

U.S. Department of Education Green Ribbon Schools

2011-2012 Presentation of Nominee to the U.S. Department of Education

Part I - Principal and Superintendent Eligibility Certification	.2		
Part II – Summary of Achievements		.4	
Part III - Documentation and Certification of State Nomination.	.4		
Attach State or Nominating Authority's Evaluation of School Nom	inee (E	ither application or o	ther
documentation of review)			

OMB Control Number: 1860-0509 Expiration Date: February 28, 2015

ED-GRS (2011-2012) Page 1 of 5

PART I - ELIGIBILITY CERTIFICATION

School and District's Certifications

The signatures of the school principal and district superintendent (or equivalents) on the next page certify that each of the statements below concerning the school's eligibility and compliance with the following requirements is true and correct.

The school has some configuration that includes one or more of grades K-12. (Schools on the same campus with one principal, even a K-12 school, must apply as an entire school.)

- The school achieves or comes close to achieving the goals of all three green Ribbon Pillars: 1) environmental impact and energy efficiency; 2) healthy school environments; and 3) environmental and sustainability education.
- 3. The school has been evaluated and selected from among schools within the state or Nominating Authority's jurisdiction (BIE, DoDEA), based on *documented achievement* toward the three Green School Pillars and Elements.
- 4. Neither the nominated public school nor its public school district is refusing the U.S. Department of Education Office of Civil Rights (OCR) access to information necessary to investigate a civil rights complaint or to conduct a district wide compliance review.
- 5. OCR has not issued a violation letter of findings to the public school district concluding that the nominated public school or the public school district as a whole has violated one or more of the civil rights statutes. A violation letter of findings will not be considered outstanding if OCR has accepted a corrective action plan to remedy the violation.
- 6. The U.S. Department of Justice does not have a pending suit alleging that the public school or the public school district as a whole has violated one or more of the civil rights statutes or the Constitution's equal protection clause.
- 7. There are no findings of violations of the Individuals with Disabilities Education Act in a U.S. Department of Education monitoring report that apply to the public school or public school district in question; or if there are such findings, the state or public school district has corrected, or agreed to correct, the findings.
- The school meets all applicable federal, state, tribal and local health, environmental and safety requirements in law, regulations and policy and is willing to undergo EPA on-site verification.

ED-GRS (2011-2012) Page 2 of 5

U.S,Department of Education Green Ribbon School 2012

(Specify: Ms., Miss, Mrs., Dr., Mr., etc.) (As it should appear in the official records) Official School Name The Gereau Center for Applied Technology and Career Exploration (As it should appear in the official records) School Mailing Address 150 Technology Drive (If address is P.O. Box, also include street address.) Rocky Mount VA 24151 City State Zip County Franklin State School Code Number* 1481 Telephone (540) 483-5446 Fax (540) 483-5788 Web site/URL http://gereau.frco.k12.va.us I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all the information is accurate. (Principal's Signature) Name of Superintendent* Dr. Charles H. Lackey (Specify: Mrs., Miss, Mrs., Dr., Mr., Other) District Name* Franklin County Public Schools Tel. (540) 483-5138 I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all information is accurate. I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all information is accurate. I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all information is accurate. Date March 15, 2012 (Superintendent's Signature)	For Public Schools only: (Check all that app	oly) [] Charter [] Title 1 [] Ma	gnet [] Choice
(As it should appear in the official records) School Mailing Address 150 Technology Drive (If address is P.O. Box, also include street address.) Rocky Mount VA 24151 City State Zip County Franklin State School Code Number* 1481 Telephone (540) 483-5446 Fax (540) 483-5788 Web site/URL http://gereau.frco.k12.va.us E-mail kevin.bezy@frco.k12.va.us I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all the information is accurate. Date March 15, 2012 (Principal's Signature) Name of Superintendent* Dr. Charles H. Lackev (Specify: Mrs., Miss, Mrs., Dr., Mr., Other) District Name* Franklin County Public Schools Tel. (540) 483-5138 I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all information is accurate. I concur that this is one of the highest performing green school applicants in our state. Date March 15, 2012 (Supermendent's Signature)	Name of Principal <u>Dr. Kevin G.Bezy</u> (Specify: Ms., Miss, Mrs., Dr., Mr., e	etc.) (As it should appear in the offi	cial records)
School Mailing Address 150 Technology Drive (If address is P.O. Box, also include street address.) Rocky Mount VA 24151 City State Zip County Franklin State School Code Number* 1481 Telephone (540) 483-5446 Fax (540) 483-5788 Web site/URL http://gereau.frco.k12.va.us E-mail kevin.bezy@frco.k12.va.us I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all the information is accurate. Date March 15, 2012 Principal's Signature) Name of Superintendent* Dr. Charles H. Lackey (Specify: Mrs., Miss, Mrs., Dr., Mr., Other) District Name* Franklin County Public Schools Tel. (540) 483-5138 I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all information is accurate. I concert that this is one of the highest performing green school applicants in our state. Date March 15, 2012 (Superintendent's Signature)			er Exploration
Mailing Address 150 Technology Drive (If address is P.O. Box, also include street address.) Rocky Mount City State Zip County Franklin State School Code Number* 1481 Telephone (540) 483-5446 Fax (540) 483-5788 Web site/URL http://gereau.frco.k12.va.us I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all the information is accurate. Date March 15, 2012 (Principal's Signature) Name of Superintendent* Dr. Charles H. Lackey (Specify: Mrs., Miss, Mrs., Dr., Mr., Other) District Name* Franklin County Public Schools Tel. (540) 483-5138 I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all information is accurate. I concar that this is one of the highest performing green school applicants in our state. Date March 15, 2012 (Supermendent's Signature)	•	***	
(If address is P.O. Box, also include street address.) Rocky Mount VA 24151 City State Zip County Franklin State School Code Number* 1481 Telephone (540) 483-5446 Fax (540) 483-5788 Web site/URL http://gereau.frco.k12.va.us E-mail kevin.bezy@frco.k12.va.us I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all the information is accurate. Date March 15, 2012 (Principal's Signature) Name of Superintendent* Dr. Charles H. Lackey (Specify: Mrs., Miss, Mrs., Dr., Mr., Other) District Name* Franklin County Public Schools Tel. (540) 483-5138 I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all information is accurate. I concar that this is one of the highest performing green school applicants in our state. Date March 15, 2012 (Supermendent's Signature)	Mailing Address 150 Technology Drive		
City State Zip County Franklin State School Code Number* 1481 Telephone (540) 483-5446 Fax (540) 483-5788 Web site/URL http://gereau.frco.k12.va.us E-mail kevin.bezy@frco.k12.va.us I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all the information is accurate. Date March 15, 2012 (Principal's Signature) Name of Superintendent* Dr. Charles H. Lackey (Specify: Mrs., Miss, Mrs., Dr., Mr., Other) District Name* Franklin County Public Schools Tel. (540) 483-5138 I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all information is accurate. I concur that this is one of the highest performing green school applicants in our state. Date March 15, 2012 (Supermendent's Signature)		P.O. Box, also include street address	s.)
City State Zip County Franklin State School Code Number* 1481 Telephone (540) 483-5446 Fax (540) 483-5788 Web site/URL http://gereau.frco.k12.va.us E-mail kevin.bezy@frco.k12.va.us I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all the information is accurate. Date March 15, 2012 (Principal's Signature) Name of Superintendent* Dr. Charles H. Lackey (Specify: Mrs., Miss, Mrs., Dr., Mr., Other) District Name* Franklin County Public Schools Tel. (540) 483-5138 I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all information is accurate. I concur that this is one of the highest performing green school applicants in our state. Date March 15, 2012 (Supermendent's Signature)	Rocky Mount	VA	24151
Telephone (540) 483-5446 Fax (540) 483-5788 Web site/URL http://gereau.frco.k12.va.us E-mail kevin.bezy@frco.k12.va.us I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all the information is accurate. Date March 15, 2012 (Principal's Signature) Name of Superintendent* Dr. Charles H. Lackev (Specify: Mrs., Miss, Mrs., Dr., Mr., Other) District Name* Franklin County Public Schools Tel. (540) 483-5138 I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all information is accurate. I concar that this is one of the highest performing green school applicants in our state. Date March 15, 2012 (Superintendent's Signature)		State	Zip
Web site/URL http://gereau.frco.k12.va.us	County Franklin Sta	ate School Code Number* 1483	L
Web site/URL http://gereau.frco.k12.va.us	Telephone (540) 483-5446	Fax (540) 483-5788	
Name of Superintendent* Dr. Charles H. Lackev (Specify: Mrs., Miss, Mrs., Dr., Mr., Other) District Name* Franklin County Public Schools Tel. (540) 483-5138 I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all information is accurate. I concert that this is one of the highest performing green school applicants in our state. Date March 15, 2012 (Superintendent's Signature)	I have reviewed the information in this applic	cation, including the award and eligib	pility requirements
Name of Superintendent*	We Desy	Date <u>March 15, 2012</u>	
(Specify: Mrs., Miss, Mrs., Dr., Mr., Other) District Name* Franklin County Public Schools Tel. (540) 483-5138 I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all information is accurate. I concur that this is one of the highest performing green school applicants in our state. Date March 15, 2012	(Principal's Signature)		
I have reviewed the information in this application, including the award and eligibility requirements on page 2-4, and certify that to the best of my knowledge all information is accurate. I concur that this is one of the highest performing green school applicants in our state. Date March 15, 2012 (Superintendent's Signature)	_		
requirements on page 2-4, and certify that to the best of my knowledge all information is accurate. I concur that this is one of the highest performing green school applicants in our state. (Supermendent's Signature) Date March 15, 2012	District Name* Franklin County Public Scho	ools Tel. (540) 483-5138	
	requirements on page 2-4, and certify the accurate. I concur that this is one of the high	at to the best of my knowledge a nest performing green school applica	all information is ants in our state.
*Private Schools: If the information requested is not applicable, write N/A in the space.		 ted is not applicable, write N/A in th	e space.

ED-GRS (2011-2012) Page 3 of 5

3

PART II – SUMMARY OF ACHIEVEMENTS

Instructions to School Principal

Provide a concise and coherent "snapshot" that describes how your school is representative of your state's highest achieving green school efforts in approximately 600-800 words. Summarize your strengths and accomplishments. Focus on what makes your school worthy of the title U.S. Department of Education Green Ribbon School. Be sure to note if students were actively involved in preparing the application.

This summary should be written as a stand-alone document. It will provide the ED review panel with an overview of the school's green activities that were detailed in the application to the state, DoDEA or BIE evaluators. If the school is awarded a U.S. Department of Education Green Ribbon, this information may be shared with other schools, candidates for next year, the press, and the public.

