

2.2 Existing Facilities

The HPL contains 51 structures, including the UMCES Administration Building and Well house. Of the total current facilities, 14 structures are part of the original DuPont estate. Most of those buildings were built prior to 1950 and later adapted to the needs of a modern environmental research laboratory. The original property consisted of a private residence with small support buildings (caretakers residence, bath house, farm buildings such as a barn, chicken house, pump house, etc,) some of which have been demolished.

There are 15 major facilities with the former DuPont residence serving as the UMCES Administration Building. Below is a summary of the current condition of all facilities at HPL. (See Table 2.1 for USM Building Condition Codes and Table 2.2 for more building information.)

370 UMCES Administration Building

This two story (basement and first floor) former residence of Francis V. DuPont overlooks the Choptank River and serves as the administrative headquarters for UMCES and is used for small conferences.

3701 Administration Building Well House

Brick facility holds the fresh water well equipment for the administration building and the dormitory.

3842 Algal Greenhouse

Formerly used for growing algae for the oyster hatchery. This building is slated for reuse on a different part of the Laboratory.

3841 Ambient Water Filtration Building

This one story building is used for the storage for field research materials.

396 Ambient Water Pumping Station

This concrete block building supplies the ambient Choptank River water to give campus research facilities seawater.

399 AREL (Aquaculture and Restoration Ecology Laboratory)

Newest research lab at HPL houses oyster research and restoration in a two story building. Attached to AREL is the HPL Greenhouse which used to support oyster research.



1. The former DuPont Residence



2. AREL



3. IAN Building

384 Aquaculture Hatchery

Former home for both the oyster and finfish hatchery which was supplanted by the AREL Building. Outside tanks are still used for oyster setting. This building, which contains some asbestos, is slated for demolition.

3761 Barn Complex Well House

Contains tanks and piping for freshwater distribution to parts of the campus.

351 Canoe Shed

This is a one story structure used to provide secure storage for canoes. It is located along the Cove Trail.

391 Chemical Storage

This facility is being renovated to be a Biosafety Lab II.

386 Coastal Science Laboratory

This one story structure is one of the main lab buildings at HPL and provides research laboratory/support space, faculty offices, classroom and meeting rooms including two studio locations to hold interactive video conferencing, as well as the administrative offices, library. The laboratory cannot accommodate the analytical and chemistry research currently underway and the utility systems are inadequate. Modifications to accommodate the rapid growth to the laboratory have jeopardized the efficiency of the mechanical and electrical systems.

398, 3981, 3982 Environmental Education Activity Building & EE Residential Facility

The Environmental Education Activity Building, (398), is an activities/shower/toilet facility, which includes a dining room, commercial grade kitchen, receiving area, a small classroom, a wet laboratory, boys and girl's toilet and shower facilities, conference room, and an office. In addition, there is an outdoor dining area and two outdoor showers. EE Residential Facility, (3981-3982) have two bunk style sleeping rooms for extended stay programs. They are separated by a lounge.

3521, 3522, 3523, 3524, & 3525 Adirondack Shack (Environmental Education Shelters)

These five shelters, part of the Cove Trail, provide rustic accommodations for three to four participants each on overnight trips.



1. Water Pump Station



2. Student Dormitories



3. Coastal Science Building

350, 3501 Environmental Education Pavilion & Well House

This is a one story structure used for year round protection from inclement weather as well as a gathering space and eating facility with a vented barbecue pit for Cove Trail tour groups.

388 Environmental Information Center

This is a one-story building that serves as the computer center and computer laboratory for HPL.

394 Fish Systematics Laboratory

This is a one-story research laboratory facility.

355 Forest Classroom

This structure along the Forest Environmental Education Trail is a tree house for gatherings and a rest area.

371 Integration and Application Network (IAN)

Formerly the bathhouse of the DuPont estate, these are currently used as offices for IAN.

3711 Generator Building

Constructed as part of the DuPont estate to provide emergency generator backup to the residence, bathhouse, and greenhouse.

