

Well Construction Details - Bent Creek Hydrogeologic Research Station, Buncombe County, North Carolina

| Well Name | Latitude | Longitude | Total Depth | Well Yield (approximate) | Land Surface Elevation | Measuring Point Elevation | Completion Date | Ground Water Zone | Casing Depth |
|-----------|--------------|--------------|-------------|--------------------------|------------------------|---------------------------|-----------------|--------------------------|--------------|
| | | | ft bls | gpm | ft above msl | ft above msl | | | ft bls |
| BC-1S | 35.477591667 | 82.636153333 | 22 | 5 | 2201.0 | 2203.94 | 17-Oct-2002 | alluvium/transition zone | 8 |
| BC-1I | 35.477806667 | 82.636200000 | 53 | 15 | 2202.5 | 2205.29 | 16-Oct-2002 | transition zone | 38 |
| BC-1D | 35.478015000 | 82.636575000 | 221 | 40 | 2201.8 | 2204.27 | 8-Oct-2002 | bedrock | 55 |
| BC-2S | 35.481786667 | 82.634983333 | 20 | 1 | 2190.7 | 2193.65 | 30-Oct-2002 | shallow regolith | 5 |
| BC-2I | 35.481701667 | 82.634858333 | 36 | 5 | 2191.7 | 2194.61 | 24-Oct-2002 | transition zone | 21 |
| BC-2D | 35.481588333 | 82.635120000 | 300 | 0.5 | 2190.2 | 2194.74 | 23-Oct-2002 | bedrock | 53 |
| BC-3S | 35.482388333 | 82.636666667 | 30 | 0.5 | 2210.1 | 2212.94 | 3-Oct-2002 | shallow regolith | 15 |
| BC-3I | 35.482500000 | 82.636611667 | 50 | 2 | 2209.5 | 2212.51 | 3-Oct-2002 | transition zone | 35 |
| BC-3D | 35.482361667 | 82.636695000 | 300 | <0.5 | 2209.1 | 2211.81 | 17-Sep-2002 | bedrock | 61 |
| BC-4S | 35.485611667 | 82.640750000 | 22 | 2 | 2259.7 | 2262.78 | 12-Sep-2002 | shallow regolith | 7 |
| BC-4I | 35.485583333 | 82.640583333 | 41 | 20 | 2258.8 | 2261.82 | 11-Sep-2002 | transition zone | 26 |
| BC-4D | 35.485528333 | 82.640528333 | 501 | 10 | 2258.5 | 2261.55 | 29-Aug-2002 | bedrock | 61 |
| BC-5S | 35.486221667 | 82.642916667 | 24 | 3 | 2300.0 | 2303 | 8-Aug-2002 | shallow regolith | 9 |
| BC-5I | 35.486250000 | 82.643111667 | 47 | | 2302.2 | 2304.89 | 22-Aug-2002 | transition zone | 32 |
| BC-5D | 35.486111667 | 82.643028333 | 300 | 1 | 2304.8 | 2307.42 | 12-Aug-2002 | bedrock | 62 |
| BC-6D | 35.488600000 | 82.644170000 | 190 | | 2360.0 | 2363 | 4-Nov-2005 | bedrock | 55 |
| BC-7S | 35.490861667 | 82.644195000 | 25 | 1 | 2368.2 | 2371.19 | 17-Jul-2002 | shallow regolith | 10 |
| BC-7I | 35.490888333 | 82.644028333 | 45 | 1 | 2369.0 | 2371.95 | 16-Jul-2002 | transition zone | 30 |
| BC-7D | 35.490916667 | 82.644111667 | 285 | <0.5 | 2369.9 | 2372.81 | 10-Jul-2002 | bedrock | 62 |
| P1S | 35.4858 | 82.6411 | 17 | | 2260.4 | 2263.21 | 16-Jun-2004 | shallow regolith | 12 |
| P1I | 35.4858 | 82.6411 | 30 | | 2260.0 | 2262.83 | 15-Jun-2004 | transition zone | 25 |
| P2S | 35.4853 | 82.6403 | 22 | | 2252.1 | 2255.01 | 22-Jun-2004 | shallow regolith | 17 |
| P2I | 35.4853 | 82.6403 | 64 | | 2251.9 | 2254.95 | 23-Jun-2004 | transition zone | 54 |
| P3S | 35.4853 | 82.6400 | 22 | | 2251.4 | 2254.28 | 23-Jun-2004 | shallow regolith | 17 |
| P4S | 35.4844 | 82.6389 | 17 | | 2231.9 | 2235.27 | 24-Jun-2004 | shallow regolith | 12 |
| P4I | 35.4844 | 82.6389 | 30 | | 2232.2 | 2234.78 | 24-Jun-2004 | transition zone | 25 |
| P5S | 35.4856 | 82.6408 | 17 | | 2257.1 | 2259.86 | 30-Jun-2004 | shallow regolith | 12 |
| P5I | 35.4856 | 82.6408 | 29 | | 2256.6 | 2259.25 | 30-Jun-2004 | transition zone | 24 |
| P6S | 35.4858 | 82.6408 | 22 | | 2257.9 | 2260.96 | 13-Jul-2004 | shallow regolith | 17 |
| P6I | 35.4858 | 82.6408 | 34 | | 2257.7 | 2260.59 | 1-Jul-2004 | transition zone | 29 |
| P7S | 35.4864 | 82.6419 | 13.5 | | 2271.3 | 2274.26 | 14-Jul-2004 | shallow regolith | 9 |
| P7I | 35.4864 | 82.6419 | 25 | | 2273.3 | 2276.06 | 20-Jul-2004 | transition zone | 20 |
| P8S | 35.4867 | 82.6406 | 20 | | 2256.7 | 2259.69 | 14-Jul-2004 | shallow regolith | 15 |
| P8I | 35.4867 | 82.6406 | 34 | | 2256.7 | 2259.69 | 14-Jul-2004 | transition zone | 29 |

