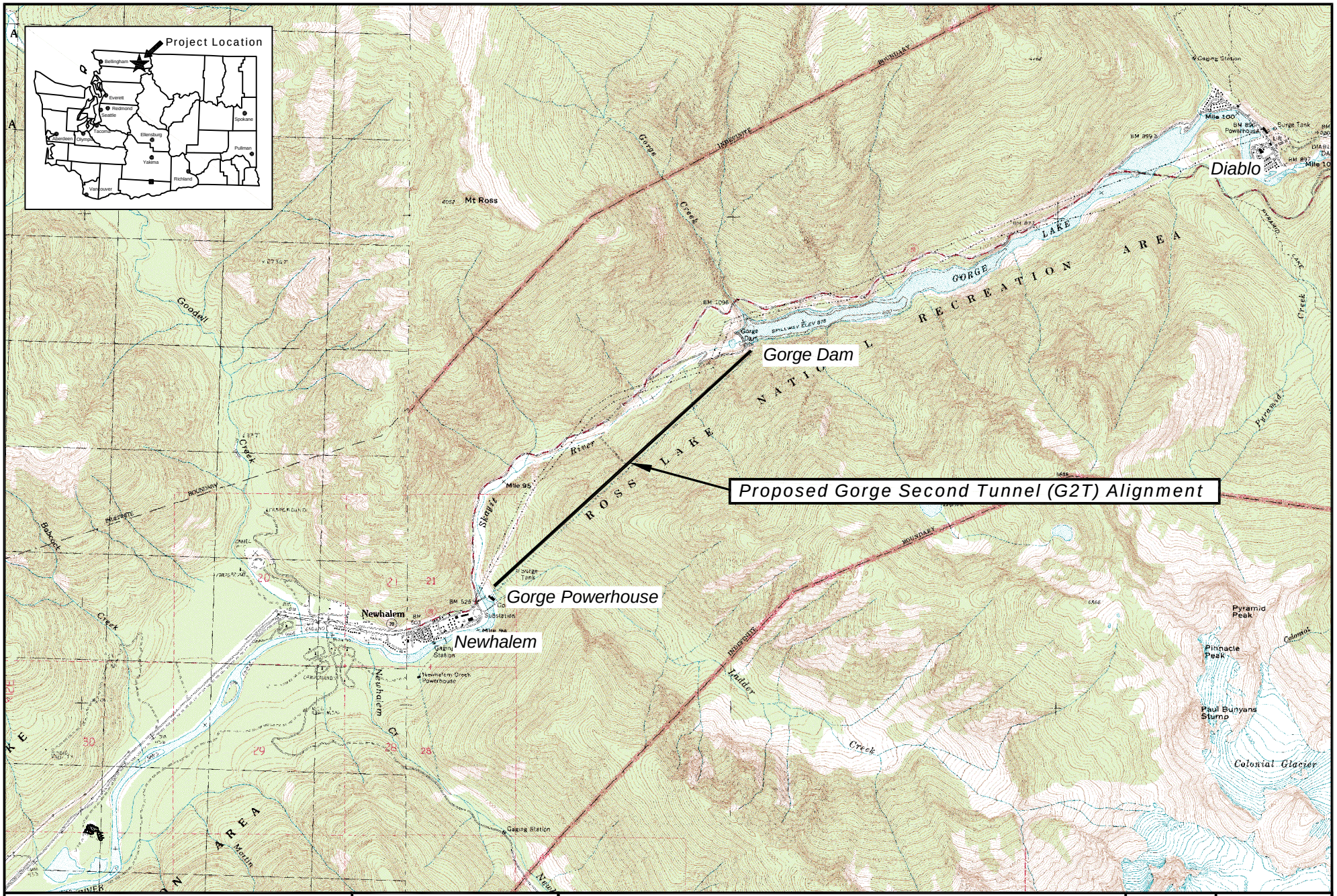

N

0 4000 8000

Feet

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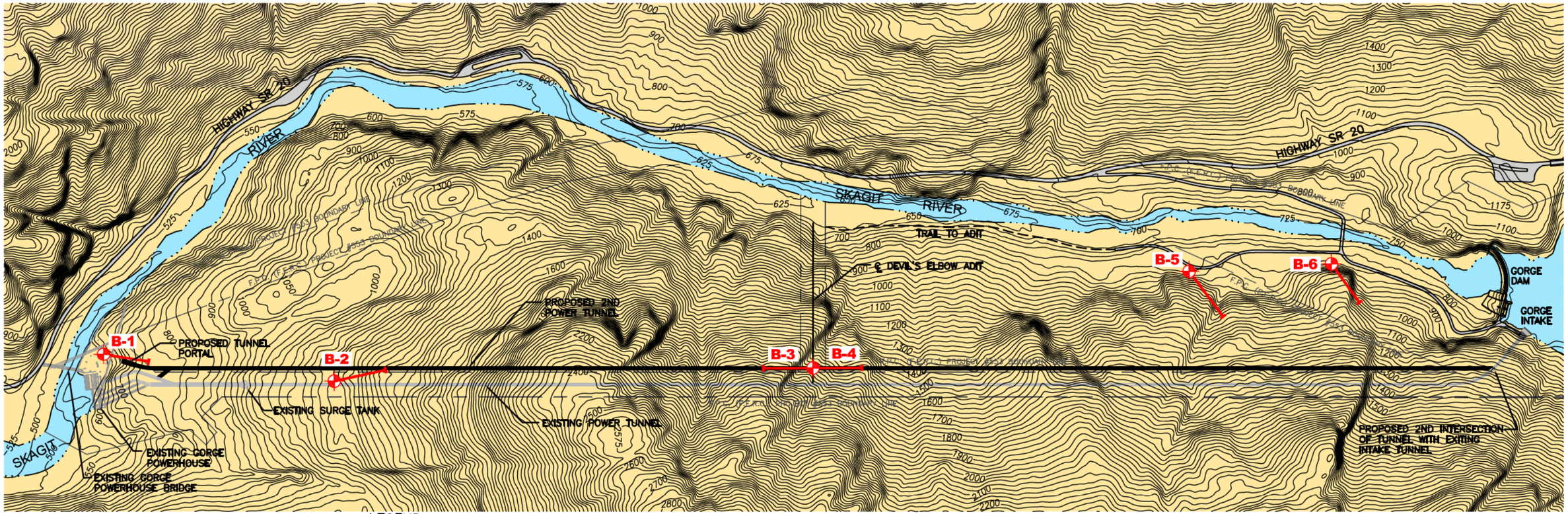
Site Vicinity Map
Gorge Second Tunnel

