DELAWARE STATE HISTORIC PRESERVATION OFFICE
15 THE GREEN, DOVER, DE 19901

CULTURAL RESOURCE SURVEY PROPERTY IDENTIFICATION FORM

CRS #	N06670
SPO Map	08-09-34
Hundred	WCC And Mill Creek
Quad	Newark East
Other	

1. HISTORIC NAME/FUNCTION: Byrnes Mill Dam

2. ADDRESS/LOCATION: Located On The White Clay Creek, Within The Grounds Of The White Clay Creek Country Club, Stanton Vicinity, White Clay Creek And Mill Creek Hundred

3. TOWN/NEAREST TOWN: Stanton vicinity? ☒

4. MAIN TYPE OF RESOURCE: building ☐ structure ☒ site ☐ object ☐ landscape ☐ district ☐

5. MAIN FUNCTION OF PROPERTY: Located on country club, dam only partially functional

6. PROJECT TITLE/ REASON FOR SURVEY (if applicable):
Section 106 review

7. ADDITIONAL FORMS USED:

#:	Form:	List property types:
	CRS 2 Main Building Form	
	CRS 3 Secondary Building Form	
	CRS 4 Archaeological Site Form	
	CRS 5 Structure (Building-Like) Form	
1	CRS 6 Structure (Land Feature) Form	Milldam
	CRS 7 Object Form	
	CRS 8 Landscape Elements Form	
1	CRS 9 Map Form	N/A
	CRS 14 Potential District Form	

8. SURVEYOR INFORMATION:

Surveyor name: Catherine Morrissey

Principal Investigator name: Rebecca J. Sheppard

Principal Investigator signature:

Organization: Center For Historic Architecture And Design University Of Delaware Date: 9/15/2011

9. OTHER NOTES OR OBSERVATIONS:

CRS# N06670

10. STATE HISTORIC CONTEXT FRAMEWORK (check all appropriate boxes; refer to state management plan(s)):

a) Time period(s)

- ☐ Pre-European Contact
- ☐ Paleo-Indian
- ☐ Archaic
- ☐ Woodland I
- ☐ Woodland II
- ☐ 1600-1750∀ Contact Period (Native American)
- ☐ 1630-1730∀ Exploration and Frontier Settlement
- ☐ 1730-1770∀ Intensified and Durable Occupation
- ☒ 1770-1830∀ Early Industrialization
- ☒ 1830-1880∀ Industrialization and Early Urbanization
- ☒ 1880-1940∀ Urbanization and Early Suburbanization
- ☒ 1940-1960∀ Suburbanization and Early Ex-urbanization

b) Geographical zone

- ☒ Piedmont
- ☐ Upper Peninsula
- ☐ Lower Peninsula/Cypress Swamp
- ☐ Coastal
- ☐ Urban (City of Wilmington)

c) Historic period theme(s)

- ☐ Agriculture
- ☐ Forestry
- ☐ Trapping/Hunting
- ☐ Mining/Quarrying
- ☐ Fishing/Oystering
- ☒ Manufacturing
- ☐ Retailing/Wholesaling
- ☐ Finance
- ☐ Professional Services
- ☐ Transportation and Communication
- ☒ Settlement Patterns and Demographic Changes
- ☒ Architecture, Engineering and Decorative Arts
- ☐ Government
- ☐ Religion
- ☐ Education
- ☐ Community Organizations
- ☐ Occupational Organizations
- ☐ Major Families, Individuals and Events

USE BLACK INK ONLY

DELAWARE DIVISION OF HISTORICAL AND CULTURAL AFFAIRS
STATE HISTORIC PRESERVATION OFFICE
21 THE GREEN, DOVER, DE 19901

CULTURAL RESOURCE SURVEY
STRUCTURE (LAND FEATURE) FORM

CRS # N06670

1. **ADDRESS/LOCATION:** Located on the White Clay Creek, within the grounds of The White Clay Creek Country Club, Stanton Vicinity, White Clay Creek and Mill Creek Hundred

2. **FUNCTION:** Mill Dam and Race

3. **YEAR BUILT:** 1773-1777 **CIRCA?:** ☒ **ARCHITECT/BUILDER:** N/A

4. **INTEGRITY:**

list major changes with years (if known)	year
a. Poured concrete stabilization	1900
b.	