PART III – DOCUMENTATION OF STATE EVALUATION OF NOMINEE

Instructions to Nominating Authority

For the pilot year, the Nominating Authority must review nominated schools for high achievement based on the schools' *documented achievement* toward reaching the goals of each of the three U.S. Department of Education Green School Pillars and elements. For each school being nominated by the Authority to ED, please attach state (or equivalent) evaluation materials (application) based on the Nominating Authority Evaluation Support Framework provided by ED to facilitate your evaluation of schools.

The Nominating Authority must review and sign the following certification for each school being nominated to ED.

Nominating Authority's Certifications

The signature by the Nominating Authority on this page certifies that each of the statements below concerning the school's eligibility and compliance with the following requirements is true and correct.

The school has some configuration that includes one or more of grades K-12. (Schools on the same campus with one principal, even a K-12 school, must apply as an entire school.)

- 2. The school achieves or is one of those overseen by the Nominating Authority which comes the closest to achieving the goals of all three green Ribbon Pillars:
 - 1) environmental impact and energy efficiency; 2) healthy school environments; and
 - 3) environmental and sustainability education.
- The Nominating Authority has evaluated the school and selected it for submission to the U.S. Department of Education from among those schools overseen by the Nominating Authority which have applied for a Green Ribbon, based on documented achievement

ED-GRS (2011-2012) Page 4 of 5

toward the three Green School Pillars and Elements.

4. The school meets all applicable federal civil rights and federal, state, tribal and local health, environmental and safety requirements in law, regulations and policy and is willing to undergo EPA on-site verification.

Name of Nominating				
Agency	Virginia Department of Education			
Name of Nominatin Authority	g Dr. Patricia I. Wright, Superintendent of Public Instruction			
s management and the	(Specify: Ms., Miss, Mrs., Dr., Mr., Other)			

I have reviewed the information in this application, including the award and eligibility requirements on pages 2-4, and certify, to the best of my knowledge through a documentary verification assessment, that the school meets the provisions in this Part of the Nominee Presentation Form.

Nominating Authority's Signature)

Note to Nominating Authority: The application, including the signed certifications and documentation of evaluation in the three pillars should be converted to a PDF file and emailed to Director, ED-Green Ribbon Schools at green.ribbon.schools@ed.gov according to the instructions in the Nominee Submission Procedure.

Public Burden Statement

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless such collection displays a valid OMB control number. The valid OMB control number for this information collection is 1860-0509. Public reporting burden for this collection of information is estimated to average 37 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. The obligation to respond to this collection is required to obtain or retain benefit P.L. 107-110, Sec. 501, Innovative Programs and Parental Choice Provisions. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the U.S. Department of Education, 400 Maryland Ave., SW, Washington, DC 20202-4536 or email ICDocketMgr@ed.gov and reference the OMB Control Number 1860-0509. Note: Please do not return the completed ED-Green Ribbon Schools application to this address.

Abstract

The campus of The Gereau Center, which includes the Center for Energy Efficient Design (CEED) building, has a positive impact on the environment. The nontransportation energy use is down by 12.4% with the advent of solar hot water heaters, photovoltaic arrays, and wind power generators. The greenhouse gas emissions are down by 40.38. We generate .7% of our energy and 7% of the energy we purchase is renewable. The CEED, a new addition, has a PassivHaus certification, and we have applied for LEED certification. All of the new furniture purchased for CEED meets Virco's Greenguard standards. We have analyzed our building using the Energy Star certification guidelines.

The domestic use of water is down 31%. CEED's rainwater reclamation system allows the use of grey water to flush toilets and water the green roof and landscape plantings. The school division uses a green seal certified bio-renewable program for bulk cleaning supplies which increases the efficient use of water and results in no chemical waste. Newspapers used for instructional purposes are donated to local animal shelters. Fascopy paper, which is certified by the Forest Stewardship Council, is used, and all lavatory paper products are made from 100% recycled materials.

The Gereau Center and CEED have healthy and safe environments for students and staff. Both buildings were designed so students and staff can enjoy natural lighting and space. Classrooms are spacious and the colors and patterns were selected to produce a calming atmosphere. Synchronized clocks eliminate the need for jarring bells for class changes. Classroom and cafeteria seating, indoors and outdoors, promotes social interaction. Visitors can only access the building through the office, the door of which is electronically monitored. Classroom doors are kept locked. Intercom interruptions are kept at a minimum since classrooms have telephones.

Biohazard waste is handled by a certified outside contractor. An integrated pest management plan is in place which does not allow any use of pesticides. The picnic tables on the patio have been sealed or replaced with plastic coated metal tables. The indoor air quality is monitored closely. Filters are changed regularly, and the systems are designed to prevent closed-building syndrome. CEED has an energy recovery ventilation system which brings in fresh air. Its system uses geothermal to treat the air and the glycol from the solar water heater is also used to heat the air when needed. No buses idle in the parking lots or near the buildings' air intakes. Both buildings are kept clean with quat-based products, leaving no chemical residue.

Almost 5% of the fruits and vegetables served in the cafeteria are grown locally. Students tried to grow vegetables in the greenhouse, but the tomatoes were eaten before they got to the cafeteria. Approximately 42% of all students are trained in first aid and CPR in partnership with the Red Cross. All students participate once a week in bullying prevention training. Every effort is made to keep students and staff safe.

Students have many and varied opportunities to become environmentally literate. A student-led, campus-wide recycling program in the cafeteria ensures all students are aware of their environmental responsibilities. On Arbor Day, all students are given a tree to plant. Students in all classes utilize problem-based learning activities emphasizing systematic scientific practices. The buildings' grounds allow the students to work outdoors to test model airplanes, rockets, solar-powered cars, tetrahedral kites; explore forensic entomology; conduct Project Learning Tree activities; take science exploratory hikes; and garden.

Students in the Environmental Module learn about endangered species, grow a variety of plants in the greenhouse, study water pollution, and participate in meaningful watershed education experiences. Students also use hydroponics in the greenhouse, highlighting alternative ways of growing plants. Students in the Architecture & Engineering Module design and build models of "green" homes. They participate in the Schools of the Future Design Competition and have won or placed in the competition multiple years.

The ultimate environmental learning experience, however, is the CEED. CEED is a net-zero energy educational and demonstration center. Highlighted technologies include earth berming, south facing solar orientation, thermal mass, geothermal energy, photovoltaics, solar hot water heaters, electricity producing wind turbines, rainwater harvesting, energy efficient appliances, daylighting, and PassivHaus design and construction techniques. The building is a template for residential and educational construction for the 21st Century. All the building's energy efficient functions are monitored by a computer system that records data and posts it on the CEED website along with pertinent weather data. Using the building components themselves as the focus, all students are immersed in the building's data through a variety of activities so they can see how the renewable energy technologies work. The posted activities and data make CEED the ultimate environmental research project for Franklin County students as well as the global community.

COVER SHEET

School Name:	School Mailing Addı		
The Gereau Center for Applied Technology & Career Exploration	he Gereau Center for Applied Technology 150 Technology Drive, Rocky Mount, VA 24151		
Contact Person for the Green Ribbon School	s Application		
Name: Kevin Bezy	osition: principal		
Contact's Mailing Address:			
150 Technology Drive, Rocky Mount, VA 241	151		
Telephone: 540-483-5446 Fax: 540-kevin.bezy@frco.k12.va.us	-483-5788 E-n	nail address:	
Principal's or Headmaster's Name:		Telephone:	
Kevin G. Bezy, Ph. D.		540-483-5446	
Signature of Principal or Headmaster:		Telephone: 540-483-5446	
Superintendent's or Private School Board Chief Officer's Name:		Telephone:	
Dr. Charles Lackey, Ed. D.		540-483-5138	
I certify that all information presented in this accurate and truthful; that the applicant schefully compliant with applicable civil rights, henvironmental statutory and regulatory requapprove and support the submission of this a	ool is eligible and ealth, safety, and irements; and that I	Date:	
Signature of Superintendent or Private School Officer:	ol Board Chief		

SCHOOL ELIGIBILITY, COMPLIANCE, AND INFORMATION

Name of School: The Gereau Center for Applied Technology & Career Exploration				
School Division: Franklin County Public Schools				
Public XYes	No Percentage of Disadvantaged Students	Title I/Eligible ⊠Yes □No		
State Accredite	ed in 2011-2012 Yes No N/A	-		
In Title I School	ol Improvement 2011-2012 Yes No N/A			
The applicant s	school must verify that it is in compliance with applicable	e civil rights, health, safety,		
and environme	ental statutory and regulatory requirements.			
⊠Yes No	The nominated school or its division is not refusing United State			
	of Civil Rights (USED/OCR) access to information necessary to	o investigate a civil rights		
	complaint or to conduct a divisionwide compliance review.			
	USED/OCR has not issued a violation letter of findings to the so	•		
⊠Yes □No	nominated school or the division as a whole has violated one or			
	A violation letter of findings will not be considered outstanding			
	corrective action plan from the school/division to remedy the view			
⊠Yes □No	The United States Department of Justice does not have a pending su			
	school or the school division as a whole has violated one or more of	the civil rights statutes or the		
	Constitution's equal protection clause.	Education Act (IDEA) in a LISED		
Yes No	There are no findings of violations of Individuals with Disabilities E monitoring report that apply to the school or school division in questions.			
	the state or division has corrected, or agreed to correct, the findings.			
	The school has no outstanding citations for violation of Federal envi			
	standards (including, but not limited to: Clean Air Act; Clean Water	•		
N 7 N 1.	Solid Waste Disposal/Resource Conservation and Recovery Act; Oi			
⊠Yes □No	Superfund/Comprehensive Environmental Response Compensation			
	Insecticide, Fungicide, and Rodenticide Act; and Toxic Substances			
	another noncompliance case within one year of concluding successf	ful performance of all requirements		
	of a settlement.			
⊠Yes □No	The school has no outstanding citations for violation of Federal,			
	and health regulations and standards, nor has resolved such a ca			
Yes No The school has no outstanding citations for violation of federal food and drug star		food and drug standards, nor has		
	resolved such a case within the past year.			
⊠Yes □No	The school has no outstanding citations for state or local environmental, health, existing building,			
	fire, plumbing, mechanical, or property maintenance codes, law	s or regulations, nor has resolved		
	such a case within the past year.			

Additional information about <u>eligibility</u> is available on the USED Green Ribbon Schools Web page at Civil Rights, Health, Environment and Safety Statutory and Regulatory Requirements.