Seattle City Light

Newhalem, Washington

DATE: Nov 2009	PROJECT NO. 080138
DESIGNED BY: AAE	
DRAWN BY: PMB	FIGURE NO. 1
REVISED BY: AAE (Jan 2010)	

Q:\Gorge 2nd Tunnel\2010-01\080138-01.dwg



LEGEND

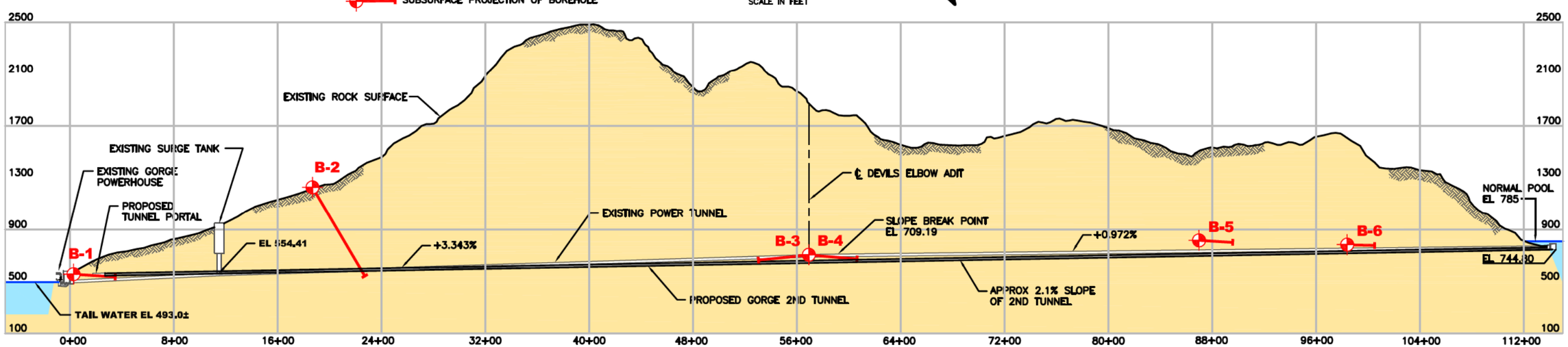
B-2 BOREHOLE LOCATION

SUBSURFACE PROJECTION OF BOREHOLE

GORGE 2ND TUNNEL – PLAN

0 400 800

SCALE IN FEET



GORGE 2ND TUNNEL – PROFILE

HORIZ SCALE: 1"=800'
VERT SCALE: 1"=800'

NOTE:

BOREHOLE LOCATIONS ESTIMATED BASED ON SURVEY DATA AND FIELD MAPPING.

LEGEND

WATER

PROPOSED SECOND TUNNEL

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Project Features and Borehole Locations
Gorge Second Tunnel
Seattle City Light
Newhalem, Washington

DATE: January 2009	PROJECT NO. 080138
DESIGNED BY: AAE/JR	
DRAWN BY: PMB	FIGURE NO. 2
REVISED BY: SCC	

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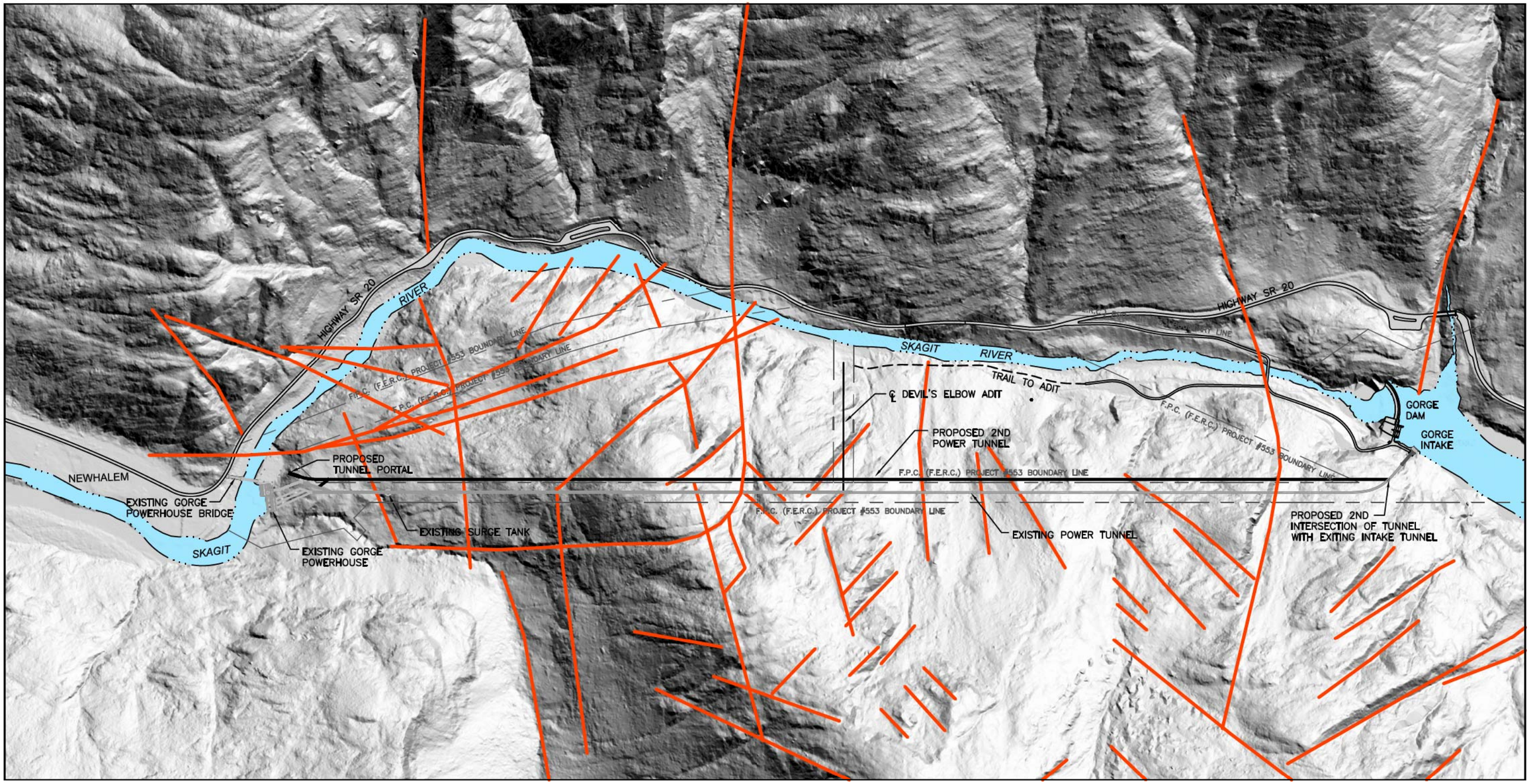

GORGE 2ND TUNNEL – PLAN

0 1000 2000
Feet

LEGEND

LiDAR Topographical Lineament

See Section 3.1.2 for Discussion of Lineaments.

