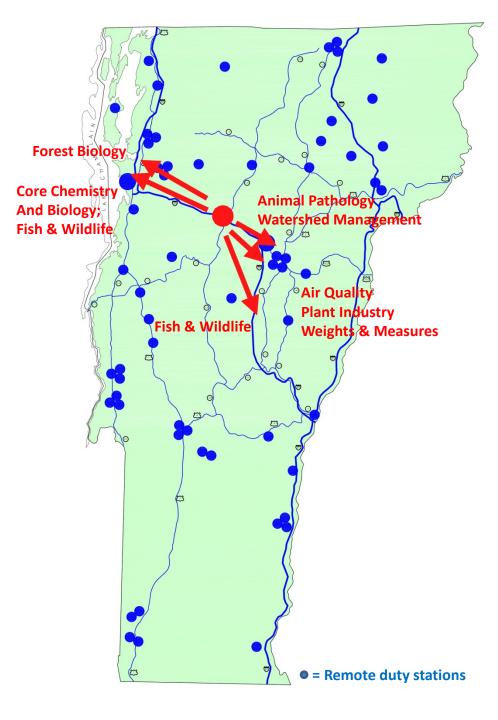


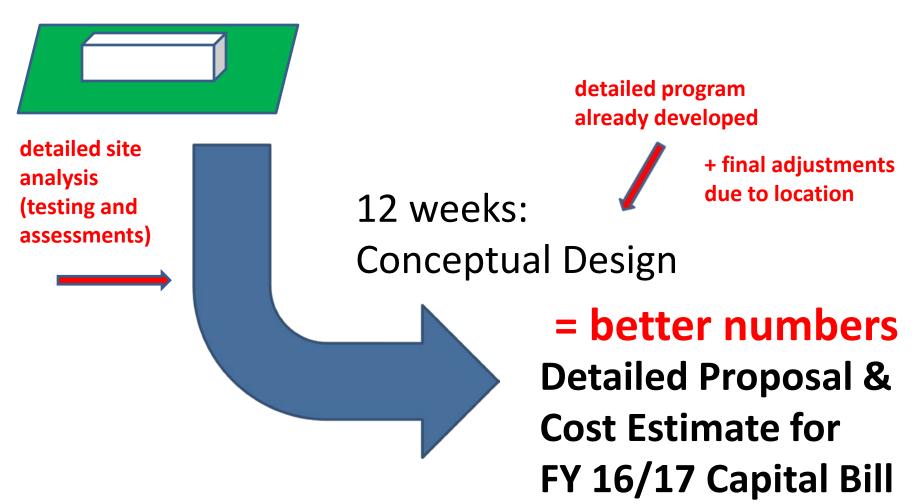
Ag/ANR Lab after TS Irene, August 28, 2011

Agencies of Agriculture & Natural Resources Collaborative Laboratory
Presentation to HCIC and SIC • August 27, 2014



- All programs are now in rented space in five locations.
- UVM lease scheduled to end August 2017
- SLAM feasibility study endorsed a collaborative lab.
- With sustained effort, we can finish construction by the end of 2017

The focus today is site selection.



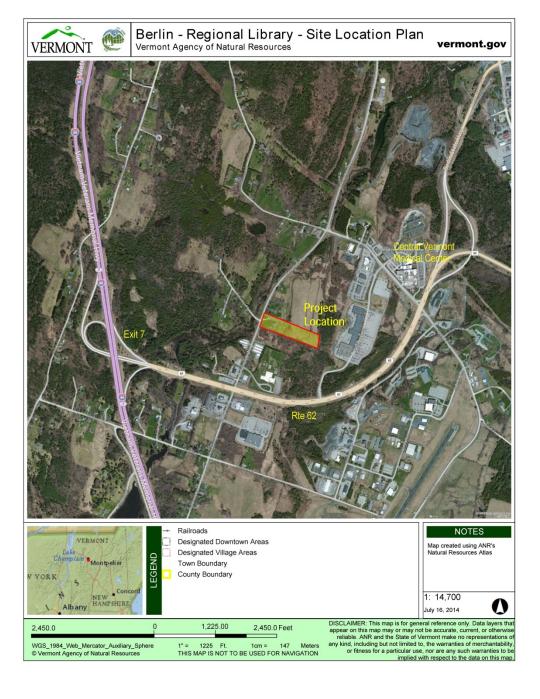
FIRST LOOK: STATE SITES

- Waterbury
- 195 Colchester Ave, Burlington
- Berlin Regional Library
- F & W land, Berlin