Green Ribbon Schools Response to Goals/Elements Template GOAL AREA 1: POSITIVE ENVIRONMENTAL IMPACT

Element 1A: Zero Greenhouse Gas (GHG) Emissions

ENERGY

	El El GI		
1A1.	Using the inventory module from <u>Clean Air Cool Planet's Campus Carbon Calculator</u> or similar green house gas		
	calculator, what are your school's GHG emissions per person? 1.984 (MT eCO2/person)		
Documen	Documentation: The building emitted 631 MT eCO2. There were 318 people in the building during 2011. See the appendix for		
a copy of	the Statement of Energy Performance from the EPA Portfolio Manager.		
1A2.	Has your school received EPA's ENERGY STAR certification, and if so, in what year was the certification		
	earned?		

ave
are
•
this
1
1

Documentation:

	ocumentum.					
Year	Electricity &	kBTU	Total kBTU	Area of	kBTU/Square	Reduction
r ear	Propane	KDTU	by year	building	foot	from baseline
2009	830,200 kWH	$2,832,759.59^1$	4,159,908.39	63900 sq.ft.	65.10	N/A
	14,481 gal	$1,327,148.8^2$	4,139,906.39	03900 sq.1t.	05.10	IN/A
2010	849,600 kWH	2,898,955.13	4,070,578.03	63900 sq.ft.	63.70	N/A
	12,784 gal	1,171,622.9	4,070,376.03	03900 sq.1t.	03.70	IN/A
2011	768,600 kWH	2,622,571.69	3,864,763.19	67500 sq.ft. ³	57.26	12.04%
	13,554 gal	1,242,191.5	3,004,703.19	07300 sq.1t.	37.20	12.04%

¹ The electricity was converted to kBTUs using the converter on this webpage: http://www.iea.org/stats/unit.asp

 $\underline{http://www.energystar.gov/ia/business/tools_resources/target_finder/help/Energy_Units_Conversion_Table.htm}$

1A4. What percentage of your energy consumption is derived from:

On-site renewable energy generation: 0.7 %

Purchased renewable energy: 7 %

Documentation: We have produced 1406 kWh of on-site renewable energy in the last quarter of 2011, which is when our monitoring system started keeping track of the solar power generation. If I extrapolate this generation rate, the percentage of on-site generation would be 0.7 %. We generate heat from solar water collectors. This heat is used to heat the CEED building, but we are not able to compute the amount of energy that this system generates. We have added one 10 panel array solar concentrator photovoltaic power system, and three dual-tracking solar arrays. These systems are not on-line yet. The CEED building has two vertical axis wind turbines and one skystream wind turbine. The water for the main building is preheated by a solar panel. 7% of our energy purchased from American Electric Power (AEP) is renewable (see

http://www.aep.com/environmental/education/solar/powerPie/energy.aspx). It is estimated that AEP's renewable energy will increase to 15% by 2020.

BUILDINGS

1A5.	If your school has constructed and/or renovated buildings in the past three years, what percentage of the building
	area meets:
	Leadership in Energy and Environmental Design (LEED),
	Collaborative for High Performance Schools (CHPS),
	Green Globes,
	• or other standards?
	100%%
	What is the total constructed area? 3600 (SQ.FT.)
	What is the total renovated area? 0 (SQ.FT.)
	Which certification (if any) did you receive and at what level (e.g., Silver, Gold, Platinum)?
	□LEED □CHPS □Green Globes □Other Level
D	Actions W 1: (LEED .: () 1 C . (E EKT: (D : (CEED) 1:1:

Documentation: We are applying for LEED certification for the Center for Energy Efficient Design (CEED), which is a new building on our campus built to PassivHaus standards. The certificate indicating our progress is in the appendix. The building has

²The propane was converted to kBTUs using the conversion factor found on this webpage:

³The addition of the Center for Energy Efficient Design increased the square footage of the building.

		vHaus certification. See: http://www.passivehouse.us/project_detail.php?id=1019
1A6.	_	ercentage of your school's total existing building area has achieved:
	•	LEED Existing Buildings: Operation & Maintenance,
	•	CHPS Operations Report Card,
	•	Green Globes
	F 20/	or other standards?
	5.3%	s the total building area? 67500 (SQ.FT.)
		certification (if any) did you receive and at what level (e.g. Silver, Gold, Platinum)?
		D CHPS Green Globes Other (name) PassivHaus Level
Documen		The 5.3% represents the new construction which is PassivHaus certified. See:
		<u>ehouse.us/project_detail.php?id=1019</u> . We are in the process of applying for LEED certification. See
		previous element.
1A7.	If your	school reduces or offsets the greenhouse gas (GHG) emissions from building energy use, please provide:
	•	Current Total GHG Emissions (MtCO2e) 631.23
	•	Baseline Total GHG Emissions (MtCO2e) 671.61
	•	Change from Baseline: GHG Emissions (MtCO2e) -40.38
	•	Time period: from 2009 to 2011
_		a any offsets used.
		The data is from the EPA Portfolio Manager.
1A8.		ur school fully implemented the Facility Energy Assessment Matrix within EPA's Guidelines for
		√ Management? ⊠No
		school building been assessed using the Federal Guiding Principles Checklist in Portfolio Manager ?
	⊠Yes	
Documen		See the appendix for a copy of the statement of energy performance.
1A9.		ercentage by cost (of all your school's furniture purchases) is certified under the Business and
	Institu	tional Furniture Manufacturers Association's "level" Ecolabel?
		of new purchases.
		All furniture purchased for the new building, the CEED, meet Virco's Greenguard standard for indoor air
		The furniture also meets the California Air Resources Board (CARB) regulations on formaldehyde emissions
		Product Safety Improvement Act of 2008 (CPSIA). See com/b2c_virco/b2c/corp_stew/index_greenguard.html) for Virco's policy regarding Greenguard. ®.
1A10.		our school have an energy and water efficient product purchasing and procurement policy in place?
IAIU.	⊠Yes	
Documen		As of September 2011 the Gereau Center has completed the transition by switching from conventional bulk
		a green seal certified / bio renewable program for bulk cleaning supplies. The entire school division finished
		n November 2011. Our new systems use chemical dispensers that precisely measure the correct amount of
		for each task the custodial staff is required to perform. There is no waste of chemical or water in the process.
		nsers use no electricity and only use cold water rather than hot water which also saves on energy costs. This
		s waste considerably by using small recyclable containers thereby reducing the amount of plastic needed for
1 A11.		e school division's bulk lavatory paper products are made from 100% recycled materials. Indicators of the applicant's progress towards elimination of GHG emissions (Describe in detail and include)
IAII.		if available in the Documentation cell below.)
Documen		We are continuing to explore ways to reduce GHG emissions. The addition of the renewable energy generators
		help to reduce our dependency on purchased energy. The CEED will be net zero once the concentrating
photovoltaic array and the three dual axis photovoltaic arrays are connected. The school division has set a maximum heating		
temperatu	re at 68°	F and a minimum cooling temperature at 75° F in order to reduce the use of electricity and propane.
Elen	nent 1B	: Improved Water Quality, Efficiency, and Conservation
1B1.		If you can demonstrate reduced total water consumption intensity (measured in gal/square foot) from an
		initial baseline, please provide:
		Percentage reduction in domestic use: 31.46 %
		Percentage reduction in irrigation: NA %
		Time period: from 2009 to 2011

Documentation: We do not irrigate. The data to show our reduced water consumption intensity came from the Town of Rocky Mount municipal utility billing system. With the addition of the Center for Energy Efficient Design (CEED), we included a rainwater reclamation system and a grey water storage system. Toilets in the CEED are operated using the non-potable water from these systems. The plants around the CEED and the green roof are watered using this non-potable water.

Water Intensity at The Gereau Center

Year	Gallons of water	Square footage of Intensity		Reduction
	used	the building		
2009	406,000	63,900	6.3537	Baseline
2010	373,000	63,900	5.8372	N/A
2011	294,000	67,500 ^a	4.3556	31.46%

^a The Center for	^a The Center for Energy Efficient Design (CEED) was build on the campus adding 3,600 square feet.				
1B2.	Does your school have an irrigation system? Yes No If so, how often does your school conduct audits of facilities and irrigation systems to ensure they are free of significant water leaks and to identify opportunities for savings? N/A				
Documentation:	The CEED building has a portion of the roof planted with sedum to demonstrate a green roof. There is a				
system for irrigating activated.	g this green roof with rainwater and gray water that is collected in a retention tank. This system is manually				
1B3.	Describe how your school's site grading and irrigation system and schedule are appropriate for your 1) climate, 2) soil conditions, and 3) plant materials, with an emphasis on water conservation.				
(http://www.frank not water or irrigate themselves. The T	Documentation : We are in a climate that generally receives 44 inches of rain and 14 inches of snowfall per year (http://www.franklincountyva.gov/resources/topography-climate). This amount of rain lessens the need for irrigation. We do not water or irrigate any area on campus. We use Tree Gators® (http://treegator.com/) to water new trees until they can sustain themselves. The Tree Gators® keep the water from evaporating and maximize its effectiveness and limit waste. The plants around the CEED were selected for the following qualities: drought tolerant, native species, edible or medicinal value, food or				
1B4.	Do all your outdoor landscapes consist of water-efficient or regionally-appropriate (native species and/or adapted species) plant choices? Yes No If "No," what percentage of the total consists of this type of plantings: 20 % Describe the type and location of plantings.				
Documentation:	All of the plantings for the CEED were selected for water-efficiency and regional appropriateness. The other				
	mpus were planted in 1996.				
1B5.	Are alternative water sources (e.g., grey water) used before potable water for irrigation? Yes No If "Yes," describe these alternative water sources.				
Documentation:	The watering of all plants at the CEED use non-potable grey water and rainwater. There are two 1700 gallon				
tanks buried in the CEED building. T	ground for collecting rainwater from the roof and from a permeable paved area that surrounds the front of the he grey water from the CEED building is also collected and reused. The plants in the greenhouse are watered due to its distance from the non-potable tanks. We are working toward using the non-potable water in the				
1B6.	If drinking water is acquired from the school's own well, are your drinking water sources protected? Yes No N/A If "Yes," describe how they are protected.				
Documentation :	We use town water.				
1B7.	Does your school have a program to control lead in drinking water (including voluntary testing and implementation of measures to reduce lead exposure in drinking water) in place? Yes No If "Yes," describe this program.				
	The Gereau Center is connected to the Town of Rocky Mount's water system. The Town conducts its own on the Virginia Department of Health Regulations. There is no voluntary testing done within the school.				