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Topographic Lineaments on LIDAR Hillshade Image
Gorge Second Tunnel
Seattle City Light
Newhalem, Washington

DATE: January 2010	PROJECT NO. 080106
DESIGNED BY: AAE	
DRAWN BY: PMB	FIGURE NO. 3
REVISED BY: SCC	

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Figure 4. Borehole B-1 Rock Type Distribution

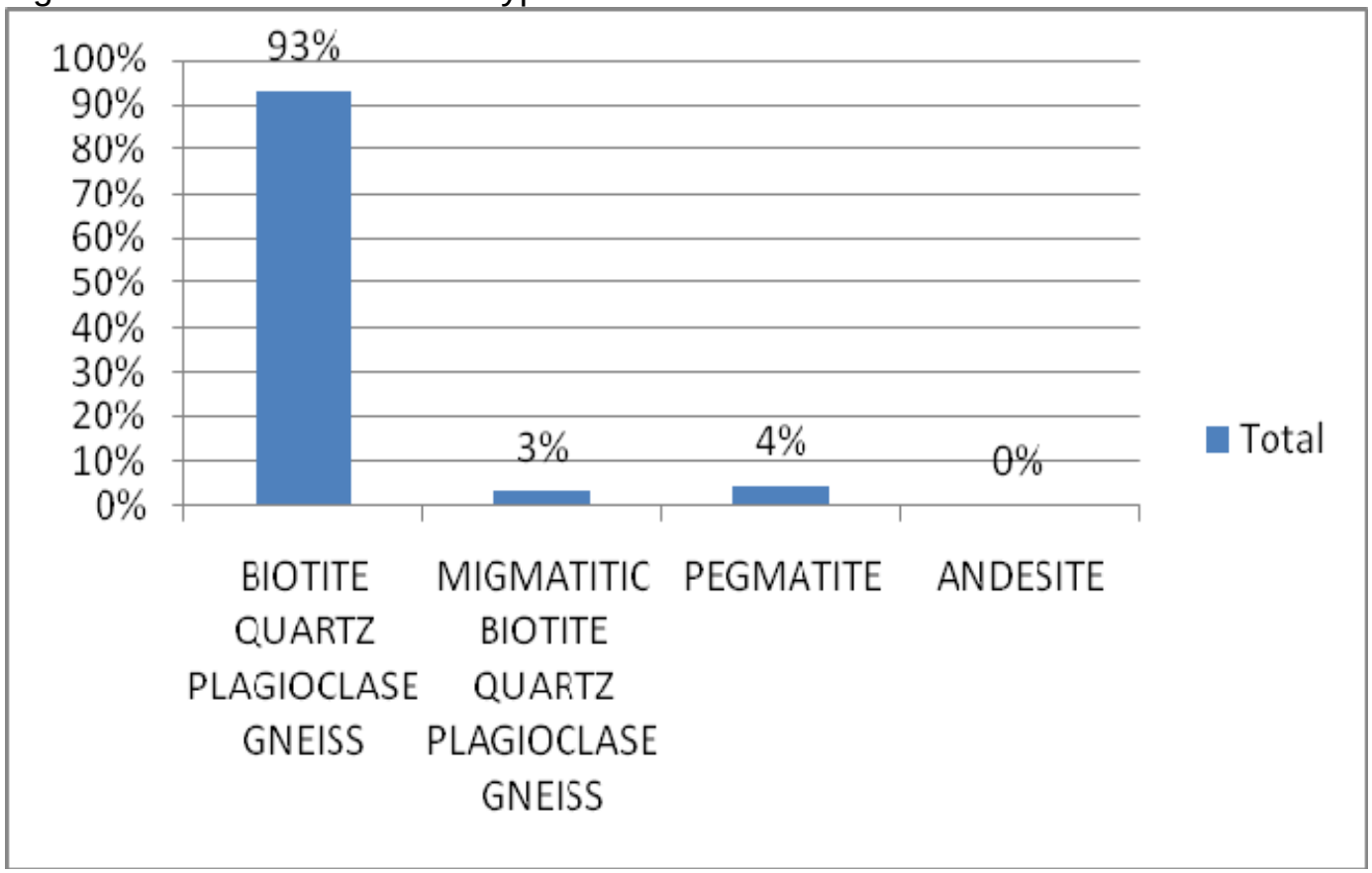


Figure 5. Borehole B-2 Rock Type Distribution

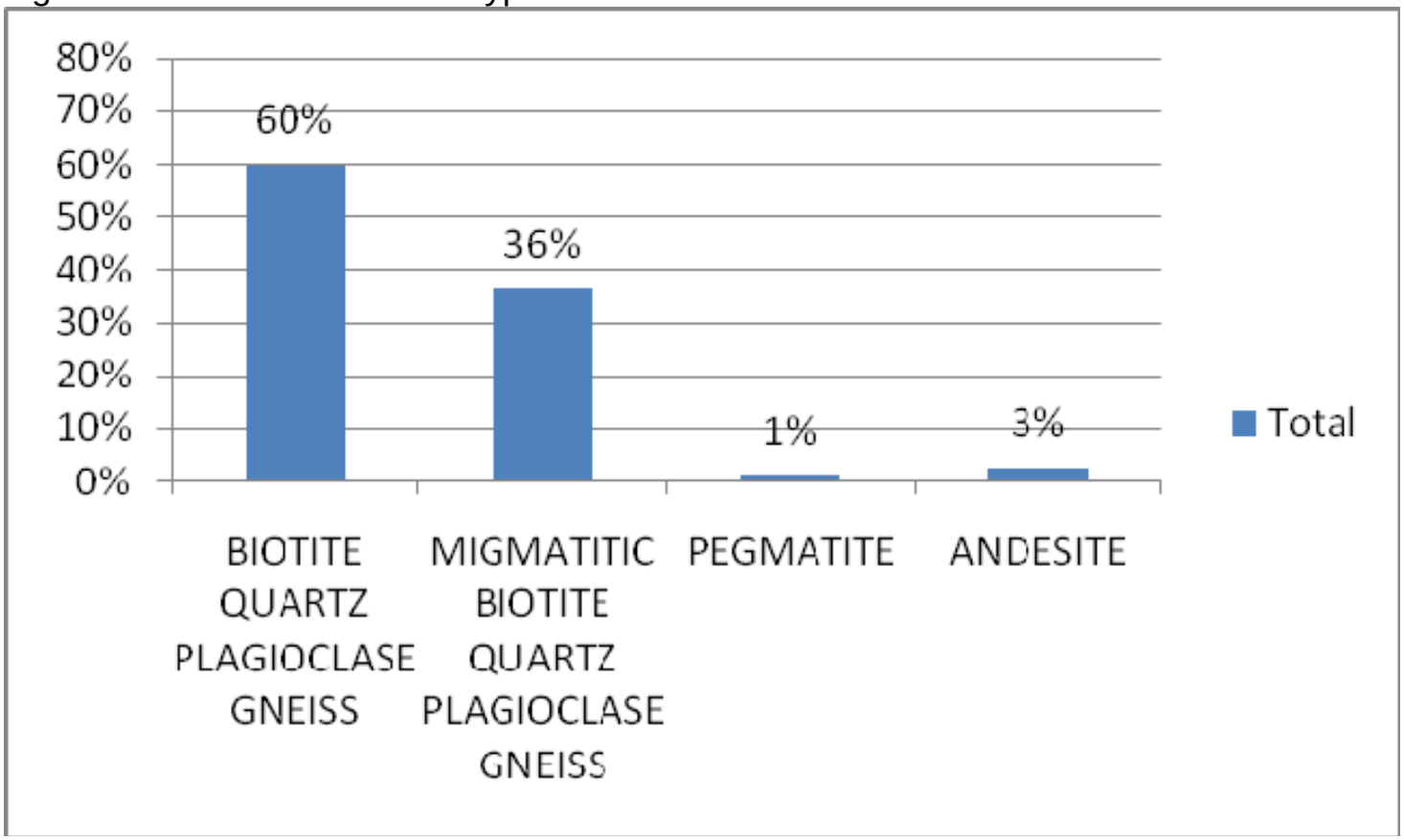


Figure 6. Borehole B-3 Rock Type Distribution