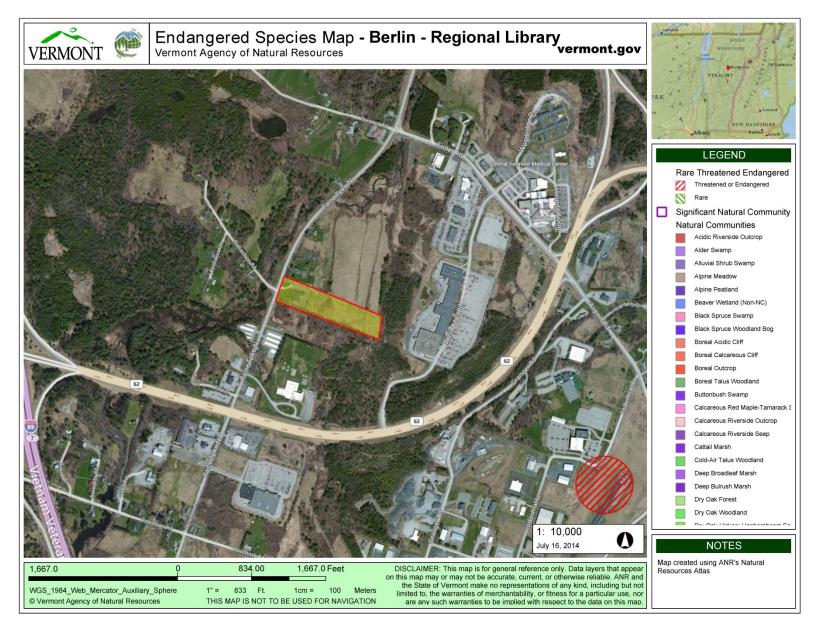
SECOND LOOK: REQUEST FOR SITE PROPOSALS

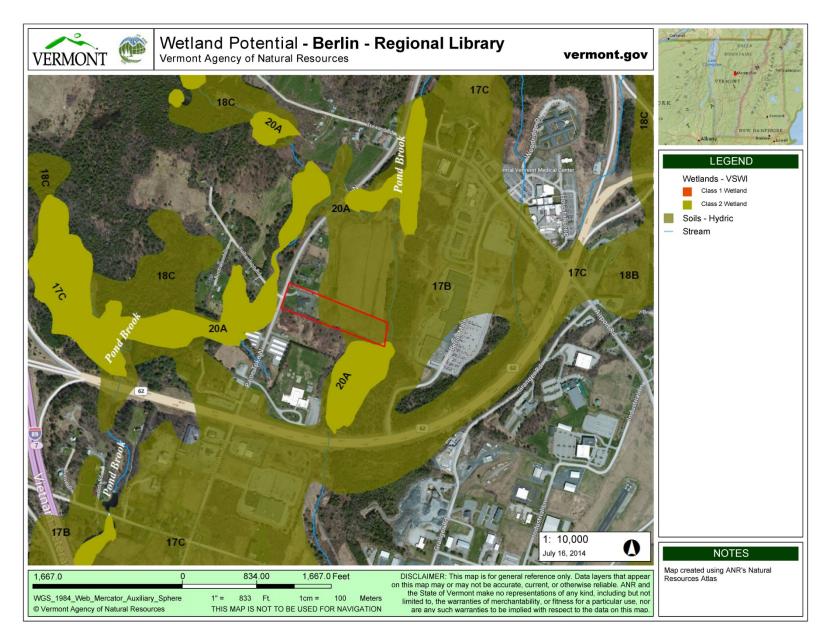
- 11 landowners offered 12 sites between Randolph and Milton
- UVM offered two sites
- VTC offered one site

