1.39E+01	1.38606E-14	2.31E-01			
DOE-1	6/14/2018	2.66955E-15	1.33E+01	1.21469E-14	2.02E-01			
DOE-1	6/18/2018	3.18779E-15	1.59E+01	7.644E-15	1.27E-01			
DOE-1	6/21/2018	2.83304E-15	1.42E+01	1.37973E-14	2.30E-01			
DOE-1	6/25/2018	2.27187E-15	1.14E+01	6.39316E-15	1.07E-01			
DOE-1	6/28/2018	2.12371E-15	1.06E+01	3.97459E-15	6.62E-02			
DOE-2	6/4/2018	-1.3558E-16	-6.78E-01	-2.12548E-14	-3.54E-01			
DOE-2	6/7/2018	2.1304E-15	1.07E+01	7.31399E-15	1.22E-01			
DOE-2	6/11/2018	2.11577E-15	1.06E+01	1.14379E-14	1.91E-01			
DOE-2	6/14/2018	2.30255E-15	1.15E+01	1.74203E-14	2.90E-01			
DOE-2	6/18/2018	9.22925E-16	4.61E+00	7.92916E-15	1.32E-01			
DOE-2	6/21/2018	1.41012E-15	7.05E+00	4.84636E-15	8.08E-02			
DOE-2	6/25/2018	1.72967E-15	8.65E+00	5.23129E-15	8.72E-02			
DOE-2	6/28/2018	5.29726E-16	2.65E+00	4.84275E-15	8.07E-02			
DOE-3	6/4/2018	2.93156E-15	1.47E+01	1.16546E-14	1.94E-01			
DOE-3	6/7/2018	2.06075E-15	1.03E+01	6.30137E-15	1.05E-01			
DOE-3	6/11/2018	3.2105E-15	1.61E+01	1.24008E-14	2.07E-01			
DOE-3	6/14/2018	2.80046E-15	1.40E+01	1.14741E-14	1.91E-01			
DOE-3	6/18/2018	1.39623E-15	6.98E+00	7.15962E-15	1.19E-01			
DOE-3	6/21/2018	2.04772E-15	1.02E+01	1.25945E-14	2.10E-01			
DOE-3	6/25/2018	1.40586E-15	7.03E+00	1.05546E-14	1.76E-01			
DOE-3	6/28/2018	3.72051E-15	1.86E+01	1.07353E-14	1.79E-01			
DOE-4	6/4/2018	2.85006E-15	1.43E+01	3.96748E-15	6.61E-02			
DOE-4	6/7/2018	2.00411E-15	1.00E+01	-1.74837E-16	-2.91E-03			
DOE-4	6/11/2018	2.43847E-15	1.22E+01	1.2019E-14 2.00E-01				
DOE-4	6/14/2018	3.99734E-15	2.00E+01	1.07987E-14	1.80E-01			
DOE-4	6/18/2018	8.13051E-16	4.07E+00	8.18378E-15	1.36E-01			

Sampling	Date	Gross Alpha	Percent Pu-	Gross Beta	Percent Sr-	
Station	Collected	Result	238 USNRC Airborne	Result	90 USNRC Airborne	
		uCi/ml)	Airborne (uCi/ml) Effluent		Effluent	
			Limit (%)		Limit (%)	
DOE-4	6/21/2018	1.26653E-15	6.33E+00	1.17546E-14	1.96E-01	
DOE-4	6/25/2018	2.32433E-15	1.16E+01	5.27812E-15	8.80E-02	
DOE-4	6/28/2018	1.99366E-15	9.97E+00	5.45306E-15	9.09E-02	
		Average	8.97E+00	Average	3.24E-01	



ETEC Air Sampling Interim Data - Update November 21, 2018

This short report is an update to information provided on November 10, 2018, related to the fire at Santa Susana on November 8, 2018. There are two sets of air samplers in Area IV of Santa Susana. Set 1 consists of two air samplers near the DOE buildings. Set 2 consists of four samplers located at the perimeter of the DOE site.

Filters from Set 1 air samplers near the DOE buildings (A2-Area 20 and A3-RMHF) were collected and analyzed by gross alpha, gross beta, and gamma spectroscopy. The sample collection start date was November 7, 2018 and the stop date was November 9, 2018. The samplers were not running when the filters were retrieved on November 9, 2018, but they were running for the majority of the time the fire was progressing through Area IV. All sample results were less than their analytical minimum detectable concentration (MDC). Full details regarding sample collection and results are provided in Table 1, below.

Air Sample Analytical Results

	All Sample Analytical Results							
Parameter	A2-Area	A2-Area 20		A3- RMHF				
Sample start date and time	11/7/2018	11/7/2018 13:30		11/7/2018 10:25				
Sample end date	11/9/2018	11/9/2018 08:05		11/9/2018 08:05				
Total sample run time (min.)	1591	1591		1733				
Total volume of air collected (ml)	7,955,0	7,955,000		8,665,000				
Results (uCi/ml)								
	Concentration	MDC	Concentration	MDC				
Gross alpha concentration (uCi/ml)	0.00	5.84E-14	2.95E-15	5.24E-14				
Gross beta concentration (uCi/ml)	2.09E-13	1.60E-12	1.21E-13	1.43E-12				
Ac-228 (uCi/ml)	1.67E-12	3.80E-12	8.33E-13	3.85E-12				
Be-7 (uCi/ml)	-4.99E-12	1.77E-11	-3.81E-12	1.26E-11				
Cs-137 (uCi/ml)	5.83E-13	2.21E-12	0.00E+00	1.66E-12				
Co-60 (uCi/ml)	0.00E+00	8.80E-13	1.44E-13	1.26E-12				
Mn-54 (uCi/ml)	-2.06E-13	1.77E-12	-5.69E-13	1.53E-12				
K-40 (uCi/ml)	-1.40E-11	3.31E-11	-4.99E-12	1.81E-11				
Ra-226 (uCi/ml)	-1.32E-11	3.16E-11	-5.09E-12	2.49E-11				
Ra-228 (uCi/ml)	1.67E-12	3.80E-12	-8.33E-13	3.85E-12				