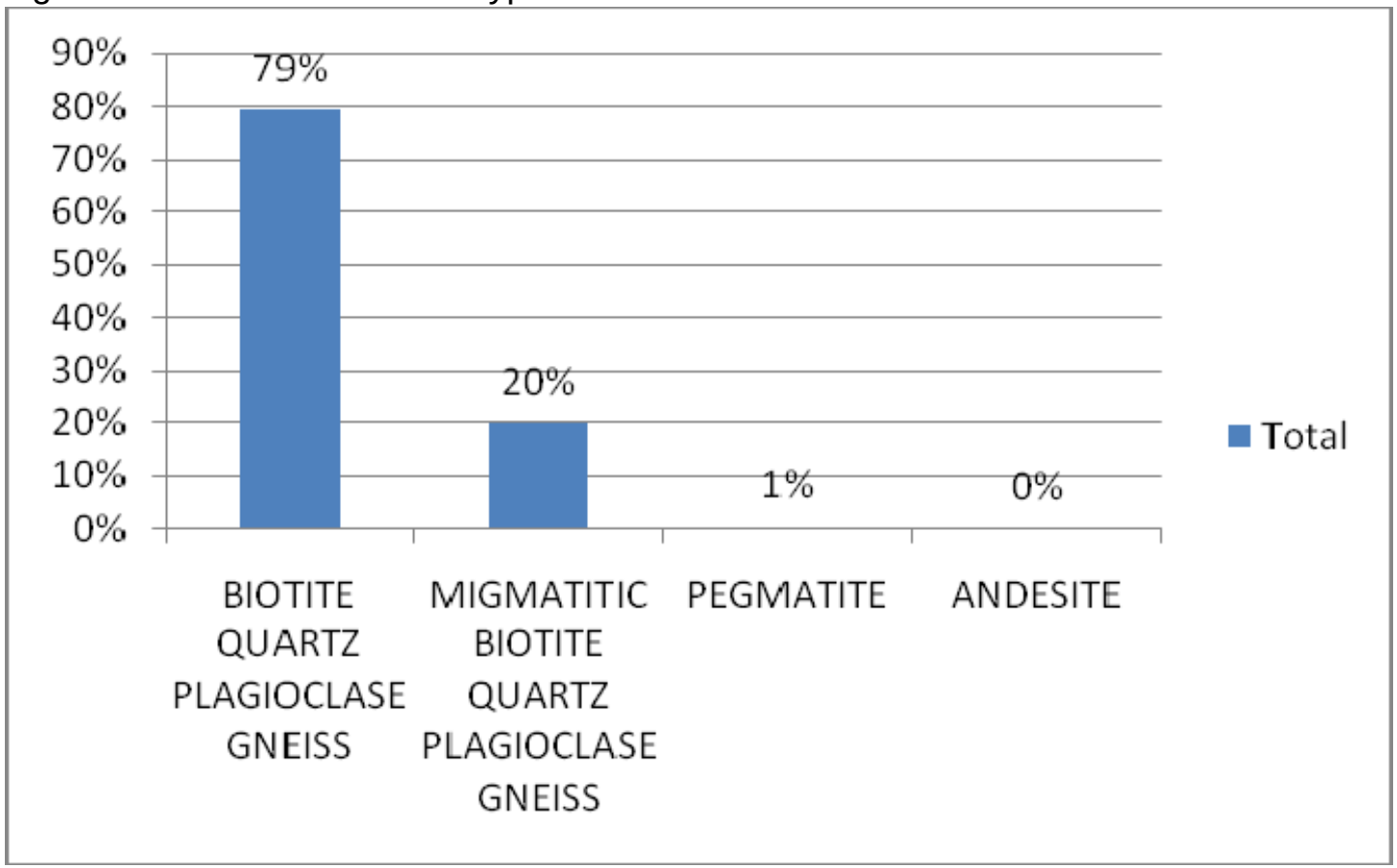


Figure 7. Borehole B-4 Rock Type Distribution

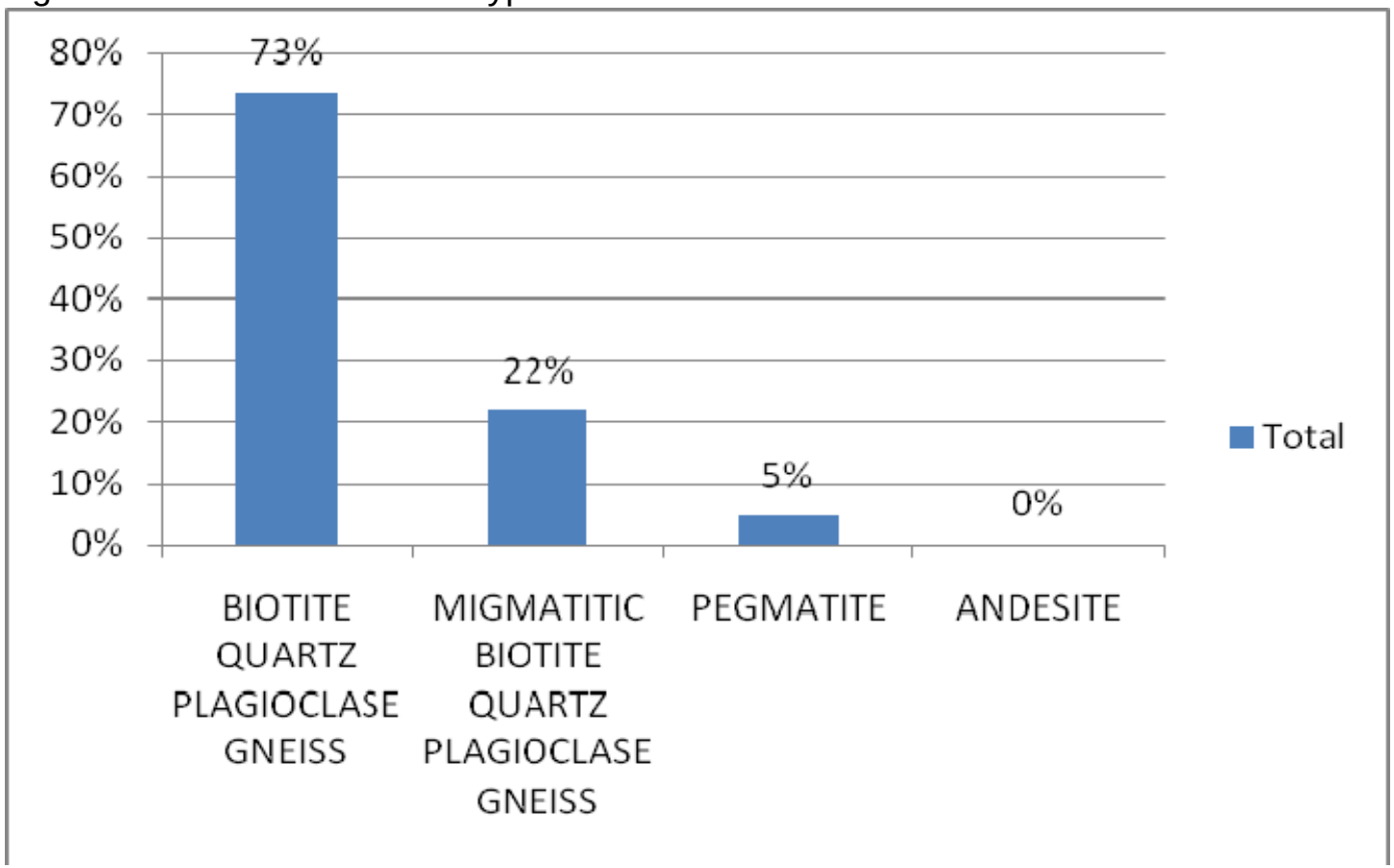


Figure 8. Borehole B-5 Rock Type Distribution

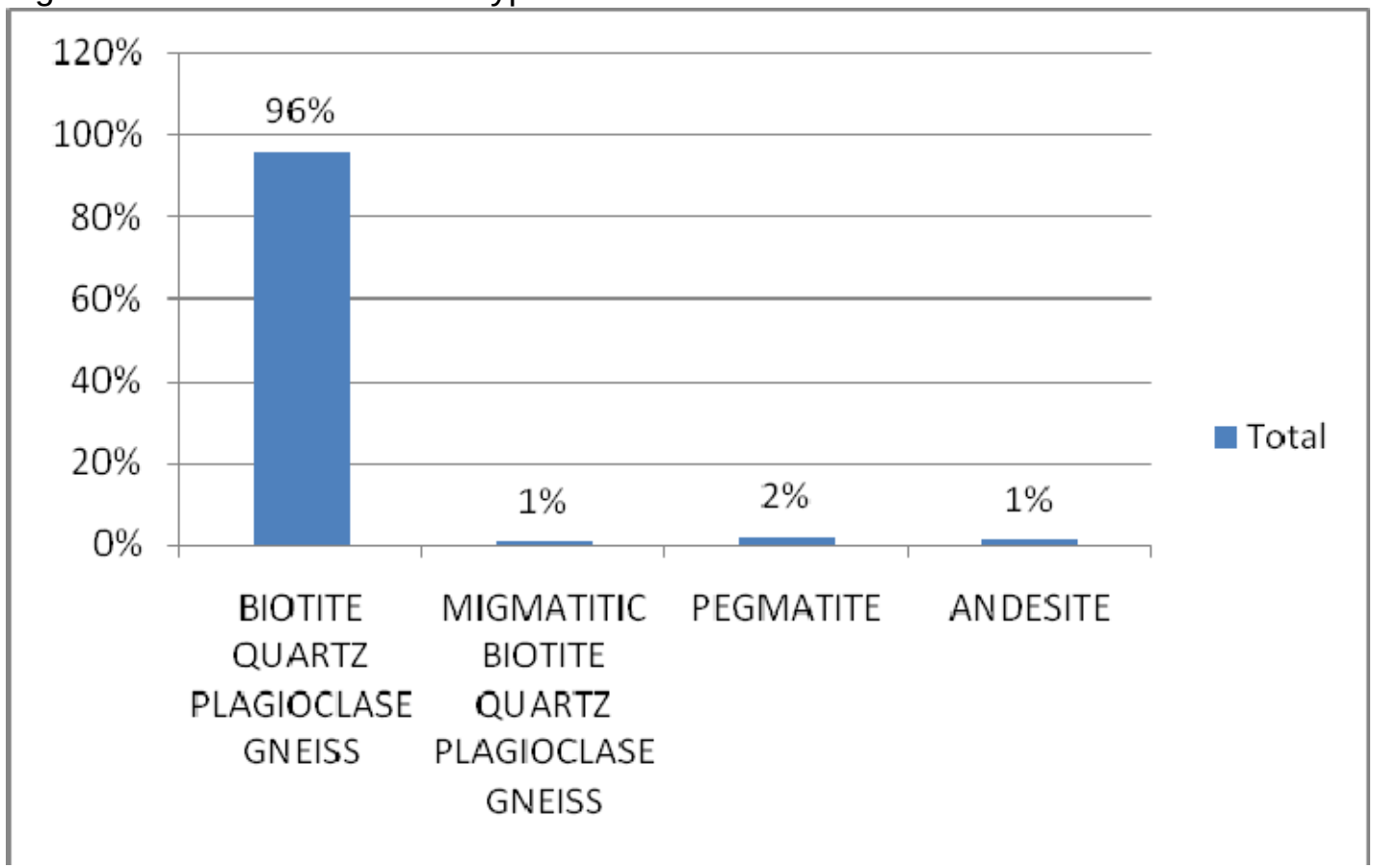