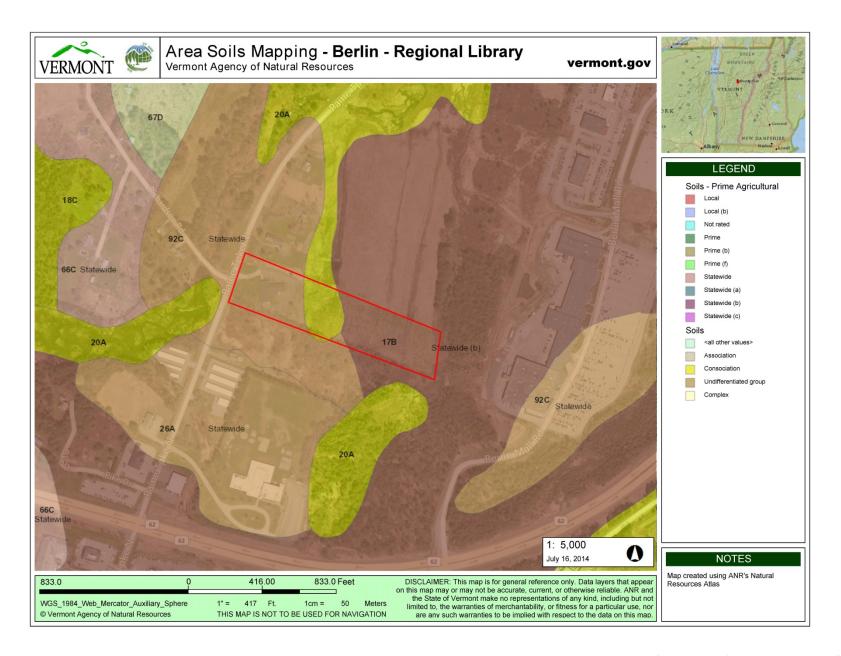
= 19 SITES



Example of PRELIMINARY SITE REVIEW







Example: Berlin Regional Library





Example: Berlin Regional Library

Permitting Summary

Municipal

Zone: Town Center. Laboratory use is prohibited. There is a precedent established in Berlin to honor Title 24. 15' front yard setback; 10' side and rear yard setback. Building height 45' Lot coverage 75%

State

<u>Wastewater</u> – The project will rely upon the timely construction of the extension of municipal sewer to this portion of the Town of Berlin. This is scheduled to occur in the near future. A modest water and sewer allocation will be required to be acquired from the Town for this project. There are no other known technical issues associated with the acquisition of is permit.

<u>Water Supply</u> – The project may require the acquisition of a Permit to Construct from the Water Supply Division if a hydrant is required on the property. Fire Flow Capacity may become an issue as this is located at the higher portion of the proposed distribution system.

<u>Construction Stormwater</u> – The project may qualify for a Low Risk Authorization under the State Construction Stormwater General Permit.

<u>Operational Stormwater</u> – Coverage under the State Operation Stormwater General Permit will be required as amount of impervious area on the property exceeds the one acre jurisdictional limit. The extent of the mitigation may change as the State is in the process of modifying the Stormwater Rules to require additional on-site retention of storm events.

<u>Wetlands</u> – The project does extend into the wetland buffer thereby requiring the acquisition of a State Wetland Permit.

Stream Alteration - not applicable

Act 250 – Currently the parcel is less than 10 acres and barring any other jurisdictional triggers associated with the creation of residential units or lots within the last 15 years and 5 miles of this site, Act 250 jurisdiction should not attach to this project.

Federal

<u>Corps of Engineers</u> – The project is not proposing any wetland impact, therefore no authorization should be required.

<u>NEPA</u> – Many of the criterions otherwise handled within the Act 250 process will need to be addressed as part of the NEPA review. Items of exposure are archaeological issues (much of the site has been disturbed but sits on fill perhaps encapsulating sensitive items) and traffic impacts.

SCORING PROCESS

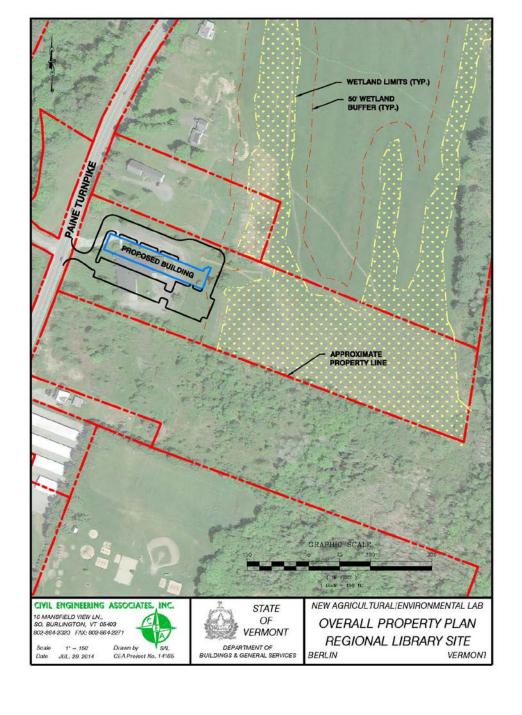
- Members of BGS, AAFM, and ANR
- 8 criteria, weighted equally: 5 points each
 - Ability to accommodate program
 - Physical characteristics
 - Utility service
 - Ease of zoning and permitting
 - Neighborhood/context
 - Construction challenges (demolition, traffic, etc)
 - Benefits to program staff and users
 - Benefits to Agencies and State of Vermont