377 Lakes Cove Dormitory

This two-story modular structure provides living accommodations for 28.

The facility contains two efficiency apartments with a capacity of two each and twelve double rooms. There is a common kitchen, dining, and living room/lounge area.

3901 Learning Center Well House

Well house contains freshwater pumping equipment for the former Learning Center.

381 Maintenance Complex

This one story "U" shaped complex houses offices, the HVAC/plumbing shop, the carpenter shop, spray booth and paint storage, automotive shop and storage, wash bay, equipment storage, warehouse, grounds keeping storage, lounge/lunch room, and men's and women's lockers/showers.



1. Setting Pier



2. Oyster Research at AREL



3. Current Map Room

3811 Maintenance Complex Well House

Building holds fresh water equipment for maintenance building well.

387 Morris Marine Science Laboratory

This one story structure provides research laboratory space for the investigation of fish ecology, physical oceanography, and oyster physiology. It houses an analytical laboratory for water quality analyses, aquaculture studies, and a sediment laboratory used to study the chemical and geological techniques for determining rates of sediment accumulation and release of nitrogen and phosphorus. In addition, this facility provides a water quality control room for both full strength ocean water and variable salinity water and offices and meeting space for the researchers. Designed as a wet laboratory, the building now contains renovated dry laboratory facilities.

3871 MMS Well House

Well house holds well pumping equipment to supply the water tower, which is the main source of potable water and fire sprinkler supply for the campus.

392 Research Support Maintenance

This facility houses the machine shop.

378 Submerged Aquatic Vegetation (SAV) Laboratory

This is a one-story structure serving as a combination of wet and dry research laboratories.

385 Seafood Science Technology Building

This structure houses tanks and chillers to simulate winter temperatures for oysters in order to control spawning.

3712 Secured Storage

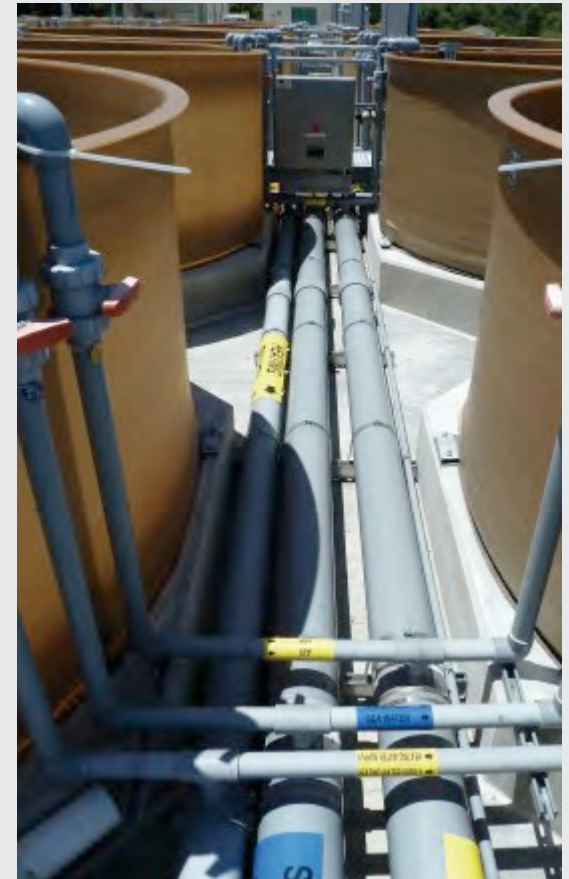
This one story, former "Dog House" provides HPL with secure general storage.

375 Visiting Faculty Residence

This facility serves as housing for visiting faculty.

395 Widgeon Pavilion

This is an open air, roof covered structure that provides for multiple uses ranging from picnics and gatherings to outdoor meetings.



2. Oyster Research



3. Environmental Education Bulkhouse

3951 Widgeon Pavilion Restrooms

This is a one story freestanding structure housing separate men and women's restroom facilities.

3861 Well House

Well house holds freshwater pumping equipment for the laboratory complex.