Figure 9. Borehole B-6 Rock Type Distribution

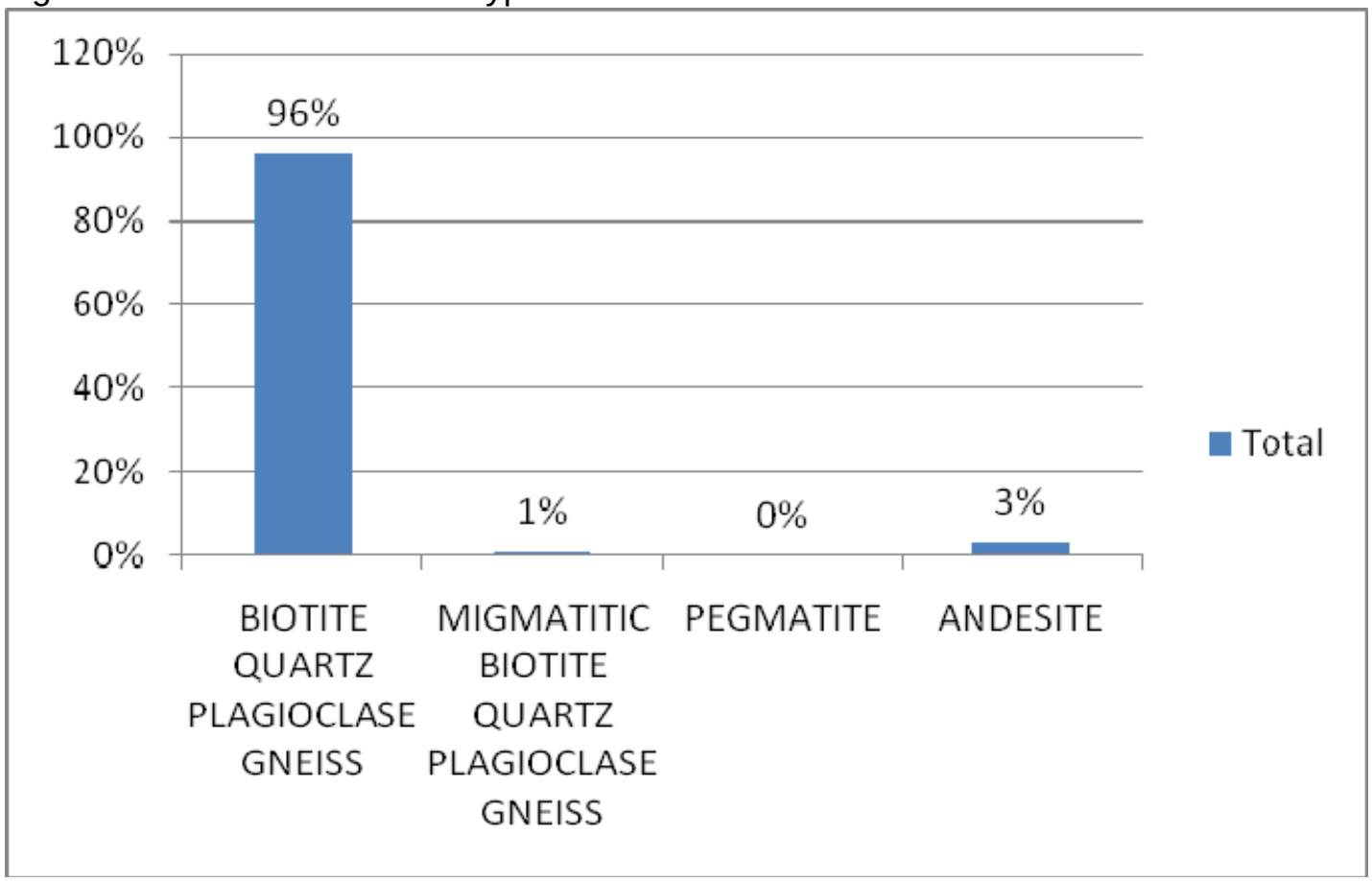
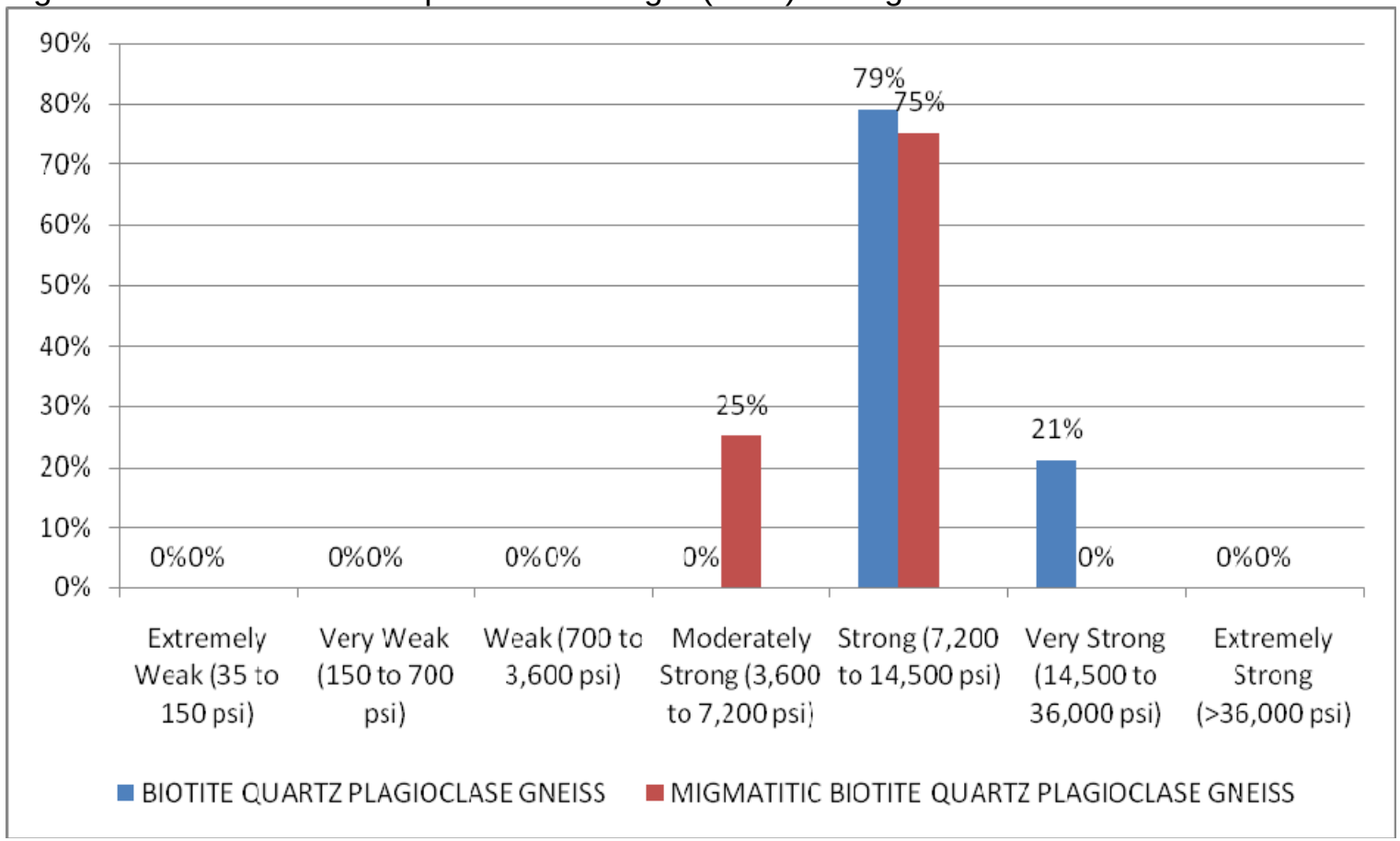
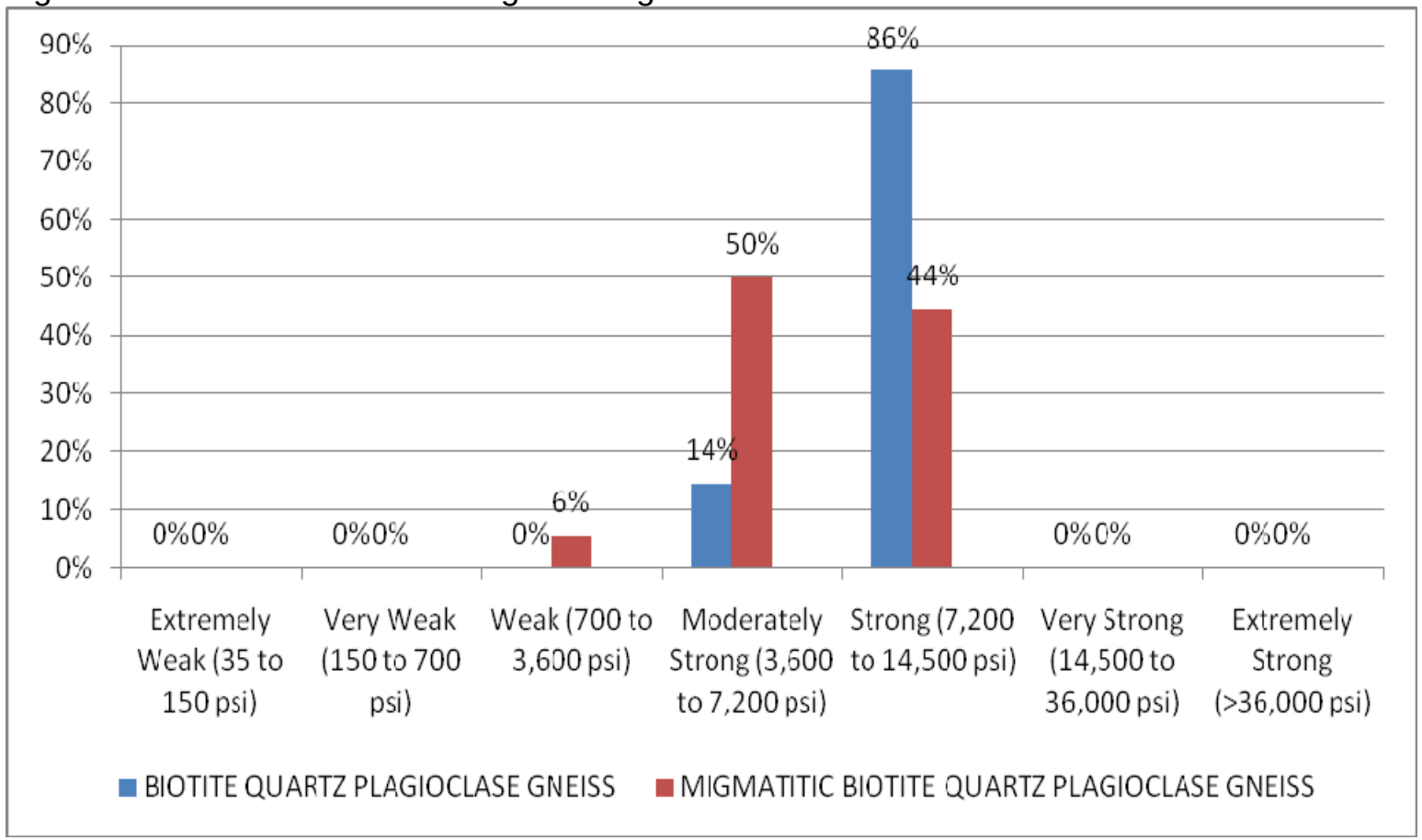