Acquisition cost was not considered in the scoring.

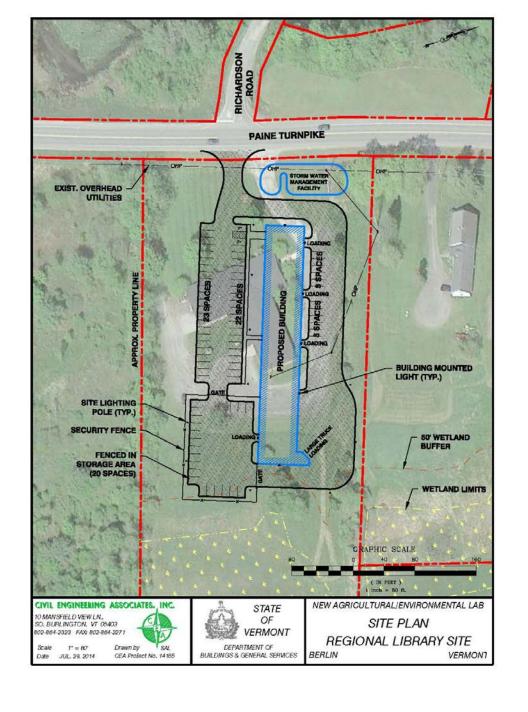
VERMONT AGENCIES OF AGRICULTURE & NATURAL RESOURCES LAB FACILITY FACILITY SITE OPTIONS CRITERIA SCORING SUMMARY										
SITE	VARIATION	CRITRION 1	CRITERION 2 PHYSICAL	CRITERION 3 UTILITIES	CRITERION 4 ZONING	CRITERION 5 NEIGHBORHOOD	CRITERION 6	CRITERION 7	CRITERION 8 BENEFITS	TOTAL
1	Milton	2.8	2.8	3.2	2.8	3.2	3	1.2	1.2	20.2
2	Colchester Severance	4.3	4.2	4.3	3.7	4	4.8	1.7	2.2	29.2
3	Colchester Health Lab	3.5	3.3	4.8	4.5	4.2	4	2.2	3.3	29.8
4	Burlington 195 Colchester	1.2	1.5	4.8	2	2	1	1.5	3.2	17.2
5	So Burl Spear St	3.3	3.5	4.7	3	3.8	3.8	2.3	3.8	28.2
6	So Burl Tech Park	3.5	3.8	4.8	4.3	4.5	3.3	2.2	2.2	28.6
7	So Burl Hinesburg Rd	4	4.3	4.8	4.2	3.5	4.2	1.3	1	27.3
8	Richmond Rte 2	2.3	3	1.5	2.5	2.2	3	1.7	1.3	17.5
9	Richmond Creamery	2.3	3.3	4.3	3.8	2.7	3.5	1.8	2.5	24.2
10	Waterbury	4	3.7	4.3	4	2.8	3.8	4	4	30.6
11	Montpeller Armory	2	2.7	4.5	3.3	3.8	3.5	4	3	26.8
12	Montpelier 2 Rivers Farm	4.2	2.8	4.3	3.3	3.8	2.7	3.7	3	27.8
13	Berlin F&W Land	3.7	2.2	1.2	3.2	2.8	3.5	3.8	2.8	23.2
14	Berlin Route 12	3.8	3.5	1.8	3.2	3.7	3.2	4.3	3.7	27.2
15	Berlin Dog River Rd	4.2	3.8	2	3.8	3.7	3.7	4.3	3.7	29.2
16	Berlin Regional Library	3.3	3.2	4.2	2	3.7	2.7	3.5	3.5	26.1
17	Berlin Back Field	4.5	3.5	4.2	2	4	3.7	3.7	3.7	29.3
18	Randolph VTC Campus	4.5	4.5	4	4.3	4	4.5	3.6	4.6	34
19	Randolph Exit 4	3.6	2.4	2.6	2.8	3.2	3.6	2.8	3	24