TABLE 2.1*

Building Number	Building Name	Total GSF	Building NASF	Efficiency	Year Constructed	Replace Value	Condition Code	Renovation Cost
370	UMCES Administration Bldg	10,369	6,120	0.59	1950	2,984,100	2	746,025
3701	UMCES Admin Well house	225	0	0.00	1950	32,239	2	3,224
3842	Algal Greenhouse	1,800	1,700	0.94	1980	8,400	2	840
3841	Ambient Water Filtration	672	0	0.00	1992	492,547	2	49,255
396	Ambient Water Pump St.	983	0	0.00	1992	501,502	4	325,976
399	AREL Research Lab	65,600	33,338	0.51	2003	29,382,000	1	2,938,200
3991	AREL Ozone Generator	192	173	0.90	2005	12,000	1	1,000
384	Aquaculture Hatchery	6,000	4,960	0.83	1975	3,165,695	4	2,057,702
3761	Barn Well House	305	0	0.00	1974	27,008	3	10,803
3911	Chemical Storage	395	316	0.80	2002	89,591	1	8,959
386	Coastal Est. Sci. Lab	25,760	19,822	0.77	1980	13,838,501	3	5,535,401
3861	Coastal Lab Well house	240	0	0.00	1981	20,633	2	8,253
3873	Compressed Gas Storage	160	0	0.00	2005	5,000	1	500
3872	Dive Locker	160	0	0.00	2005	10,000	1	1,000
398	Env. Ed. Activity Bldg	7,165	6,050	0.84	1993	2,062,019	2	824,808
3521	Env. Ed. Adirondack	128	0	0.00	1989	14,329	4	5,731
3522	Env. Ed. Adirondack	128	0	0.00	1989	14,329	4	5,731
3523	Env. Ed. Adirondack	128	0	0.00	1989	14,329	4	5,731
3524	Env. Ed. Adirondack	128	0	0.00	1989	14,329	4	5,731
3525	Env. Ed. Adirondack	128	0	0.00	1990	14,329	4	5,731
351	Env. Ed Canoe Shed	720	0	0.00	1983	35,056	2	14,023
350	Env. Ed. Pavilion	1,176	0	0.00	1985	104,136	3	41,654
3981	Env. Ed. Residential Bld	1,627	1,240	0.76	1993	288,145	3	115,258
3982	Env. Ed. Residential Bld	1,627	1,240	0.76	1993	288,145	3	115,258
3501	Env. Ed Wellhouse	96	0	0.00	1988	24,760	2	9,904
388	Environmental Information Center	3,523	2,083	.59	2011	2,000,000	1	800,000

* Information for Table 2.1 was obtained from UMCES SGAP 2011.

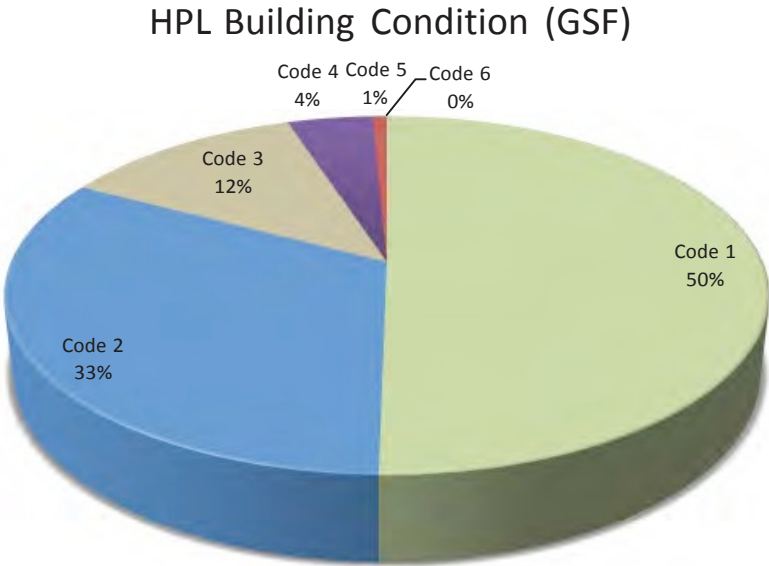
TABLE 2.1 (continued)