Figure 10. Unconfined Compressive Strength (UCS) Histogram



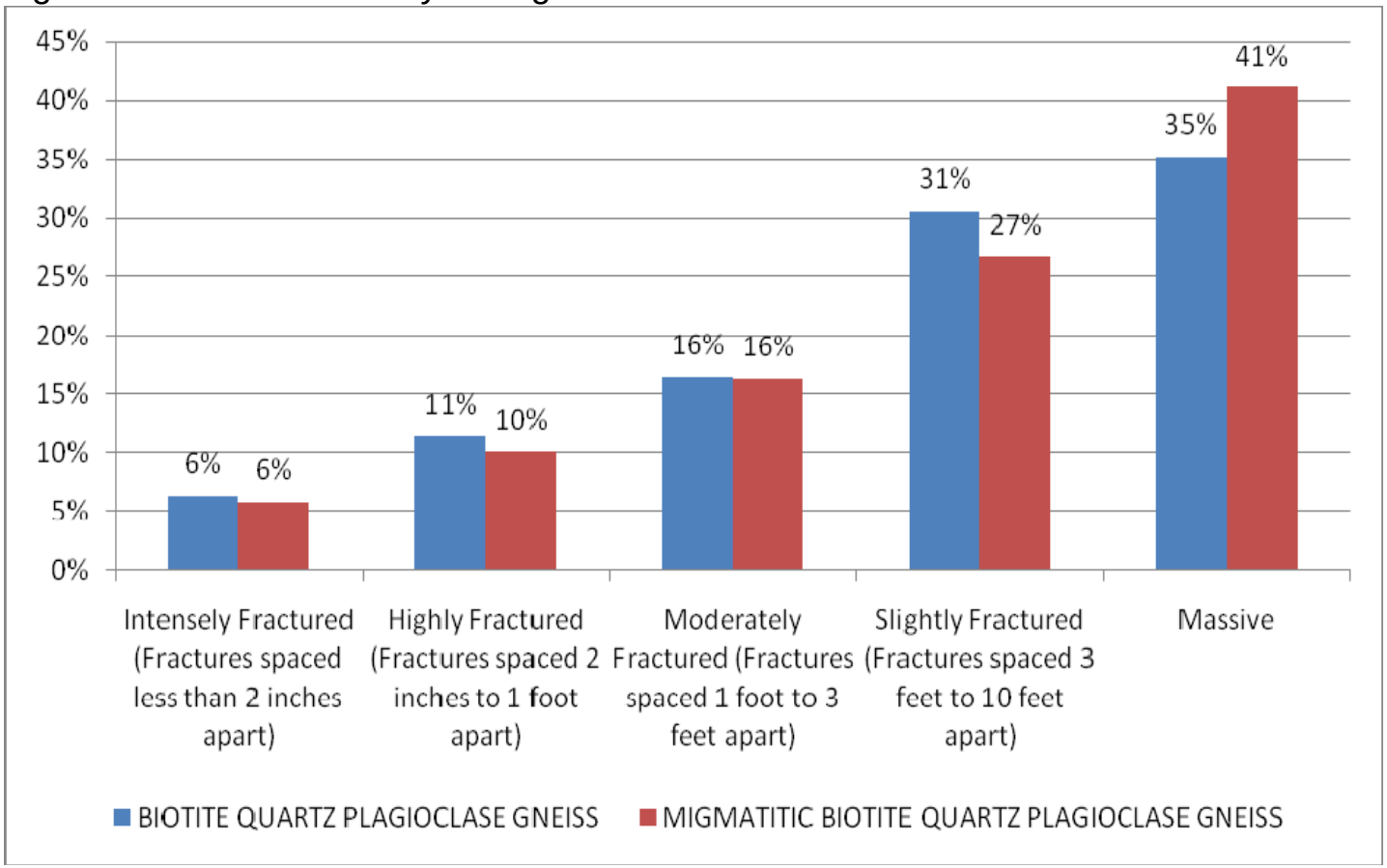
NOTE: Invalid test results not included in data for histogram.

Figure 11. Point Load Test Strength Histogram



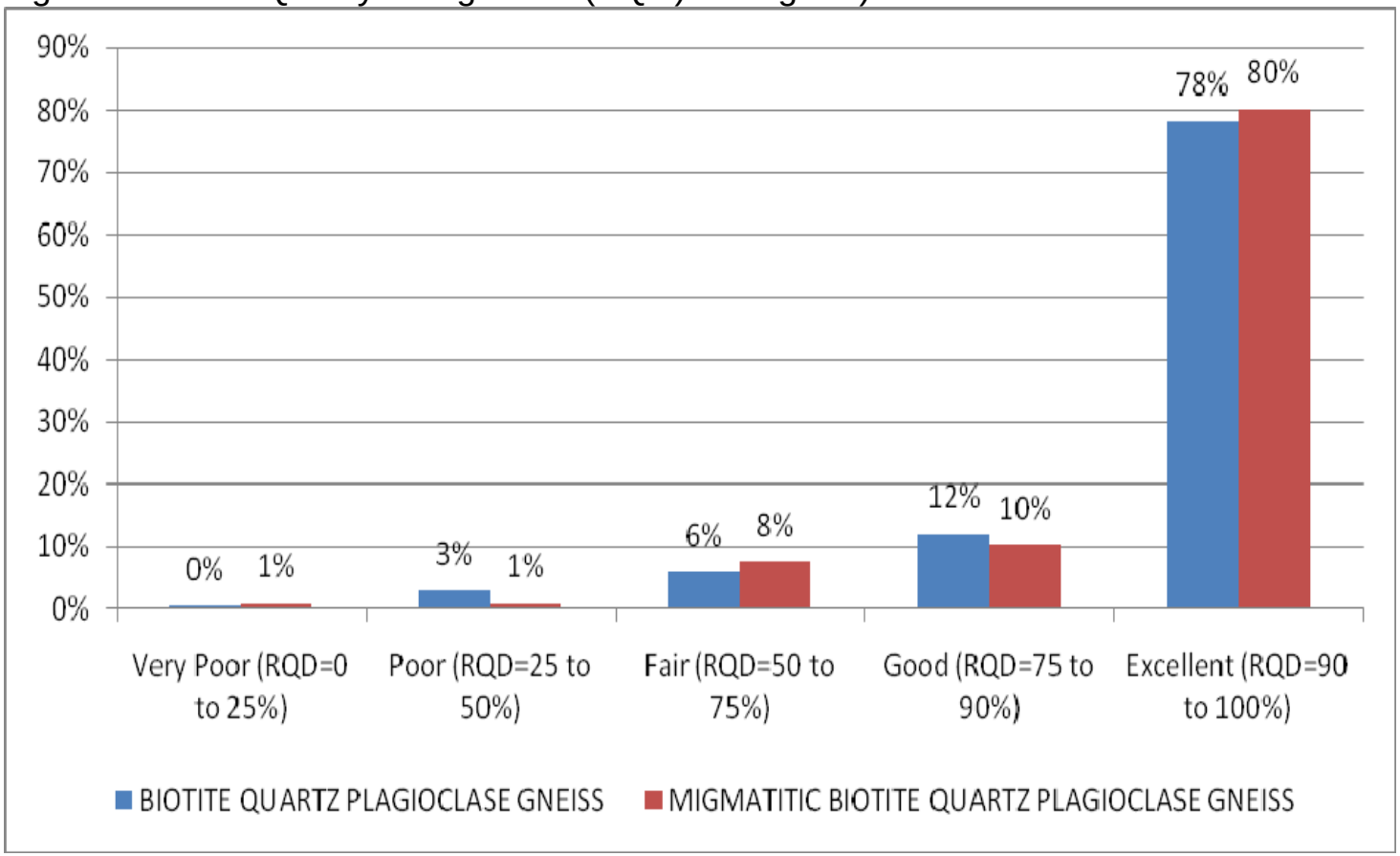
NOTE: Invalid test results not included in data for histogram.

Figure 12. Fracture Density Histogram



NOTE: Results calculated based on logged number of fractures per foot of drill core.

Figure 13. Rock Quality Designation (RQD) Histogram)



NOTE: RQD was calculated for each core run length. Run length varied, but was generally 5-feet.