

# ANNIE FIRE

## Extended Incident Action Plan

August 22-24, 2011

0600-2000

### It's Going to Get Hotter and Drier

- Will Exceed Thresholds for High Fire Danger
  - Live Fuel Moisture of 100% Means Extreme Fire Behavior per Modoc NF Fire OPS Guide
  - Temperature and RH values will exceed Local Pocket Card Thresholds for High Fire Danger
- Engage any IA with Caution and a Good Size Up

### Mop-up and Patrol

- Watch for Fatigue and Complacency
  - Take a break and refocus on the task
- Use proper body mechanics to avoid injury
- Maintain LCES, be aware of light flashy fuels and any wind that may affect fire behavior

### Hydration

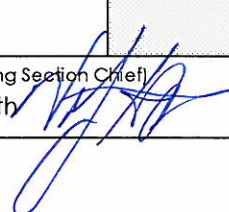
- With the heat and low RH maintaining proper hydration is difficult yet VERY important
- Consider drinking water and sports drink at a 2:1 ratio

CA-NOD-003546 PDGA46 (1502)

BLM Northern California District

Northern California Incident Management Team 1

<b>INCIDENT OBJECTIVES</b>		1. Incident Name	2. Date Prepared	3. Time Prepared	
ICS 202		<b>Annie Incident</b>	<b>08/21/2011</b>	<b>1700</b>	
4. Operational Period					
<b>8/22/11 thru 8/24/11 Day Shift 0600 – 2000</b>					
5. General Control Objectives for the Incident					
<p><b>Incident Objectives</b></p> <ol style="list-style-type: none"> <li>1. Provide for firefighter and public safety.</li> <li>2. Keep fire within the established perimeter.</li> <li>3. Conduct emergency suppression damage repair work as prescribed in the approved plan.</li> </ol>					
6. Weather Forecast for Period					
See attached spot weather forecast					
7. General Safety Message					
8. Attachments					
	Organization List-ICS 203		Air Ops Plan ICS-220	x	Fire Weather Forecast
x	Division Assignment List-ICS 204	x	Incident Map	x	Fire Behavior Forecast
	Communications Plan-ICS 205		Traffic Plan		Unit Log ICS-214
x	Medical Plan-ICS 206	x	Safety Message		Vicinity Map
9. Prepared by			10. Approved by (Incident Commander)		
Lance Noxon <i>Lance Noxon</i>			Paul Whitcome <i>Paul Whitcome</i>		

<b>DIVISION ASSIGNMENT LIST</b>				1. Branch		2. Division/Group	
3. Incident Name Annie Incident				4. Operational Period Date: 8/22 - 24 2011      Time: Day Shift 0600 - 2000			
5. Operations Personnel							
Incident Commander		Randy Scherr Jeremy Dietz (T)		Division/Group Supervisor			
Planning Ops				Air Attack Supervisor No.			
6. Resources Assigned this Period							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time		
MDF Engine 34	Brandon Wright	5	N	Per IC	Per IC		
NOC Crew 3266	Robert Preston	14	N	Per IC	Per IC		
Dig-It Excavator	John Guess	1	N	Per IC	Per IC		
READ	Peter Hall	1	N	Per IC	Per IC		
7. Control Operations							
Special Instructions:							
Function	Frequency RX	Frequency TX	Channel	Function	Frequency RX	Frequency TX	Channel
Command	171.6250	171.6250	3	Command Repeat	171.6250	164.2500	4
				Primary Tone 2 Secondary Tone 6			
Tactical Div/Group	168.3000	168.3000	5	Air to Ground	170.000	170.000	5
Prepared by (Resource Unit Leader) L. Charbonnier		Approved by (Planning Section Chief) Valery Lambeth 			Date 8/21/11		Time 1800

## Fire Weather Forecast

FORECAST NO: 03 LOCATION: Annie Fire  
PREDICTION FOR: Monday UNIT: BLM Northern Cal District  
SHIFT DATE: 8/22/11 SIGNED: Dennis D. Gettman  
TIME AND DATE  
FORECAST ISSUED: 8/21/11 1800  
*Dennis D. Gettman*  
Incident Meteorologist

