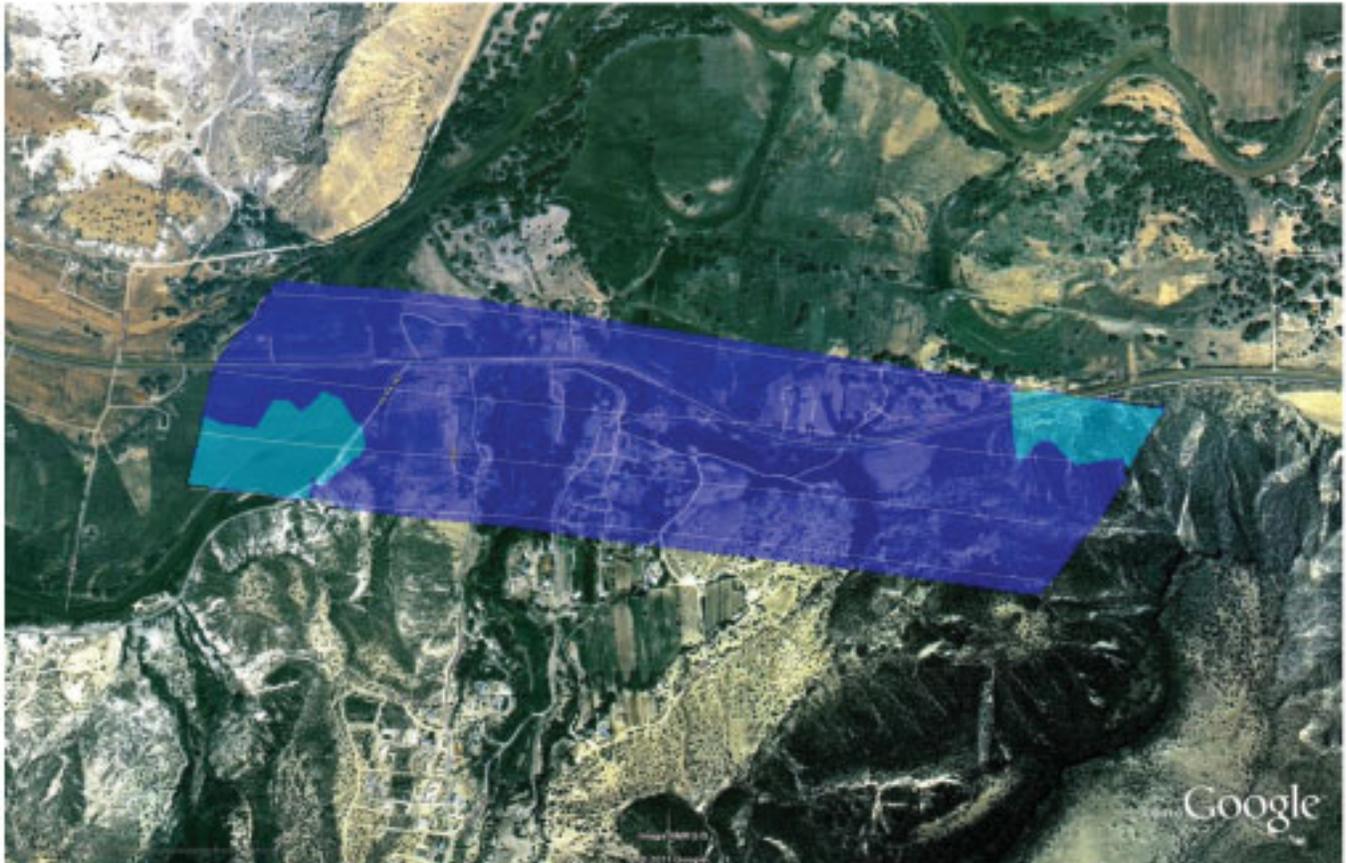


Survey Areas July 1, 2011



Image 1

**Abiquiu Survey Area
Exposure Rate Contour Map
July 1, 2011**



| Parameter | Exposure Rate ($\mu\text{R/hr}$) |
|---|------------------------------------|
|  | < 5 |
|  | 5 : 10 |
|  | 10 : 15 |
|  | 15 : 20 |
|  | 20 : 25 |
|  | 25 : 30 |
|  | 30 : 35 |
|  | 35 : 40 |
|  | 40 : 45 |
|  | > 45 |



| <u>Flight Parameters</u> |
|---------------------------|
| 1000 ft altitude |
| 500 ft line spacing |
| 110 knots |
| 1 second acquisition time |