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| Well Name | Screened / Open Interval ft bls | Screen/Open Hole Diameter in | Screened or Open | Screen Slot Size | Type of Well |
|-----------|------------------------------------|---------------------------------|------------------|------------------|-----------------------------|
| BC-1S | 8 - 22 | 4 | screened | 0.01 slotted PVC | shallow regolith monitoring |
| BC-1I | 38 - 53 | 4 | screened | 0.01 slotted PVC | transition zone monitoring |
| BC-1D | 54.7 - 221 | 6.25 OH | open | | bedrock monitoring |
| BC-2S | 5 - 20 | 4 | screened | 0.01 slotted PVC | shallow regolith monitoring |
| BC-2I | 21 - 36 | 4 | screened | 0.01 slotted PVC | transition zone monitoring |
| BC-2D | 53 - 300 | 6.25 OH | open | | bedrock monitoring |
| BC-3S | 15 - 30 | 4 | screened | 0.01 slotted PVC | shallow regolith monitoring |
| BC-3I | 35 - 50 | 4 | screened | 0.01 slotted PVC | transition zone monitoring |
| BC-3D | 61 - 300 | 6.25 OH | open | | bedrock monitoring |
| BC-4S | 7 - 22 | 4 | screened | 0.01 slotted PVC | shallow regolith monitoring |
| BC-4I | 26 - 41 | 4 | screened | 0.01 slotted PVC | transition zone monitoring |
| BC-4D | 61 - 501 | 6.25 OH | open | | bedrock monitoring |
| BC-5S | 9 - 24 | 4 | screened | 0.01 slotted PVC | shallow regolith monitoring |
| BC-5I | 32 - 47 | 4 | screened | 0.01 slotted PVC | transition zone monitoring |
| BC-5D | 62 - 300 | 6.25 OH | open | | bedrock monitoring |
| BC-6D | 55-190 | 6.25 OH | open | | bedrock monitoring |
| BC-7S | 10 - 25 | 4 | screened | 0.01 slotted PVC | shallow regolith monitoring |
| BC-7I | 30 - 45 | 4 | screened | 0.01 slotted PVC | transition zone monitoring |
| BC-7D | 62 - 285 | 6.25 OH | open | | bedrock monitoring |
| P1S | 12 - 17 | 2 | screened | 0.01 slotted PVC | shallow regolith piezometer |
| P1I | 25 - 30 | 2 | screened | 0.01 slotted PVC | transition zone piezometer |
| P2S | 17 - 22 | 2 | screened | 0.01 slotted PVC | shallow regolith piezometer |
| P2I | 54 - 59 | 2 | screened | 0.01 slotted PVC | transition zone piezometer |
| P3S | 17 - 22 | 2 | screened | 0.01 slotted PVC | shallow regolith piezometer |
| P4S | 12 - 17 | 2 | screened | 0.01 slotted PVC | shallow regolith piezometer |
| P4I | 25 - 30 | 2 | screened | 0.01 slotted PVC | transition zone piezometer |
| P5S | 12 - 17 | 2 | screened | 0.01 slotted PVC | shallow regolith piezometer |
| P5I | 24 - 29 | 2 | screened | 0.01 slotted PVC | transition zone piezometer |
| P6S | 17 - 22 | 2 | screened | 0.01 slotted PVC | shallow regolith piezometer |
| P6I | 29 - 34 | 2 | screened | 0.01 slotted PVC | transition zone piezometer |
| P7S | 8.5 - 13.5 | 2 | screened | 0.01 slotted PVC | shallow regolith piezometer |
| P7I | 20 - 25 | 2 | screened | 0.01 slotted PVC | transition zone piezometer |
| P8S | 15 - 20 | 2 | screened | 0.01 slotted PVC | shallow regolith piezometer |
| P8I | 29 - 34 | 2 | screened | 0.01 slotted PVC | transition zone piezometer |

ft, feet; msl, mean sea level; bls, below land surface; OH, open hole; in, inches; gpm, gallons per minute; PVC, polyvinylchloride