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### WEATHER DISCUSSION:

An upper level ridge is building over the fire area today. The air mass is cooler and stable today. Temperatures are expected to be down 2-4 degrees but the humidity will be similar or even a little lower than Sunday. Warming and some drying will occur Tuesday and Wednesday as the upper level ridge strengthens over the region. By late Wednesday and Thursday moisture will increase aloft leading to a chance of isolated thunderstorms once again. Should thunderstorms develop later this week...they will be on the dry side. **Be on the lookout for gusty and erratic winds should thunderstorms develop.**

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### WEATHER FORECAST:

**WEATHER:** Sunny and a little cooler.

**CHANCE OF WETTING RAIN:** 0 percent

**LAL:** 1

**Temperatures/Relative Humidity:** Maximum temperatures 84-87 lower slopes and valley...79-83 upper slopes. Minimum relative humidity 9-13 percent.

**Eye-level Winds:** south to southeast 4-8 mph shifting to southwest to west 8-12 mph after 2 pm.

**Stability/Inversion:** Weak inversion below 6000 feet...lifting after 10 am with mixing heights to 15,000 feet in the afternoon.

**TONIGHT:** Clear overnight. Lows 49-53. Humidity recoveries 45-55 percent. Winds southwest to west 5-10 mph with gusts to 15 mph in the evening, decreasing to 2-6 mph after 10 pm.

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**OUTLOOK FOR NEXT SHIFT:** **Tuesday...**Sunny, warm and dry. High temperatures 88-92 lower slopes and valleys...84-87 upper slopes. Lowest humidity 8-12%. Light southeast to south winds in the morning...shifting to the west to southwest 6-12 mph in the afternoon.

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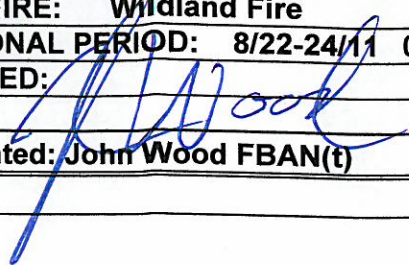
**EXTENDED FORECAST:** **Wednesday...**Sunny...turning partly cloudy in the afternoon. Slight chance of late afternoon and evening thunderstorms. High temperatures 89-93 lower slopes and valleys...86-89 upper slopes. Lowest humidity 9-13%. Light upslope winds in the morning...shifting to the west southwest 6-12 mph in the afternoon.

**Thursday...**Mostly sunny to partly cloudy with a chance of late day thunderstorms. High temperatures 85-88 lower slopes and valleys...80-84 upper slopes. Lowest humidity 12-17%. Light upslope winds in the morning...shifting to the west southwest 6-12 mph in the afternoon.

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Weather observations on or near the fire Sunday: Maximum Temperatures 86-90, Lowest Humidity 12-16%. Winds southeast to south 5-10 mph shifting to south to southwest 6-12 mph after 2 pm.

# FIRE BEHAVIOR FORECAST

FORECAST NUMBER:	TYPE OF FIRE: Wildland Fire
FIRE NAME: Annie Fire	OPERATIONAL PERIOD: 8/22-24/11 0600 - 2000
DATE ISSUED: 8/21/11	TIME ISSUED:
UNIT: Northern California BLM/ Modoc N.F.	SIGNED: 
	Typed/printed: John Wood FBAN(t)

## INPUTS

WEATHER SUMMARY: See attached fire wx forecast.