Radiation can be measured in exposure rate. Typical background exposure rates in New Mexico range from 5 - 20 $\mu\text{R/hr}$. The maximum exposure rate for this survey was 6 $\mu\text{R/hr}$. This is in the normal range. The exposure rate contour map indicates estimated radiation exposure rates on the ground and can be used to identify hazardous levels of radiation. This map indicates that there are no hazardous levels in the area surveyed.

Image 2

**Espanola Survey Area
Exposure Rate Contour Map
July 1, 2011**



| Parameter Exposure Rate ($\mu\text{R/hr}$) | |
|--|---------|
| < 5 | 25 : 30 |
| 5 : 10 | 30 : 35 |
| 10 : 15 | 35 : 40 |
| 15 : 20 | 40 : 45 |
| 20 : 25 | > 45 |



Flight Parameters

1000 ft altitude
500 ft line spacing
110 knots
1 second acquisition time

Radiation can be measured in exposure rate. Typical background exposure rates in New Mexico range from 5 - 20 $\mu\text{R/hr}$. The maximum exposure rate for this survey was 5 $\mu\text{R/hr}$. This is in the normal range. The exposure rate contour map indicates estimated radiation exposure rates on the ground and can be used to identify hazardous levels of radiation. This map indicates that there are no hazardous levels in the area surveyed.

**Highway 68 Canyon Survey Area
Exposure Rate Contour Map
July 1, 2011**



| Parameter | Exposure Rate ($\mu\text{R/hr}$) |
|---|------------------------------------|
|  | < 5 |
|  | 5 : 10 |
|  | 10 : 15 |
|  | 15 : 20 |
|  | 20 : 25 |
|  | 25 : 30 |
|  | 30 : 35 |
|  | 35 : 40 |
|  | 40 : 45 |
|  | > 45 |