1B8.	Has your school been cited within the past three years for failure to meet federal, state or local potable
	water quality standards?
	□Yes ⊠No
Documentation: 1	N/A
1B9.	Are all taps, faucets, and fountains used for drinking and cooking cleaned on a regular basis to reduce
	possible bacterial and other contamination; and are faucet screens and aerators regularly cleaned to remove
	particulate lead deposits?
	∑ Yes
	If "Yes," how often is such cleaning conducted?
Documentation:	All surfaces used for drinking and cooking are cleaned daily as verified by the head custodian of The Gereau
Center. The faucet	screens and aerators are cleaned monthly by maintenance staff.
1B10.	Describe any other ways, not addressed above, that the school is improving water quality, efficiency, and
	conservation.
Documentation :	We are using cleaning products that require less water and they work with cold water. We have a floor cleaning
machine that reuses	the water for several washings. It vacuums the water so that little is left to evaporate. Watering of plants is
done with non-pota	able water as much as possible. Rainwater is reclaimed at the CEED. Students are taught how to make
rainwater barrels th	rough a cooperative program with the Blue Ridge Soil and Water Conservation District
(http://brswcd.org	/Home.html).

GROUNDS

What percentage of your school grounds are devoted to ecologically or socially beneficial uses (e.g., playgrounds, outdoor spaces designed and used regularly for social interaction, athletic or recreational areas, etc.), including those that give consideration to native wildlife? 19.12 % Please describe.

Documentation: The school sits on 15 acres of land. The following demonstrates outdoor usage of land for instructional use or environmental designations (The areas were computed from the maps on the Franklin County, Virginia government GIS website.):44611 sq. ft. is designated as wetlands; 8944 sq. ft. used for the Media Design Module; 30842 sq. ft. used by the Aviation Module; 2250 sq. ft. patio for outdoor dining and instructional use; 17083 sq. ft. used by the Forensic Science Module as an outdoor lab area for entomology studies; 10988 sq. ft. used by the Engineering/Architecture Module for testing solar-powered cars; 791 sq. ft. used by the Environmental Science Module as a garden; the school yard has received the Certified Wildlife Habitat designation from the National Wildlife Federation. This is a designation for the entire school yard and I didn't include this in the computation above; The Grassy Hill Trail begins on the property of The Gereau Center. Community members and the students in the Environmental Science & Natural Resources Module regularly use the trail. 628 feet of the trail is on this campus. The trail leads through the Grassy Hill Natural Area Preserve:

http://www.dcr.virginia.gov/natural heritage/natural area preserves/grassyhill.shtml

Element 1C: Reduced Waste Production

WASTE

1C1.	What percentage of waste is diverted from the landfill or incinerator by reuse, composting, and/or recycling:			
	Monthly garbage volume (garbage dumpster size(s) X frequency of collection):			
	160 cubic yards.			
	Monthly recycling volume(s) (recycling dumpster sizes(s) X frequency of collection):			
	2.4 cubic yards.			
	Monthly compostable materials volume(s) (food scrap/food soiled paper dumpster size(s) X frequency of			
	collection: 0 cubic yards.			
	Recycling rate calculation: Total monthly recycling quantity plus total monthly compostable material quantity			
	divided by total monthly recycling, composting, and garbage quantity x 100 = 1.5 %			
	Documentation : The garbage dumpsters are emptied daily even though they are not full. Using the formula above does not give a			
1 1	ximation of our monthly garbage volume. Our actual volume is much less. The recycling volume is a closer			
	tion. We recycle plastic containers at breakfast and lunch. The students rinse their own containers, throw away the caps,			
and place	the containers in a designated recycling receptacle. Newspapers are taken to the SPCA or Angels of Assisi, an animal			
rescue org	anization, for use in animal kennels.			
1C2.	What percentage of total office/classroom paper content by cost is postconsumer material or fiber from forests			
	certified as responsibly managed by the			
	Forest Stewardship Council,			

	Carlotte France Levisi
	Sustainable Forestry Initiative,
	American Tree Farm System, or
	other certification standard:
	100%
	(If a paper is only 30% recycled, only 30% of the cost of that paper should be counted towards the recycled
	portion.)
	Which standard did you use?
	Forest Stewardship Council Sustainable Forestry Initiative
	☐ American Tree Farm System ☐ Other: Please name: Programme for the Endorsement of Forest Certification Schemes
Dogumon	tation: The copy paper brand name is Fascopy, Ariva is its parent company. Ariva has Tri-Certification by the Forest
	ip Council® (FSC), the Sustainable Forestry Initiative® (SFI) and the Programme for the Endorsement of Forest
	on Schemes (PEFC). The index cards and construction paper in use are certified by the Forest Stewardship Council®
	of the school divisions bulk lavatory paper products are made from 100% recycled materials. Total spent on copy paper,
	on paper, and index cards for this budget year is \$2304.79
1C3.	What percentage of total office/classroom paper content <u>by cost</u> is "totally chlorine-free" (TCF) or "processed-
100.	chlorine-free" (PCF)?
Documen	tation : Most of the lavatory paper products are chlorine-free but very little of our classroom paper is chlorine-free. We
	re any information on that aspect.
	HAZARDOUS WASTE
1C4.	How much hazardous waste does your school generate?
	0.5 lbs/student/year.
	How was this calculated? The total weight of the waste was devided by the number of students enrolled
_	List 1) each hazardous waste used and 2) the amount of each hazardous waste present at the end of the year
	tation: 1) Biohazard waste; there was no chemical waste; 2) 150 lb of biohazard was present at the end of the year
1C5.	How does your school monitor hazardous waste*?
	tation: The waste is handled by a certified outside contractor, Environmental Options, Inc.
<u> </u>	<u>vw.environmentaloptions.com/</u>)
1C6.	Is a Hazardous Waste Policy for storage, management, and disposal of chemicals in laboratories and other areas
	with hazardous waste in place and actively enforced?
D	Yes No
	tation: Our school division has policies for the proper handling of hazardous waste.
1C7.	Has your school been cited within three years for improper management of hazardous waste according to Federal
	and State regulations? ☐Yes ⊠No
Doguman	tation: Our Central office has certified that this is accurate.
	What percentage of total computer purchases by cost are Electronic Product Environmental Assessment Tool
1C8.	(EPEAT) certified products? 100%
	How does your school dispose of unwanted computer and other electronic products? All unwanted electronic
	products are recycled. Unwanted, but usable, computers are cleaned and upgraded for distribution to families that
	cannot afford them.
Documen	tation: Documentation is on file at the Franklin County Public Schools Technology Department.
1C9.	What percentage by cost of all cleaning products in use are "third-party certified" green cleaning products? 90%
10).	Which standard(s) are you using? green seal certified / bio renewable program; standards are set by Global
	Ecolabelling Network (http://www.globalecolabelling.net/).
Documen	tation : As of September 2011 the Gereau Center has completed the transition by switching from conventional bulk
	applies to a green seal certified / bio renewable program for bulk cleaning supplies. The entire school division finished
	e switch in November 2011. Our new systems use chemical dispensers that precisely measure the correct amount of
	and water for each task the custodial staff is required to perform. There is no waste of chemical or water in the process.
	cal dispensers use no electricity and only use cold water rather than hot water which also saves on energy costs. This
	so reduces waste considerable but using small recyclable container that reduce the amount of plastics that needed. This
	ified by the Assistant Purchasing Coordinator for the school division. Certificates are on file at the Franklin County
	ools Maintenance Department.
1C10.	Has your custodial program been certified by the ISSA Cleaning Industry Management Standard - Green Building

	(or an equivalent standard).
	□Yes ⊠No
Doguman	If certified by an equivalent standard, please list that standard.
	ntation : Our custodial program is not certified by the ISSA Cleaning Industry Management Standard – Green Building, our cleaning supplies are certified by that organization.
1C11.	Describe any other indicators, not included above, of the school's reduction of solid waste and elimination of
_	hazardous waste:
	ntation : All cleaning products are concentrated using fewer dispenser bottles. All cleaning products mix with cold water. milk bottle recycling station has been set up by students in the commons near the food service area. There is a school-
	notion of the milk bottle recycling initiative using student-made posters; skits; and closed circuit, school-wide television
	ments. Our newspapers are sent to a pet rescue organization in Roanoke for use in the animal kennels. Last year we
	50 newspapers from The Roanoke Times. We have reduced that number to 50 relying on the internet version of the
paper for	classroom use. The organic waste from the greenhouse is put in a compost bin to produce soil for use in the greenhouse.
Elen	ment 1D: Use of Alternative Transportation to, during, and from School
1D1.	What percentage of students walk, bike, bus, or carpool (2+ students in the car) to/from school?
	0% Describe how this information has been collected and coloulated.
Documen	Describe how this information has been collected and calculated. **ntation: The majority of our students use the bus system. Only a few students who are car riders do carpool.
1D2.	Does your school have a no-idling policy on file and signs posted stating that all vehicles, including school buses
152.	and other vehicles dropping off and picking up students, are prohibited from idling on school premises?
	☐Yes ⊠No
	ntation : From the director of transportation of the Franklin County Public School system, "We don't have a written no-
	however they [the bus drivers] are trained not to idle on school grounds."
1D3.	Are all vehicles loading and unloading areas at least 25 feet away from all buildings air intakes (including doors and windows)?
	Yes □No
Documen	ntation: The closest bus to an air intake, in this case a non-opening window, is 44 feet.
1D4.	Describe how your school transportation use is efficient and environmentally benign (e.g., the percentage of school-
	owned electric/hybrid/alternative fuel vehicles in your fleet, or other indicators of significant reductions in emissions).
Documen	ntation: We do not have any alternative fuel vehicles in our fleet. There are new emissions standards for buses
	ared in 2007, 2008, & 2009. There were also new standards for buses manufactured in 2010 or after. We have 52 buses in
	hat were manufactured in 2007, 2008, or 2009 which is 30.5% of our fleet. We have 9 buses manufactured in 2012 which
	f our fleet. These standards relate to reductions in the particulate from the exhaust. The 2010 standards are stricter than
used.	standard. We have evaluated the routes that our buses take to cut down on the length of the trips and the amount of fuel
1D5.	Have "Safe Pedestrian Routes" to school or "Safe Routes to School" been designated, distributed to parents, and
	posted in the main office?
	☐Yes ⊠No
	ntation : There are sidewalks through town that lead up to The Gereau Center. No routes have been distributed to
1D6.	posted in the main office. There are no students who live within walking distance of the school. Please describe other important accomplishments that have been made in improving your school site's
IDU.	environmental footprint and eliminating any negative environmental impact.
Documen	ntation : In 2010 we dedicated the Center for Energy Efficient Design (CEED). The building is a PassivHaus that
	ates energy-producing devices and energy-saving practices. The CEED was built as a teaching space for our students as
	community resource for adult education and as a demonstration of on-site energy production. See:
http://cee	ed.frco.k12.va.us and http://www.labs21century.gov/community/partnership/partners/gereau.htm
CO	AL AREA 2: Positive Impact on Students' and Staff Members' Health
	-
Lien	ment 2A: Integrated School Environmental Health Program
	INTEGRATED PEST MANAGEMENT
2A1.	Does your school have an integrated pest management plan in effect to reduce or eliminate pesticides?
	⊠Yes □No