## OUTPUTS

### FIRE BEHAVIOR

#### GENERAL:

The weather over the fire area has begun to recover from the slight cooling effect of the low pressure trough that moved through. Fuels will respond quickly from the warming trend that is starting. If new starts occur fire behavior will be moderate under the forecast winds. Rate of spread of up to 25-84 ch/hr could occur in the grass and sage, with flame lengths up to 6-10 feet. The probability of ignition is calculated at 87%. On Tuesday and Wednesday potential fire behavior could increase with the increase with forecasted winds. Rates of Spread up to 66 ch/hr could occur, with Behave predictions showing potentially higher rates. Flame lengths will likely be near 4-6 feet, again with Behave showing greater outputs, at 9 to 15 feet and the probability of ignition is calculated at 87%.

Live fuel moistures in the sage brush remain at 100%. The 1 hr fuel moistures calculate a range of 3-7%.

Thunderstorm activity will present itself again starting Wednesday. Be aware of thunderstorm development and the possibility of winds associated with these storms. Wind can rapidly increase fire behavior.

Remember that fine fuels can change rapidly with conditions. Even if it rains cured grass can become available to burn quickly, this can be sped up by wind and/or a dry air mass.

**SPECIFIC: Annie Fire-** The chance for fire behavior inside the fire perimeter has been greatly reduced by the suppression effort, spotting presents the most significant problem on the fire. Where dust devils or thunderstorm winds interact with the fire area there is the possibility of lofting embers causing spotting.

**IA-** For resources responding during initial attack. In the grass fuel types with an increase in wind to 12 mph, rates of spread can reach 84 ch/hr on slopes near 30%; flame lengths can reach 10 feet on these same locations. Conifer stand fuels at the higher elevations will continue to resist aggressive burning. When starts happen in these fuels rates of spread may achieve 8 ch/hr and flame lengths will be 2 feet.

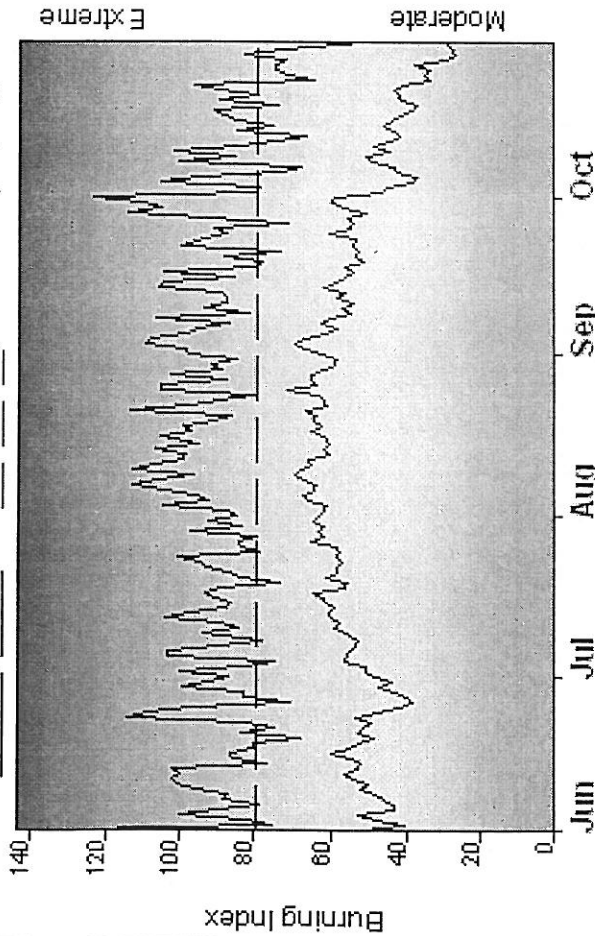
**AIR OPERATIONS:** Smoke should not be a problem for air operations.

## SAFETY

Know when fire behavior is going to challenge your suppression tactics and be flexible to alter tactics or strategy based on current and expected fire behavior. If fire behavior will exceed the line production capability of your organization and you have ordered additional resources, seek opportunities to positively affect the suppression effort and build a plan for what you have ordered.