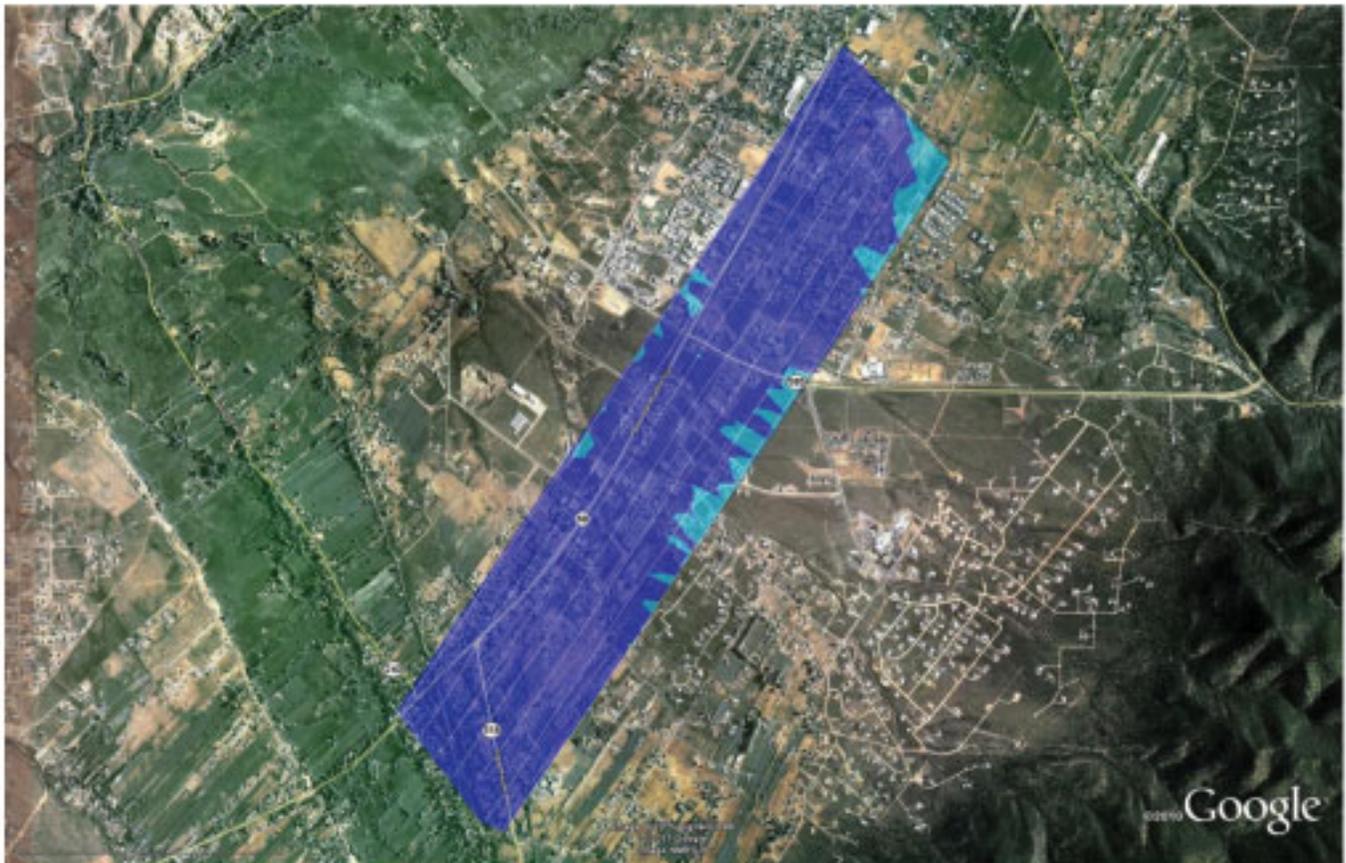


| <u>Flight Parameters</u> |
|---------------------------|
| 1000 ft altitude |
| 500 ft line spacing |
| 110 knots |
| 1 second acquisition time |

Radiation can be measured in exposure rate. Typical background exposure rates in New Mexico range from 5 - 20 $\mu\text{R/hr}$. The maximum exposure rate for this survey was 8 $\mu\text{R/hr}$. This is in the normal range. The exposure rate contour map indicates estimated radiation exposure rates on the ground and can be used to identify hazardous levels of radiation. This map indicates that there are no hazardous levels in the area surveyed.

Image 4

**Taos Survey Area
Exposure Rate Contour Map
July 1, 2011**



| Parameter | Exposure Rate ($\mu\text{R/hr}$) |
|---|------------------------------------|
|  | < 5 |
|  | 5 : 10 |
|  | 10 : 15 |
|  | 15 : 20 |
|  | 20 : 25 |
|  | 25 : 30 |
|  | 30 : 35 |
|  | 35 : 40 |
|  | 40 : 45 |
|  | > 45 |



| <u>Flight Parameters</u> |
|---------------------------|
| 1000 ft altitude |
| 500 ft line spacing |
| 110 knots |
| 1 second acquisition time |

Radiation can be measured in exposure rate. Typical background exposure rates in New Mexico range from 5 - 20 $\mu\text{R/hr}$. The maximum exposure rate for this survey was 5 $\mu\text{R/hr}$. This is in the normal range. The exposure rate contour map indicates estimated radiation exposure rates on the ground and can be used to identify hazardous levels of radiation. This map indicates that there are no hazardous levels in the area surveyed.

Brief Discussion of Results

Chemical

No significant chemical detections. Minor detections of the following chemicals were measured from greatest to lowest concentrations:

- 1. Ozone,*
- 2. Formic acid,*
- 3. PAN (peroxyacetyl nitrate, "smog"),*
- 4. Methanol, and*
- 5. Ammonia*

These minor detections are consistent with what is normally found in natural fires.

Radiological

No significant radiological detections.

Photography

Aerial photographs were collected over Abiquie (5), Espanola (9), Taos (10) and active fire areas (15).

Infrared Imaging

Conducted over active fire locations will be provided in a subsequent report.

General Observations

- 1. Fairly turbulent flying conditions*
- 2. Heavy to light smoke observed over and/or near most of the locations.*