Building Number	Building Name	Total GSF	Building NASF	Efficiency	Year Constructed	Replace Value	Condition Code	Renovation Cost
3763	Fiber Optic Bldg	108	0	0.00	2003	10,000	1	1,000
394	Fish Systematics Lab	672	450	0.67	1992	178,519	1	17,852
355	Forest Classroom	379	339	0.89	1987	97,750	4	9,775
3711	Generator Building	560	0	0.00	1950	72,216	5	72,216
371	IAN Facility	1,584	1,267	0.80	1925	420,794	1	168,318
3901	Learning Cnt Well house	48	0		1945	6,190	4	4,023
381	Maintenance Complex	12,800	10,240	0.80	1982	3,683,718	2	368,372
3811	Maintenance Well House	310	0	0.00	1982	39,977	1	3,998
3871	Morris Lab Well house	300	0	0.00	1989	25,792	2	2,579
387	Morris Marine Lab	26,500	21,200	0.80	1989	14,236,036	3	1,423,604
382	Museum Cottage	1,005	853	0.85	1937	172,803	5	112,322
383	Museum Hangar	2,458	1,540	0.63	1937	422,637	4	274,714
3992	Microsia Filter Bldg	160	144	0.90	2006	5,000	1	1,000
373	Oyster Culture Facility	2,200	2,200	1.00	2001	30,000	1	19,500
348	Oyster Setting Facility	21,000	18,508	0.88	2010	9,500,000	1	6,175,000
3731	Oyster Culture Facility II	3,072	2,458	0.80	2006	90,000	1	10,000
392	Research Support Maint.	3,710	2,986	0.80	1988	1,423,604	2	142,360
378	SAV Laboratory	2,228	1,782	0.80	1986	854,930	2	85,493
385	Seafood Tech Lab	1,725	1,639	0.95	1937	481,979	4	313,286
3712	Secured Storage	160	128	0.80	1950	27,511	2	2,751
374	Storage	470	376	0.80	1930	80,813	3	32,325
375	Visiting Faculty Residence	1,503	1,202	0.80	1948	419,951	1	41,995
377	Visitor Student Housing	7,700	6,160	0.80	1989	2,151,443	2	215,144
391	Warehouse 1	3,000	2,687	0.90	1992	773,746	2	77,375
395	Widgeon Pavilion	3,200	0	0.00	1990	447,053	1	44,705
3951	Widgeon P. Restrnm	148	0	0.00	1992	19,086	3	4,771
HPL Totals		226,435	153,201			91,114,667		23,261,179

* Information for Table 2.1 was obtained from UMCES SGAP 2011.

TABLE 2.2

The table below references the building condition codes from the previous Table 2.1. The percentages shown reflect the number of buildings with that particular code assigned to it.



Building Condition Code:

1.	Satisfactory	Suitable for continued use with normal maintenance.
	Remodeling – A	Requires restoration to present acceptable standards without major room changes, alterations, or modernization. The approximate cost of remodeling is not greater than 25% of the estimated replacement cost of the building.
3.	Remodeling - B	Requires major updating and/or modernization of the building. The approximate cost of remodeling is greater than 25% but not greater that 50% of the estimated cost of the building.
4.	Remodeling - C	Requires major remodeling of the building. The approximate cost of remodeling is greater than 50% of the remodeling/replacement cost of the building.
5.	Demolition	Should be demolished or abandoned because the building is unsafe or structurally unsound, irrespective of the need for the space or the availability of funds for replacement. This category takes precedence over categories 1, 2, 3, and 4.
6.	Termination	Planned termination or relinquishing or occupancy of the building for reasons other than unsafeness or structural unsoundness, such as abandonment of the temporary units or vacating of leased space. This category takes precedence over categories 1, 2, 3, and 4.