5. **CURRENT CONDITION:** excellent ☐ good ☐ fair ☒ poor ☐

6. **DESCRIPTION:**

a) Circulation system: Race way for mill runs roughly east from the dam towards the site of the original mill, just north of the Hale-Byrnes House on the White Clay Creek. Race way was originally contained within 33 feet wide space and currently ranges from approximately 3 feet to 8 feet wide and 2 feet to 4 feet deep. Race way appears to still follow its original layout, although the direction of the Creek has been altered over the years. A portion of the raceway was merged into the Creek in the mid-20th century.

b) Spatial subdivisions: N/A

c) Retaining wall/lining material(s): Fieldstone abutments were originally located on each side of the Creek; only the one on the south side currently survives. The remaining stone abutment is almost square measuring 14 feet by 14 feet 9 inches, with two additional attached supports. The abutment is coated in poured cement over the fieldstone, dated 1900, for stabilization of the structure. The arm that extends into the creek measures 11 feet by 4 feet 10 inches. The arm that extends along the side facing the millrace is 27 feet 2 inches long and 2 and half feet in width, but varies.

d) Other: The milldam wall, spans from the field stone abutment on the south side of the White Clay Creek, to the remains of the abutment, now breached, on the north side, and is 76.5 feet in length. The logs are squared hewn timbers, which measure on average 9.75 inches wide. The milldam wall is constructed with timbers laid across the creek, notched neatly together with logs running parallel to the course of the creek, and strongly bolted together with large wrought iron spikes measuring 2 feet 3 inches in length, and 1 inch square in area. The milldam apron, which originally would have spanned across the entire creek, exists only on the south side of the river, and extends 22 feet 7 inches into the creek. The apron is entirely submerged, under approximately two feet of water. The milldam apron is planked and is pinned on a foundation that extends underneath the dam wall face.

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15 THE GREEN, DOVER, DE 19901

CULTURAL RESOURCE SURVEY MAP FORM

CRS # N06670

1. **ADDRESS/LOCATION:** Located on the White Clay Creek, within the grounds of The White Clay Creek Country Club, Stanton Vicinity, White Clay Creek and Mill Creek Hundred

2. **NOT FOR PUBLICATION** ☐ **reason:** _____

3. **LOCATION MAP:**

INDICATE NORTH ON SKETCH

4. SITE PLAN:

CRS # **N06670**

INDICATE NORTH ON PLAN

USE BLACK INK ONLY

DELAWARE STATE HISTORIC PRESERVATION OFFICE

PHOTOGRAPHIC INVENTORY – DIGITAL IMAGES

Disc #	**Surveyor**	**Date**
_____	**CHAD Staff**	**March-October 2011**

White Clay Creek Dam #1 (N06670))
Located within the grounds of the White Clay Creek Country Club
White Clay Creek and Mill Creek Hundred
Stanton vicinity
New Castle County, Delaware