	tation: The plan is on file at the Franklin County Public School Maintenance Department.					
2A2.	Does your school provide notification of your pest control policies, methods of application, and requirements for posting and pre-notification to parents and school employees?					
	⊠Yes					
	tation: The food services staff is aware of the policies. The other staff has access to the information which is stored in					
	. When the current policies were adopted, notification was placed in the local newspaper and in the Efficiency Review DOE website (http://www.doe.virginia.gov/school_finance/efficiency_reviews/franklin_co.pdf).					
2A3.	Does your school maintain annual summaries of					
2A3.	pesticide applications, Yes					
	copies of pesticide labels, ∑Yes ☐No					
	copies of posticide labels, ⋈ res ☐ No copies of notices and Materials Safety Data Sheets (MSDS) ☐ Yes ☐ No					
	in an accessible location? ∑Yes ☐No					
Documen	tation: MSDS manuals are kept in the office in an accessible location. A notebook dedicated to pest control policies is					
also in the	office.					
2A4.	Does your school prohibit children from entering the pesticide area for at least 8 hours following the application or longer, if feasible, or if required by the pesticide label? Yes No					
Documen	tation : We do not apply pesticides. If we did, we would restrict students from entering the building as per label					
directions.						
	VENTILATION					
2A5.	Does your school meet:					
	ASHRAE Standard 62.1-2010 (Ventilation for Acceptable Indoor Air Quality) or					
	• The current state or local code?					
	Yes □No If "Yes," which standard does your school meet?					
Documen	tation: Our building meets state and local code for acceptable indoor air quality. Each air handlers has a make-up air					
damper w	hich cleans the air, heats or cools the air, and adds fresh air as necessary. The unit is set to add fresh air regardless of the					
	or heating or cooling. The system is designed to prevent closed-building syndrome. Are local exhaust systems (including dust collection systems, paint booths, and/or fume hoods) installed at all major					
2A6.	airborne contaminant sources, including science labs, copy/printing facilities, chemical storage rooms? Yes No					
	If "No," which airborne contaminant sources or areas do not have exhaust systems installed?					
Documen	tation: We have a dedicated exhaust system for the science lab that uses chemicals. We do not have a local exhaust					
	the areas where photocopies are located.					
2A7.	Has your school installed energy recovery ventilation systems, where feasible, to bring in fresh air while recovering					
	the heating or cooling from the conditioned air? ⊠Yes □No					
Documen	tation: The CEED building has an energy recovery system which brings in fresh air and recovers the heating or cooling					
	conditioned air. The system uses geothermal to treat the air as well. The glycol from the solar water heater is used to heat					
	he heating seasons. CO ₂ sensors in the CEED initiate an air exchange when the CO ₂ level rises.					
	CONTAMINANT CONTROLS					
2A8.	Radon: Have all ground-contact classrooms been tested for radon within the past 24 months:					
	□Yes ⊠No					
	What percentage of all classrooms with levels greater than 4 pCi/L has been mitigated in conformance with ASTM E2121? N/A%					
	tation : The main building was tested and found to be well below 4 pCi/L. It has not been retested since that test. The ng was tested in 2011. The documentation is on file at the Franklin County Public Schools Maintenance Department.					
2A9.	Carbon Monoxide (CO): If your school has combustion appliances, does your school					
21171	have an inventory of all combustion appliances					
	Yes □No • annually inspect these appliances to ensure no release of Cerban Manayide (CO)?					
	 annually inspect these appliances to ensure no release of Carbon Monoxide (CO)? Yes No 					

	• ☐ The school has no combustion appliances. Are CO alarms installed that meet the requirements of the National Fire Protection Association code 720? ☐ Yes ☐ No
	tation: Our school has two boilers, the only combustion appliance on the campus. They are tested annually by a trained
	f the division maintenance staff. We do not have CO alarms.
2A10.	Mercury: Have all unnecessary mercury containing devices been replaced with non-mercury devices? ⊠Yes □No Please explain.
	Does your school recycle or dispose of unwanted mercury laboratory chemicals, mercury thermometers, gauges
	and other devices in accordance with federal, state and local environmental regulations?
	⊠Yes □No
Documen	tation: We have no mercury containing devices. If we had such devices, we would dispose of them through
	ental Options, Inc. (http://www.environmentaloptions.com/).
2A11.	Chromated Copper Arsenate (CCA): Have all wooden decks, stairs, playground equipment or other structures
	treated with Chromated Copper Arsenate been either removed or sealed within the past 12 months?
	⊠Yes □No
	tation: There are four picnic tables on campus that are used by environmental science students to pot plants. The tables
	from treated lumber which has been sealed within the past month. The tables for dining have been replaced by plastic
	tal tables. There are no treated lumber structures on campus.
2A12.	Asthma Control: Does your school have an asthma management program in place consistent with the National
	Asthma Education and Prevention Program's (NAEPP) Asthma Friendly Schools Guidelines?
	□Yes ⊠No
	tation: We do not have a written asthma management program in place. We handle asthma management on a case-by-
	The school nurse works with students who have asthma and communicates their needs to appropriate staff. We have
	n air purifier in the past for a teacher who needed help with asthma control.
2A13.	Indoor Air Quality: Has your school developed and implemented a comprehensive indoor air quality management
	program consistent with EPA's Indoor Air Quality Tools for Schools?
-	☐Yes ☐No
	tation: We do not have a written comprehensive indoor air management program. We monitor and check all the
	isted on the EPA Indoor Air Quality webpage, but we have not put these elements together into a comprehensive plan.
	rs in the building are changed every three months by a certified division maintenance staff member.
2A14.	Moisture Control: Are all structures visually inspected on a regular basis and free of mold, moisture and water leakage? ∑Yes ☐No
	Is indoor relative humidity maintained below 60% (cold climates during freezing temperatures should target 20-
	30%)? ∑Yes ☐No
	Are moisture resistant materials/protective systems installed (e.g., flooring, tub/shower, backing, and piping)?
	⊠Yes □No
Documen	tation: A qualified division maintenance staff member regularly monitors moisture control. He records humidity and
temperatu	re in the building. Problems are reported to the Director of Maintenance who initiates a search for causes and
	es solutions.
2A15.	Chemical Management: Does your school have a chemical management program in place that includes the
	following elements:
	Chemical purchasing policy, including low-/no-VOC
	products Yes No
	Chemical inventory Yes No
	Storage and labeling Yes \(\sumsymbol{\text{No}} \)
	■ Training and handling Yes No
	■ Hazard communication
	■ Spills, clean up, and disposal
	Select EPA's Design for the Environment approved
	cleaning products Yes No
	Explain any missing elements or additional components of your school's chemical management program.
	tation: This is a link to our chemical supplier which illustrates their commitment to safe cleaning supplies:
	www.spartanchemical.com/sustainability. Custodial staff is trained annually in chemical management. The Hazardous
	Training took place on October 24, 2011 and was conducted by a trained member of the division maintenance staff. As
	effectants are concerned, we use a quat-based product. Quat-based disinfectants carry a positive charge. Bacteria, viruses,
and rungi	carry a negative charge. When a bacteria-laden surface is sprayed or mopped with a disinfectant, the charge distribution of

	a cell changes from negative to positive. This results in the disruption of the bacteria cell wall and eventual death to the
	No dangerous substances are left behind once the disinfectant is used. The division maintenance department manages
	al inventory for the school system.
2A16.	Secondhand Tobacco Smoke: Is smoking prohibited on campus?* ☐ Yes ☐ No
Documen	ation: For the policy see: http://www.boarddocs.com/vsba/frco/Board.nsf/Public#
	* · · · · · · · · · · · · · · · · · · ·
Lien	ent 2B: High Standards of Nutrition, Fitness, and Quantity of Quality Outdoor Time for both Students and Staff
	FOOD AND NUTRITION
4D1	
2B1.	Has your school earned USDA's Healthier US School Challenge award for school food? ☐Yes ☒No
	List award level earned.
Documen	ration: N/A
2B2.	What percentage (by cost) of food purchased is certified as "environmentally preferable" (e.g., Organic, Fair Trade,
	Food Alliance, Rainforest Alliance, etc.)?
.	0%
	ration: N/A What percentage (by eact) of food numbered is grown and processed within 200 miles of the school (including food)
2B3.	What percentage (by cost) of food purchased is grown and processed within 200 miles of the school (including food grown on school grounds)? 4.9 %
	Does the school have an on-site garden in which the students participate?
	∑Yes □No
Documen	ration: See the appendix for documentation.
2B4.	Does the school have an on-site food garden?
	∑Yes □No
	If "Yes," does the school garden supply food for the school cafeteria? Yes No
Documen	ation: Last year, we grew grape tomatoes in our greenhouse to be served in the cafeteria. Our biggest problem was that
	e students were eating the tomatoes before they reached food services. We are continuing to experiment with growing
	e food services program at The Gereau Center. See pictures in the appendix.
	PHYSICAL EDUCATION, OUTDOOR OPPORTUNITIES, AND UV SAFETY
2B5.	What percentage of students over the past year engaged in at least 150 minutes of school-supervised physical
220.	education and/or outdoor time per week? 100%
	ration: The Gereau Center is in a partnership with a more traditional middle school. All students spend 50% of their
	h schools. We do not have gym facilities on our campus, however all our students take health and Physical Education at
the other s	
2B6.	What is the average amount of time over the past year that each student engaged in school-supervised physical education (including outdoor time) per week?
	212.5 minutes/week
Documen	ation : Our classes are 85 minutes long. Over the course of a year each student has 90 days of Health and Physical
Education	supervised by a state certified physical Education teacher.
2B7.	What percentage of school-supervised physical education is spent outdoors?
	30 %
	ration: The department chairperson estimates the percent of outdoor school-supervised physical education to be 30%.
2B8.	What percentage of your school's current student body has participated in EPA's Sunwise Program or an equivalent program regarding UV protects and skin health?
	0 %
Documen	tation: The chair of the Physical Education department at Benjamin Franklin Middle School, where our students receive
their physic	cal education instruction, states that we do not participate in the EPA's Sunwise Program. The teachers do touch upon
UV protec	cion and health when they discuss cancer.
C	OORDINATED SCHOOL HEALTH, MENTAL HEALTH, SCHOOL CLIMATE, AND SAFETY
2B9.	Does the school use a Coordinated School Health approach or other health-related initiatives to address overall