## FIRE DANGER -- (Fire Danger Area)

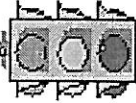
Maximum, Average, and 90th Percentile, based on 20 years data



## Fire Danger Area:

- ◆ FDRAs 258, 260, 265
- ◆ 100% Zones 270, 278, 285, 458
- ◆ Westside SIG
- \* Meets NWCG 100x Station Standards

## Fire Danger Interpretation:



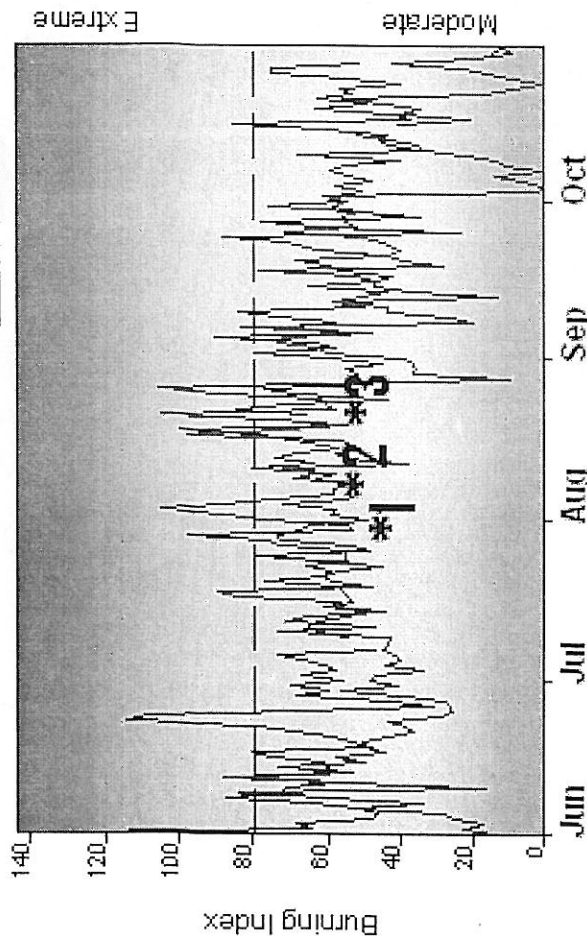
- EXTREME -- Use extreme caution
- (Caution) -- Watch for change
- Moderate -- Lower Potential, but always be aware

Maximum -- Highest Burning Index by day for 1991 - 2010

Average -- shows peak fire season over 20 years (3043 observations) 90th Percentile -- Only 10% of the 3043 days from 1991 - 2010 had an Burning Index above 79

**Local Thresholds - Watch out:** Combinations of any of these factors can greatly increase fire behavior:  
 20' Wind Speed over 10 mph, RH less than 25%,  
 Temperature over 80

## Years to Remember: 2001 2010




## Fuel Model: T - Sagebrush-Grass

- Past Experience:**
- Fire #1 McDONALD Fire, lightning started on July 26, 2010 and burned 9,408 acres on the Aturas Field Office.
  - Fire #2 OBSERVATION Fire, lightning fire started on August 9, 2001 and burned 67,792 acres on the Eagle Lake Field Office.
  - Fire #3 BARREL Fire, lightning fire started on August 22, 2005 and burned 24,370 acres on the Surprise Field Office.

Responsible Agency: BLM NorCal  
 FF+4.0.2.05/31/2014-13:33 (C:\Program Files\FireFamilyPlus 4\PC11)