TABULATED SCORES FOR EACH SITE

<u> </u>	LOCATION	SCORE	CRITERIA	A 1-6	CRITER	IA 7 & 8	Acquisition Cost	Site Devel.	Peripheral Cost	TOTAL COST
1	Randolph: VTC	34	25.8	(#1)	8.2	(#1)	\$50	\$840,000	\$50,000 (1) (\$ 470,000) (2)	\$370,00
2	Waterbury	30.6	22.6	(#6)	8	(#2 tie)	\$0	\$1,460,000	(\$1,130,000) (2)	\$330,00
3	Colchester: Health Lab	29.8	24.3	(#4)	5.5	(#12)	\$50	\$660,000		\$660,00
for 4	Berlin: Back Lot	29.3	21.9	(#8)	7.4	(#5)	\$1,200,000	\$1,140,000		\$2,340,00
for 4	Berlin: Dog River Rd	29.2	21.2	(#9)	8	(#2 tie)	\$632,500	\$1,450,000		\$2,082,00
for 4	Colchester: Severance Rd	29.2	25.3	(#2)	3.9	(#16)	\$1,260,000	\$550,000		\$1,810,00
7	So Burl: Tech Park	28.6	24.2	(#5)	4.4	(#14)	lease	< \$500,000		n
8	So Burl: Spear St	28.2	22.1	(#7)	6.1	(#10)	\$50	average		\$700,000
9	Mplr: 2 Rivers Farm	27.8	21.1	(#10)	6.7	(#8)	\$245,000	very high		\$1,050,00
10	So Burl: Hinesburg Rd	27.3	25.0	(#3)	2.3	(#19)	\$725,000	average		\$1,400,00
11	Berlin: Rte 12	27.2	19.2	(#13)	8	(#2 tie)	\$400,000	abv. average		\$1,200,00
12	Mplr: Armory	26.8	19.8	(#12)	7	(#6 tie)	lease	abv. average		n
13	Berlin: Regional Library	26.1	19.1	(#14)	7	(#6 tie)	\$0	\$810,000	\$3,700,000 (3)	\$4,510,00
14	Richmond: Creamery	24.2	19.9	(#11)	4.3	(#15)	\$575,000	abv. average		\$1,400,00
15	Randolph: Exit 4	24	18.2	(#15)	5.8	#11)	\$500-750k	abv. average		\$1,300,00
16	Berlin: F&W Land	23.2	16.6	(#17)	6.6	(#9)	\$0	\$1,720,000	\$170,000 (4)	\$1,720,00
17	Milton	20.2	17.8	(#16)	2.4	(#18)	\$550,000	average		\$1,200,00
18	Richmond: Rte 2	17.5	14.5	(#18)	3	(#17)	\$1,250,000	abv. average		\$2,100,00
19	Burl.: 195 Colchester Ave	17.2	12.5	(#19)	4.7	(#13)	\$0	very high		\$950,00
lotes:	(1) replace orchard if south lot is chosen (2) shared heat plant: equipment savings (3) replace library structure elsewhere (4) possible compensation to F&W			,	Average: approx Above average: \$ Very high: \$950,	800,000 - \$950,000				
			40							



Example of SITE ANALYSIS (Site Plan)



Example of SITE ANALYSIS (Site Plan)

Regional Library Site Berlin

Summary of Estimate of Probable Site Development Cost August 8, 2014

Description	Qty	Unit		Unit Cost		Cost
Site & Building Demolition	1	LS	х	\$21,000	=	\$21,000
Mass Earthwork	6,667	CY	х	\$15.00	=	\$100,000
Rock Removal	10	CY	х	\$40	=	\$400
Supplemental Foundation Costs	1	LS	х	\$12,000	=	\$12,000
Sewer Disposal	1	LS	х	\$2,800	=	\$2,800
Water Supply	1	LS	х	\$30,400	=	\$30,400
Stormwater Management	1	LS	х	\$56,000	=	\$56,000
Site Development Components	1	LS	х	\$100,200	=	\$100,200
Special Site Conditions	1	LS	х	\$1,000	=	\$1,000
Retaining Walls	1	SF	х	\$4,800	=	\$4,800
Communications Utilities	1	LS	х	\$32,000	=	\$32,000
Pavement Surfaces	50,585	SF	х	\$5.44	=	\$275,334
Wetland Mitigation Measures	1	LS	х	\$2,800	=	\$2,800
Environmental Permitting	1	LS	х	\$1,000	=	<u>\$38,200</u>