	school health issues?
related issi	atation : Our school nurse, who is a registered nurse, acts as the school health officer. She conducts training in health- ues at faculty meetings and ensures that all staff members have participated in the Blood Borne Pathogen training. She es, with other staff members, in the Glucagon training. She administers the faculty weight loss program. She has posted and-washing posters in restrooms on the campus.
2B10.	Does the school partner with any community groups to support student health and/or safety?
	Yes
	ntation : We have a partnership with the American Red Cross to instruct students in first aid and CPR. All students in the
2B11.	Human Services Module take part in this initiative. 42.2 % of our students take this course. Describe any other measures regarding the school's built and natural environment that your school takes to protect
2011.	student and staff health and which you feel should be considered.
Documen	
has a h walls o	ereau Center was built with a realization of the relationship of natural light and space to emotional health. The commons high ceiling with natural light entering from two floors of insulated glass windows. The classrooms are spacious with full of windows. An outdoor dining area offers staff and students dining under the sky, emphasizing the students' connection world around. The seating configuration in the commons encourages social interaction.
	and patterns were selected to produce a calming atmosphere. Synchronized clocks rather than bells are used to signal the e of classes. Intercom all-calls are not allowed. These measures are designed to produce a quiet learning environment.
All class camera located emerge the positive so	associated with student and staff emotional health, is maintained by a building that restricts entry to outside individuals. ssroom doors are locked. Access to the students is restricted. Visitors can only enter the building through the office. A a in the lobby, connected to a monitor in the office, records all visitors as they enter the building. Other cameras are at at strategic areas in the building. Lock down drills, fire drills, and evacuation drills are conducted. All teachers carry ency bags on drills. The bags contain first aid items. The building is located in close proximity to the fire department and lice station. The bool conducts a Rachel's Challenge program for all students through weekly small group meetings. This program is ed to reduce bullying and increase civility among students.
GO	AL AREA 3: Environmentally Literate Students
001	
	nent 3A: Interdisciplinary learning about the key relationships among dynamic
	nent 3A: Interdisciplinary learning about the key relationships among dynamic environmental, energy, and human systems
	nent 3A: Interdisciplinary learning about the key relationships among dynamic
	nent 3A: Interdisciplinary learning about the key relationships among dynamic environmental, energy, and human systems LEARNING AND ENVIRONMENTAL LITERACY High Schools: What percentage of last year's graduates scored proficient or better during their high school career
Elen	nent 3A: Interdisciplinary learning about the key relationships among dynamic environmental, energy, and human systems LEARNING AND ENVIRONMENTAL LITERACY High Schools: What percentage of last year's graduates scored proficient or better during their high school career on state or school:
Elen	nent 3A: Interdisciplinary learning about the key relationships among dynamic environmental, energy, and human systems LEARNING AND ENVIRONMENTAL LITERACY High Schools: What percentage of last year's graduates scored proficient or better during their high school career on state or school: • environmental education assessments? %
Elen	nent 3A: Interdisciplinary learning about the key relationships among dynamic environmental, energy, and human systems LEARNING AND ENVIRONMENTAL LITERACY High Schools: What percentage of last year's graduates scored proficient or better during their high school career on state or school: • environmental education assessments? % • sustainability assessments? %
Elen	nent 3A: Interdisciplinary learning about the key relationships among dynamic environmental, energy, and human systems LEARNING AND ENVIRONMENTAL LITERACY High Schools: What percentage of last year's graduates scored proficient or better during their high school career on state or school: • environmental education assessments? %
Elen	nent 3A: Interdisciplinary learning about the key relationships among dynamic environmental, energy, and human systems LEARNING AND ENVIRONMENTAL LITERACY High Schools: What percentage of last year's graduates scored proficient or better during their high school career on state or school: • environmental education assessments? % • sustainability assessments? % • environmental science assessments? % Briefly describe the assessment(s). Itation: The Gereau Center is an 8th grade school.
Elen	nent 3A: Interdisciplinary learning about the key relationships among dynamic environmental, energy, and human systems LEARNING AND ENVIRONMENTAL LITERACY High Schools: What percentage of last year's graduates scored proficient or better during their high school career on state or school: • environmental education assessments? % • sustainability assessments? % • environmental science assessments? % Briefly describe the assessment(s).
3A1. Document 3A2.	nent 3A: Interdisciplinary learning about the key relationships among dynamic environmental, energy, and human systems LEARNING AND ENVIRONMENTAL LITERACY High Schools: What percentage of last year's graduates scored proficient or better during their high school career on state or school: • environmental education assessments? % • sustainability assessments? % • environmental science assessments? % Briefly describe the assessment(s). Itation: The Gereau Center is an 8th grade school. High Schools: Does your school or school division's program of study have coursework that permits students to graduate environmentally (or sustainability) literate? Yes No
Document 3A2.	Interdisciplinary learning about the key relationships among dynamic environmental, energy, and human systems LEARNING AND ENVIRONMENTAL LITERACY High Schools: What percentage of last year's graduates scored proficient or better during their high school career on state or school: • environmental education assessments? % • sustainability assessments? % Briefly describe the assessment(s). Hation: The Gereau Center is an 8th grade school. High Schools: Does your school or school division's program of study have coursework that permits students to graduate environmentally (or sustainability) literate? Yes
Documen 3A2.	Interdisciplinary learning about the key relationships among dynamic environmental, energy, and human systems LEARNING AND ENVIRONMENTAL LITERACY High Schools: What percentage of last year's graduates scored proficient or better during their high school career on state or school: • environmental education assessments? % • sustainability assessments? % • environmental science assessments? % Briefly describe the assessment(s). Hation: The Gereau Center is an 8th grade school. High Schools: Does your school or school division's program of study have coursework that permits students to graduate environmentally (or sustainability) literate? Yes, please describe. Itation: The Gereau Center is an 8th grade school. The high school which our school feeds has a full range of science of which touch upon environmental and sustainability issues. Students may enroll in environmental science courses as Are environmental and sustainability concepts integrated throughout the curriculum?
Document Courses, al electives.	Interdisciplinary learning about the key relationships among dynamic environmental, energy, and human systems LEARNING AND ENVIRONMENTAL LITERACY High Schools: What percentage of last year's graduates scored proficient or better during their high school career on state or school: • environmental education assessments? % • sustainability assessments? % Briefly describe the assessment(s). Hation: The Gereau Center is an 8th grade school. High Schools: Does your school or school division's program of study have coursework that permits students to graduate environmentally (or sustainability) literate? Yes

employ environmental and sustainability concepts to demonstrate how these concepts relate to careers in the appropriate fields.

	scepts are included in Arts, Aviation, Environmental Science, and Health & Human Services, to name a few. The
	are integrated in the curriculum through the goals & objectives, instructional activities, and practices. Student-made,
	de television public service announcements are made to reinforce environmental concepts. We are moving to increase
these conf	
3A4.	High Schools: What percentage of your eligible graduates last year had completed Advanced Placement
	Environmental Science during their school career?
	What percentage of these students scored 3 or better on the Advanced Placement Environmental Science
	assessment? %
Documen	tation: The Gereau Center is an 8 th grade school.
3A5.	If neither your state nor school conducts environmental science, sustainability, or environmental education
	assessments, what percentage of your students scored proficient or better on science education assessments in the
	last year? 92.16 %
	Please provide data by grade level/subject Science SOL test.
Documen	Itation: 92.16 % of the 8 th grade students enrolled at The Gereau Center passed the 8 th grade SOL test. All of our
	re 8th grade students.
3A6.	Are teacher professional development opportunities in environmental and sustainability education provided for all
JAU.	teachers in your school?
	Yes No
	If "Yes," please describe these professional development opportunities including the number and percentage of
Dearmon	teachers who participated in these over the last 2 years.
	Itation : Our Environmental Science and Natural Resources Module teacher seeks out and enrolls in workshops that deal
	onmental and sustainability education. On an average she participates in 2-3 weekend workshops a year.
3A7.	Does your school's environmental education program pay particular attention to scientific (systematic) practices,
	including
	asking questions,
	developing and using models,
	planning and carrying out investigations,
	analyzing and interpreting data,
	 using mathematics and computational thinking,
	constructing explanations, and
	 engaging in argument and applications based on evidence?
	⊠Yes □No
Documen	tation: The goals and objectives that address scientific (systematic) practices embedded in our curriculum. Our teachers
	trained in Problem-Based Learning (PBL) and use this approach in their instructional activities in all courses, including
	loratory electives. Problem-Based Learning is steeped in scientific practices. This website provides a good overview of
	rocess: http://www.makinglearningreal.org/index.html
3A8.	All Schools: Do your students engage in Meaningful Watershed Education Experiences (MWEE) or have other
	meaningful outdoor experiences (investigative or experiential projects that engage students in critical thinking,
	problem solving and decision making) at every grade level?
	∑Yes
	If "Yes," please describe these experiences for the last school year and how many different classrooms and students
	were involved. If not all grades, specify which grades.
Documen	tation: See the appendix for a teacher-written description of the Meaningful Watershed Education Experience. All
	nrolled in the Environmental Science and Natural Resources Module, approximately 50% of our enrollment, participate
	perience. Pictures are included in the appendix.
Elen	nent 3B: Use of the environment and sustainability to develop STEM content knowledge
	and thinking skills to prepare graduates for the 21st century technology-driven
	economy
3B1.	
SDI.	Do your students matriculate or graduate with a robust general science education that includes a deep understanding
	of life, physical, and Earth sciences?
	Yes □No
	How many hours per week on average do students spend in science content classes?
	212.5 hrs.

