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The Luce Creek site (18AN143), located on the south shore of the Severn River in Anne Arundel County, Maryland, was first investigated by Henry Wright in the mid-20th century. Wright excavated a single 4 ft. square unit into a shell midden and recovered Mockley pottery sherds, rhyolite projectile points and debitage, jasper and argillite flakes, a worked box turtle carapace fragment, and a grinding stone fragment, in addition to a number of faunal materials. A radiocarbon date of A.D. 580 ± 120 (M-1608) was obtained from a charcoal sample. Wright stated that a 20th century standing house had probably destroyed a portion of the site.

In the early 1990s, a Phase I and Phase II were conducted on the undisturbed portions of the site before proposed development. The goal of these investigations was to further investigate potential habitation areas away from the midden. A separate oyster processing area was identified further inland, and a concentration of jasper debitage in the vicinity suggested some tool manufacture or maintenance was also taking place.

All of the identifiable ceramics recovered during the Phase I and II were classified as Mockley, and all of the points were from the Selby Bay phase of the Middle Woodland time period (ca. A.D. 200 – 900). One thick, crudely-made, rhyolite side-notched point was also recovered that is often found in context with Selby Bay lanceolate points. Charcoal (Beta-57963) from one of the test units yielded an unexpected radiocarbon date of 210 ± 80 B.C., placing it nearly 400 years earlier than the established start of the Selby Bay phase. Ballweber has no clear explanation for this ¹⁴C date range, but does put forth that an identical date was obtained from charcoal recovered from the Burall site, located in the Piedmont province of Frederick County. Mockley net-impressed ceramic sherds and many similar side-notched rhyolite points were recovered from Burall, interpreted as a rhyolite processing station with semi-sedentary habitation. She tentatively suggests a connection based on the similar point styles, but states that more research must be done to make any firm conclusions.