File name (start w/CRS #)	Description of view
N06670_White Clay Creek Dam One_001	Environmental view of the dam looking east
N06670_White Clay Creek Dam One_002	Environmental view of the northern breached abutment facing south east
N06670_White Clay Creek Dam One_003	Environmental view of the southern abutment from northern bank facing south
N06670_White Clay Creek Dam One_004	Environmental view of the dam facing south
N06670_White Clay Creek Dam One_005	Environmental view of the dam facing south
N06670_White Clay Creek Dam One_006	View of southern field stone abutment looking south west
N06670_White Clay Creek Dam One_007	View of the breached dam wall, looking west
N06670_White Clay Creek Dam One_008	Detail of southern field stone abutment looking north west
N06670_White Clay Creek Dam One_009	View of the breached milldam wall facing north west
N06670_White Clay Creek Dam One_010	Detail of milldam wall, showing the cement stabilization and wood joinery, looking west
N06670_White Clay Creek Dam One_011	Detail of the breached milldam wall, and the breached northern abutment, facing north west
N06670_White Clay Creek Dam One_012	Detail of side of southern field stone abutment, facing south west
N06670_White Clay Creek Dam One_013	Detail of southern field stone abutment, and milldam wall, facing south east
N06670_White Clay Creek Dam One_014	View of northwest side of southern field stone abutment, milldam wall, and cement stabilization, looking south east
N06670_White Clay Creek Dam One_015	Detail of north western side of southern field stone abutment, milldam wall, and cement stabilization facing north east
N06670_White Clay Creek Dam One_016	Detail of northwest side of southern field stone abutment, facing southeast
N06670_White Clay Creek Dam One_017	Detail of northwest corner of southern field stone abutment, facing south east

N06670_White Clay Creek Dam One_018	View of southwest side of southern milldam abutment, and mill raceway facing northeast
N06670_White Clay Creek Dam One_019	Detail of southeast end of southwest side of southern milldam abutment, facing northwest
N06670_White Clay Creek Dam One_020	Detail of milldam wall, concrete stabilization, and southern field stone abutment, facing south east
N06670_White Clay Creek Dam One_021	Detail of notching of milldam wall, and apron (underwater) facing south
N06670_White Clay Creek Dam One_022	Detail of construction of milldam wall, facing south west
N06670_White Clay Creek Dam One_023	Construction detail of milldam wall, showing wrought-iron spikes, notching, and the southern stone abutment facing south
N06670_White Clay Creek Dam One_024	View of raceway, facing southeast from the White Clay Creek
N06670_White Clay Creek Dam One_025	View of raceway, looking east from the White Clay Creek
N06670_White Clay Creek Dam One_026	Detail of field stone embankment along the raceway, looking east
N06670_White Clay Creek Dam One_027	View of the dug raceway, looking east
N06670_White Clay Creek Dam One_028	View of raceway, looking north east
N06670_White Clay Creek Dam One_029	View of raceway, looking north east

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CULTURAL RESOURCE SURVEY
DIGITAL PHOTOGRAPHS FORM

CRS # **N06670**

Date 10/14/2011 Disc # _____ Surveyor CHAD Staff

Insert photographs; note file name and brief description of view:
(size photograph 3" on longest side; MAINTAIN ASPECT RATIO – DO NOT STRETCH PHOTO)

N06670_White Clay Creek Dam One_001

N06670_White Clay Creek Dam One_002

N06670_White Clay Creek Dam One_003

N06670_White Clay Creek Dam One_004

N06670_White Clay Creek Dam One_005

N06670_White Clay Creek Dam One_006

N06670_White Clay Creek Dam One_007

N06670_White Clay Creek Dam One_008

N06670_White Clay Creek Dam One_009

N06670_White Clay Creek Dam One_010

N06670_White Clay Creek Dam One_011

N06670_White Clay Creek Dam One_012

N06670_White Clay Creek Dam One_013

N06670_White Clay Creek Dam One_014

N06670_White Clay Creek Dam One_015

N06670_White Clay Creek Dam One_016

N06670_White Clay Creek Dam One_017

N06670_White Clay Creek Dam One_018

N06670_White Clay Creek Dam One_019

N06670_White Clay Creek Dam One_020

N06670_White Clay Creek Dam One_021

N06670_White Clay Creek Dam One_022

N06670_White Clay Creek Dam One_023

N06670_White Clay Creek Dam One_024

N06670_White Clay Creek Dam One_025

N06670_White Clay Creek Dam One_026

N06670_White Clay Creek Dam One_027

N06670_White Clay Creek Dam One_028

N06670_White Clay Creek Dam One_029