Subtotal \$676,934

20% Contingency <u>\$133,066</u>

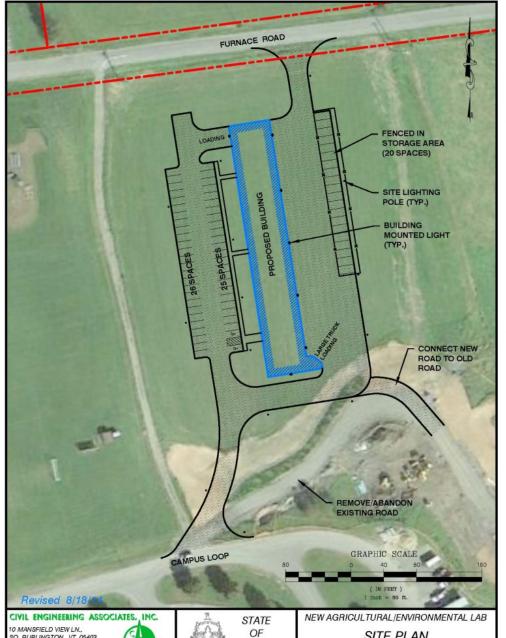
Total \$810,000



Not included:

Landscaping, foundation work, sidewalks and ramps, signage, solar infrastructure, or solar panels.

Example of SITE ANALYSIS (Cost Estimate)