Docume	ntation : All of our students take Science 8 which is a combination of life, physical, and earth science. We follow the
	Science 8 Curriculum as found on the DOE website:
	vww.doe.virginia.gov/testing/sol/blueprints/science blueprints/blueprint science8.pdf).
3B2.	High School: If your school is a high school, does your curriculum provide a demonstrated connection between classroom content and college and career readiness, particularly to post-secondary options that focus explicitly on environmental and sustainability fields, studies, and/or careers?
	Yes No
Dogumo	If "Yes," please describe these college and career connections. ntation: The Gereau Center is an 8th grade school.
Ele	ment 3C: Development of civic engagement knowledge and skills, and students' application of these to address sustainability and environmental issues in their community
3C1.	Are all students required to conduct an age-appropriate, self-selected civic/community engagement project at every
301.	grade level?
	☐Yes ☒No If not in all grades, specify which grade levels and subjects.
	What percentage of these projects focused on environmental or sustainability topics? 100 %
	What percentage of students satisfactorily completed such a project last year? 24.43 %
	ntation: The students enrolled in the second quarter Environmental Science Module grow plants which they use to create
majority	ets. In late December, the teacher and students visited local nursing homes to give the gift baskets to residents, the whom are elderly. This class also grows plants in the greenhouse for sale to community members. The students in the
	ntain a Trout in the Classroom (http://www.troutintheclassroom.org/) project.
3C2.	High School: What percentage of last year's graduates scored proficient or better on a community or civic
	engagement skills assessment?
	% Describe the assessment.
Dogumo	ntation : The Gereau Center is an 8 th grade school.
3C3.	All Schools: Does your school partner with local academic, businesses, government, nonprofits, informal science
303.	institutions, and/or other schools to help advance your school, other schools (particularly schools with lesser
	capacity in these areas), and/or the community toward meeting the three overarching goals of Green Ribbon
	Schools?
	⊠Yes □No
	If "Yes," please describe the scope and impact of these partnerships:
	ntation : The Gereau Center has a partnership with the science and education departments at Ferrum College for the
	of writing curriculum for the Center for Energy Efficient Design (CEED). The college students who are science majors
	borate with students who are enrolled in the education programs. They will take the data produced by the solar, wind, and
	blications in the CEED and using this data to create lesson plans to be posted on the website. Teachers of K-12 students, in the world, will use these plans to help their students understand energy concepts, environmental awareness, and
	their carbon footprint. The students will use real time and archived data to perform their calculations. There is a weather
	n campus. The data for the station will also be on the website so students will be able to compare energy production with
	ner conditions. The CEED website, currently in progress, can be found at: http://ceed.frco.k12.va.us/ . The Mobile
	b from Institute of Advanced Learning and Research (IALR), Danville, VA visited The Gereau Center for our students to
	TEM related interactive displays. See the appendix for Element 3B1 for pictures. The IALR web site is:
http://w	ww.ialr.org/education/470.
3C4.	All Schools: Does your school provide outdoor learning opportunities for students (e.g., outdoor classrooms)?
	⊠Yes □No
	If "Yes," describe how outdoor learning is used to teach an array of subjects in context, engage the broader
Dogumo	community, and develop civic skills:
	ntation : The school sits on 15 acres of land. The following demonstrates outdoor usage of land for instructional use: the esign Module for outdoor filming; the Aviation Module tests model airplanes, rockets, and tetrahedral kites; patio for
	instructional use; the Forensic Science Module as an outdoor lab area for entomology studies; the
	ing/Architecture Module for testing solar-powered cars; the Environmental Science Module for gardening, the students in
	ule use the Grassy Hill Trail for science exploratory hikes, and conduct Project Learning Tree activities; the Health &
	Services Module for trust-building activities.

All Schools: What other indicators or benchmarks (quantified whenever possible) of your progress towards the goal of 100% of your graduates being environmental literate does your school feel should be considered by the review committee?

Documentation: We have a school-wide plastic milk bottle recycling program. The program is promoted by student-made posters throughout the building, student-written skits, and public service announcements that are broadcast on the closed circuit television system on which our morning announcements are made. In two months time we have recycled 98.0 pounds of plastic through this initiative. Curriculum changes are guaranteeing that all students at The Gereau Center will enroll in a science class rich in environmental and sustainability concepts.

Crosscutting Questions:

CcQ1. If your school is participating in a local, state, or nationally recognized green school program, please explain what program and what level (if applicable) your school has achieved?

Documentation: The school yard has received the Certified Wildlife Habitat designation from the National Wildlife Federation. The Environmental Science Module teacher uses Project Learning Tree, Project Wild, Project Wet, and NEED activities. She is trained in School Yard Ecology, Coyote Mentoring, and NEED.

We are a partner with Labs21[®], which is dedicated to improving the environmental performance of U.S. laboratories. Labs21[®] is sponsored by the US Environmental Protection Agency (EPA) and the US Department of Energy (DOE). See: http://www.labs21century.gov/community/partnership/partners/gereau.htm

The students in the Environmental Science and Natural Resources Module maintain a Trout in the Classroom (http://www.troutintheclassroom.org/) project. On Arbor Day, the students in the Environmental Science and Natural Resources Module pass out saplings to every student for planting at home. The students in the class separate the trees and prepare them for survival by wrapping them in wet newspaper. The trees are distributed as the students are boarding the buses at the end of the day.

CcQ2. If your school has received any green school, environmental, healthy school, environmental education, or sustainability education awards, please describe.

Documen	tation	
2005	National Award of Excellence	Council of Education for Facility Planners, International ¹
2005	Award of Commendation	Council of Education for Facility Planners, International
2005	1 st Place Schools of the Future Competition	Council of Education for Facility Planners, International
2006	National Award of Distinction	Council of Education for Facility Planners, International
2006	Award of Commendation	Council of Education for Facility Planners, International
2006	2 nd Place Schools of the Future Design Competition	Council of Education for Facility Planners, International
2009	Schools of the Future Award	Council of Education for Facility Planners, International
2009	3 rd Place Schools of the Future Design Competition	Council of Education for Facility Planners, International
2010	Cool Citizen Award in Government Category	Roanoke Valley Cool Cities Coalition – All Affiliates Conference
2011	Innovations in Green School Design, Retrofit,	Virginia Sustainable Building Network & US Green
	and Learning Opportunities	Building Council
	Innovations in Green School Design, Retrofit,	Virginia Sustainable Building Network & US Green

¹The Council of Education for Facility Planners, International sponsors the Schools of the Future Design Competition (http://www.cefpi.org/i4a/pages/index.cfm?pageid=3550) in which teams of students design schools that use building and environmental features to improve student performance.

Appendix A

The Gereau Center for Applied Technology & Career Exploration

Team Members:

Suzanne Rogers, assistant superintendent, Franklin County Public Schools
Elaine Hawkins, coordinator of testing, Franklin County Public Schools
Claude Scott, Head Custodian, The Gereau Center
Lori Sloan, Environmental Science Module Teacher, The Gereau Center
Kevin Bezy, Principal, The Gereau Center
JT Hodges, Assistant Purchasing Coordinator, Franklin County Public Schools
Charles Hutto, Supervisor of Food Services, Franklin County Public Schools
George Washington, Director of Technology Services, Franklin County Public Schools
Steve Oakes, Director of Facilities & Transportation, Franklin County Public Schools

Donna Carter, Supervisor of Transportation, Franklin County Public Schools

Darryl Spencer, Supervisor of Maintenance, Franklin County Public Schools

Roger Houchins, Maintenance, Franklin County Public Schools

Adam Cohen, Design-Builder, Structures Design/Build, LLC

Diana Christopulos, Director, President & Board Chair, Roanoke Valley Cool Cities Coalition

Barbara Shaffer, Media Design Module Teacher, The Gereau Center

Tom Woodford, Certified Energy Manager, Appalachian Power Company

Kathy Wray, payroll & accounts payable clerk, Franklin County Public Schools

Lee Cheatham, CPA, Director of Business & Finance, Franklin County Public Schools

Heather Sneed, School Division Nutritionist, Franklin County Public Schools

Students from the Environmental Science & Natural Resources Module, The Gereau Center

Site-Based Management Team, The Gereau Center

Gina Simpson, Arts Module Instructor

Cathy Huffman, Legal Science Instructor

Andrea Jennings, School Health Officer

Regina Johnson, Guidance Counselor

Barbara McCubbin, Students with Disabilities Lead Teacher

Sandy Sampson, Aviation/Aerospace Instructor

Alison Jones, Mathematics Instructor

David Thorp, Civics & Economics Instructor

Cheri Neely, school volunteer

Charles Bowles, Assistant Supervisor of Buildings and Grounds, Franklin County Public Schools

Appendix B

Documentation for the Standards

ELEMENTS 1A1, 1A2 & 1A8

OMB No. 2060-0347



STATEMENT OF ENERGY PERFORMANCE The Gereau Center for Applied Technology & Career **Exploration**

ENERGY STAR Building ID: 3004963 For 12-month Period Ending: December 31, 20111 Date SEP becomes ineligible: N/A

Date SEP Generated: January 27, 2012

Facility
The Gereau Center for Applied
Technology & Career Exploration
150 Technology Drive
Rocky Mount, VA 24151

Facility Owner Franklin County Public Schools 25 Bernard Lane Rocky Mount, VA 24151

Primary Contact for this Facility

Year Built: 1996 Gross Floor Area (ft²): 67,500

Energy Performance Rating2 (1-100) 68

Site Energy Use Summary^a Electricity - Grid Purchase(kBtu) Electricity - On-Site Solar(kBtu) Propane (kBtu) Natural Gas - (kBtu)⁴ Total Energy (kBtu) 2,663,902 10,529 1,242,192 3,916,623

Energy Intensity4 Site (kBtu/ft²/yr) Source (kBtu/ft²/yr) 151

Emissions (based on site energy use) Greenhouse Gas Emissions (MtCO₂e/year) 631

Electric Distribution Utility Appalachian Power Co [American Electric Power Co Inc]

National Median Comparison National Median Site EUI National Median Source EUI % Difference from National Median Source EUI 69 179 -16% K-12 **Building Type**

Stamp of Certifying Professional

Based on the conditions observed at the time of my visit to this building, I certify that the information contained within this

Meets Industry Standards⁵ for Indoor Environmental Conditions:

Ventilation for Acceptable Indoor Air Quality N/A Acceptable Thermal Environmental Conditions N/A Adequate Illumination

Certifying Professional

- Notes:

 Application for the ENERGY STAR must be submitted to EPA within 4 months of the Period Ending date. Award of the ENERGY STAR is not final until approval is received from EPA.

 The EPA Energy Performance Retirg is based on total source energy. A rating of 75 is the minimum to be eligible for the ENERGY STAR.

 Values represent energy commention, annualized to a 12-month period.

 Values represent energy intensity, annualized to a 12-month period.

 Values represent energy intensity, annualized to a 12-month period.

 Seed of Meeting ASHPIAE Standard 25 or vereitation for acceptable indoor air quality, ASHRAE Standard 55 for thermal comfort, and IESNA Lighting Handbook for lighting quality.

vernment estimates the overage time needed to fill out this form is 5 hours (includes the time for entering energy data, Licensed Professional facility inspection, and notarizing the SEP) and ness suggestions for reducing this level of effort. Send comments (referencing OMB control number) to the Director, Collection Strategies Division, U.S., EPA (2522T), 1200 Prennsylvania Avs., lashington, D.C., 20460.