Design by NWCG Fire Danger Working Team

<b>MEDICAL PLAN</b>	1. Incident Name	2. Date Prepared	3. Time Prepared	4. Operational Period				
	<b>Annie Fire</b>	08/21/11	1300	8/22/11- 8/24/11				
<b>5. Incident Medical Aid Station</b>								
Medical Aid Stations		Location			Paramedics			
					Yes No			
<b>6. Transportation</b>								
<b>AIR Resources</b>								
Name	Address		Phone		Paramedics			
					Yes No			
Mountain LifeFlight (Day/Night)	710 Ash St., Susanville, CA 96130		911 or 530-251-2844		RN			
Emergency Air Lift (Day only)	2901 Airport Wy., Klamath Falls, OR		911 or 800-804-4911*		RN			
REACH (Night Vision )	1100 Butte Rd, Redding, CA		911 or 800-338-4045		RN			
Care Flight (Night Vision)	450 Edison Wy, Reno, NV 89502		911 or 800-648-4888		RN			
CHP (Hoist 165' line)	Benton Airfield, Redding, CA		911 or 530-225-2040		X			
Cal-Fire Bieber 202(Short haul)	510 Bridge St Beiber, CA 96009		911 or 530-257-5575				X	
<b>Ground Ambulance Services</b>								
Name	Location			Paramedics				
				Yes No				
Modoc Co. Ambulance	Cedarville & Alturas, CA (Ph : 911 or 530-233-4410)			X				
Lake Co. Ambulance	Lakeview, OR (Ph: 911 or 541-947-2504)			X				
<b>7. Hospitals</b>								
Name	Address		Travel Time		Helipad		Burn Center	
			Air Ground		Yes No		Yes No	
Surprise Valley Hospital	741 N Main St.Cedarville, CA		10 min. 45 min.		X		X	
Modoc Medical Center	228 McDowell, Alturas CA N41°28.48/ W120°32.42		15 min. 1:10 min.		X		X	
Lake Dist. Hospital	700 S J St. Lakeview, OR N42°10.88 / W120°21.12		12 min. 60 min.		X		X	
Renown Medical Center. Level II	1155 Mill St.,Reno, NV N39°31.34 / W119°47.45		1 hr. 4 hr.		X		X	
Mercy Med Center Level 2 Trauma	2175 Rosaline Ave, Redding N 40° 34.29' / W 122° 23.67'		1 hr. 4 hr		X		X	
UC Davis Level I Trauma/Burn Cntr.	2315 Stockton Blvd. Sacramento N38°33.17 / W121°27.05		1:45 min. 7 hrs.		X		X	
<b>8. Medical Emergency Procedures</b>								
<input type="checkbox"/> Contact SIFC and declare an emergency or dial 911 advising of your location and situation <input type="checkbox"/> The closest supervisor will respond to the location to take control and direct necessary actions <input type="checkbox"/> The closest available EMTs and/or First Responders will respond to the location to assist with patient care <input type="checkbox"/> Use the attached Injury/Incident Communications Work sheet to coordinate appropriate care and transportation <input type="checkbox"/> Secure the scene area and identify witnesses for later investigation – Keep a log								
Prepared by (Medical Unit Leader)					10. Reviewed by (Safety Officer)			
Josh Ramey MEDL 530-277-1213					Rich Rubin SOF2 			

# Injury or Incident Communications Protocol

Location \_\_\_\_\_

Situation \_\_\_\_\_

Any special equipment required \_\_\_\_\_

Number of injured \_\_\_\_\_ Type of injuries \_\_\_\_\_

Immediate transport required: Yes No Best method: Ambulance Helicopter Vehicle

Closest pick up point (DP, Helispot) \_\_\_\_\_

LOC \_\_\_\_\_ Resp. \_\_\_\_\_ Pulse \_\_\_\_\_ BP \_\_\_\_\_ Weight \_\_\_\_\_

Injury \_\_\_\_\_

Medical History/Allergies \_\_\_\_\_

**Air Transportation Triage      Contact EMS Helicopters on CALCORD freq.**

	Air Ambulance	Ground Transport
<b>Mechanism</b>	Struck by tree Fall of 10' or more Snake bite with pain and swelling Insect bite with shortness of breath Signs of heat stroke (hot, dry, disoriented) Burn Injury greater than 1% body area	Cut or laceration with bleeding controlled Minor, non-poisonous bites and Stings Minor burns
<b>Area Injured</b>	Significant Blunt or Penetrating Trauma to Head, Neck, Chest, Abdomen or pelvis Any Arm or Leg fracture	Extremity sprains and strains
<b>Symptoms</b>	Disoriented Chest Pain <u>or</u> Shortness of Breath Weak or absent radial pulse Pale, cold and sweating	Alert and oriented No shortness of breath Good pulses

### Medivac Sites

Annie Lake - N 41°56.02 / W 120°05.63

Cedarville Airport - N 41°33.01 / W 120°10.29

### If air or ground ambulance is DELAYED:

Package and transport patient to rendezvous with Ambulance. Re-route EMS helicopter to rendezvous point as appropriate.