VERMONT

RANDOLPH

DEPARTMENT OF

BUILDINGS & GENERAL SERVICES

SO. BURLINGTON, VT 05403

JUL 29. 2014

802-864-2323 FAX: 802-864-2271

SAL

Drawn by

CEA Project No. 14165

SITE PLAN

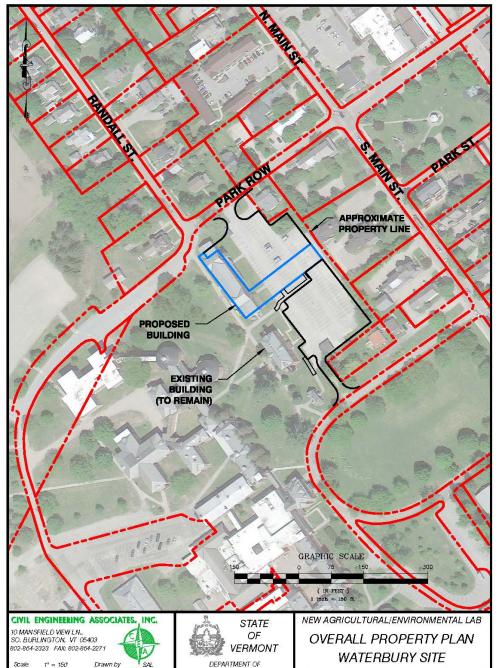
VTC SITE - NORTH

VERMONT





VTC/RANDOLPH SITE



BUILDINGS & GENERAL SERVICES

Date JUL. 29. 2014

CEA Project No. 14165

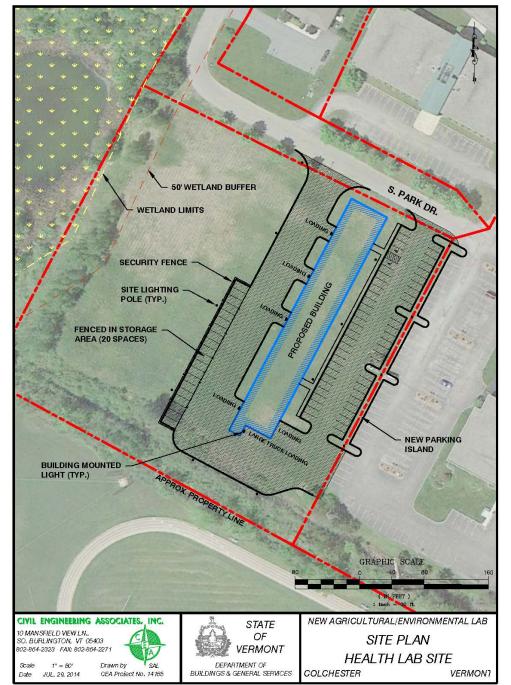
WATERBURY

VERMON1





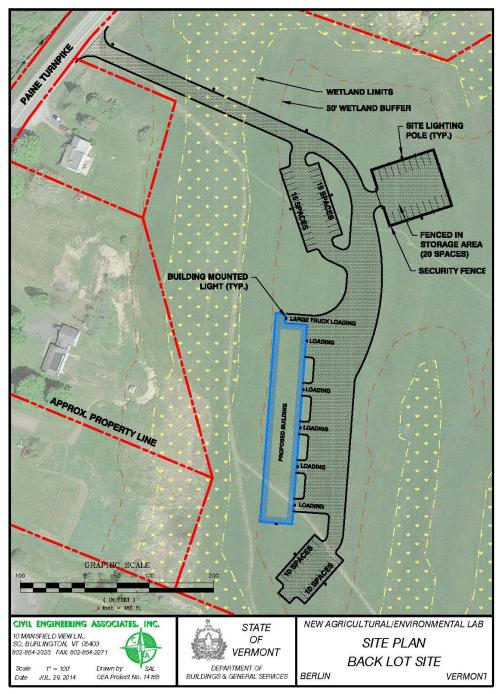
WATERBURY SITE







UVM/COLCHESTER SITE







BERLIN "BACK LOT" SITE

Agencies of Agriculture and Natural Resources Collaborative Library COMPARISON OF THE FINAL FOUR SITES

14.5/30 (#3) = scored points/possible points (rank out of 19 sites)

Legend

Criterion	Randolph RANK #1	Waterbury RANK #2	Colchester RANK #3	Berlin RANK #4
Buildability (1-6)	25.8/30 (#1) open land; easy utilities; easy permitting; agreeable neighborhood; good construction site	22.6/30 (#6) tight site; stormwater problems; height could be an issue with neighbors; average site for construction	24.3/30 (#4) tight site; have to screen exterior storage and it may be separated; utilities all available and complex is similar use; permitting easy	21.9/30 (#8) large site but has wetlands; roads and utilities have to be extended; use not permitted; neighborhood in transition; grades & soil small issue
Program & Customer Benefits (Crit. 7)	3.6/5 (#8) 24 miles from Montpelier 62 miles from Health Lab Closer for east, south & SW staff Closer for out-of-state customers Room for boat/trailer storage Ability to expand More central for sample drop off	4.0/5 (tied for #3) 13 miles from Montpelier 29 miles from Health Lab Closer for western staff Room for boat/trailer storage Ability to expand (Wasson?)	2.2/5 (tied for #12) 40 miles from Montpelier next to Health Lab Farther for all users except staff on western edge of state May lose space for boat/trailer storage No room to expand	3.7/5 (tied for #6) 4 miles from Montpelier 42 miles from Health Lab Optimal for users from NE Kingdom Middle for other users Room for boat/trailer storage Ability to expand Central for sample drop-off
SOV Benefits (Crit. 8)	4.6/5 (#1) Tech-oriented interns year-round Strong vet tech program; potential to share classrooms & programs CE tech program overlap with Wastewater training? Strong program benefit to VTC. VTC is already used as a meeting point Ag business incubator nearby Can use heat from VTC plant (no cooling) Is it good for the State to have a BSL-2+ lab remote from Burlington?	A.0/5 (#2) Removed from interns Potential to share meeting space with other State buildings Benefit to Village of Waterbury Waterbury is already used as a meeting point. Close to the Forensics lab Shared heating & cooling in Complex Maintenance staff can be shared.	3.3/5 (#8) Year-round interns Pre-vet program at UVM. Would not share meeting space/classrooms. Coud share meeting space with Health Lab Benefit to Health Lab and UVM. Next to the Health Lab Has to be stand-alone building Maintenance staff can be shared.	3.7/5 (tied for #4) Removed from interns Potential to share meeting space with other State buildings Negative impact on Berlin town center? Could create campus for heat/cooling. Maintenance staff can be shared.
Overall score	34.0/40 (#1)	30.6/40 (#2)	29.8/40 (#3)	29.3/40 (tied for #4)
Cost	Acquisition: \$1/yr ground lease Site Dev. Costs: \$840,000 \$840,000 Possible equipment savings from sharing heat: \$470,000 (\$370,000 net)	Acquisition: already owned Site Dev. Costs: \$1,460,000 \$1,130,000 Possible equipment savings from sharing heat and cooling: \$1,130,000 (\$ 330,000 net)	Acquisition: \$1/yr ground lease Site Dev. Costs: \$650,000 \$650,000 (\$660,000 net)	Acquisition: \$1,200,000 Site Dev. Costs: \$1,140,000 \$2,340,000 (\$2,340,000 net)