EPA Form 5900-16

ELEMENT 1A5 & 1A6

LEED Certification Review

Center for Energy Efficient Design

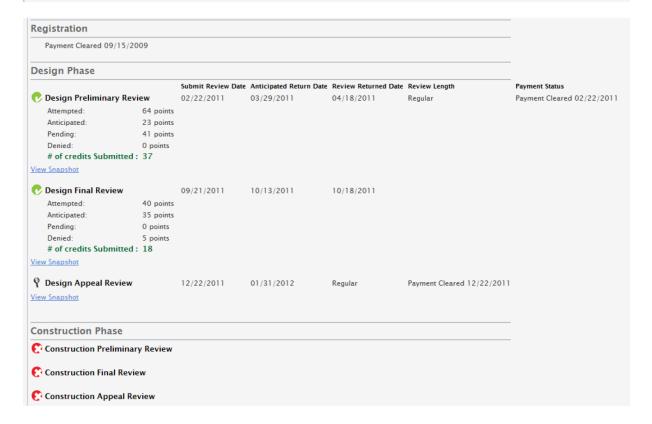
Rocky Mount VA 24151 US | Registered 9/15/2009

Design Appeal Review

Credit Summary

Credits	Attempted	Awarded	Anticipated	Pending	Denied
Design	64 pts/33 crds		58 pts/28 crds		
Construction	16 pts/18 crds				
Total	80 pts/51 crds		58 pts/28 crds		

Note: Credits in review are only included in the Attempted point and credit totals.



ELEMENT 1B11







Students working in garden area







Students working in the herb garden

Trail Head

Wildlife Habitat sign

ELEMENT 2B3

FRANKLIN COUNTY SCHOOL FOOD SERVICE

FARM TO SCHOOL VENDOR EXPENDITURES 2010-2011

						200						
	August	September	October	November	December	January	February	March	April	May	June	TOTAL
FCHS	\$0.00	\$3,645.80	\$2,341.14	\$4,066.25	\$3,288.14	\$913.81	\$1,718.05	\$3,565.77	\$3,770.46	\$1,304.33	\$5,181.93	\$29,795.68
BFMS-W	\$325.00	\$860.75	\$299.03	\$1,314.51	\$793.26	\$131.00	\$175.50	\$1,513.00	\$2,000.50	\$256.54	\$2,712.42	\$10,381.51
BFMS-E	\$0.00	\$2,115.25	\$520.19	\$1,186.20	\$1,186.10	\$75.00	\$249.50	\$1,243.75	\$63.50	\$1,625.79	\$1,193.58	\$9,458.86
CATCE	\$0.00	\$195.25	\$268.00	\$574.75	\$324.25	\$0.00	\$0.00	\$552.50	\$299.00	\$19.29	\$766.51	\$2,999.55
вм	\$0.00	\$1,259.95	\$474.29	\$966.50	\$771.75	\$145.75	\$322.50	\$764.75	\$513.50	\$224.29	\$841.75	\$6,285.03
ВС	\$0.00	\$923.32	\$207.42	\$126.30	\$164.30	\$452.40	\$335.00	\$685.75	\$78.00	\$53.54	\$630.91	\$3,656.94
CA	\$0.00	\$1,662.09	\$474.58	\$1,062.58	\$792.50	\$177.25	\$376.25	\$1,327.75	\$976.82	\$160.54	\$2,032.25	\$9,042.61
DU	\$0.00	\$479.17	\$395.78	\$963.95	\$105.40	\$498.25	\$255.25	\$749.00	\$500.50	\$17.29	\$1,089.25	\$5,053.84
FE	\$0.00	\$652.69	\$470.58	\$544.25	\$485.20	\$127.67	\$83.47	\$268.25	\$295.75	\$7.29	\$982.15	\$3,917.30
GH	\$0.00	\$1,242.83	\$223.49	\$929.10	\$390.95	\$486.00	\$378.15	\$1,184.48	\$749.50	\$355.66	\$890.38	\$6,830.54
HE	\$0.00	\$996.10	\$156.45	\$220.30	\$527.15	\$51.00	\$227.45	\$814.45	\$831.25	\$42.53	\$784.18	\$4,650.86
LW	\$0.00	\$81.92	\$587.69	\$1,530.45	\$1,097.31	\$195.50	\$898.15	\$1,625.45	\$1,372.50	\$597.51	\$2,698.57	\$10,685.05
RM	\$0.00	\$557.47	\$462.13	\$1,270.50	\$1,292.26	\$182.11	\$730.85	\$1,441.75	\$1,040.50	\$356.53	\$2,106.88	\$9,440.98
sc	\$0.00	\$239.45	\$403.02	\$817.50	\$396.75	\$448.75	\$395.55	\$1,325.20	\$1,130.25	\$206.45	\$1,511.37	\$6,874.29
so	\$0.00	\$456.85	\$317.25	\$236.75	\$282.09	\$353.25	\$464.40	\$1,127.96	\$1,198.50	\$289.24	\$1,489.50	\$6,215.79
WG	\$0.00	\$22.50	\$195.38	\$534.31	\$156.50	\$434.90	\$317.75	\$659.75	\$243.75	\$17.28	\$308.75	\$2,890.87
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL	\$325.00	\$15,391.39	\$7,796.42	\$16,344.20	\$12,053.91	\$4,672.64	\$6,927.82	\$18,849.56	\$15,064.28	\$5,534.10	\$25,220.38	\$128,179.70

ELEMENT 2B4



Greenhouse area used for growing tomatoes and for the school plant sale



Aquaponics used for herbs and vegetables



Outdoor bed used for growing herbs

ELEMENT 2B11



Commons area at lunch



Food Service Area



Classroom



Rachel's Challenge poster



2 SHOW Compassion
3 PRACTICE Pre-Acceptance
4 LEARN from your mistakes
5 FORGIVE Yourself & Others

LEAVE a Legacy of Kindness

Rachel's Challenge poster

ELEMENT 3A8

Outdoor dining

Meaningful Watershed Experience Description

Students in the environmental module at The Gereau Center experience their watershed through a network of activities linking trees and water quality. They often begin at the base of the mountain in the wetlands where they discover keystone species indicating the edge where one ecotone meets another. It is here the diversity is greatest and students locate places where wildlife find water, food, shelter, and a place to raise their young. It is in this place students begin to meet the plants such as the wild rose or blackberry getting their attention as the thorns grab their clothes. They learn the rose hips provide vitamin C for humans and wild animals. Students wonder at the clear, sparkling water flowing from a small waterfall

gushing from the saturated wetland soil on its way to the stream across the street. They look up to find the mountain gap where this water springs out of Grassy Hill above them.

This site was donated by a local family to the Nature Conservancy and is now cared for by the Natural Resources Conservation Service. After examining topographic images and mapping their watershed, students learn they live at the headwaters of the Roanoke River watershed which flows through the soil and across the land to the Albemarle–Pamlico Sound in North Carolina. As each student relates their own sense of place within this watershed, stories are shared about the creeks, streams and rivers in which they like to play and fish and swim. These young people know their responsibility for keeping their part of the watershed clean because everyone lives downstream.

After learning about the local history of lightning strikes and fire suppression on Grassy Hill, they see pictures of Menge's Fame Flower (G3/S1) an endangered plant and other mountain residents like the Carolina Thistle, Blazing Star, and common trees living on the magnesium rich rocks along the path they will hike. Students learn about watershed tea and the importance of tree leaves feeding the streams, and their roots holding the soil in the watershed.

Young faces beam with excitement as they begin the ascent up the mountain trail. One student finds a tree fallen across the path revealing its age. Another curious observer moves to get a closer look to see if something is living in the big hole at the base of a tree. Looking at the whole forest picture, they closely observe patterns in nature that tell the history of this mountain forest while gathering leaves to identify individual species along the way. An heirloom apple collected from the stream sparks questions and peaks curiosity of its origin. Student questions indicate their awareness of the importance of forestlands in maintaining our watershed. Their search gets in depth as they enter the stream looking for salamanders and other organisms; clues for discovering the quality of the water. The students stop to pause and find a sit spot, a quiet time to be with nature and reflect. The only sound heard in the forest is the wind blowing through the trees. One student gently lifts the sparkling stream water between his fingers. Individual students experience the headwaters of the collective watershed and will follow the creek down the mountain to the stream that weaves through the forest near the wetland.

It is in this protected riparian buffer students will sample the stream using the Save Our Streams methods they learned in the classroom. The macroinvertebrates they collect will help them identify the water quality of this stream. Giggling is heard as they check the speed of the water with a tennis ball and stopwatch. They climb down a steep bank to check the pH and lift rocks looking for treasures. One student sighs as they have to get back to school and comments she doesn't like to end her time in nature. We all agree. As we walk back to school, some of the students make a vow to bring back bags and gloves to clean up the trash around the stream. They share stories of clean ups they have done in their own neighborhoods. One student comments they put fences up on their farm so the cows cannot get into the water. Another student shares the story of the day their manure pond broke loose contaminating the Pigg River. We all remembered that day. The water treatment plant even had to shut down. The connections these students make between their actions, choices and maintaining the quality of their watershed is lifelong learning.

Back in the classroom, the light is turned on as students are asked if they are connected to mountain top coal removal. Most answer no. Viewing parts of *Coal Country*, students identify the values and beliefs of the people imbedded in this very local issue. Students listen intently as one teacher shares his family history connected to coal and what it was like when his father mined coal and died in a long wall mine in Virginia. Listening to Judy Bonds share deep concern for her community and the black water flowing in Coal River, the students cannot help but feel the despair of these nearby families torn apart by opposing views on this volatile issue. They learn of the inspirational steps she takes to save her river and her beloved mountain. In her passing, they learn it is the Clean Water Act and the endangered critters living in the river that save her mountain, the river and the people for whom it is their lifeblood.

As students experience a holistic watershed journey, they think twice about throwing a bag or bottle from their car into the creek. They know there is something alive in the water they want to protect. They appreciate the trees blowing in the cool mountain air and the rivers that feed the forest and bring life to their community and everyone downstream.



On the trail investigating the watershed



At the top of the trail



At the stream

ELEMENT 3B1



Students in the forensic science lab



Mobile STEM lab from Institute of Advanced Learning and Research, Danville, VA (IALR)



Mobile STEM lab from



Mobile STEM lab from IALR



Students conducting landfill experiment



Student collecting data using a microscope

ELEMENT 3C1



Trout in the Classroom aquarium



Plants for sale in the greenhouse



Students with plants for nursing home residents

ELEMENT 3C4



Environmental Science student



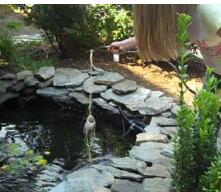
Aviation students testing kites



Legal Science students lifting fingerprints



Social studies students listening to lecture



Student examining pond



Life skills students conducting nature studies