### If Declaring an "Incident within the Incident"

The closest supervisor will respond to manage the incident. They are responsible for giving an accurate size-up, ensuring scene safety, setting priorities and initiating an appropriate response. Any Safety Officer or Line EMS will respond to the scene to assist in patient care. In the case of an accident, secure the site and begin initial investigation when the situation stabilizes.



## The 5-D System for Effective Waterbars

When locating and building waterbars, place them the right **distance** apart, at a **diagonal** to the fireline, so that they **divert**, then **discharge**, then **dissipate** the energy of the flowing water. Be sure to make them deep enough so they'll be durable, and that soil does **not block** the water bar outlet.

### Recommended spacing for waterbars on firelines.

Fireline slope %	Maximum Distance Apart (feet)	
1-5	200	<i>Waterbars should be at least 2 pulaski widths wide and 12-24 inches high.</i>
6-20	125	
21-40	60	
41-60	40	
>60	25	

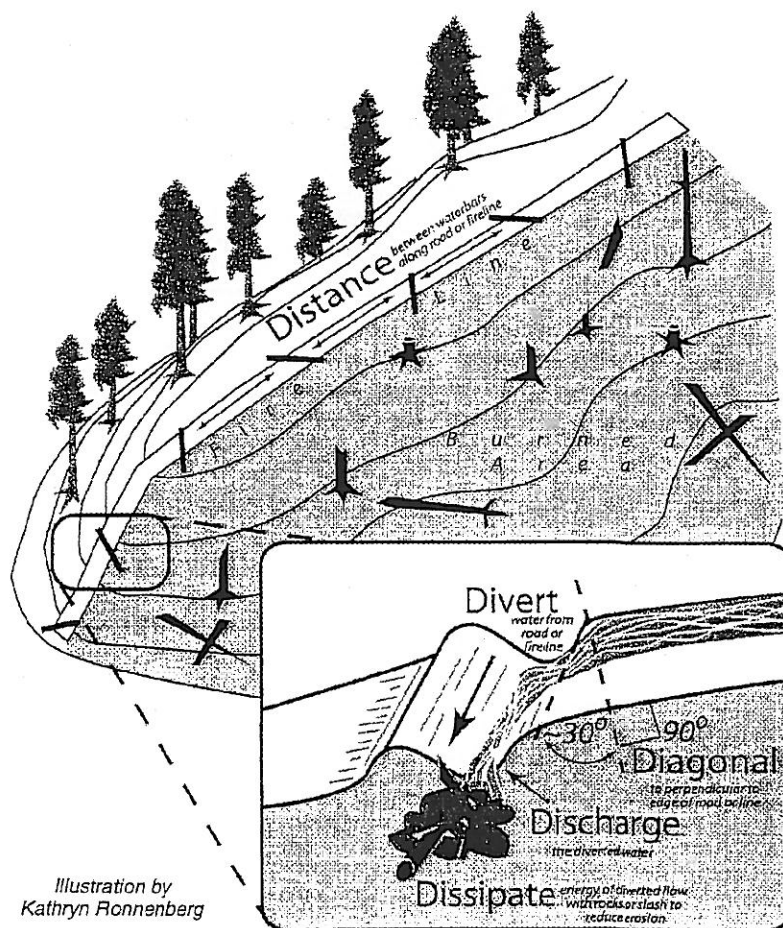
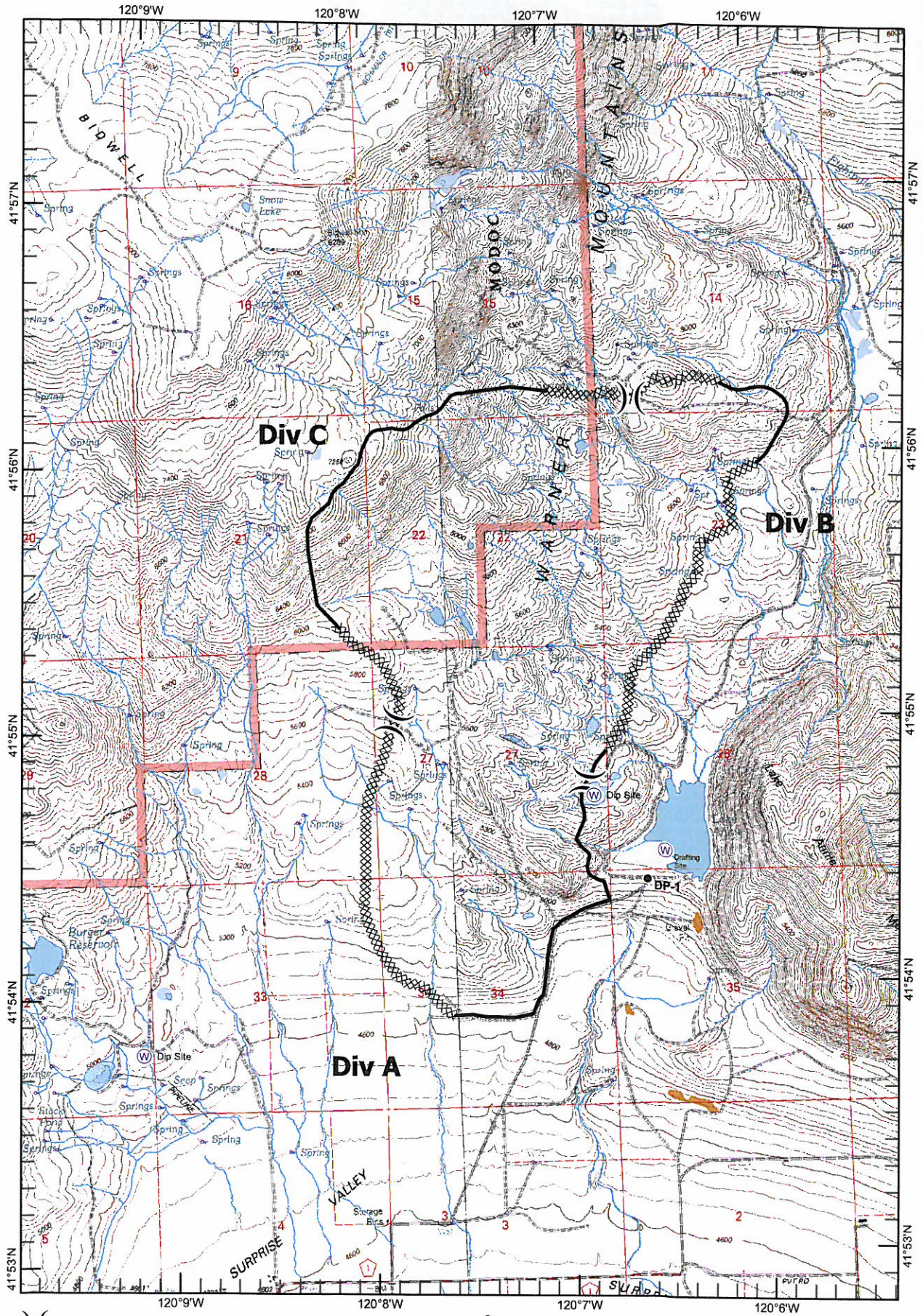
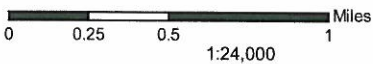


Illustration by  
Kathryn Ronnenberg



- Division
- Completed Dozer Line
- Completed Line
- Water Source
- Drop Point



Annie Incident  
CA-NOD-003546  
Final IAP Map