PROCESS OF ELIMINATION: BERLIN "BACK LOT"

Benefits:

- Proximity to Montpelier
- Room on site for exterior functions and future growth
- Possibility of sharing heating and cooling, but there is no existing infrastructure.

• Disadvantages:

- TOTAL COST. The "Back Lot" site costs about \$2 million more than the other top three sites.
- NO ADDITIONAL RESEARCH OR EDUCATIONAL BENEFIT

<u>Note</u>: There were seven sites in Berlin/Montpelier. All of them had similar high costs due to acquisition or obstacles such as flood plains, steep slopes, or distant utilities.

PROCESS OF ELIMINATION: UVM/HEALTH LAB

Benefits:

- Proximity to the Health Lab
- Strong research and educational benefit for lab and UVM

Disadvantages:

- LOT SIZE (2 ACRES). Difficult to accommodate exterior functions. No room for expansion.
- DISTANCE FROM AGENCY ADMINISTRATION.
- NO POSSIBILITY OF SHARED HEATING/COOLING.

<u>Note</u>: The Spear Street site has more space but no room for growth, and it is more difficult for staff and users to access.

PROCESS OF ELIMINATION: WATERBURY

Benefits:

- Close to other State properties
- Benefits Village of Waterbury
- Possibility of sharing heat and cooling

Disadvantages:

- SITE DEVELOPMENT COST. Most expensive to build on due to flood plain and tight urban site.
- NO ADDITIONAL RESEARCH OR EDUCATIONAL BENEFIT.
- THE PROPERTY MAY HAVE BETTER USE.

By building the lab at Randolph <u>and</u> a future building at Waterbury, heating and cooling savings are maximized. The net gain is as much as \$500,000.

RECOMMENDATION: VTC/RANDOLPH

Benefits:

- One of the least expensive sites to build on
- Central location for regional services
- Room on site for exterior functions and future growth
- Strong research and educational benefit for lab and VTC

Disadvantage:

DISTANCE FROM AGENCY ADMINISTRATION.

This site makes sense in terms of cost and wider benefits. The Agencies have the opportunity to envision new services and delivery that take advantage of the location.

FINAL SCORES

VTC/Randolph	34.0	#1
Waterbury	30.6	#2
 UVM/Health Lab 	29.8	#3
• Berlin	29.3	#4

The choice is yours on behalf of the General Assembly.

ACT 178 of 2014, Sec. 33

- a) On or before August 15, 2014, the Department of Buildings and General Services, the Agency of Agriculture, Food and Markets, and the Agency of Natural Resources shall submit a site location proposal for a shared laboratory to the House Committee on Corrections and Institutions and the Senate Committee on Institutions. It is the intent of the General Assembly that when evaluating site locations, preference shall be given to State-owned property.
- (b) With approval of the Speaker of the House and the President Pro Tempore, as appropriate, the House Committee on Corrections and Institutions and the Senate Committee on Institutions may meet up to one time when the General Assembly is not in session to evaluate the proposal described in subsection (a) of this section and make a recommendation on the site location to the Joint Fiscal Committee. ...
- (c) The Joint Fiscal Committee shall review the recommendation of the Committees described in subsection (b) of this section at its September 2014 meeting. If the Joint Fiscal Committee so determines, it shall approve the proposal as recommended by the Committees.
- (d) On or before December 1, 2014, the Department of Buildings and General Services, in consultation with the Agency of Agriculture, Food and Markets and the Agency of Natural Resources, shall develop a detailed proposal on the site location recommended by the Committees if approved by the Joint Fiscal Committee. The proposal shall include programming, size, design, and preliminary cost estimates for a shared laboratory.