

SITE 1011

167-1011B-30X-1  
 ROCK NAME: Vesicular basalt.  
 GRAIN SIZE: Fine-grained.  
 TEXTURE: Crystalline.

OBSERVER: THU

WHERE SAMPLED: 57-60 cm

| PRIMARY MINERALOGY | PERCENT PRESENT | PERCENT ORIGINAL | SIZE (mm) | COMPOSITION | MORPHOLOGY | COMMENTS |
|--------------------|-----------------|------------------|-----------|-------------|------------|----------|
|--------------------|-----------------|------------------|-----------|-------------|------------|----------|

GROUNDMASS  
 None visible.

|                    |    |  |  |  |             |          |
|--------------------|----|--|--|--|-------------|----------|
| <b>PHENOCRYSTS</b> |    |  |  |  |             |          |
| Plagioclase        | 30 |  |  |  | Idiomorphic | Altered. |
| Hornblende         | 20 |  |  |  |             | Altered. |
| Alkaline feldspar  | 20 |  |  |  |             |          |

|                             |    |                               |  |  |  |  |
|-----------------------------|----|-------------------------------|--|--|--|--|
| <b>SECONDARY MINERALOGY</b> |    | <b>REPLACING/<br/>FILLING</b> |  |  |  |  |
| Clays                       | 22 |                               |  |  |  | COMMENTS<br>Replacing plagioclase.<br>Mainly pyrite. |
| Opaque Minerals             | 4  |                               |  |  |  |  |
| Epidote                     | 2  |                               |  |  |  |  |
| Accessory Minerals          | 2  |                               |  |  |  |  |

| VESICLES/<br>CAVITIES | PERCENT | LOCATION         | SIZE (mm) | FILLING | SHAPE | COMMENTS |
|-----------------------|---------|------------------|-----------|---------|-------|----------|
|                       |         | None observable. |           |         |       |          |

167-1011B-31X-1  
 ROCK NAME: Vesicular basalt.  
 GRAIN SIZE: Fine-grained.  
 TEXTURE: Crystalline.

OBSERVER: THU

WHERE SAMPLED: 32-35 cm

| PRIMARY MINERALOGY | PERCENT PRESENT | PERCENT ORIGINAL | SIZE (mm) | COMPOSITION | MORPHOLOGY | COMMENTS |
|--------------------|-----------------|------------------|-----------|-------------|------------|----------|
|--------------------|-----------------|------------------|-----------|-------------|------------|----------|

GROUNDMASS  
 None visible.

|                    |    |  |  |  |             |          |
|--------------------|----|--|--|--|-------------|----------|
| <b>PHENOCRYSTS</b> |    |  |  |  |             |          |
| Plagioclase        | 30 |  |  |  | Idiomorphic | Altered. |
| Hornblende         | 20 |  |  |  |             | Altered. |
| Alkaline feldspar  | 20 |  |  |  |             |          |

|                             |    |                               |  |  |  |  |
|-----------------------------|----|-------------------------------|--|--|--|--|
| <b>SECONDARY MINERALOGY</b> |    | <b>REPLACING/<br/>FILLING</b> |  |  |  |  |
| Clays                       | 22 |                               |  |  |  | COMMENTS<br>Replacing plagioclase.<br>Mainly pyrite. |
| Opaque Minerals             | 4  |                               |  |  |  |  |
| Epidote                     | 2  |                               |  |  |  |  |
| Accessory Minerals          | 2  |                               |  |  |  |  |

| VESICLES/<br>CAVITIES | PERCENT | LOCATION         | SIZE (mm) | FILLING | SHAPE | COMMENTS |
|-----------------------|---------|------------------|-----------|---------|-------|----------|
|                       |         | None observable. |           |         |       |          |

167-1011B-31X-1                      OBSERVER: THU                      WHERE SAMPLED: 44-48 cm  
 ROCK NAME: Finely crystalline vesicular basalt.  
 GRAIN SIZE: up to 1 mm.  
 TEXTURE: Crystalline.

| PRIMARY MINERALOGY   | PERCENT PRESENT | PERCENT ORIGINAL      | SIZE (mm) | COMPOSITION | MORPHOLOGY  | COMMENTS               |
|----------------------|-----------------|-----------------------|-----------|-------------|-------------|------------------------|
| GROUNDMASS           |                 |                       |           |             |             |                        |
|                      | None visible.   |                       |           |             |             |                        |
| PHENOCRYSTS          |                 |                       |           |             |             |                        |
| Plagioclase          | 43              |                       |           |             | Idiomorphic | Strongly altered.      |
| Hornblende           | 15              |                       |           |             |             | Altered.               |
| Alkaline feldspar    | 10              |                       |           |             |             |                        |
| SECONDARY MINERALOGY |                 |                       |           |             |             |                        |
|                      | PERCENT         | REPLACING/<br>FILLING |           |             |             | COMMENTS               |
| Clays                | 27              |                       |           |             |             | Replacing plagioclase. |
| Opaque Minerals      | 5               |                       |           |             |             | Mainly pyrite.         |

| VESICLES/<br>CAVITIES | PERCENT | LOCATION         | SIZE (mm) | FILLING | SHAPE | COMMENTS |
|-----------------------|---------|------------------|-----------|---------|-------|----------|
|                       |         | None observable. |           |         |       |          |

COMMENTS: The rock is vesicular, but because of the poor quality of the thin section they are not identifiable. Plagioclase may include more alkaline feldspar, but they are not identifiable.