



Here is a map of the approximate affected area of the fire. Here near the bottom of the image is Gregoire Lake, you can see that the northern region was affected by the fire, whereas the south region was not affected at all. We will be taking our samples from this area around the lake, at varying distances from the lake. Here is how the sample taking procedure will occur:

**Here are a few key points on standard soil sampling protocol to consider (doesn't have to be followed strictly):**

A clean pair of new, non-powdered, disposable gloves will be worn each time a different sample is collected and the gloves should be donned immediately prior to sampling. The gloves should not come in contact with the media being sampled and should be changed any time during sample collection when their cleanliness is compromised.

If possible, one member of the field sampling team should take all the notes and photographs, fill out tags, etc., while the other member(s) collect the samples.

Samplers must use new, verified/certified-clean disposable or non-disposable equipment cleaned according to procedures contained in the

**.2 Sample Homogenization**

1. If sub-sampling of the primary sample is to be performed in the laboratory, transfer the entire primary sample directly into an appropriate, labeled sample container(s). Proceed to step 2.

2. Place the sample into an appropriate, labeled container(s) by using the alternate shoveling method and secure the cap(s) tightly. The alternate shoveling method involves placing a spoonful of soil in each container in sequence and repeating until the containers are full or the sample volume has been exhausted. Threads on the container and lid should be cleaned to ensure a tight seal when closed.

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Here is are the Samples that will be taken; we have 6 regions, each at different distances from the lake, 3 or these regions will be on the north side, in the fire affected region labeled-A 1, 2, 3. The other 3 regions will be on the south side in the region not affected by the fire, labeled-B 1, 2, 3. From each one of these sites, 3 “holes” approximately 25m apart, will be dug up to look at soil horizons and profiles, if at least  $\frac{2}{3}$  of the holes appear similar, samples will be taken from the similar “holes”, if all 3 are similar then samples will be taken from all 3. **Each site and hole will be photographed and notes will be documented, each sample will have the depth, sample number (1,2 or 3) and region labeled on it.** From each sample a sample of the organic layer will be taken, plus 2cm, 5cm, 10cm, of the mineral layer.

The sampling scheme will look like:

The subscripts represent the 6 regions.

- $A_1$ 
  - Sample 1 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
  - Sample 2 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
  - Sample 3 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
- $A_2$ 
  - Sample 1 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
  - Sample 2 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
  - Sample 3 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
- $A_3$ 
  - Sample 1 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
  - Sample 2 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
  - Sample 3 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
- $B_1$ 
  - Sample 1 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
  - Sample 2 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
  - Sample 3 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
- $B_2$ 
  - Sample 1 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
  - Sample 2 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
  - Sample 3 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
- $B_3$ 
  - Sample 1 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
  - Sample 2 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)
  - Sample 3 (Organic Layer, Mineral Layer @ 2cm, 5cm, 10cm)

**Area A<sub>1</sub> Observations**

Health of the Forest or Magnitude of Burn	
General Observations	
Horizons of the Soil	

Notes:

Photo:

#### A1 Sample 1 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

#### A1 Sample 2 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

#### A1 Sample 3 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

Notes:

**Area A<sub>2</sub> Observations**

Health of the Forest or Magnitude of Burn	
General Observations	
Horizons of the Soil	

Notes:

Photo:

#### A2 Sample 1 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

#### A2 Sample 2 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

#### A2 Sample 3 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

Notes:

### Area A<sub>3</sub> Observations

Health of the Forest or Magnitude of Burn	
General Observations	
Horizons of the Soil	

Notes:

Photo:

### A3 Sample 1 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

### A3 Sample 2 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

### A3 Sample 3 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

Notes:



**Area B<sub>1</sub> Observations**

Health of the Forest or Magnitude of Burn	
General Observations	
Horizons of the Soil	

Notes:

Photo:

B1 Sample 1 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

B1 Sample 2 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

B1 Sample 3 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

Notes:

### Area B<sub>2</sub> Observations

Health of the Forest or Magnitude of Burn	
General Observations	
Horizons of the Soil	

Notes:

Photo:

### B2 Sample 1 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

### B2 Sample 2 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

### B2 Sample 3 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

Notes:

### Area B<sub>3</sub> Observations

Health of the Forest or Magnitude of Burn	
General Observations	
Horizons of the Soil	

Notes:

Photo:

### B3 Sample 1 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

### B3 Sample 2 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

### B3 Sample 3 Observations

	Colour	Texture	Moisture	Other
Organic Layer				
2cm				
5cm				
10cm				

Notes:

Final Notes: