

To:

James Reardon, Commissioner of Finance & Management

From:

Nathan Lavery, Fiscal Analyst

Date:

April 18, 2012

Subject:

JFO #2555, #2559, #2560

No Joint Fiscal Committee member has requested that the following items be held for review:

JFO #2555 – \$790,018 grant from the U.S. Department of Health and Human Services to the Vermont Department of Mental Health. This grant will be used to provide regular crisis counseling services to survivors of Tropical Storm Irene in Addison, Bennington, Caledonia, Chittenden, Franklin, Lamoille, Orange, Rutland, Washington, Windham and Windsor Counties.

[JFO received 3/19/12]

JFO #2559 – \$503,055 grant from the U.S. Department of Agriculture, passing through six Vermont farms, to the Vermont Agency of Agriculture, Food and Markets. This grant will be used to purchase water quality monitoring equipment for use in evaluating the effectiveness of agricultural best management practices for controlling runoff. Funding for the design of water quality monitoring stations was previously approved by the Joint Fiscal Committee (JFO #2537).

[JFO received 4/04/12]

JFO #2560 – \$350,000 grant from the Lake Champlain Basin Program to the Vermont Agency of Agriculture, Food and Markets. This grant will be used as matching funds for the water quality monitoring program to evaluate the effectiveness of agricultural best management practices for controlling runoff. Funding for the design of water quality monitoring stations was previously approved by the Joint Fiscal Committee (JFO #2537).

[*JFO received 4/04/12*]

The Governor's approval may now be considered final. We ask that you inform the Secretary of Administration and your staff of this action.

cc:

Patrick Flood, Commissioner Chuck Ross, Secretary

JOINT FISCAL OFFICE

To:

Joint Fiscal Committee Members

From:

Nathan Lavery, Fiscal Analyst

Date:

April 6, 2012

Subject:

Grant Requests

Enclosed please find two (2) items that the Joint Fiscal Office has received from the administration.

JFO #2559 – \$503,055 grant from the U.S. Department of Agriculture, passing through six Vermont farms, to the Vermont Agency of Agriculture, Food and Markets. This grant will be used to purchase water quality monitoring equipment for use in evaluating the effectiveness of agricultural best management practices for controlling runoff. Funding for the design of water quality monitoring stations was previously approved by the Joint Fiscal Committee (JFO #2537). Expedited review has been requested. Joint Fiscal Committee members will be contacted by April 16 with a request to waive the balance of the review period and approve acceptance of these funds.

[*JFO received 4/04/12*]

JFO #2560 – \$350,000 grant from the Lake Champlain Basin Program to the Vermont Agency of Agriculture, Food and Markets. This grant will be used as matching funds for the water quality monitoring program to evaluate the effectiveness of agricultural best management practices for controlling runoff. Funding for the design of water quality monitoring stations was previously approved by the Joint Fiscal Committee (JFO #2537). Expedited review has been requested. Joint Fiscal Committee members will be contacted by April 16 with a request to waive the balance of the review period and approve acceptance of these funds.

[JFO received 4/04/12]

Please review the enclosed materials and notify the Joint Fiscal Office (Nathan Lavery at (802) 828-1488; nlavery@leg.state.vt.us) if you have questions or would like an item held for legislative review. Unless we hear from you to the contrary by April 13 we will assume that you agree to consider as final the Governor's acceptance of these requests.

PHONE: (802) 828-2295

FAX: (802) 828-2483

TO:

Nathan Lavery

Fiscal Analyst

FROM:

Laura DiPietro

Agency of Agriculture, Food & Markets

DATE:

March 27, 2012

SUBJECT:

Request to Expedite Grant Acceptance

This request is to expedite the grant approval for phase 2 of the AGO Agricultural Practice Monitoring Project. A major piece of the project is the monitoring equipment that will be installed on the individual sites, which is in phase 2. This equipment takes 4-6 weeks to be delivered after the initial purchase order is placed. A PO cannot be submitted until these funds have been approved by the State and a contract executed with the contractor. The project aims to collect surface water runoff from farm fields and should include a full year of practice implementation for increased statistical power. In order to get data for the full year including the spring practices, we are trying to shorten the time frame until the equipment can be ordered and installed on site. If we are unable to get the spring data, the project may need to be extended another year which would cost more time and money.

JF0 2559



State of Vermont

Version 1.1 - 10/15/08

Department of Finance & Management 109 State Street, Pavilion Building Montpelier, VT 05620-0401

Agency of Administration

[phone] 802-828-2376 802-828-2428 [fax]

JPO 7559

STATE OF VERMONT FINANCE & MANAGEMENT GRANT REVIEW FORM This is one of three grants to provide federal capital investments in monitoring **Grant Summary:** and evaluation of agricultural field best management practices. The first grant from the U.S.Natural Resources Conservation Services (JFO # 2537) was approved 12/13/2011 for \$70,000. This new grant request is for the assignment of \$503,055 in federal funds(that were received by local farmers) to Agency of Agriculture Food and Markets to purchase needed equipment for the project. The second new grant is from the Lake Champlain Basin Program and the New England Interstate Water Pollution Control Commission for \$350,000 and is described in the second AA1 form being submitted at the same time as this grant request. 3/27/2012 Date: Agriculture, Food and Markets Department: Legal Title of Grant: AGO Contract for Monitoring and Evaluation of BMP Implementation for Water Quality Federal Catalog #: N/A Grant/Donor Name and Address: See List of Farmers that assigned these funds to Agriculture. **Grant Period:** From: 3/31/2012 **To:** 12/31/2015 Grant/Donation \$503.055 SFY 1 SFY 2 SFY 3 Total Comments \$364.095 \$69,480 \$69,480 \$503.055 **Grant Amount:** # Positions **Explanation/Comments Position Information:** 0 **Additional Comments:** These funds come from federal grants to farmers that the farmers assigned to Agriculture Food and Markets to buy the monitoring equipment. Department of Finance & Management (Initial) RECEIVED Secretary of Administration (Initial) APR 0 2012 JOINT FISCAL OFFICE Department of Finance & Management

STATE OF VERMONT REQUEST FOR GRANT (*) ACCEPTANCE (Form AA-1)

BASIC GRANT INFOR	MAT	ION			
1. Agency:		ermont Agency of A	oriculture		
2. Department:		gricultural Resource		3.1	
2. Department.	17	gricanara resource	1		
3. Program:	\\	ater Quality			
J. I Togram.	1 **	alci Quality			
4. Legal Title of Grant:	A	GO Contract for Mo	nitoring and Evalua	tion of BMP Implementar	tion for Water Quality
5. Federal Catalog #:		/A	mioring and Diraca	tion of Divis implementa	non for trailer quality
o. rederar catalog ".		77.1			··············
6. Grant/Donor Name at	nd Ada	drace:			The state of the s
See attached list of					
	From		To	: 12/31/2015	
7. Grant Leriou.	1.10111	5/5//2012		. 12/3/12013	
8. Purpose of Grant:					
	ar Oua	lity Improvements in	I ake Champlain W	Interched	
9. Impact on existing pro				atersneu	
				g and evaluation of agricu	ultural field heet
				als which will help Verm	
				ents of the Lake Chample	
Environmental Pr			and future requirem	ents of the Lake Champia	in Twide nom the
10. BUDGET INFORMA	ATIO	N			
		SFY 1	SFY 2	SFY 3	Comments
Expenditures:		FY 2012	.FY 2013	FY 2014	
Personal Services		\$	' \$	\$	
					Reimbursement to contractor for purchase of
Operating Expenses		\$364,095	\$69,4	80 \$69.480	equipment
Grants		\$	\$	\$	
	otal	\$364,095	\$69,4		
Revenues:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ψ501,305	Ψ02,1	φο,,,ου	
State Funds:		\$	\$	\$	
Cash		¢	\$	\$	
In-Kind		\$	<u> </u>	\$	
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Federal Funds:		\$	\$	\$	
(Direct Costs)		\$	\$	\$	
(Statewide Indirect)		\$	\$	\$	
(Departmental Indirect	t)	\$	\$	\$	
(Bepartmental Indirect	0	J	Ψ	Ψ	
Other Funds:		\$	\$	\$	
Grant (source Federal		Ψ	Ψ	9	<u> </u>
Direct Assignments of					
Payment-farm contracts)		\$364,095	\$69,4	80 \$69,480	
	otal	\$364,095	\$69,4 \$69,4		
1	'otal	\$304,093	Φ09,4	ou <u>\$09,480</u>	<u> </u>
	22222	140000	T	0,000,000	
Appropriation No:	22000)40000	Amount:	\$503,055	

MAR 2 9 2012

\$503,055

Total

STATE OF VERMONT REQUEST FOR GRANT (*) ACCEPTANCE (Form AA-1)

PERSONAL SERVICE IT			
		one or more Personal Service Contracts?	
		ndicate intent to follow current competitive biddi	ng process/policy.
Appointing Authority Nam	e: Jolinda LaClair Agr	eed by:(initial)	
12. Limited Service			
Position Information:	# Positions	Title	
Total Positions			
12a. Equipment and space		s presently available.	h available funds
positions:	ior these	s presently available.	in available fullds.
13. AUTHORIZATION A	GENCY/DEPARTMI	ENT	
I/we certify that no funds	Signature:	So H WO DOR	Date: 3-27-12
beyond basic application preparation and filing costs	Title: Deputy Secret	ary of Agriculture	3-21-12
have been expended or		,	
committed in anticipation of Joint Fiscal Committee	Signature:		Date:
approval of this grant, unless			
previous notification was made on Form AA-1PN (if	Title:		
applicable):	N. C.	:	
14. SECRETARY OF AD		进步的进行。 和可能发展的发展,如何是2000年300	
	(Secretary or designee signa	dure)	Date:
Approved:		Str. J	03/30/12
15. ACTION BY GOVER	NOR		
. Check One Box:			
Accepted	(Consumer or		D-t
	(Governor's signature)		Date: 4/4/19
Rejected			1110
16. DOCUMENTATION	REQUIRED		
	Required	GRANT Documentation	
Request Memo	familiachla)	Notice of Donation (if any)	
Dept. project approval (i Notice of Award	i applicable)	Grant (Project) Timeline (if applicable) Request for Extension (if applicable)	
Grant Agreement		Form AA-1PN attached (if applicable)	14
Grant Budget			
(*) The term "grant" refers to		End Form AA-1 y sum of money or thing of value to be accepted by an	IV agency
department, commission, board			ij ugonoj,

STATE OF VERMONT REQUEST FOR GRANT (*) ACCEPTANCE (Form AA-1)

BASIC GRANT INFORMA	TION			
1. Agency:	Vermont Agency of Agr	riculture		
2. Department:	Agricultural Resource M	1anagement		
3. Program:	Water Quality			
4. Legal Title of Grant:	AGO Contract for Moni	toring and Evaluation of	BMP Implementat	ion for Water Qual
	N/A			
6. Grant/Donor Name and A See attached list of far				
7. Grant Period: From		To: 12/3	31/2015	
9. Impact on existing progra This grant provides for management practices	m if grant is not Acceptederal capital investments to determine phoshorus r the Clean Water Act ar	Lake Champlain Watershoted: ts in the monitoring and es reduction potentials whind future requirements of	evaluation of agricu ch will help Vermo	ont farmers to meet
10. BUDGET INFORMATI			1F15303.0000001020202	
	SFY 1	SFY 2	SFY 3	Comments
Expenditures:	FY 2012	FY 2013	FY 2014	
Personal Services	\$	\$	\$	
Operating Expenses	\$364,095	\$69,480	\$69,480	Reimbursement to contractor for purchase of equipment
Grants	\$	\$	\$	
Total	\$364,095	\$69,480	\$69,480	
Revenues:				
State Funds:	\$	\$	\$	
Cash	\$	\$	\$	
In-Kind	\$	\$	\$	
Federal Funds:	Φ	0	₫.	
	\$	\$	\$ \$	
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(Direct Costs)	\$	\$		
(Direct Costs) (Statewide Indirect)	\$	\$	\$	
(Direct Costs)				
(Direct Costs) (Statewide Indirect) (Departmental Indirect)	\$	\$ \$	\$ \$	
(Direct Costs) (Statewide Indirect)	\$	\$	\$	

Amount:

MAR 2 9 2012

\$503,055

Total \$503,055

Appropriation No:

2200040000

Farmers with Assignment of Payments to the Agency of Agriculture for the AGO Monitoring and Evaluation Project

Wayne Fiske 2534 Durkee Road Highgate Center, VT 05459

Shelburne Farms 1611 Harbor Road Shelburne, VT 05482

North Williston Cattle Inc 347 Fay Lane Williston, VT 05495

Woodnotch Farms Inc 245 Barnum Hill Road Shoreham, VT 05770

Kimball Brook Farm LLC 128 Bay View Road North Ferrisburg, VT 05473

Deer Flats Farm LLC 1290 VT Route 30 West Pawlet, VT 05775



TO:

Jeb Spaulding

Agency of Administration

FROM:

Laura DiPietro

Agency of Agriculture, Food & Markets

DATE:

March 24, 2012

SUBJECT:

AGO Agricultural Practice Monitoring Project

This project is to install agricultural best management practices which will be monitored in the field to determine the beneficial water quality impacts the practices are capable of. This project has been broken into 2 phases. Phase 1 has been approved by JFO (#2537) and is contracted with the help of BGS between Vermont Agency of Agriculture, Food & Markets (VAAFM) and Stone Environmental Inc. This request is to accept the funding for phase 2 which will also be awarded to Stone Environmental Inc. Stone was selected through a RFP process that included both phases.

Contracted

Phase 1: Architectural & Engineering (A&E) Contract to develop a Quality and Assurance Project Plan (QAPP), do the site characterization, design the water quality monitoring stations and oversee the construction of the stations (NOTE construction cannot begin until Phase 2 is contracted because the funds to purchase the equipment are in P2). The total of this phase is \$71,410. A grant of \$70,000 has already been provided to VAAFM from the USDA Natural Resource Conservation Service (NRCS), which included approval by the Governor's office, Joint Fiscal Committee and the Office of Finance and Management. The remaining \$1,410 will come from the VAAFM Best Management Practices fund.

Requested

Phase 2: This phase will be a change order to the first A&E contract with the same contractor selected from the primary RFP process. This phase will span 3 years and includes agronomic practice documentation, purchasing equipment to install the water quality monitoring stations, calibration of the installed equipment, water sample and site specific data collection, treatment application, routine facility maintenance, sample analysis, database development, statistical analysis and data interpretation, project communication, practice evaluation, site decommissioning, and reporting. There are 2 sources of funding that still need approval by the Governor's office, Joint Fiscal Committee and the Office of Finance and Management. One source is \$350,000 from the Great Lakes Fishery Commission (GLFC) funding from the Take Champlain Basin Program (LCBP) and the New England Interstate Water Pollution Control Commission (NEIWPCC), and the other is \$503,055 coming directly out of farmer federal Environmental Quality Incentive Program (EQIP) contracts through direct assignments.

The total cost of the project is expected to be \$976.042. The total funding available for the project is \$923,055 cash and \$52,987 in in-kind matches from VAAFM and the Vermont Department of Environmental Conservation (DEC). There is an opportunity for VAAFM and the DEC to provide an additional \$100,000 in in-kind matches through laboratory sample analysis and data collection tasks should there be cost-overruns or changes in the scope of work.

AGO Agricltural Water Quality Monitoring Project

	Total Costs	s	PHASE 1		PHASE 2				
	All 3 years		A&E	As	Direct ssignments		GLFC		In-kind
monitoring design by paired site - includes site characterization and study design, soil sampling, drainage area delineation, and flow prediction modeling	\$ 28,2	68	\$ 26,858					\$	1,410
quality assurance plan development	\$ 6,3	97	\$ 6,397						
equipment and materials (including maintenance)- includes equipment purchase, monitoring supplies, non-routine maintenance, mileage, and incidentals	\$ 221,8	93		\$	221,893				
installation (A&E)-includes project kick-off meeting with landowner, monitoring facility design, and construction oversight	\$ 36,7	45	\$ 36,745						
installation - monitoring facility construction	\$ 32,1	.06		\$	32,106				
decommissioning - includes removing all equipment and any necessary site restoration	\$ 11,3	32		\$	5,876	\$	5,456		
monitoring costs (data collection and sample delivery) includes sample collection and routine maintenance of the monitoring facility	\$ 301,2	23		\$	243,180	\$	58,043		
sample analysis	\$ 114,5	576				\$	62,999	\$	51,577
watershed and practice data collection	\$ 20,3	00				\$	20,300		
database development	\$ 5,2	42				\$	5,242		
data management - includes data entry, analysis, and QA/QC	\$ 88,0	24				\$	88,024		
meetings - semi-annual meetings with PAC	\$ 16,1	.89				\$	16,189		
meetings - annual presentations to TAC		75				\$	7,975		
practice evalution	\$ 8,2	61				\$	8,261		
reporting - includes project communication, preparation of annual and final reports	\$ 77,5	10				\$	77,510		
total project costs	\$ 976,0	42	\$ 70,000	\$	503,055	\$	350,000	\$	52,987

Vermont Agricultural Best Management Practice Monitoring and Evaluation Project Work Plan

Under the America's Great Outdoors Initiative (AGO) NRCS Vermont is working with farmers and partners to establish seven edge of field water quality monitoring stations. The purpose of the monitoring is to evaluate the effectiveness of selected agricultural best management practices (BMP's) for a period of at least 3 years. Using this new practice standard, water quality monitoring stations will be installed at the edge of fields prior to BMP implementation to collect baseline data. Samples will continue to be collected for a number of years following practice implementation (e.g., cover crops, soil aeration on hayland, and water and sediment control basin) to evaluate their effectiveness in trapping and/or removing sediments and nutrients prior to entering surface waters.

Data on the effectiveness of these BMPs will allow us to better focus our resources on those conservation systems that are most effective in addressing runoff and associated nutrient and sediment losses. This data is needed to strategically align conservation planning and financial assistance programs with those practices that provide the greatest benefit in our landscape. The information could also be used as input into phosphorus tracking systems, TMDL formulation, and for future computer modeling.

Study Design: For this monitoring study there will be six sites with paired watershed designs, and one site with an in-line sampling design. At every site total event discharge, event mean concentration, and event export data will be collected and/or computed for each monitored event. At the start of the treatment period, a change in management is applied to the treatment watershed, while the control watershed remains in the original management. The basis of the paired-watershed approach is that there is a quantifiable relationship (i.e., a linear regression model) between paired data from the watersheds (calibration) and that this relationship is valid until a change is made in one of the watersheds (treatment). At that time, a new relationship will exist. The difference between the calibration and treatment relationships is used to evaluate and quantify the effect of treatment. For in the in-line treatment, no experimental treatment will be applied to the watershed draining into the WASCoB, instead sampling will be performed at the inlet and outlet of the structure to test the before and after treatment conditions.

QAPP Development and Approval: A QAPP will be developed using the Environmental Protection Agency Requirements for QA Project Plans (QA/R-5). The contractor submitted a response to the Request for Proposals (RfP) posted for the Agricultural Practice Monitoring and Evaluation Project, the QAPP should include all elements from the RfP. The QAPP should be sent to VAAFM and the Lake Champlain Basin Program for approval. The QA Project Plan is divided into four basic element groups: Project Management; Data Generation and Acquisition; Assessment and Oversight; and Data Validation and Usability. Each group consists of standard elements, 24 in all, that pertain to various aspects of the project. A QA Project Plan that addresses the basic elements will define and describe the following:

- · who will use the data;
- what the project's goals/objectives/questions or issues are;
- what decision(s) will be made from the information obtained;
- how, when, and where project information will be acquired or generated;
- what possible problems may arise and what actions can be taken to mitigate their impact on the project;

- · what type, quantity, and quality of data are specified;
- how "good" those data have to be to support the decision to be made; and
- how the data will be analyzed, assessed, and reported.

Site Characterization: Basic characterization data will be collected for each field/watershed. A topographic survey will be done using an autolevel and stadia rod. Surface elevation data will be tied to a temporary benchmark with an assumed elevation. The drainage boundary of each field will be delineated with a sub-meter GPS. Where available, LiDAR-based topographic data will be used as an ancillary dataset to refine drainage boundaries and set benchmarks in the field.

The general physical and chemical properties of soils in the selected fields will be evaluated through laboratory analysis. Soil samples from the 0-15 cm depth will be collected in each field at nodes in a sampling grid. Samples will be analyzed for pH and available P, K, Mg, Ca, Fe, Mn, and Zn following extraction in modified Morgan solution. Organic matter will be quantified by the loss on ignition method and reported in Walkley-Black method equivalents. Soil particle size will be analyzed by wet sieving and the hydrometer method.

Using the drainage areas, soils data, topographic data, and known rainfall frequencies and depths, rainfall-runoff modeling will be performed for each field using standard NRCS methods (i.e., TR-55 model). Predicted runoff volumes will be used to guide monitoring station construction, primarily to size flumes.

Agronomic Practice Documentation it is assumed that for each study watershed, a record of agricultural management practices with dates applied will be developed and maintained by the Vermont Association of Conservation Districts (VACD) under separate direction from AAFM. It will be essential that VACD collects agricultural management information on a regular basis and shares it promptly with the Project Team.

In addition, the Project Team will be recording onsite observations and discussions with the farmer and capturing still images using time-lapse cameras. Taken together, these datasets will allow the Project Team to develop a chronology for each study field that includes descriptions and dates of planting, tillage, aeration, corn harvest or hay mowing, manure application/injection (source, rate, and date), mineral fertilizer application (type, rate, and date), and other important events, as appropriate. Field condition images recorded at least daily by the time-lapsed cameras will be used to verify management actions and dates where there are any questions and will aid in interpretation of the flow and pollutant transport data.

Monitoring Facility Design and Construction: The contractor will use commercially available monitoring systems manufactured and sold by companies that will be able to provide robust and ongoing technical support.

A simple meteorological station (Onset HOBO®) will be installed at each participating farm for the continuous monitoring of rainfall and air temperature. Precipitation and temperature data will be used to characterize and contrast hydrologic events across monitoring stations and seasons. Temperature data will be used to establish whether recorded precipitation likely fell as rain or snow.

Air temperature will be recorded as hourly and daily, minimum, maximum and average values throughout the study period. The temperature sensor will be housed in an appropriate solar radiation shield. A tipping bucket rain gage will be installed above the maximum crop canopy level. Every tip, marking accumulation of 0.2 mm of rainfall, will be recorded in memory with a time stamp. Continuous

precipitation monitoring will be supplemented by an inexpensive, manual rain gage located at each site as a backup.

The primary hydraulic device used at each runoff monitoring station will be an appropriately-sized H-flume manufactured by Tracom, unless potential tailwater problems are anticipated based on topographic survey at the watershed outlet. If tailwater problems (which can result in submergence of the flume and invalidation of stage data) cannot be avoided through optimum flume placement and through trenching below the flume outlet, a flume more tolerant of submerged conditions will be installed, such as the HXL flume recently developed by researchers at the University of Wisconsin-Platteville. Each flume will be bolted to a manifold made from a ³/4-inch plywood sheet, which will be partially buried such that the flume entrance is level with the ground. Plywood wingwalls will be installed as needed to direct flow into the flume. Through the life of the monitoring phase, the flume will be kept level using a system of threaded adjustable rods and shims.

An ultrasonic water level sensor (ISCO 2110 Ultrasonic Flow Module) will be installed in each flume to continuously measure stage (water level). Level data will be converted to flow rate based on the established hydraulic properties of the flume. These data will be used for generation of runoff event hydrographs and in calculation of pollutant transport rates. Averaged level data will be logged at approximately three-minute intervals on a connected Interface Module (ISCO 2105-Ci Interface Module).

Also connected to the ISCO 2105-Ci Interface Module will be an ISCO 6712 autosampler. The autosampler will be programmed to pump runoff water on a flow proportional basis into bulk (12 L) sample containers. To minimize the occurrence of under-sampling and overfilling, a two-part program will be used whereby the autosampler pumps sample to two containers at different intervals of accumulated flow. One bottle is intended to capture a representative runoff sample from small to medium sized events and a second bottle is intended to capture the medium to large events. The second bottle will be filled at approximately 1/10th the frequency of the first bottle. If the capacity of bottle 1 is exceeded, the sample will be rejected and bottle 2 will be used instead. If the capacity of bottle 1 is not exceeded, bottle 1 will be used and any sample in bottle 2 will be discarded. To double the container volume available for very large runoff events, a third bottle may be filled at the same flow pacing interval as bottle 2 after bottle 2 is filled. If this overflow bottle is used, samples from both bottles 2 and 3 will be submitted for analysis to allow calculation of event mean concentrations at a later date. Using this sampling program, most small storms will provide sufficient sample (approximately 1.5 L is required) to perform the requested analyses and most large storms will not exceed the container capacity; runoff events varying in size by more than a factor of 100 can be representatively and automatically sampled.

In addition to optimizing the autosampler program as described above, sampler pacing settings will be adjusted seasonally and in advance of major predicted storms, with the intent of representatively sampling every runoff-producing storm. Adjustment to the program to increase or decrease the sampling frequency will be made either by direct connection or via remote access.

After each monitored storm event, field technicians will collect subsamples from the appropriate bulk sample bottle for delivery to the Vermont DEC laboratory. The entire volume of collected sample in bottle 1 or bottle 2, will be poured into a 14-L polyethylene churn splitter, a device that consistently agitates the water to deliver representative subsamples from a spigot. A dedicated churn splitter will be stored in each instrument shelter and will be decontaminated after each use. The subsamples will be

collected in containers provided by the DEC laboratory.

Using the ISCO 2105-Ci Interface Module with integral IP modem, we expect that two-way remote communication will be possible at all monitoring locations. The hydrologic and sampling data from each station will not need to be called up and downloaded but will rather be pushed at approximately 15-minute intervals to a common server maintained by the Contractor, at which point the data will be directly viewable on a customized web site. Battery voltage data will also be pushed to the server. The ability to view station status and monitoring data in near-real time, on any computer with internet access, will enhance both the scientific quality of the data (by enabling earlier detection of instrument malfunctions and power losses and remote changes in instrument programming) and the dissemination of data to all approved parties. The 2105-Ci units will also be programmed to send text messages to each sampling team to notify them that a runoff event is in progress, which will improve staff response time. Finally, we will have the capability of changing nearly any part of the instrument programming from our offices, which will be particularly useful in adjusting sampler pacing based on weather forecasts and resolving instrument malfunctions.

Based on the Verizon cellular telephone reception found at five of the sites, we expect two-way remote communications will be possible at five of the farms with no additional hardware and a relatively inexpensive data plan (\$10/month per station). However, cellular telephone reception at the Franklin site is very poor. We expect to be able to establish reliable communication despite the poor reception at the field and WASCOB (water and sediment control basin) stations in Franklin by using powerful antennas. If this is insufficient, a combination of a network extender and repeaters may be needed. As a backup, logged data at any station may be downloaded to a laptop computer using a data cable.

Each station will be powered by a Kyocera KD135GX 135-Watt solar panel and two 12-volt deep cycle marine batteries connected in parallel. The autosampler, ultrasonic level module, interface module, solar power charge controller, batteries, samples bottles, and churn splitter will be housed in a secure instrument shelter.

To measure water temperature and conductivity of the runoff stream, a HOBO® Conductivity meter will be used. The Data Logger will be installed in a trough in the runoff channel below the flume. These data will be downloaded onsite using a waterproof shuttle device and brought into the project database.

Monitoring will occur on up to 20 runoff events (weather permitting) each year of the study. An effort will be made to extend the traditional monitoring (ice-free) season to April 1 - November 30, weather depending, by covering flumes and sample lines in an insulated housing. At the WASCOB (Franklin), reduced tillage/manure injection (Franklin and Williston), and cover crop-only (Pawlet) treatment sites, a limited program of winter/early spring thaw event sampling will be undertaken. These practices were identified for winter and early spring monitoring because of the interest in quantifying reductions in sediment and nutrient export attributable to these practices outside of the growing season. At these sites, flow monitoring will be continued through the winter months and a three-bottle, multi-stage, passive siphon sampler array will be placed adjacent to each flume. The siphon samplers will draw water from intake tubes secured at three levels on the sidewall of each flume. These winter and early spring data will be used to assess the magnitude of nutrient and sediment transport during this period relative to the other eight months of the year, but they will not be used together in statistical models with the composite sample data.

Study Implementation: Farms are under contract through NRCS to participate in the project for a

three-year period. The conservation and monitoring practices will be implemented in a manner consistent with current NRCS practice standards. A monitoring station will be constructed at the outlet of each paired field/watershed. To evaluate the effectiveness of the WASCOB, similar monitoring stations will be installed above and below the WASCOB.

Initial Calibration Period: Calibration of the paired watersheds is required to develop the quantitative relationship between the control and treatment areas that will permit subsequent detection of treatment effects at a known level of confidence. Furthermore, monitoring during the calibration period of one to two years (depending on weather), will allow quantification of pollutant loads in runoff under current management practices. The calibration period will be considered complete when statistical analysis demonstrates reasonably strong regression relationships between paired sediment and nutrient concentration and export data, with regression error small enough to permit detection of anticipated changes in concentration and export. See Statistical Analysis, below, for more information. Adequacy of calibration will be assessed using statistical techniques of the paired-watershed analysis (Grabow et al. 1998). After this point, the land treatments may be implemented.

Treatment Application: The effects of three field conservation practices (or "treatments") will be evaluated using the paired watershed design, while the effect of the WASCOB (NRCS Practice 638, national version) will be evaluated by comparing pollutant concentrations and mass transport entering and leaving the structure. Evaluation of the field practices, but not of the WASCOB, will necessitate a prescribed change in management of one field in each pair while management of the remaining field remains consistent for the duration of the study. When the Project Team has sufficient data to develop an acceptable statistical relationship between each watershed pair, they will inform the project partners and participating farmer that the treatment phase may begin.

Overall, the calibration period is expected to be complete within one to two years from the start of monitoring and the treatment period to be the balance of the planned three-year study. This timeframe assumes relatively normal rainfall patterns without extended droughts. Insufficient rainfall and/or problems implementing the conservation treatments may necessitate extending the monitoring period at any given site beyond three years to obtain adequate data for meaningful evaluation.

AAFM will be responsible for ensuring conservation practices are implemented per the appropriate NRCS practice standards. The field practices that will be evaluated are as follows:

- Three paired watershed projects testing soil aeration on hayland with manure applications. The three farms are located in Shoreham and Ferrisburg in Addison County, and Shelburne in Chittenden County.
- Two paired watershed projects testing reduced tillage with manure injection. One of these farms is in the town of Franklin in Franklin County and the other is in the town of Williston in Chittenden County.
- One paired watershed projects testing cover cropping. This farm is in the town of Pawlet in Rutland County.
- One in line project testing a water and sediment control basin. This project is the only one that is not
 anticipated to be a paired watershed design and instead will sample above and below the treatment area.
 This project is in Franklin County on the same farm that is testing reduced tillage with manure injection.

No aeration will be performed in the treatment fields until calibration has been achieved. During the treatment period, aeration will be performed in the treatment watersheds prior to each manure application. In certain cases the Project Team will recommend which field in a watershed pair should be aerated. If there is not a scientific reason to select one watershed for treatment, AAFM or the farmer



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may choose based on their own considerations.

Conventional tillage, surface manure application, and no fall-seeded cover crop are assumed to be the typical management practices on the study cornfields Pawlet. These practices will be continued through the calibration period. During the treatment period, the Pawlet farm will continue to practice conventional tillage and surface manure application, but will plant a cover crop shortly following corn harvest. Given the time necessary to instrument monitoring stations and the need to collect all data in accordance with an approved QAPP, it may be necessary to delay planting of a cover crop until after harvest in 2013, in order to obtain data in both spring and fall periods without a cover crop present. The Project Team may need to continue the monitoring program through the late fall of 2014 to provide sufficient post-treatment data for the cover crop treatment.

The existing practices at the Williston and Franklin sites are assumed to include conventional tillage, surface manure application, and no cover cropping of corn land. The Vermont version of the reduced tillage practice standard (NRCS Practice 329) indicates that a cover crop must be planted if the crop residue level is low. The standard specifically requires: "Low residue row crops such as silage corn must have a winter cover crop established." Therefore, the applicable experimental treatment at the Franklin and Williston sites is a combination of reduced tillage, manure injection, and a winter cover crop. Evaluation will include the combined effect of these practices; no data will be produced at these sites on the individual effectiveness of the component practices. It is possible that adequate calibration will be achieved in 2012. Reduced tillage/manure injection treatments could then be implemented in spring 2013, although beginning the treatment period following the 2013 growing season is more likely.

In quantifying the effectiveness of conservation practices, timing is more critical for the reduced tillage/manure injection and the cover cropping treatments than for the hayland aeration treatment. The periods when the cover cropping and reduced tillage/manure injection practices are expected to be most effective are during the critical erosion periods before a crop canopy develops in the spring and after corn harvest in the fall. Conversely, the effectiveness of the hayland aeration treatment can be successfully assessed from approximately late May through November. Because evaluation of the cover cropping and reduced tillage/manure injection treatments is more constrained, there may need to be an extended monitoring period at the Franklin, Williston, and Pawlet sites.

No experimental treatment will be applied in the watershed draining to the WASCOB. Agricultural management of the WASCOB drainage area will be documented in the same way as the field treatment watersheds, however management will not be prescribed beyond requesting that the drainage area continue to receive typical agronomic rates of manure and/or mineral fertilizer application through the study period and that these actions be fully documented.

Sample Collection and Routine Facility Maintenance: There are considerable challenges in meeting the demands of operating monitoring stations sampling transient events across a wide geographic area. The Project Team includes four, location-specific monitoring teams, each with an experienced, dedicated team leader. The team leader will be responsible for ensuring that someone is always available for sample collection, drawing on VACD staff and Project Team staff as appropriate. Each team will be responsible for sample collection and routine facility maintenance for their assigned stations. Routine maintenance will include:

- downloading the HOBO® data loggers (precipitation / air temperature and conductivity / water temperature)
- checking/cleaning the tipping bucket funnel, the solar panel, and the sample intake tubing and screen

- cleaning the ultrasonic level sensor and conductivity sensor and recalibrating if necessary
- checking/replacing instrument desiccant
- checking/servicing batteries
- verifying that the flume is level
- clearing vegetation from around the stations
- checking for erosion and rodent holes near the flume approach and wingwalls

Occasionally station maintenance needs will be beyond that which the team leader can provide. The contractor will be available throughout the duration of the project to assist team leaders in ensuring that significant issues are addressed as they arise and facilities are brought back online after any upsets as soon as is practicable.

The contractor will coordinate the efforts of and collaboration between the location-specific monitoring teams in order to achieve a consistent, coordinated effort. The contractor will also be responsible for ensuring that each team leader has access to the necessary staff resources and for coordinating the periodic delivery of samples to the Vermont DEC laboratory.

Sample Analysis: Water samples from both the regular and the winter/early spring monitoring periods will be split in the field using a churn splitter to provide subsamples for analysis by the DEC laboratory. Using sample containers provided by the DEC laboratory, sample splits will be made for the following parameters: TP, TDP, TN, TDN, TSS, and chlorides. A minimum of 10% additional field QC samples will be added. Subsamples intended for TDP and TDN analyses will be filtered (0.45-/µm pore size membrane) immediately in the field. Appropriate preservatives will be added as necessary and the samples will be stored on ice or refrigerated until transfer to the laboratory within seven days of collection (seven days is the shortest holding time among the analytes after the field processing steps described). These steps will simplify the logistics of delivery of samples to the laboratory, particularly from events that are sampled outside of normal business hours. The DEC laboratory will use their approved methods and QA/QC procedures to perform the required analyses, at no cost to the Project Team. Samples will typically be delivered to the laboratory by courier service.

Data Management and Analysis

Database Development: In order to facilitate effective and efficient analysis, a database will be built that manages all pertinent field data. A single relational database (Microsoft Access or similar) will be designed and used for the storage and management of farm management practice data, weather data (temperature and rainfall), hydrologic data (runoff level and flow rate), runoff temperature and specific conductance, autosampler logs, and analytical results. Automated routines will be developed within the database for importing continuously collected records (air temperature, rainfall, water temperature, specific conductance, runoff level, and flow rate) to the greatest extent possible.

Statistical Analysis: The data set used for the primary statistical analyses will include total event discharge (m³), event mean concentration (mg/L), and total event load (kg) for each monitored constituent for each event at each monitored location. Basic descriptive statistics, pair-wise comparisons, and exploratory data analysis will be conducted on this data set.

For the paired-watershed sites, changes in event discharge, event mean concentration, and event mass export in response to treatment will be tested using analysis of covariance (ANCOVA). ANCOVA compares two groups of data (e.g., calibration and treatment) while adjusting for changes in explanatory

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variables using a combination of analysis of variance and regression. In the paired-watershed design, data from the control watershed are used to account for the effects of year-to-year weather variations on the variables of interest, in this case event discharge and TP, TDP, TN, TDN, CI, and TSS concentration and export. For a given variable of interest in a treatment watershed, the explanatory variable (covariate) is the same variable observed concurrently in the control watershed. Calibration and treatment period regressions between treatment and control watersheds will be tested for significant differences in slope, intercept, or both by analysis of variance of regression coefficients; differences in water quality data between the calibration and treatment periods will be deemed significant if the slope and/or intercept of the regressions differ at P<0.10. The magnitude of treatment effect (e.g., the percent reduction due to the application of the new management) is assessed by comparing the value (e.g., event TP export) predicted from the calibration regression to that predicted from the post-treatment regression at the mean or median value observed in the control watershed during the post-treatment period.

For the WASCoB site, effects of treatment will be evaluated based on an input/output comparison (e.g., t-Test), both for individual events and over the entire monitoring period.

Project Communication and Reporting: The scope, scale, and anticipated level of interest in the project will necessitate a high level of routine communication between all involved parties.

Landowners: Because each project site will receive approximately 40 project-related visits annually, regular communication with the farm owner will be essential. Monitoring team leaders will be in regular contact with landowners, keeping them apprised of project progress. Further, having a dedicated team leader for each site means that the landowner will always know "who to call" if questions or concerns about the project should arise.

Current and ongoing information about farm management activities (e.g., tillage, planting, and manure application rate and timing) is essential to the overall monitoring effort. It is especially critical that BMP implementation activities in the treatment watershed and the continuation of conventional management in the control watershed are well-documented. This background information will be collected by personnel from VACD, with communication and feedback from the Project Team. Once project sites are established and monitoring systems installed, it is anticipated that it will be simplest for the monitoring team leaders to periodically discuss farm management activities as needed with the landowner while on site.

Project Team: Contractors are required to notify the State of changes to the project team (additions or deletions); resumes for the new project team members must be submitted within two weeks of such a change.

Project Advisory Committee: The Project Team will work with AAFM to establish a Project Advisory Committee (PAC). It is anticipated that the PAC will include personnel from NRCS, USGS, AAFM, ANR, the Lake Champlain Basin Program, landowners, and others with an expressed interest in the project. The PAC will provide advice on major project decisions or proposed modifications, such as: reviewing final fine-scale site selection; monitoring facility design and sampling plan; developing strategies for managing the implementation of management practices; and evaluating contingencies and specific problems as they arise. PAC meetings will be scheduled approximately semi-annually, with more frequent meetings likely at the beginning of the project. A final PAC meeting will be held to convey results and conclusions. It is also anticipated that PAC members will play an important role in disseminating and communicating project results to the public.

The Project Team will also make itself available for an annual presentation to the Lake Champlain Basin Program Technical Advisory Committee.

Practice Evaluation and Site Decommissioning

Practice Evaluation: In consultation with AAFM and NRCS, the Project Team will suggest any potential modifications to conservation practice implementation requirements, based on the efficacy of the practices as implemented on the participating farms. Where the same practice is implemented on more than one farm, pollutant reductions due to treatment may be compared and contrasted.

Site Decommissioning: At the conclusion of the study, the Project Team will work with the farm owner and AAFM to determine whether the monitoring stations should be decommissioned or left in place to support future study. Should the farm owner wish to decommission the monitoring site(s), the Project Team will remove the equipment and return it to the farmer and restore the monitoring sites to their pre-project condition.

Annual and Final Reports: A succinct annual report will be prepared and delivered to AAFM which will be shared with LCBP by February 15th of each year. The annual report will focus on the evaluation and interpretation of data collected during the preceding field season.

A more detailed final report covering all aspects of the monitoring effort will be prepared. This will include site characterization, data collection and analysis, challenges faced, lessons learned and an evaluation of the effectiveness of the BMPs in reducing P and sediment losses. Maps and figures will be developed to assist AAFM in sharing project results with the public in a manner that also protects the privacy of the participating farms.

Project Timeline and Deliverables

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Description	Timeline	Deliverable
Study Design and Site Characterization	March 31, 2012	Plan for which fields will be included in study and specific locations of monitoring stations based on field assessments
QAPP	March 31, 2012	Approved QAPP from NEIWPCC
Agronomic Practice Documentation	March 31-December 15 each year (2012,2013,2014)	Recorded details about the farm field management practices and the implementation of the conservation practices.
Monitoring Facility Design and Construction	April 30, 2012	Complete installation of all monitoring equipment at each of the 7 field locations.
Initial Calibration and Treatment Application	April 30, 2012-December 2014	When statistics are sufficient for calibration, the treatment applications will begin for the paired watershed sites,

	-	expected to be ready in year 2. Treatment applications will be continued throughout the project.
Sample Collection and Facility Maintenance	April 30, 2012-December 2014	Sample collections will occur on at least 20 events each year and maintenance will be as needed throughout the monitoring period.
Sample Analysis	April 30, 2012-December 2014	Samples will be collected and sent to the DEC laboratory throughout the monitoring period.
Data Management and Analysis	April 30, 2012-December 2014	A database to track all pertinent monitoring system information will be developed and utilized throughout the monitoring period. The results will be looked at periodically to ensure the monitoring system is operating as intended. At the completion of the monitoring period each year and at the end of the 3 years the data collected will be analyzed to determine the effectiveness of the BMPs in relation to the variables that were tested.
Reporting	April 30, 2012-December 2014	The contractor will provide annual and a final report demonstrating the BMP effectiveness findings, and provide a presentation to the LCBP TAC.

Project Budget: The \$350,000 GLFC funding will be matched with \$491,166 which will include USDA NRCS Architectural and Engineer funding, farmer funds directly appropriated from the USDA NRCS Environmental Quality Incentives Program contracts, the Vermont DEC and Agency of Agriculture match assistance for laboratory analysis and data collection.

	Tot	al Costs	PHASE 1	- 11		PHASE 2	Bank.
	All	3 years	A&E	MS.	Direct signments	* GLFC	In-kind
monitoring design by paired site - includes site characterization		-	7		. 1, 513 11	1877 23	
and study design, soil sampling, drainage area delineation, and	\$	28,268	·. ·			Page 1	
flow prediction modeling			\$ 26,858				\$ 1,410
quality assurance plan development	\$	6,397	\$ 6,397	7 .	· · · · · · · · · · · · · · · · · · ·		4. A.
equipment and materials (including maintenance) - includes			1,				
equipment purchase, monitoring supplies, non-routine	\$	221,893		\$	221,893		
maintenance, mileage, and incidentals				130		1 2 V 2 V 2 V 2 V 2 V 2 V 2 V 2 V 2 V 2	
installation (A&E)- includes project kick-off meeting with					11.176		
landowner, monitoring facility design, and construction	\$	36,745	\$ 36,745				
oversight				17.29			
installation - monitoring facility construction	\$.	32,106		\$	32,106	100	
decommissioning - includes removing all equipment and any	4	11 222			E 0.16	526	2600
necessary site restoration	\$	11,332		\$.	5,876	\$ 5,456	
monitoring costs (data collection and sample delivery), includes							
sample collection and routine maintenance of the monitoring	\$	301,223					7.2
facility				\$	243,180	\$ 58,043	-on
sample analysis						\$ 63,00 0	\$ 5 1357 6
watershed and practice data collection	\$	20,300				\$ 20,300	100
database development	\$	5,242				\$ 5,2 42	
data management - includes data entry, analysis, and QA/QC	\$	88,024	***************************************	: .		5 88,024	l esti
meetings - semi-annual meetings with PAC	\$	16,189			14 - 14 -	\$ 16,189	Lienters
meetings - annual presentations to TAC	\$	7,975			1 25 34	\$ 7,975	
practice evalution	\$	8,261				\$ 8,261	*
reporting - includes project communication, preparation of	ċ	77 510	: 1	1	1 1 5-4		
annual and final reports	\$	77,510	<u> </u>			\$.77,51 0	-
total project costs	\$	841,166	\$ 70,000	\$	503,055	\$ 3 50,00 0	\$ 52,986



STATE OF VERMONT FINANCE & MANAGEMENT GRANT REVIEW FORM Sent To Joint Fiscal Office Date				
Sent To Joint Fiscal Office		Date 4/4/12		

Farmers with Assignment of Payments to the Agency of Agriculture for the AGO Monitoring and Evaluation Project

Wayne Fiske 2534 Durkee Road Highgate Center, VT 05459

Shelburne Farms 1611 Harbor Road Shelburne, VT 05482

North Williston Cattle Inc 347 Fay Lane Williston, VT 05495

Woodnotch Farms Inc 245 Barnum Hill Road Shoreham, VT 05770

Kimball Brook Farm LLC 128 Bay View Road North Ferrisburg, VT 05473

Deer Flats Farm LLC 1290 VT Route 30 West Pawlet, VT 05775

Vermont Agricultural Best Management Practice Monitoring and Evaluation Project Work Plan

Under the America's Great Outdoors Initiative (AGO) NRCS Vermont is working with farmers and partners to establish seven edge of field water quality monitoring stations. The purpose of the monitoring is to evaluate the effectiveness of selected agricultural best management practices (BMP's) for a period of at least 3 years. Using this new practice standard, water quality monitoring stations will be installed at the edge of fields prior to BMP implementation to collect baseline data. Samples will continue to be collected for a number of years following practice implementation (e.g., cover crops, soil aeration on hayland, and water and sediment control basin) to evaluate their effectiveness in trapping and/or removing sediments and nutrients prior to entering surface waters.

Data on the effectiveness of these BMPs will allow us to better focus our resources on those conservation systems that are most effective in addressing runoff and associated nutrient and sediment losses. This data is needed to strategically align conservation planning and financial assistance programs with those practices that provide the greatest benefit in our landscape. The information could also be used as input into phosphorus tracking systems, TMDL formulation, and for future computer modeling.

Study Design: For this monitoring study there will be six sites with paired watershed designs, and one site with an in-line sampling design. At every site total event discharge, event mean concentration, and event export data will be collected and/or computed for each monitored event. At the start of the treatment period, a change in management is applied to the treatment watershed, while the control watershed remains in the original management. The basis of the paired-watershed approach is that there is a quantifiable relationship (i.e., a linear regression model) between paired data from the watersheds (calibration) and that this relationship is valid until a change is made in one of the watersheds (treatment). At that time, a new relationship will exist. The difference between the calibration and treatment relationships is used to evaluate and quantify the effect of treatment. For in the in-line treatment, no experimental treatment will be applied to the watershed draining into the WASCoB, instead sampling will be performed at the inlet and outlet of the structure to test the before and after treatment conditions.

QAPP Development and Approval: A QAPP will be developed using the Environmental Protection Agency Requirements for QA Project Plans (QA/R-5). The contractor submitted a response to the Request for Proposals (RfP) posted for the Agricultural Practice Monitoring and Evaluation Project, the QAPP should include all elements from the RfP. The QAPP should be sent to VAAFM and the Lake Champlain Basin Program for approval. The QA Project Plan is divided into four basic element groups: Project Management; Data Generation and Acquisition; Assessment and Oversight; and Data Validation and Usability. Each group consists of standard elements, 24 in all, that pertain to various aspects of the project. A QA Project Plan that addresses the basic elements will define and describe the following:

- · who will use the data;
- what the project's goals/objectives/questions or issues are;
- what decision(s) will be made from the information obtained;
- how, when, and where project information will be acquired or generated;
- what possible problems may arise and what actions can be taken to mitigate their impact on the project;

- what type, quantity, and quality of data are specified;
- how "good" those data have to be to support the decision to be made; and
- how the data will be analyzed, assessed, and reported.

Site Characterization: Basic characterization data will be collected for each field/watershed. A topographic survey will be done using an autolevel and stadia rod. Surface elevation data will be tied to a temporary benchmark with an assumed elevation. The drainage boundary of each field will be delineated with a sub-meter GPS. Where available, LiDAR-based topographic data will be used as an ancillary dataset to refine drainage boundaries and set benchmarks in the field.

The general physical and chemical properties of soils in the selected fields will be evaluated through laboratory analysis. Soil samples from the 0-15 cm depth will be collected in each field at nodes in a sampling grid. Samples will be analyzed for pH and available P, K, Mg, Ca, Fe, Mn, and Zn following extraction in modified Morgan solution. Organic matter will be quantified by the loss on ignition method and reported in Walkley-Black method equivalents. Soil particle size will be analyzed by wet sieving and the hydrometer method.

Using the drainage areas, soils data, topographic data, and known rainfall frequencies and depths, rainfall-runoff modeling will be performed for each field using standard NRCS methods (i.e., TR-55 model). Predicted runoff volumes will be used to guide monitoring station construction, primarily to size flumes.

Agronomic Practice Documentation: It is assumed that for each study watershed, a record of agricultural management practices with dates applied will be developed and maintained by the Vermont Association of Conservation Districts (VACD) under separate direction from AAFM. It will be essential that VACD collects agricultural management information on a regular basis and shares it promptly with the Project Team.

In addition, the Project Team will be recording onsite observations and discussions with the farmer and capturing still images using time-lapse cameras. Taken together, these datasets will allow the Project Team to develop a chronology for each study field that includes descriptions and dates of planting, tillage, aeration, corn harvest or hay mowing, manure application/injection (source, rate, and date), mineral fertilizer application (type, rate, and date), and other important events, as appropriate. Field condition images recorded at least daily by the time-lapsed cameras will be used to verify management actions and dates where there are any questions and will aid in interpretation of the flow and pollutant transport data.

Monitoring Facility Design and Construction: The contractor will use commercially available monitoring systems manufactured and sold by companies that will be able to provide robust and ongoing technical support.

A simple meteorological station (Onset HOBO®) will be installed at each participating farm for the continuous monitoring of rainfall and air temperature. Precipitation and temperature data will be used to characterize and contrast hydrologic events across monitoring stations and seasons. Temperature data will be used to establish whether recorded precipitation likely fell as rain or snow.

Air temperature will be recorded as hourly and daily, minimum, maximum and average values throughout the study period. The temperature sensor will be housed in an appropriate solar radiation shield. A tipping bucket rain gage will be installed above the maximum crop canopy level. Every tip, marking accumulation of 0.2 mm of rainfall, will be recorded in memory with a time stamp. Continuous

precipitation monitoring will be supplemented by an inexpensive, manual rain gage located at each site as a backup.

The primary hydraulic device used at each runoff monitoring station will be an appropriately-sized H-flume manufactured by Tracom, unless potential tailwater problems are anticipated based on topographic survey at the watershed outlet. If tailwater problems (which can result in submergence of the flume and invalidation of stage data) cannot be avoided through optimum flume placement and through trenching below the flume outlet, a flume more tolerant of submerged conditions will be installed, such as the HXL flume recently developed by researchers at the University of Wisconsin-Platteville. Each flume will be bolted to a manifold made from a ³/4-inch plywood sheet, which will be partially buried such that the flume entrance is level with the ground. Plywood wingwalls will be installed as needed to direct flow into the flume. Through the life of the monitoring phase, the flume will be kept level using a system of threaded adjustable rods and shims.

An ultrasonic water level sensor (ISCO 2110 Ultrasonic Flow Module) will be installed in each flume to continuously measure stage (water level). Level data will be converted to flow rate based on the established hydraulic properties of the flume. These data will be used for generation of runoff event hydrographs and in calculation of pollutant transport rates. Averaged level data will be logged at approximately three-minute intervals on a connected Interface Module (ISCO 2105-Ci Interface Module).

Also connected to the ISCO 2105-Ci Interface Module will be an ISCO 6712 autosampler. The autosampler will be programmed to pump runoff water on a flow proportional basis into bulk (12 L) sample containers. To minimize the occurrence of under-sampling and overfilling, a two-part program will be used whereby the autosampler pumps sample to two containers at different intervals of accumulated flow. One bottle is intended to capture a representative runoff sample from small to medium sized events and a second bottle is intended to capture the medium to large events. The second bottle will be filled at approximately 1/10th the frequency of the first bottle. If the capacity of bottle 1 is exceeded, the sample will be rejected and bottle 2 will be used instead. If the capacity of bottle 1 is not exceeded, bottle 1 will be used and any sample in bottle 2 will be discarded. To double the container volume available for very large runoff events, a third bottle may be filled at the same flow pacing interval as bottle 2 after bottle 2 is filled. If this overflow bottle is used, samples from both bottles 2 and 3 will be submitted for analysis to allow calculation of event mean concentrations at a later date. Using this sampling program, most small storms will provide sufficient sample (approximately 1.5 L is required) to perform the requested analyses and most large storms will not exceed the container capacity; runoff events varying in size by more than a factor of 100 can be representatively and automatically sampled.

In addition to optimizing the autosampler program as described above, sampler pacing settings will be adjusted seasonally and in advance of major predicted storms, with the intent of representatively sampling every runoff-producing storm. Adjustment to the program to increase or decrease the sampling frequency will be made either by direct connection or via remote access.

After each monitored storm event, field technicians will collect subsamples from the appropriate bulk sample bottle for delivery to the Vermont DEC laboratory. The entire volume of collected sample in bottle 1 or bottle 2 will be poured into a 14-L polyethylene churn splitter, a device that consistently agitates the water to deliver representative subsamples from a spigot. A dedicated churn splitter will be stored in each instrument shelter and will be decontaminated after each use. The subsamples will be

collected in containers provided by the DEC laboratory.

Using the ISCO 2105-Ci Interface Module with integral IP modem, we expect that two-way remote communication will be possible at all monitoring locations. The hydrologic and sampling data from each station will not need to be called up and downloaded but will rather be pushed at approximately 15-minute intervals to a common server maintained by the Contractor, at which point the data will be directly viewable on a customized web site. Battery voltage data will also be pushed to the server. The ability to view station status and monitoring data in near-real time, on any computer with internet access, will enhance both the scientific quality of the data (by enabling earlier detection of instrument malfunctions and power losses and remote changes in instrument programming) and the dissemination of data to all approved parties. The 2105-Ci units will also be programmed to send text messages to each sampling team to notify them that a runoff event is in progress, which will improve staff response time. Finally, we will have the capability of changing nearly any part of the instrument programming from our offices, which will be particularly useful in adjusting sampler pacing based on weather forecasts and resolving instrument malfunctions.

Based on the Verizon cellular telephone reception found at five of the sites, we expect two-way remote communications will be possible at five of the farms with no additional hardware and a relatively inexpensive data plan (\$10/month per station). However, cellular telephone reception at the Franklin site is very poor. We expect to be able to establish reliable communication despite the poor reception at the field and WASCoB (water and sediment control basin) stations in Franklin by using powerful antennas. If this is insufficient, a combination of a network extender and repeaters may be needed. As a backup, logged data at any station may be downloaded to a laptop computer using a data cable.

Each station will be powered by a Kyocera KD135GX 135-Watt solar panel and two 12-volt deep cycle marine batteries connected in parallel. The autosampler, ultrasonic level module, interface module, solar power charge controller, batteries, samples bottles, and churn splitter will be housed in a secure instrument shelter.

To measure water temperature and conductivity of the runoff stream, a HOBO® Conductivity meter will be used. The Data Logger will be installed in a trough in the runoff channel below the flume. These data will be downloaded onsite using a waterproof shuttle device and brought into the project database.

Monitoring will occur on up to 20 runoff events (weather permitting) each year of the study. An effort will be made to extend the traditional monitoring (ice-free) season to April 1 - November 30, weather depending, by covering flumes and sample lines in an insulated housing. At the WASCOB (Franklin), reduced tillage/manure injection (Franklin and Williston), and cover crop-only (Pawlet) treatment sites, a limited program of winter/early spring thaw event sampling will be undertaken. These practices were identified for winter and early spring monitoring because of the interest in quantifying reductions in sediment and nutrient export attributable to these practices outside of the growing season. At these sites, flow monitoring will be continued through the winter months and a three-bottle, multi-stage, passive siphon sampler array will be placed adjacent to each flume. The siphon samplers will draw water from intake tubes secured at three levels on the sidewall of each flume. These winter and early spring data will be used to assess the magnitude of nutrient and sediment transport during this period relative to the other eight months of the year, but they will not be used together in statistical models with the composite sample data.

Study Implementation: Farms are under contract through NRCS to participate in the project for a

three-year period. The conservation and monitoring practices will be implemented in a manner consistent with current NRCS practice standards. A monitoring station will be constructed at the outlet of each paired field/watershed. To evaluate the effectiveness of the WASCOB, similar monitoring stations will be installed above and below the WASCOB.

Initial Calibration Period: Calibration of the paired watersheds is required to develop the quantitative relationship between the control and treatment areas that will permit subsequent detection of treatment effects at a known level of confidence. Furthermore, monitoring during the calibration period of one to two years (depending on weather), will allow quantification of pollutant loads in runoff under current management practices. The calibration period will be considered complete when statistical analysis demonstrates reasonably strong regression relationships between paired sediment and nutrient concentration and export data, with regression error small enough to permit detection of anticipated changes in concentration and export. See Statistical Analysis, below, for more information. Adequacy of calibration will be assessed using statistical techniques of the paired-watershed analysis (Grabow et al. 1998). After this point, the land treatments may be implemented.

Treatment Application: The effects of three field conservation practices (or "treatments") will be evaluated using the paired watershed design, while the effect of the WASCOB (NRCS Practice 638, national version) will be evaluated by comparing pollutant concentrations and mass transport entering and leaving the structure. Evaluation of the field practices, but not of the WASCOB, will necessitate a prescribed change in management of one field in each pair while management of the remaining field remains consistent for the duration of the study. When the Project Team has sufficient data to develop an acceptable statistical relationship between each watershed pair, they will inform the project partners and participating farmer that the treatment phase may begin.

Overall, the calibration period is expected to be complete within one to two years from the start of monitoring and the treatment period to be the balance of the planned three-year study. This timeframe assumes relatively normal rainfall patterns without extended droughts. Insufficient rainfall and/or problems implementing the conservation treatments may necessitate extending the monitoring period at any given site beyond three years to obtain adequate data for meaningful evaluation.

AAFM will be responsible for ensuring conservation practices are implemented per the appropriate NRCS practice standards. The field practices that will be evaluated are as follows:

- Three paired watershed projects testing soil aeration on hayland with manure applications. The three farms are located in Shoreham and Ferrisburg in Addison County, and Shelburne in Chittenden County.
- Two paired watershed projects testing reduced tillage with manure injection. One of these farms is in the town of Franklin in Franklin County and the other is in the town of Williston in Chittenden County.
- One paired watershed projects testing cover cropping. This farm is in the town of Pawlet in Rutland County.
- One in line project testing a water and sediment control basin. This project is the only one that is not
 anticipated to be a paired watershed design and instead will sample above and below the treatment area.
 This project is in Franklin County on the same farm that is testing reduced tillage with manure injection.

No aeration will be performed in the treatment fields until calibration has been achieved. During the treatment period, aeration will be performed in the treatment watersheds prior to each manure application. In certain cases the Project Team will recommend which field in a watershed pair should be aerated. If there is not a scientific reason to select one watershed for treatment, AAFM or the farmer

may choose based on their own considerations.

Conventional tillage, surface manure application, and no fall-seeded cover crop are assumed to be the typical management practices on the study cornfields Pawlet. These practices will be continued through the calibration period. During the treatment period, the Pawlet farm will continue to practice conventional tillage and surface manure application, but will plant a cover crop shortly following corn harvest. Given the time necessary to instrument monitoring stations and the need to collect all data in accordance with an approved QAPP, it may be necessary to delay planting of a cover crop until after harvest in 2013, in order to obtain data in both spring and fall periods without a cover crop present. The Project Team may need to continue the monitoring program through the late fall of 2014 to provide sufficient post-treatment data for the cover crop treatment.

The existing practices at the Williston and Franklin sites are assumed to include conventional tillage, surface manure application, and no cover cropping of corn land. The Vermont version of the reduced tillage practice standard (NRCS Practice 329) indicates that a cover crop must be planted if the crop residue level is low. The standard specifically requires: "Low residue row crops such as silage corn must have a winter cover crop established." Therefore, the applicable experimental treatment at the Franklin and Williston sites is a combination of reduced tillage, manure injection, and a winter cover crop. Evaluation will include the combined effect of these practices; no data will be produced at these sites on the individual effectiveness of the component practices. It is possible that adequate calibration will be achieved in 2012. Reduced tillage/manure injection treatments could then be implemented in spring 2013, although beginning the treatment period following the 2013 growing season is more likely.

In quantifying the effectiveness of conservation practices, timing is more critical for the reduced tillage/manure injection and the cover cropping treatments than for the hayland aeration treatment. The periods when the cover cropping and reduced tillage/manure injection practices are expected to be most effective are during the critical erosion periods before a crop canopy develops in the spring and after corn harvest in the fall. Conversely, the effectiveness of the hayland aeration treatment can be successfully assessed from approximately late May through November. Because evaluation of the cover cropping and reduced tillage/manure injection treatments is more constrained, there may need to be an extended monitoring period at the Franklin, Williston, and Pawlet sites.

No experimental treatment will be applied in the watershed draining to the WASCOB. Agricultural management of the WASCOB drainage area will be documented in the same way as the field treatment watersheds, however management will not be prescribed beyond requesting that the drainage area continue to receive typical agronomic rates of manure and/or mineral fertilizer application through the study period and that these actions be fully documented.

Sample Collection and Routine Facility Maintenance: There are considerable challenges in meeting the demands of operating monitoring stations sampling transient events across a wide geographic area. The Project Team includes four, location-specific monitoring teams, each with an experienced, dedicated team leader. The team leader will be responsible for ensuring that someone is always available for sample collection, drawing on VACD staff and Project Team staff as appropriate. Each team will be responsible for sample collection and routine facility maintenance for their assigned stations. Routine maintenance will include:

- downloading the HOBO® data oggers (precipitation / air temperature and conductivity / water temperature)
- checking/cleaning the tipping bucket funnel, the solar panel, and the sample intake tubing and screen

- cleaning the ultrasonic level sensor and conductivity sensor and recalibrating if necessary
- checking/replacing instrument desiccant
- checking/servicing batteries
- verifying that the flume is level
- clearing vegetation from around the stations
- checking for erosion and rodent holes near the flume approach and wingwalls

Occasionally station maintenance needs will be beyond that which the team leader can provide. The contractor will be available throughout the duration of the project to assist team leaders in ensuring that significant issues are addressed as they arise and facilities are brought back online after any upsets as soon as is practicable.

The contractor will coordinate the efforts of and collaboration between the location-specific monitoring teams in order to achieve a consistent, coordinated effort. The contractor will also be responsible for ensuring that each team leader has access to the necessary staff resources and for coordinating the periodic delivery of samples to the Vermont DEC laboratory.

Sample Analysis: Water samples from both the regular and the winter/early spring monitoring periods will be split in the field using a churn splitter to provide subsamples for analysis by the DEC laboratory. Using sample containers provided by the DEC laboratory, sample splits will be made for the following parameters: TP, TDP, TN, TDN, TSS, and chlorides. A minimum of 10% additional field QC samples will be added. Subsamples intended for TDP and TDN analyses will be filtered (0.45-/µm pore size membrane) immediately in the field. Appropriate preservatives will be added as necessary and the samples will be stored on ice or refrigerated until transfer to the laboratory within seven days of collection (seven days is the shortest holding time among the analytes after the field processing steps described). These steps will simplify the logistics of delivery of samples to the laboratory, particularly from events that are sampled outside of normal business hours. The DEC laboratory will use their approved methods and QA/QC procedures to perform the required analyses, at no cost to the Project Team. Samples will typically be delivered to the laboratory by courier service.

Data Management and Analysis

Database Development: In order to facilitate effective and efficient analysis, a database will be built that manages all pertinent field data. A single relational database (Microsoft Access or similar) will be designed and used for the storage and management of farm management practice data, weather data (temperature and rainfall), hydrologic data (runoff level and flow rate), runoff temperature and specific conductance, autosampler logs, and analytical results. Automated routines will be developed within the database for importing continuously collected records (air temperature, rainfall, water temperature, specific conductance, runoff level, and flow rate) to the greatest extent possible.

8

Statistical Analysis: The data set used for the primary statistical analyses will include total event discharge (m³), event mean concentration (mg/L), and total event load (kg) for each monitored constituent for each event at each monitored location. Basic descriptive statistics, pair-wise comparisons, and exploratory data analysis will be conducted on this data set.

For the paired-watershed sites, changes in event discharge, event mean concentration, and event mass export in response to treatment will be tested using analysis of covariance (ANCOVA). ANCOVA compares two groups of data (e.g., calibration and treatment) while adjusting for changes in explanatory

variables using a combination of analysis of variance and regression. In the paired-watershed design, data from the control watershed are used to account for the effects of year-to-year weather variations on the variables of interest, in this case event discharge and TP, TDP, TN, TDN, CI, and TSS concentration and export. For a given variable of interest in a treatment watershed, the explanatory variable (covariate) is the same variable observed concurrently in the control watershed. Calibration and treatment period regressions between treatment and control watersheds will be tested for significant differences in slope, intercept, or both by analysis of variance of regression coefficients; differences in water quality data between the calibration and treatment periods will be deemed significant if the slope and/or intercept of the regressions differ at P<0.10. The magnitude of treatment effect (e.g., the percent reduction due to the application of the new management) is assessed by comparing the value (e.g., event TP export) predicted from the calibration regression to that predicted from the post-treatment regression at the mean or median value observed in the control watershed during the post-treatment period.

For the WASCoB site, effects of treatment will be evaluated based on an input/output comparison (e.g., t-Test), both for individual events and over the entire monitoring period.

Project Communication and Reporting: The scope, scale, and anticipated level of interest in the project will necessitate a high level of routine communication between all involved parties.

Landowners: Because each project site will receive approximately 40 project-related visits annually, regular communication with the farm owner will be essential. Monitoring team leaders will be in regular contact with landowners, keeping them apprised of project progress. Further, having a dedicated team leader for each site means that the landowner will always know "who to call" if questions or concerns about the project should arise.

Current and ongoing information about farm management activities (e.g., tillage, planting, and manure application rate and timing) is essential to the overall monitoring effort. It is especially critical that BMP implementation activities in the treatment watershed and the continuation of conventional management in the control watershed are well-documented. This background information will be collected by personnel from VACD, with communication and feedback from the Project Team. Once project sites are established and monitoring systems installed, it is anticipated that it will be simplest for the monitoring team leaders to periodically discuss farm management activities as needed with the landowner while on site.

Project Team: Contractors are required to notify the State of changes to the project team (additions or deletions); resumes for the new project team members must be submitted within two weeks of such a change.

Project Advisory Committee: The Project Team will work with AAFM to establish a Project Advisory Committee (PAC). It is anticipated that the PAC will include personnel from NRCS, USGS, AAFM, ANR, the Lake Champlain Basin Program, landowners, and others with an expressed interest in the project. The PAC will provide advice on major project decisions or proposed modifications, such as: reviewing final fine-scale site selection; monitoring facility design and sampling plan; developing strategies for managing the implementation of management practices; and evaluating contingencies and specific problems as they arise. PAC meetings will be scheduled approximately semi-annually, with more frequent meetings likely at the beginning of the project. A final PAC meeting will be held to convey results and conclusions. It is also anticipated that PAC members will play an important role in disseminating and communicating project results to the public.

The Project Team will also make itself available for an annual presentation to the Lake Champlain Basin Program Technical Advisory Committee.

Practice Evaluation and Site Decommissioning

Practice Evaluation: In consultation with AAFM and NRCS, the Project Team will suggest any potential modifications to conservation practice implementation requirements, based on the efficacy of the practices as implemented on the participating farms. Where the same practice is implemented on more than one farm, pollutant reductions due to treatment may be compared and contrasted.

Site Decommissioning: At the conclusion of the study, the Project Team will work with the farm owner and AAFM to determine whether the monitoring stations should be decommissioned or left in place to support future study. Should the farm owner wish to decommission the monitoring site(s), the Project Team will remove the equipment and return it to the farmer and restore the monitoring sites to their pre-project condition.

Annual and Final Reports: A succinct annual report will be prepared and delivered to AAFM which will be shared with LCBP by February 15th of each year. The annual report will focus on the evaluation and interpretation of data collected during the preceding field season.

A more detailed final report covering all aspects of the monitoring effort will be prepared. This will include site characterization, data collection and analysis, challenges faced, lessons learned and an evaluation of the effectiveness of the BMPs in reducing P and sediment losses. Maps and figures will be developed to assist AAFM in sharing project results with the public in a manner that also protects the privacy of the participating farms.

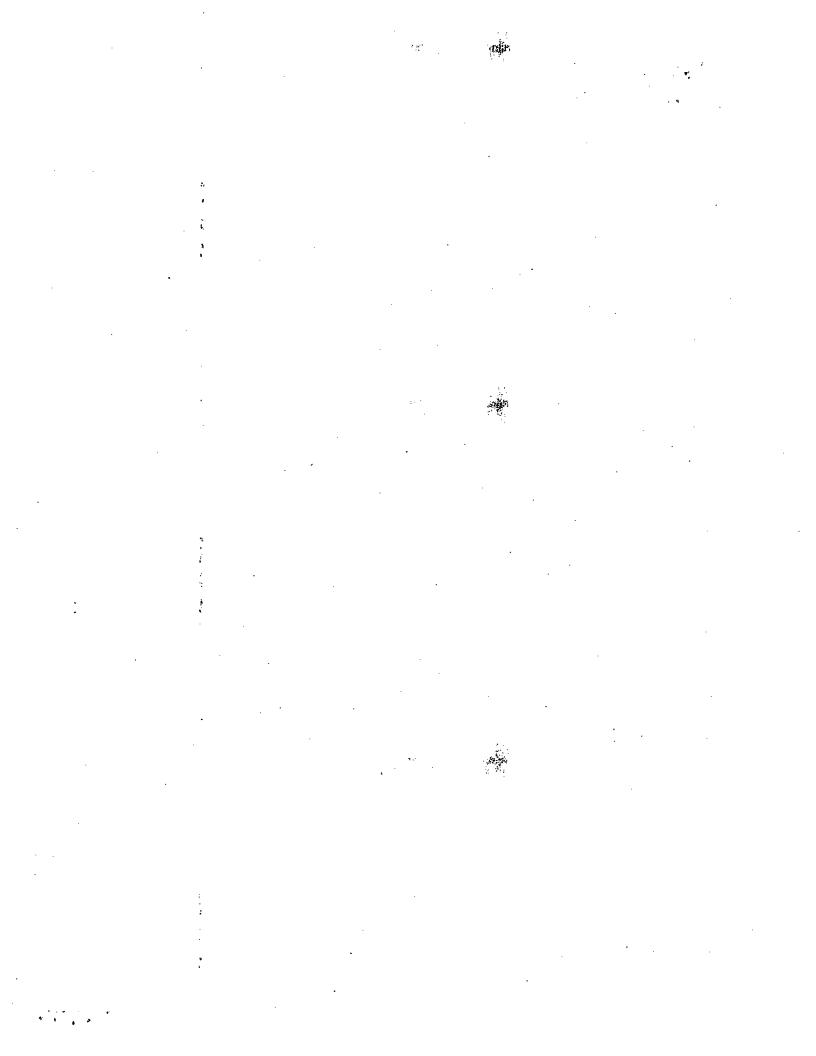
Project Timeline and Deliverables

Description	Timeline	Deliverable
Study Design and Site Characterization	March 31, 2012	Plan for which fields will be included in study and specific locations of monitoring stations based on field assessments
QAPP	March 31, 2012	Approved QAPP from NEIWPCC
Agronomic Practice Documentation	March 31-December 15 each year (2012,2013,2014)	Recorded details about the farm field management practices and the implementation of the conservation practices.
Monitoring Facility Design and Construction	April 30, 2012	Complete installation of all monitoring equipment at each of the 7 field locations.
Initial Calibration and Treatment Application	April 30, 2012-December 2014	When statistics are sufficient for calibration, the treatment applications will begin for the paired watershed sites,

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,		expected to be ready in year 2. Treatment applications will be continued throughout the project.
Sample Collection and Facility Maintenance	April 30, 2012-December 2014	Sample collections will occur on at least 20 events each year and maintenance will be as needed throughout the monitoring period.
Sample Analysis	April 30, 2012-December 2014	Samples will be collected and sent to the DEC laboratory throughout the monitoring period.
Data Management and Analysis	April 30, 2012-December 2014	A database to track all pertinent monitoring system information will be developed and utilized throughout the monitoring period. The results will be looked at periodically to ensure the
		monitoring system is operating as intended. At the completion of the monitoring period each year and at the end of the 3 years the data collected will be analyzed to determine the effectiveness of the BMPs in relation to the
Reporting	April 30, 2012-December 2014	variables that were tested. The contractor will provide annual and a final report demonstrating the BMP
		effectiveness findings, and provide a presentation to the LCBP TAC.

Project Budget: The \$350,000 GLFC funding will be matched with \$491,166 which will include USDA NRCS Architectural and Engineer funding, farmer funds directly appropriated from the USDA NRCS Environmental Quality Incentives Program contracts, the Vermont DEC and Agency of Agriculture match assistance for laboratory analysis and data collection.

AGO Agrichtural Water	er Qua	lity Monito	orii	ng Proje ct	rj		:			
	Total Costs PHASE			PHASE 1	<u> </u>		PHASE 2			
The second secon	All	i 3 years		A&E		Direct signments		GLFC	11	n-kind
monitoring design by paired site - includes site characterization		-								
and study design, soil sampling, drainage area delineation, and	\$	28,268	١.	4.41						
flow prediction modeling		·	\$	26,858	- Legentia				\$	1,410
quality assurance plan development	\$	6,397	\$	6,397	100000					
equipment and materials (including maintenance) - includes										
equipment purchase, monitoring supplies, non-routine	\$	221,893	ŀ		\$	221,893	1			
maintenance, mileage, and incidentals										
installation (A&E)- includes project kick-off meeting with				8 E.						
landowner, monitoring facility design, and construction	\$	36,745	\$	36,745						
oversight										
installation - monitoring facility construction	\$.	32,106			\$	32,106				
decommissioning - includes removing all equipment and any	4	11 222		. ;		F 076				
necessary site restoration	\$	11,332	1			5,876	\$	5,456		
monitoring costs (data collection and sample delivery), includes										
sample collection and routine maintenance of the monitoring	\$	301,223		:					-: 1	
facility				<u> </u>	\$	243,180	\$	58,043	_(C)	
sample analysis							\$	63,000	\$	51,576
watershed and practice data collection	\$	20,300	-				\$	20,300		
database development	\$	5,242					\$	5,242		
data management - includes data entry, analysis, and QA/QC	\$	88,024	Ľ				\$	88,024		
meetings - semi-annual meetings with PAC	\$	16,189					\$	16,189		
meetings - annual presentations to TAC	\$	7,975					\$	7,975		
practice evalution	\$	8,261					\$	8,261		
reporting - includes project communication, preparation of		77 540								
annual and final reports	\$	77,510	<u>L</u>				\$	77,510		
total project costs	\$	841,166	s	70,000	\$	503,055	\$	350,000	\$	52,986



U.S. DEPARTMENT OF AGRICULTURE NRCS-CPA-1236 NATURAL RESOURCES CONSERVATION SERVICE 4/2010 Page 1 of 2 ASSIGNMENT OF PAYMENT See Page 2 for Privacy Act and Public Burden Statements. PART A - GENERAL INFORMATION 2. COUNTY 1. STATE Franklin Vermont 3. PARTICIPANT'S (ASSIGNOR'S) NAME AND ADDRESS Including Zip Code 5. ASSIGNEE'S NAME AND ADDRESS Including Zip Code Wayne Fiske VAAFM 2534 Durkee Road 116 State Street Highgate Center, VT 05459 Montpelier, VT 05620 4. PARTICIPANT'S (ASSIGNOR'S) TAX IDENTIFICATION NUMBER 6. ASSIGNEE'S TAX IDENTIFICATION NUMBER 03-6000264 Financial Institution Name: TD Bank Address: 90 Main Street Direct Deposit to Account Type: ☐ Checking ☐ Savings . Montpelier, VT 05601 Bank Information: Routing Number: 0116 00033 Account Number: 5240112764 10. Program Year or 8 9 Contract Item Number(s) Program Name Contract No. Payment Year Assigned Amount (If Applicable) (If Applicable) PART B - APPLICABLE PROGRAM(S) **EQIP-AGO** 741644110UQ 2013 5.790 12 **EQIP-AGO** 741644110UQ 2013 13 5,790 **EQIP-AGO** 741644110UQ 2013 16 5,790 EQIP- AGO 741644110UQ 2013 17 5,790 **EQIP-AGO** 2014 5,790 741644110UQ 21 EQIP- AGO 741644110UQ 2014 22 5,790 **EQIP-AGO** 2014 5,790 741644110UQ 25 EQIP- AGO 741644110UQ 2014 26 5,790 PART C - REPRESENTATION OF ASSIGNOR AND ASSIGNEE In order to assign a cash payment in accordance with the programs specified by the assignor in Items 8 and 11, this form must be completed by both the assignor and the assignee. This assignment is applicable only to payments issued by the NRCS for the specified program and contract in Part B. This assignment is applicable only to programs publicly announced before this form is filed and is subject to the terms stated in this form. The assignee agrees to repay promptly to the Federal Government any amount by which the assigned payment exceeds the amount secured by the assignment. The assignor and the assignee agree that they will promptly notify the NRCS office of any change affecting this assignment. This assignment may be revoked at any time by written request signed by the assignee. 13A. PARTICIPANT'S (ASSIGNQR'S) SIGNATURE 13B, DATE (MM-DD-YYYY) 2-24-12 14A. ASSIGNOE'S SIGNATURE DATE (MM-DD-YYYY) 3-19-12 PART D- REVOCATION OF ASSIGNMENT Assignment of payment authorization above is hereby revoked. 15A. ASSIGNEE'S SIGNATURE 15B. DATE (MM-DD-YYYY) 16. DATE FILED (MM-DD-YYYY) 17. TIME FILED

ASSIGNEE

PARTICIPANT

FOR NRCS USE ONLY

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NRCS-CPA-1236 U.S. DEPARTMENT OF AGRICULTURE 4/2010 NATURAL RESOURCES CONSERVATION SERVICE Page 1 of 2 ASSIGNMENT OF PAYMENT See Page 2 for Privacy Act and Public Burden Statements. PART A - GENERAL INFORMATION 2. COUNTY 1. STATE Franklin Vermont 5. ASSIGNEE'S NAME AND ADDRESS Including Zip Code 3. PARTICIPANT'S (ASSIGNOR'S) NAME AND ADDRESS Including Zip Code Wayne Fiske VAAFM 2534 Durkee Road 116 State Street Montpelier, VT 05620 Highgate Center, VT 05459 6. ASSIGNEE'S TAX IDENTIFICATION NUMBER 4. PARTICIPANT'S (ASSIGNOR'S) TAX IDENTIFICATION NUMBER 03-6000264 Financial Institution Name: TO Bank Address: 90 Main St. 05601 - Montpelier, VI Account Number 5240112764 Bank Information: Routing Number. 011 6 000 3 3 10. 11 Program Year or 9. 8 Contract Item Number(s) Payment Year Assigned Amount Contract No. Program Name (If Applicable) (If Applicable) PART B - APPLICABLE PROGRAM(S) **EQIP-AGO** 741644110UQ 2012 37,125 2 **EQIP-AGO** 3 37,125 741644110UQ 2012 **EQIP-AGO** 741644110UQ 2012 4 5,790 741644110UQ **EQIP-AGO** 5 2012 5,790 5,790 EQIP- AGO 2012 741644110UQ 7 **EQIP-AGO** 8 741644110UQ 2012 5,790 In order to assign a cash payment in accordance with the programs specified by the assignor in Items 8 and 11, this form must be completed by both the assignor and the assignee. This assignment is applicable only to payments issued by the NRCS for the specified program and contract in Part B. This assignment is applicable only to programs publicly announced before this form is filed and is subject to the terms stated in this form. The assignee agrees to repay promptly to the Federal Government any amount by which the assigned payment exceeds the amount secured by the assignment. The assigner and the assignee agree that they will promptly notify the NRCS office of any clearge affecting this assignment. This assignment may be revoked at any time by written request signed by the assignee. 13A. PARTICIPANT'S (ASSIGNOR'S) SIGNATURE 13B. DATE (MM-DD-YYYY) -24-12 4B. DATE (MM-DD-YYYY)

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ASSIGNEE

PARTICIPANT

SPECIAL PROVISIONS RELATING TO ASSIGNMENTS

- A. The original of this assignment, properly executed, must be filed in the NRCS office in the county where the applicable program contract subject to this assignment is administratively located with respect to the program involved.
- B. If the assignor assigns a specified value of payments to more than one assignee:
 - NRCS will recognize assignments for each program per program year or group of years if multi-year is selected.
 - 2. Assignments will be honored in chronological sequence based on the order of filing with the NRCS office.
- C. The payment due the participant may be applied first against indebtedness owing by the participant to the United States, including debts arising after the execution of a Form NRCS-CPA-1236, which may be offset in accordance with the regulations governing, and any balance will be subject to assignment.
- D. Neither the United States of America, the NRCS, the Secretary of Agriculture, any disbursing officer, nor any other Government employee or official shall be subject to any suit or liable for payment of any amount if payment is inadvertently made to the assignor without regard to this assignment.
- E. This assignment does not extend to any successor of the assignee, nor may the assignee re-assign this assignment.

NAME AND ADDRESS (Including Zip Code)

TELEPHONE NO. (Including area code):

NOTE: The following statement is made in accordance with the Privacy Act of 1974 (5 USC 552a) and the Paperwork Reduction Act of 1995, as amended. The Commodity Credit Corporation Charter Act, the Federal Agriculture Improvement and Reform Act of 1996, the Food Security Act of 1985, the Agricultural Act of 1949, and the Soil Conservation and Domestic Allotment Act authorizes collection of this data. Furnishing the assignee's identifying number is voluntary. Furnishing all other data is also voluntary, however, without it a payment to assignee cannot be issued. The information will be used to authorize NRCS to make program payments to an assignee. This information may be provided to other agencies, IRS, Department of Justice, or other State and Federal law enforcement agencies and in response to a court magistrate or administrative tribunal. The provisions of criminal and civil fraud statutes, including 18 USC 286, 287, 371, 651, 1001; 15 USC 714m; and 31 USC 3729, may be applicable to the information provided.

This information collection is exempted from the Paperwork Reduction Act, as it is required for administration of the Food, Conservation, and Energy Act of 2008 (see Pub. L. 110-246, Title II, Subtitle J - Miscellaneous Conservation Provisions).

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Page 2 of 2

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NRCS-CPA-1236 4/2010 Page 1 of 2

ASSIGNMENT OF PAYMENT

See Page 2 for Privacy Act and Public Burden Statemen	its.									
PART A - GENERAL INFORMATION 1. STATE		2. COUNTY								
Vermont		Chittenden								
3. PARTICIPANT'S (ASSIGNOR'S) NAME AND A	DDRESS Including Zip Code		AND ADDRESS Including Zi	p Code						
Shelburne Farms ; 1611 Harbor Vermont 05482	Road; Shelburne,	VAAFM								
4. PARTICIPANT'S (ASSIGNOR'S) TAX IDENTIFI	CATION NUMBER	6. ASSIGNEE'S TAX IDE	NTIFICATION NUMBER							
03-0229347	or trott from but		00264							
7. ASSIGNEE'S ELECTRONIC FUND TRANSFER	INFORMATION F	inancial Institution Name:	TD Bank							
Direct Deposit to Account Type: Checking	Savings	Address:	90 Main St. Montpelier, VI	05601						
Bank Information: Routing Number: 01160	00033	Account Number: 524								
8. Program Name	9. Contract No.	10. Program Year or Payment Year (If Applicable)	11. Contract Item Number(s) (If Applicable)	12. Assigned Amount						
PART B - APPLICABLE PROGRAM(S)										
EQIP 2008 AGO	741644110UI	2012	1	\$37,125						
		2012	2	\$5,790						
		2012	5	\$5,790						
		2013	3	\$5,790						
		2013	6	\$5,790						
		2014	4	\$5,790						
		2014	7	\$5,790						
				:						
PART C - REPRESENTATION OF ASSIGN										
In order to assign a cash payment in accordance with to assignee. This assignment is applicable only to paymen programs publicly announced before this form is filed a	its issued by the NRCS for the spi	ecified program and contract								
The assignee agrees to repay promptly to the Federal (assignor and the assignee agree that they will promptly written request signed by the assignee.	Sovernment any amount by which notify the NRCS office of any ch	the assigned payment exceed ange affecting this assignmen	ds the amount secured by the a nt. This assignment may be rev	ssignment. The oked at any time by						
13A. PARTICIPANT'S (ASSIGNOR'S) SIGNATUR	E		13B. DAT	E (MM-DD-YYYY)						
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14A. ASSIGNEE'S SIGNATURE			14B. DAT	E (MM-DD-YYYY)						
PART D- REVOCATION OF ASSIGNMENT Assignment of payment authorization above is here	eby revoked.									
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U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE

NRCS-CPA-1236 4/2010 Page 1 of 2

	ASSIGNMENT (OF PAYMENT		Page 1012
See Page 2 for Privacy Act and Public Burden Sta	tements.			
PART A - GENERAL INFORMATION		2. COUNTY		
Vermont		Chittenden		
3. PARTICIPANT'S (ASSIGNOR'S) NAME AI	ND ADDRESS Including Zip Code	i	AND ADDRESS Including Zi	o Code
North Williston Cattle Inc; 34 Williston, Vermont 05495-88	•	VAAFM		
PARTICIPANT'S (ASSIGNOR'S) TAX IDE	NTIFICATION NUMBER	6 ASSIGNEE'S TAX IDE	ENTIFICATION NUMBER	
03-0335628	VIII IO VIII OVII OVII OVII OVII OVII O		00264	
7. ASSIGNEE'S ELECTRONIC FUND TRAN: Direct Deposit to Account Type: Checki	ng □Savings	inancial Institution Name Address	90 Main St. montpelier; V	T 05601
Bank Information: Routing Number:	11600033		40112764	1
8. Program Name	9. Contract No.	10. Program Year or Payment Year (If Applicable)	11. Contract Item Number(s) (If Applicable)	12. Assigned Amount
PART B - APPLICABLE PROGRAM(S)				
EQIP 2008 AGO	741644110UH	2012	5	\$37,125
		2012	9	\$5,790
		2012	12	\$5,790
		2013	10	\$5,790
		2013	13	\$5,790
		2014	11	\$5,790
		2014	14	\$5,790
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assignor and the assignee agree that they will prowritten request signed by the assignee.				
13A. PARTICIPANT'S (ASSIGNOR'S) SIGN	ATURE	·	13B. DAT	E (MM-DD-YYYY)
Jan Klaha			*//	31/12
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NRCS COPY	ASSIGNEE	. П	PARTICIPANT	

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE			N	RCS-CPA-1236 4/2010
·	ASSIGNMENT C	OF PAYMENT		Page 1 of 2
See Page 2 for Privacy Act and Public Burden Statemer				
PART A - GENERAL INFORMATION		2. COUNTY		
1. STATE Vermont		Addison		
3. PARTICIPANT'S (ASSIGNOR'S) NAME AND A	DDRESS Including Zip Code	5. ASSIGNEE'S NAME	AND ADDRESS Including Zi	p Code
Woodnotch Farms Inc 245 Barnum Hill Road Shoreham, VT 05770		VAAFM		·
4. PARTICIPANT'S (ASSIGNOR'S) TAX IDENTIFI	CATION NUMBER	6. ASSIGNEE'S TAX IDE	NTIFICATION NUMBER	
270040261	·	03-6000	264	÷
7. ASSIGNEE'S ELECTRONIC FUND TRANSFER	INFORMATION FI	nancial Institution Name		
Direct Deposit to Account Type: DChecking	Savings	Address	90 Main St. Montpelier, V	T 05601
Bank Information: Routing Number: Oll 6	00033		40112764	1
8. Program Name	9. Contract No.	10. Program Year or Payment Year (If Applicable)	11. Contract Item Number(s) (If Applicable)	12. Assigned Amount
PART B - APPLICABLE PROGRAM(S)				
EQIP 2008 AGO	741644110UP	2012	4	37,125.00
		2012	5	5,790.00
		2012	7	5,790.00
	·	2013	8	5,790.00
	· , ,	2013	10	5,790.00
		2014	11	5,790.00
		2014	12	5,790.00
		·		
In order to assign a cash payment in accordance with the assignee. This assignment is applicable only to payment programs publicly announced before this form is filed at the assignee agrees to repay promptly to the Federal Consignor and the assignee agree that they will promptly written request signed by the assignee. 13. PARTICIPANT'S (ASSIGNAR'S) SIGNATURE PART D- REVOCATION OF ASSIGNMENT Assignment of payment authorization above is here 15A. ASSIGNEE'S SIGNATURE	the programs specified by the assists issued by the NRCS for the spond is subject to the terms stated is Sovernment any amount by which notify the NRCS office of any characteristics.	reified program and contraction this form the assigned payment exceeding this assignment of the contraction of the contracti	ds the amount secured by the as int. This assignment may be revised. Solution 13B. DAT 2/- 14B. DAT 3-/	applicable only to ssignment. The
FOR NRCS USE ONLY			•	

ASSIGNEE

PARTICIPANT

NRCS COPY

U.S. DEPARTMENT OF AGRICULTURE				NRCS-CPA-1236
NATURAL RESOURCES CONSERVATION SERVICE				4/2010 Page 1 of 2
·	ASSIGNMENT (OF PAYMENT		
See Page 2 for Privacy Act and Public Burden Statement	ts.			
PART A - GENERAL INFORMATION				
1. STATE		2. COUNTY Addison		
Vermont 3. PARTICIPANT'S (ASSIGNOR'S) NAME AND AD	ODRESS Including Zin Code	t .	AND ADDRESS Including	7 Zin Code
Kimball Brook Farm LLC	Ditago molding Lip ood		AND ADDITEDS Moldeling	, ZIP GGGG
128 Bay View Road North Ferrisburgh, VT 05473		VAAFM		
4. PARTICIPANT'S (ASSIGNOR'S) TAX IDENTIFIC	CATION NUMBER	6. ASSIGNEE'S TAX IDE	ENTIFICATION NUMBER	
030368480		03-600	0264	
7. ASSIGNEE'S ELECTRONIC FUND TRANSFER	INFORMATION Fi	nancial Institution Name	: TO Bank	
Direct Deposit to Account Type:	Teavines	Address		
``	• •		montpelier,	VT 05601
Bank Information: Routing Number: Oll 6	00033	Account Number: 52	40112764	
8.	9.	10. Program Year or	11.	12.
Program Name	Contract No.	Payment Year (If Applicable)	Contract Item Number(s) (If Applicable)	Assigned Amount
PART B - APPLICABLE PROGRAM(S)				
EQIP 2008 AGO	741644110UV	2012	1	37,125.00
		2012	2	5,790.00
		2012	3	5,790.00
		2013	5	5,790.00
		2013	7.	5,790.00
		2014	8	5,790.00
		2014	9	5,790.00
PART C - REPRESENTATION OF ASSIGNO	ND AND AGGIOUSS			
In order to assign a cash payment in accordance with the	nrograms specified by the assig	gnor in Items 8 and 11, this f	form must be completed by be	oth the assignor and the
assignee. This assignment is applicable only to payment programs publicly announced before this form is filed an	s issued by the NRCS for the spe	cified program and contract	in Part B. This assignment	is applicable only to
The assignee agrees to repay promptly to the Federal Go assignor and the assignee agree that they will promptly n written request signed by the assignee.	overnment any amount hy which notify the NRCS office of any cha	the assigned payment exceed ange affecting this assignmen	ds the amount secured by the nt. This assignment may be r	assignment. The evoked at any time by
13A. PARTICIPANTS (ASSIGNOR'S) SIGNATURE			113B. D.	ATÉ (MM-DD-YYYY)
- Calle			1 2	1/1/12
14A. ASSIGNÉE'S SIGNATURE	<u> </u>		14B. D	ATE (MM-DD-YYYY)
PART D- REVOCATION OF ASSIGNMENT			3-	-19-12
Assignment of payment authorization above is hereb	by revoked.			
15A. ASSIGNEE'S SIGNATURE			15B. D	ATE (MM-DD-YYYY)
FOR NRCS USE ONLY 16. DAT	E FILED (MM-DD-YYYY)	17. TIM	E FILED	
NRCS COPY	ASSIGNEE		ARTICIPANT	

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE			•	4/2010 Page 1 of 2
	ASSIGNMENT	OF PAYMENT		
See Page 2 for Privacy Act and Public Burden State	ments.		:	
PART A - GENERAL INFORMATION 1. STATE	· · · · · · · · · · · · · · · · · · ·	2. COUNTY		
VERMONT		RUTLAND		
3. PARTICIPANT'S (ASSIGNOR'S) NAME AND	ADDRESS Including Zip Code	5. ASSIGNEE'S NAME	AND ADDRESS Including Z	ip Code
DEER FLATS FARM,LLC 1290 VT.ROUTE 30 WEST PAWLET,VT.05775	•	VAAFM		
4. PARTICIPANT'S (ASSIGNOR'S) TAX IDENT	IFICATION NUMBER	6. ASSIGNEE'S TAX IDE	ENTIFICATION NUMBER	
04-3658693		03-600	0264	
7. ASSIGNEE'S ELECTRONIC FUND TRANSF	ER INFORMATION F	inancial Institution Name	TO Bank	
Direct Deposit to Account Type: Checking	Savings	Address	90 Main St. Montpelier,	VT 05601
Bank Information: Routing Number: 0	16,00033		240112764	
8. Program Name	9. Contract No.	10. Program Year or Payment Year (If Applicable)	11. Contract Item Number(s) (If Applicable)	12. Assigned Amoun
PART B - APPLICABLE PROGRAM(S)				
EQIP	741644110US	2011	CIN#1	\$37,125
EQIP	741644110US	2011	CIN#2	\$5,790
EQIP	741644110US	2011	CIN#3	\$5,790
EQIP	741644110US	2011	CIN#4	\$5,790
EQIP	741644110US	2011	CIN#5	\$5,790
EQIP	741644110US	2011	CIN#6	\$5,790
EQIP	741644110US	2011	CIN#7	\$5,790
	VOD 440 400 045			
PART C - REPRESENTATION OF ASSIG In order to assign a cash payment in accordance will assignee. This assignment is applicable only to payn programs publicly announced before this form is files The assignee agrees to repay promptly to the Federa assignor and the assignee agree that they will promp written request signed by the assignee.	h the programs specified by the assi nents issued by the NRCS for the sp d and is subject to the terms stated i I Government any amount by which	ecified program and contract in this form the assigned payment exceed	in Part B. This assignment is a ds the amount secured by the as	applicable only to signment. The
isa. participant's (assignor's) signati Rechard H. Hulet	JRE		2-1	6-12
AA. ASSIGNEE'S SIGNATURE			148. DAT	E (MM-DD-YYYY) 19-12
asignment of payment authorization above is he 5A. ASSIGNEE'S SIGNATURE			15R DAT	E (MM-DD-YYYY)
	NATE EUED AUGUS 1556	140 000	IC CU ED	
FOR NRCS USE ONLY	DATE FILED (MM-DD-YYYY)	17. TIM	IE FILED	
NBCS CORV	ASSIGNEE			

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICES	CONSERVATION	ON PLAN OR S	SCHEDULE OF OPERATIO	NS	NRCS-CPA-1.155 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT WAYNE FISKE	COUNTY AND STAT FRANKLIN County, V	·	PROGRAM AND CONTRACT EQIP 2008 741644110U		SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL Farm: 390 Tract(s): 522.	DESCRIPTION		WATERSHED Rock River	ACRES 58	EXPIRATION DATE 12/31/2015

Contract Item 3: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

Status: Planned 2012

Edge of Field Monitoring and Evaluation: A pair of edge-of-field monitoring facilities will be installed as part of a paired watershed study to study the effectiveness of sediment basins in trapping pollutants in runoff from cropland on this field. Flow monitoring will be performed by a flume or weir with depth measurement by ultrasonic sensor or bubbler with data logger. Weather data will also be collected at one of the facilities. The minimum weather data collected will be rainfall (data logging tipping bucket rain gauge) and air temperature. All monitoring plans must meet the criteria provided in the 799 Monitoring and Evaluation Conservation Practice Standard. Two flow measurement and water quality sample collection station will be established, one as the Control study area and one as the Treatment study area. The emphasis will be on evaluating nutrient transport from the field(s). A one-time collection of data including watershed topographic information, site characteristic data and historic farm field management and existing practices will be performed. Installation and Field Characterization Report: A report of Edge of field monitoring installation activities and field characterization will be submitted when the activities have been completed. This report is the documentation that the monitoring station is installed. This station will be installed by and the reports compiled and submitted by a Partner Agency. All reports will be submitted in electronic format compatible with Microsoft computer programs.

Fields:

Tract: 522 Fields: 7;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION :	SCHEDU	LE AND	ESTIMAT	ED COS	Γ-SHARE	OR PAYM	IENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014				i			
					\$	\$	\$		•					
3	MONITORING & EVALUATION(799)	1 no	1		37,125									
3a -	Monitoring Device Installation	· 1 Number	\$37,125.000 0/	PR ¹	37,125							}		İ
			Number											

Notes: Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 4: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

Status: Planned 2012

Sampling will be conducted in this StripCrop Project Area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database. This sampling and data collection will be performed by a Partner Agency.

Fields:

Tract: 522 Fields: 5;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION :	SCHEDU	LE AND I	ESTIMAT	ED COST	-SHARE	OR PAYM	IENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
	·				\$	\$	\$							
4	MONITORING & EVALUATION(799)	1 no			5,790									
4a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 /	PR ¹	5,790	•								ĺ
			Number							İ]

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 5: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

status: Planned 2012

Sampling will be conducted at the Sediment Basin project area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

 US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVI	CE	CONSERVATION PL	AN OR SCHEDULE OF OPE	RATIONS	NRCS-CPA-1/1.55 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT WAYNE FISKE	,	COUNTY AND STATE FRANKLIN County, VT	PROGRAM AND CON EQIP 2008 741		SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGA Farm:390 Tract(s):522.	L DESCRIPTIO	N	WATERSHED Rock River	ACRES 58	EXPIRATION DATE 12/31/2015

Contract Item 1: RESIDUE MANAGEMENT, MULCH TILL(345)

Practice Lifespan: 1 year

Status: Planned 2012

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will be planted using mulch tillage techniques, to manage the planted amounts, orientation and distribution of organic residue on the soil surface. The annual crops will be no-till- or strip-till-drilled into killed crop residue from the preceding cover crop or hay crop. For EQIP Program purposes, this is being classified as Mulch Tillage because the only equipment available to the producer to apply the corresponding manure injection/incorporation is the aerway vertical tillage implement, and the EQIP handbook says that this disqualifies the tillage from being considered true no-till. Operation and Maintenance: The corn will be planted into the hay or small grain crop residue using no-till or strip-till equipment, and will leave A MINimum of 30 % crop residue cover on the soil surface after planting, IMMEDIATELY after planting, report the completion of this practice to the NRCS office so that the % residue can be measured in the field; delay of reporting can adversely impact the residue measurements. This practice will be repeated on these locations for each of the 3 years in the test period. Refer to the enclosed jobsheet for further information,

Fields:

Tract: 522 Fields: 2, 3, 4, 17;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU	LE AND	ESTIMA	TED COST	Γ-SHARE	OR PAYN	MENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014		-					
					\$	\$	\$							
1	RESIDUE MANAGEMENT, MULCH TILL(345)	23.2 ac			1,160									
	1st Year Management payment, to be used with Waste Recycling	23.2 Acre	\$50.0000/		1,160									
	Practice (633)		Acre						İ				'	
Notes.	Payment rates define the unit cost rate of compansation to be received	ad by the pertion	nont											

Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 2: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

Status: Planned 2012

Edge of Field Monitoring and Evaluation: A pair of edge-of-field monitoring facilities will be installed as part of a paired watershed study to study the effectiveness of residue management practices on cropland in the Strip Crop system on this field. Flow monitoring will be performed by a flume or weir with depth measurement by ultrasonic sensor or bubbler with data logger. Weather data will also be collected at one of the facilities. The minimum weather data collected will be rainfall (data logging tipping bucket rain gauge) and air temperature. All monitoring plans must meet the criteria provided in the 799 Monitoring and Evaluation Conservation Practice Standard. Two flow measurement and water quality sample collection station will be established, one as the Control study area and one as the Treatment study area. The emphasis will be on evaluating nutrient transport from the field(s). A one-time collection of data including watershed topographic information, site characteristic data and historic farm field management and existing practices will be performed. Installation and Field Characterization Report: A report of Edge of field monitoring installation activities and field characterization will be submitted when the activities have been completed. This report is the documentation that the monitoring station is installed. This station will be installed by and the reports compiled and submitted by a Partner Agency. All reports will be submitted in electronic format compatible with Microsoft computer programs.

Fields:

Tract: 522 Fields: 5:

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU	LE AND	ESTIMAT	ED COST	-SHARE	OR PAYN	MENT BY	YEAR
Item 5		Amount		Rate/Method	2012	2013	2014							
					\$	\$	\$,			ļ !	
2	MONITORING & EVALUATION(799)	l no			37,125									
2a	Monitoring Device Installation	1 Number	\$37,125.000 0/	PR ¹	37,125								,	
			Number		1							İ	Ĺ	

FOR Your INFORMAtion

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	CONSERVATI	ON PLAN OR S	CHEDULE OF OPERATIO	NS	NRCS-CPA-1:155 OMB:0578-0013 Expires 5/31/2012
PARTICIPANT WAYNE FISKE	COUNTY AND STATER FRANKLIN County,		PROGRAM AND CONTRACT EQIP 2008 741644110U		SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTIO Farm:390 Tract(s):522.	N	q	WATERSHED Rock River	ACRES 58	EXPIRATION DATE 12/31/2015

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU	E AND I	ESTIMAT	ED COST	-SHARE	OR PAYM	ENT BY	YEAR
Item	•	Amount		Rate/Method	2012	2013	2014							
				1	\$	\$	\$	_						
5	MONITORING & EVALUATION(799)	1 no			5,790	,								
5a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 /	PR ¹	5,790									l
			Number		1	•			,		<u> </u>	ļ		i

Contract Item 6: COVER CROP(340)

Practice Lifespan: 1 year

Status: Planned 2012

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will be planted to a Winter Cover Crop by Sept 30 in each of 3 years in this test study. This conservation practice will be applied annually. Close-grown crops (ie. grass and small grain) will be planted in this row crop field to reduce soil erosion during the winter. The practice will be considered implemented once the field is prepared, tilled and seeded in accordance with the following quidelines: Broadcast 100 lbs. of winter rye or winter wheat per acre PRIOR to Oct. 1st. (Recommended winter rye variety is Aroostook). Refer to the attached jobsheet for further information.

Fields:

Tract: 522 Fields: 2, 3, 4, 17;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU	LE AND I	ESTIMAT	ED COST	-SHARE	OR PAYN	IENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014		·					
l					\$	\$	\$				İ	<u> </u>		L
6	COVER CROP(340)	23.2 ac	-		789									
6a ·	Establish Winter Cover Crop	23.2 Åcre	\$34.0000/	. PR ¹	789			i.						
			Acre		ĺ						<u> </u>	<u> </u>		

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 7: MONITORING & EVALUATION(799)

Practice Lifespan: 1 years

Status: Planned 2012.

Sampling will be conducted in Sediment Basin project area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 522 Fields: 7;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION :	SCHEDU	LE AND	ESTIMAT	ED COST	-SHARE	OR PAYM	IENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
ļ					\$	\$	\$							<u> </u>
7	MONITORING & EVALUATION(799)	1 no		-	5,790									
7a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000/	PR ¹	5,790	i		<u> </u>			[[
			Number						<u> </u>		<u> </u>		<u> </u>	L

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	CONSERVATIO	ON PLAN OR SCHEDULE OF OPERATIO	NS	NR CS-CPA-1155 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT WAYNE FISKE	COUNTY AND STATE FRANKLIN County, V			SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL Farm: 390 Tract(s):522.	DESCRIPTION	WATERSHED Rock River	ACRES 58	EXPIRATION DATE 12/31/2015

Contract Item 8: MONITORING & EVALUATION(799)

Practice Lifespan: | vear

Status: Planned 2012

Sampling will be conducted in this Strip Crop Project Area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database. This sampling and data collection will be performed by a Partner Agency.

Fields:

Tract: 522 Fields: 5;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU	LE AND	ESTIMAT	ED COS	T-SHARE	OR PAY	MENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
}				-	\$	\$	\$							
8	MONITORING & EVALUATION(799)	1 no			5,790					-	1			:
8a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 /	PŖ¹	5,790									
			Number		i								1	<u> </u>

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 9: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

Status: Planned 2012

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation in the Sediment Basin Project Area, detailing tilling, planting dates and rates, nutrient application amounts and methods, and yield data for both the "control" and "treated" areas of the fields included in the strip crop project area. The records will include data for all the strips in this strip crop system, even though this practice (code 799) is reported in units of "one" instance of recordkeeping and can only be assigned in the computer to one field.

Fields:

Tract: 522 Fields: 7:

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU	LE AND	ESTIMA'	TED COS	T-SHARE	OR PAY	MENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014					ļ		
İ'.		i			\$	\$	\$_					<u> </u>		
9	MONITORING & EVALUATION(799)	1 no			750									
9a	Annual Field Management Data Collection	1 Number	\$750.0000/	PR ¹	750									
	·		Number										<u></u>	

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 10: MONITORING & EVALUATION (799)

Practice Lifespan: 1 year

Status: Planned 2012

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation in the Strip Crop Project Area, detailing tilling, planting dates and rates, nutrient application amounts and methods, and yield data for both the "control" and "treated" areas of the fields included in the strip crop project area. The records will include data for all the strips in this strip crop system, even though this practice (code 799) is reported in units of "one" instance of recordkeeping and can only be assigned in the computer to one field.

Fields:

Tract: 522 Fields: 5;

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	CONSERVATION	NPLAN OR SCHEDULE OF OPERATION	ONS	NRCS-CPA-1155 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT WAYNE FISKE	COUNTY AND STATE FRANKLIN County, VT	PROGRAM AND CONTRACT EQIP 2008 741644110		SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESC Farm:390 Tract(s):522.	CRIPTION	WATERSHED Rock River	ACRES 58	EXPIRATION DATE 12/31/2015

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share [COMP	LETION	SCHEDU	LE AND	ESTIMAT	TED COS	Γ-SHARE	OR PAYN	MENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014		Ţ				,	
					\$	\$	\$		•					i
10	MONITORING & EVALUATION(799)	l no			750									
10a	Annual Field Management Data Collection	1 Number	\$750.0000/ Number	1 1	750									

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 11: RESIDUE MANAGEMENT, MULCH TILL(345)

Practice Lifespan: 1 year

Status: Planned 2013

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will be planted using mulch tillage techniques, to manage the planned amounts, orientation and distribution of organic residue on the soil surface. The annual crops will be no-till- or strip-till-drilled into killed crop residue from the preceding cover crop or hay crop. For EQIP Program purposes, this is being classified as Mulch Tillage because the only equipment available to the producer to apply the corresponding manure injection/incorporation is the aerway vertical tillage implement, and the EQIP handbook says that this disqualifies the tillage from being considered true no-till. Operation and Maintenance: The corn will be planted into the hay or small grain crop residue using no-till or strip-till equipment, and will leave A MINimum of 30 % crop residue cover on the soil surface after planting. IMMEDIATELY after planting, report the completion of this practice to the NRCS office so that the % residue can be measured in the field; delay of reporting can adversely impact the residue measurements. This practice will be repeated on these locations for each of the 3 years in the test period. Refer to the enclosed jobsheet for further information.

Fields:

Tract: 522 Fields: 2, 3, 4, 17;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDU	LE AND I	ESTIMAT	ED COS	T-SHARE	OR PAYI	MENT BY	YEAR
Item		Amount	1	Rate/Method	2012	2013	2014							
					\$	\$	\$	_						
11	RESIDUE MANAGEMENT, MULCH TILL(345)	23.2 ac				650					·			
	2nd and 3rd Year Management payment, to be used with Waste Recycling Practice (633)	23.2 Acre	\$28.0000/ Acre	PR ¹		650								

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 12: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

Status: Planned 2013

Sampling will be conducted in this StripCrop Project Area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database. This sampling and data collection will be performed by a Partner Agency.

Fields.

Tract: 522 Fields: 5;

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	CONSERVATIO	ON PLAN OR SCHEDULE OF OPERA	FIONS	NRCS-CPA-115: OMB 0578-0013 Expires 5/31/201
PARTICIPANT WAYNE FISKE	COUNTY AND STAT FRANKLIN County, V			SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL I Farm:390 Tract(s):522.	DESCRIPTION	WATERSHED Rock River	ACRES 58	EXPIRATION DATE 12/31/2015

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDU	LE AND	ESTIMAT	ED COS	Γ-SHARE	OR PAYI	MENT BY	YEAR
Item		Amount		Rate/Method	2012 \$	2013 \$	2014 \$							
12	MONITORING & EVALUATION(799)	l no				5,790								
12a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number			5,790								

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 13: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

Status: Planned 2013

Sampling will be conducted at the Sediment Basin project area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 522 Fields: 7;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	CHEDU	LE AND	ESTIMAT	ED COS	SHARE	OR PAYM	IENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
					\$	\$	\$							
13	MONITORING & EVALUATION(799)	1 no				5,790								
13a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000/			5,790								
			Number						<u> </u>	ļ	1			L

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 14: COVER CROP(340)

Practice Lifespan: 1 year

status: Planned 2013

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will be planted to a Winter Cover Crop by Sept 30 in each of 3 years in this test study. This conservation practice will be applied annually. Close-grown crops (ie. grass and small grain) will be planted in this row crop field to reduce soil erosion during the winter. The practice will be considered implemented once the field is prepared, tilled and seeded in accordance with the following quidelines: Broadcast 100 lbs. of winter rye or winter wheat per acre PRIOR to Oct. 1st. (Recommended winter rye variety is Aroostook). Refer to the attached jobsheet for further information.

Fields:

Tract: 522 Fields: 2, 3, 4, 17;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDULE	AND E	STIMAT	ED COS	Γ-SHARE	OR PAYM	IENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014	,					1 1	
					\$	\$	\$ -							l
14	COVER CROP(340)	23.2 ac				789								i
14a	Establish Winter Cover Crop	23.2 Acre	\$34.0000/	PR1		789		,						i
	<u>-</u>		Acre										l	<u> </u>

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICES	CONSERVATION	ON PLAN OR SCHEDULE OF OPERATION	DNS	NRCS-CPA-1155 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT WAYNE FISKE	COUNTY AND STAT FRANKLIN County, V			SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL	DESCRIPTION	WATERSHED	ACRES	EXPIRATION DATE
Farm: 390 Tract(s): 522.	•	Rock River	58	12/31/2015

Contract Item 15: WASTE RECYCLING(633)

Practice Lifespan: I year

Status: Planned 2013

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will have any manure applied be incorporated into the field using the Aerway vertical tillage implement. This conservation practice will be applied every time manure is applied to these areas, for the duration of the 3-year test period. Refer to attached recordkeeping sheet for the application records that are required to be submitted at the end of each growing season. Agricultural wastes will be applied according to recommended rates as a result of soil and manure testing. Manure and wastes will be applied in split applications (i.e., spring, late summer or early fall). Wastes will not be spread on snow covered or frozen ground or closer than 50 feet to any watercourse or waterbody or closer than 100 feet to any well site. Incorporation on cropland should be within 2 days. All local, state and federal regulations will be followed when applying manure and agricultural wastes.

Fields:

Tract: 522 Fields: 2, 3, 4, 17;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU	LE AND I	ESTIMAT	ED COS	Γ-SHARE	OR PAYM	ENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
	·		<u>'</u>		\$	_\$	\$		_		1			1
15	WASTE RECYCLING(633)	23.2 ac				882								
15a	Inject or Incorporate Manure	23.2 Acre	\$38.0000/	PR¹		882				ļ				ĺ
			Acre											

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 16: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

Status: Planned 2013

Sampling will be conducted in this Strip Crop Project Area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database. This sampling and data collection will be performed by a Partner Agency.

Fields:

Tract: 522 Fields: 5;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDUI	LE AND I	ESTIMAT	ED COST	Γ-SHARE	OR PAYN	ENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
					\$	\$	\$			1				
16	MONITORING & EVALUATION(799)	1 no		-		5,790								
16a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000/	PR1		5,790								ļ
			Number						L	L	<u> </u>	<u> </u>	<u> </u>	L

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 17: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

Status: Planned 2013

Sampling will be conducted in Sediment Basin project area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 522 Fields: 7;

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	E CONSERVATI	ON PLAN OR S	CHEDULE OF OPERATIO	NS	NRCS-CPA-1155 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT WAYNE FISKE	COUNTY AND STATE	_	PROGRAM AND CONTRACT EQIP 2008 741644110U		SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL Farm:390 Tract(s):522.	DESCRIPTION .		WATERSHED Rock River	ACRES 58	EXPIRATION DATE 12/31/2015

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	CHEDU	LE AND I	ESTIMAT	ED COST	-SHARE	OR PAYN	MENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							1
1					\$	\$	\$						<u> </u>	
. 17	MONITORING & EVALUATION(799)	· 1 no				5,790)
17a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000/	PR ¹		5,790								ĺ. l
ļ	·		Number								<u> </u>		1	
Notes	Downant rates define the unit cost rate of compensation to be received	ed by the partic	inant											

Notes: Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 18: MONITORING & EVALUATION(799)

Practice Lifespan: Lycar

Status: Planned 2013

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation in the Strip Crop Project Area, detailing tilling, planting dates and rates, nutrient application amounts and methods, and yield data for both the "control" and "treated" areas of the fields included in the strip crop project area. The records will include data for all the strips in this strip crop system, even though this practice (code 799) is reported in units of "one" instance of recordkeeping and can only be assigned in the computer to one field.

Fields:

Tract: 522 Fields: 5;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDU	LE AND I	ESTIMAT	ED COST	-SHARE	OR PAYN	IENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
1					\$	\$	\$\$							
18	MONITORING & EVALUATION(799)	, 1 no				750								
18a	Annual Field Management Data Collection	1 Number	\$750.0000/			750							ļ	
<u> </u>	· · · · · · · · · · · · · · · · · · ·		Number									<u> </u>	<u> </u>	

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 19: MONITORING & EVALUATION(799)

Practice Lifespan: A year

Status: Planned 2013

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation in the Sediment Basin Project Area, detailing tilling, planting dates and rates, nutrient application amounts and methods, and yield data for both the "control" and "treated" areas of the fields included in the strip crop project area. The records will include data for all the strips in this strip crop system, even though this practice (code 799) is reported in units of "one" instance of recordkeeping and can only be assigned in the computer to one field.

Fields:

Tract: 522 Fields: 7;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDU	LE AND I	ESTIMAT	ED COST	-SHARE	OR PAYM	ENT BY	YEAR
Item		Amount	-	Rate/Method	2012	2013	2014			1			ļ	
					\$	\$	\$					<u> </u>		
19	MONITORING & EVALUATION(799)	1 no				750								!
19a	Annual Field Management Data Collection	1 Number	\$750.0000/ Number	PR ¹		750								
			Number			i		L	<u> </u>	<u> </u>	<u> </u>	L		L

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	CONSERVATIO	ON PLAN OR SCHEDULE OF OPERATION	NS	NRCS-CPA-1155 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT WAYNE FISKE	COUNTY AND STAT FRANKLIN County, V			SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL Farm: 390 Tract(s):522.	DESCRIPTION	WATERSHED Rock River	ACRES 58	EXPIRATION DATE 12/31/2015

Contract Item 20: RESIDUE MANAGEMENT, MULCH TILL(345)

Practice Lifespan: 1 year

Status: Planned 2014

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will be planted using mulch tillage techniques, to manage the planned amounts, orientation and distribution of organic residue on the soil surface. The annual crops will be no-till- or strip-till-drilled into killed crop residue from the preceding cover crop or hay crop. For EQIP Program purposes, this is being classified as Mulch Tillage because the only equipment available to the producer to apply the corresponding manure injection/incorporation is the aerway vertical tillage implement, and the EQIP handbook says that this disqualifies the tillage from being considered true no-till. Operation and Maintenance: The corn will be planted into the hay or small grain crop residue using no-till or strip-till equipment, and will leave A MINimum of 30 % crop residue cover on the soil surface after planting. IMMEDIATELY after planting, report the completion of this practice to the NRCS office so that the % residue can be measured in the field; delay of reporting can adversely impact the residue measurements. This practice will be repeated on these locations for each of the 3 years in the test period. Refer to the enclosed jobsheet for further information.

Fields:

Tract: 522 Fields: 2, 3, 4, 17;

Contrac	t Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDUI	LE AND	ESTIMAT	ED COS	Γ-SHARE	OR PAYN	MENT BY	YEAR
Item	·	Amount		Rate/Method	2012	2013	2014							
<u> </u>		\\			\$\$	\$	\$		1	·	\	.	ł	,
20	RESIDUE MANAGEMENT, MULCH TILL(345)	23.2 ac	-				650							
	2nd and 3rd Year Management payment, to be used with Waste Recycling Practice (633)	23.2 Acre	\$28.0000/ Acre				650							·

Notes: 1Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 21: MONITORING & EVALUATION(799)

Practice-Lifespan: 1 year

Status: Planned 2014

Sampling will be conducted in this StripCrop Project Area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database. This sampling and data collection will be performed by a Partner Agency.

Fields:

Tract: 522 Fields: 5;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION :	SCHEDUI	LE AND	ESTIMA1	ED COS	T-SHARE	OR PAYN	MENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014			i				
					\$	\$	\$							<u></u> '
21	MONITORING & EVALUATION(799)	1 no					5,790							
21a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR¹			5,790							

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 22: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

Status: Planned 2014

Sampling will be conducted at the Sediment Basin project area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 522 Fields: 7;

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	CONSERVATION	ON PLAN OR SCHEDULE OF OPERAT	ONS	NRCS-CPA-1155 () MB:0578-0013 Expires:5/31/2012
PARTICIPANT WAYNE FISKE	COUNTY AND STAT FRANKLIN County, V			SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DI Farm:390 Tract(s):522.	ESCRIPTION	WATERSHED Rock River	ACRES 58	EXPIRATION DATE 12/31/2015

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Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 23: COVER CROP(340)

Practice Lifespan: 1 year Status: Planned 2014

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will be planted to a Winter Cover Crop by Sept 30 in each of 3 years in this test study. This conservation practice will be applied annually. Close-grown crops (ie. grass and small grain) will be planted in this row crop field to reduce soil erosion during the winter. The practice will be considered implemented once the field is prepared, tilled and seeded in accordance with the following quidelines: Broadcast 100 lbs. of winter rye or winter wheat per acre PRIOR to Oct. 1st. (Recommended winter rye variety is Aroostook). Refer to the attached jobsheet for further information.

Fields:

Tract: 522 Fields: 2, 3, 4, 17;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDUI	LE AND	ESTIMAT	ED COST	-SHARE	OR PAYM	ENT BY	YEAR
Item	•	Amount		Rate/Method	2012	2013	2014			1				·
1					\$	\$	\$							
23	COVER CROP(340)	23.2 ac					789			,				
23a	Establish Winter Cover Crop	23.2 Acre	\$34.0000/	PR^1			789							
			Acre						<u>L</u>					<u> </u>

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 24: WASTE RECYCLING(633)

Practice Lifespan: 1 year

Status Planned 2014

Within this strip crop system, the corn strips in the Test watershed "B" and the remaining two northern watersheds "C" and "D" will have any manure applied be incorporated into the field using the Aerway vertical tillage implement. This conservation practice will be applied every time manure is applied to these areas, for the duration of the 3-year test period. Refer to attached recordkeeping sheet for the application records that are required to be submitted at the end of each growing season. Agricultural wastes will be applied according to recommended rates as a result of soil and manure testing. Manure and wastes will be applied in split applications (i.e., spring, late summer or early fall). Wastes will not be spread on snow covered or frozen ground or closer than 50 feet to any watercourse or waterbody or closer than 100 feet to any well site. Incorporation on cropland should be within 2 days. All local, state and federal regulations will be followed when applying manure and agricultural wastes.

Fields:

Tract: 522 Fields: 2, 3, 4, 17;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDUI	E AND ES	TIMATED	COST-	SHARE (OR PAYM	ENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
		'			\$	\$	\$,
24	WASTE RECYCLING(633)	23.2 ac					882							
24a	Inject or Incorporate Manure	23.2 Acre	\$38.0000/	PR ¹			882							
			Acre											

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	E CONSERVATION	ON PLAN OR SCHEDULE OF OPERAT	ONS	NRCS-CPA-1155 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT WAYNE FISKE	COUNTY AND STAT FRANKLIN County, V			SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL Farm:390 Tract(s):522.	DESCRIPTION	WATERSHED Rock River	ACRES 58	EXPIRATION DATE 12/31/2015

Contract Item 25: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year Status: Planned 2014

Sampling will be conducted in this Strip Crop Project Area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database. This sampling and data collection will be performed by a Partner Agency.

Fields:

Tract: 522 Fields: 5;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION :	SCHEDUI	E AND I	ESTIMAT	ED COST	-SHARE	OR PAYN	IENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014			Γ				
					\$	\$	\$							
25	MONITORING & EVALUATION(799)	1 no					5,790							
25a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	. PR ¹			5,790							

Notes: 1Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 26: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

Status: Planned 2014

Sampling will be conducted in Sediment Basin project area year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 522 Fields: 7;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDUI	E AND E	STIMAT	ED COST	T-SHARE	OR PAYM	MENT BY	YEAR-
Item		Amount		Rate/Method	2012	2013	2014							
l					\$	\$	\$				1	1		1
26	MONITORING & EVALUATION(799)	1 no					5,790							
26a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000/	PR1	i		5,790					·	1	
		,	Number				1	· ·				1		İ

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 27. MONITORING & EVALUATION (799)

Practice Lifespan: 1 year

Status: Planned 2014

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation in the Strip Crop Project Area, detailing tilling, planting dates and rates, nutrient application amounts and methods, and yield data for both the "control" and "treated" areas of the fields included in the strip crop project area. The records will include data for all the strips in this strip crop system, even though this practice (code 799) is reported in units of "one" instance of recordkeeping and can only be assigned in the computer to one field.

Fields.

Tract: 522 Fields: 5;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU.	LE AND I	ESTIMAT	ED COST	SHARE (OR PAYN	ENT BY	YEAR
Item	•	Amount		Rate/Method	2012	2013	2014							

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	CONSERVATION PLAN	OR SCHEDULE OF OPERATIO	8 - 4 LT	NRCS-CPA-1155 OMB 0578-0013 Expires:5/31/2012
PARTICIPANT WAYNE FISKE	COUNTY AND STATE FRANKLIN County, VT	PROGRAM AND CONTRACT EQIP 2008 741644110U		SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTIO Farm:390 Tract(s):522.	N	WATERSHED Rock River	ACRES 58	EXPIRATION DATE 12/31/2015

1	}	<u> </u>			\$	\$ \$		1				
27	MONITORING & EVALUATION(799)	1 no				 750				<u> </u>		
27a	Annual Field Management Data Collection	1 Number	\$750.0000/	PR ¹		750			Į			l
			Number			 	·		 <u> </u>		<u> </u>	L
Notes:	Payment rates define the unit cost rate of compensation to be received.	ved by the partic	ipant.		-							

Contract Item 28: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

Status: Planned 2014

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation in the Sediment Basin Project Area, detailing tilling, planting dates and rates, nutrient application amounts and methods, and yield data for both the "control" and "treated" areas of the fields included in the strip crop project area. The records will include data for all the strips in this strip crop system, even though this practice (code 799) is reported in units of "one" instance of recordkeeping and can only be assigned in the computer to one field.

Fields:

Tract: 522 Fields: 7;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDUI	LE AND	ESTIMA'	ΓED COS	T-SHARE	OR PAYN	MENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
1	· ·	}			\$	\$	\$		}			1	.	
28	MONITORING & EVALUATION(799)	1 no	•				750							
28a	Annual Field Management Data Collection	1 Number	\$750.0000/ Number	PR ¹			750	-				-	}	

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	CONSERVATIO	ON PLAN OR SCHEDULE OF OPERAT I	ONS	NRCS-CPA-1155 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT WAYNE FISKE	COUNTY AND STATE FRANKLIN County, V			SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL I Farm: 390 Tract(s):522.	DESCRIPTION	WATERSHED Rock River	ACRES 58	EXPIRATION DATE 12/31/2015

en grande grande en en en en en en en en en en en en en	g star productions and star		2011 Marie 3 19 3	Total Cost-Share o	r Payment by Year		Total Contract
Year	2012	2013	2014				Payment
Amount(\$)	\$100,859	\$26,981	\$26,981				\$154,821

NOTES: A. All items numbers on form NRCS-CPA-1155 must be carried out as part of this contract to prevent violation.

- B. When established, the conservation practices identified by the numbered items must be maintained by the participant at no cost to the government.
- C. All cost share rates are based on average cost (AC) with the following exceptions:
 - AA = Actual cost not to exceed average cost; FR = Flat Rate; NC = Non cost-shared; AM = Actual cost not to exceed a specified maximum; PR = Payment rates.
- D. By signing, the participant acknowledges receipt of this conservation plan including this form NRCS-CPA-1155 and agrees to comply with the terms and conditions here of.

Signature	Date	Signature		Date	Signature		Date
WAYNE FISKE				• *			
		:					
Signatures of Reviewing Officials		and in Managara may "					
District Conservationist - Technical Adequacy Cer	tification		NRCS Appr	oving Official			
Signature:			Signature:	LEONARD JOR	DAN		
			USDA electi	ronic signature; r	nanual signature not required	i.	
Date:			İ				
	•		Date: 8/22/2	2011	· ·		

PUBLIC BURDEN STATEMENT

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collections is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

PRIVACY ACT

The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C 522a). Furnishing this information is voluntary; however failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

USDA NON-DISCRIMINATION STATEMENT

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer."

EPARTMENT OF AGRICULTURE TRAL REFOURCES CONSERVATION SERVICE	CONSE	WATION I	PLAN OR S	CHED	ULE O	F OPE	RATIC	NS		O MB	0578-001	NRCS- 3 Expires	
PARTICIPANT DEER FLATS FARM LLC	COUNTY AT RUTLAND (PROC			NTRACT 16441101		ER		SUBACC rica's Gre		ors
LAND UNITS OR LEGAL DESCR :176 Tract(s):1352.	RIPTION			WATER: Brooks-M		River		ACR	ı	EX	PIRATIC 9/30/2		3
					-								
ract Item 1: MONITORING & EVALUATION(799)			,	Pra ctice I	ifespan:	1 year					S	tatus: Pla	nne
rement by ultrasonic sensor or bubbler with data logger. We trature. All monitoring plans must meet the criteria provider the Control study area and one as the Treatment study area atteristic data and historic farm field management and existing terization will be submitted when the activities have been duter programs.	d in the 799 Monitoring ar a. The emphasis will be or ng practices will be perfor	nd Evaluation Co n evaluating nutri med. Installation	inservation Pract ent transport fro and Field Chara	ice Standa m the field acterization	rd. Two f l(s). A on n Report:	low meas e-time col A report o	urement an lection of f Edge of	nd water q data inclu field moni	uality sam ding water toring inst	ple collect shed topo allation ac	tion station graphic inf tivities and	will be excornation, d field	stał , sit
s: 1352 Fields: 1B;				· · ·								-	
Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	LETION 2013 \$	SCHEDU 2014 \$	LE AND	ESTIMAT	TED COST	T-SHARE	OR PAYN	MENT BY	Y
MONITORING & EVALUATION(799) Monitoring Device Installation	1 no	r \$37,125.000 0/ Number	PR ¹	37,125 37,125						i			
: Payment rates define the unit cost rate of compensation	to be received by the parti	cipant.							·	<u> </u>			
ract Item 2: MONITORING & EVALUATION(799)	, t _p mill.a · · · · · · · · ·			Practice l	L if espan:	·1 year					S	tatus: Pla	nne
ling will be conducted year round when feasible. The flow ited and transported to the laboratory in a timely fashion. A nded sediments using approved scientific methods. Water st	sample log book will be n	naintained. Wate	r samples will be	analyzed	for total	phosphore	ıs, dissolv	d phosph	orus, total	nitrogen, o	dissolved r	itrogen ar	nd t
s: 1352 Fields: 1B;					- , 					in Alex			
act Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	LETION 2013 \$	SCHEDU '2014 '	LE AND	ESTIMAT	ED COST	SHARE	OR PAYN	MENT BY	YI
MONITORING & EVALUATION(799)	1 no			5,790	Ψ	, w							+
Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000/	PR1	5,790									

act	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU	LE AND I	ESTIMAT	ED COST	-SHARE	OR PAYM	ENT BY	ŸΕ
9		Amount	•	Rate/Method	2012	2013	'2014 '					,		
~	<u>, </u>				\$	\$	\$							i _
-	MONITORING & EVALUATION(799)	1 no			5,790									<u> </u>
	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000/	PR ¹	5,790	-		ļ						
	·		Number			_				L				

[:] Payment rates define the unit cost rate of compensation to be received by the participant.

ract Item 3: MONITORING & EVALUATION(799)

Practice Lifespan: I year

Status: Planned

ling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be ted and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and to nded sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

1352 Fields: 1B;

	•				•	•									
PARTMENT OF AC	FRICULTURE CONSERVATION SERVICE	.F.	CONSER	VATION I	PLAN OR S	CHED	ULE O	F O PEI	RATIC	NS		OMB	0578-001	NR CS- 0 3 Expires	
PARTIO DEER FLATS		,	COUNTY AN RUTLAND C			PRO	GRAM A EQIP	ND CON 2008 741			R	_	UBACC ica's Grea	OUNT at Outdoo	rs
Land 176 Tract(s):1352	AND UNITS OR LEGAL	DESCRIPTION				WATER Brooks-M	SHED lettawee I	River		ACRI 14.7		EXI	PIRATIO 9/30/20	N DATE	,
ad: Di	anned Conservation Treatm		Planned	Unit Cost	Cost Share	COMI	PLETION S	CHEDIII	FAND	FSTIMAT	ED COST	-SHARE (OR PAYM	ENT BY	YF
Ci P	anned Conservation Treatm	ent	Amount	Omi Cosi	Rate/Method	2012 \$	2013	2014				Sinite	31011111		
MONITORING & Event Sampling, S	EVALUATION(799) amples 1 thru 10		1 no 1 Number	\$5,790.0000 / Number	PR1		5,790 5,790								
act Item 4: MONITing will be conducted ted and transported to	ORING & EVALUATION I year round when feasible. The laboratory in a timely far	N(799) The flow monitoring ashion. A sample log	device and auto	sampler will be	r samples will b	ect a min	d for total p	runoff ev	s, dissolve	ed phospho	orus, total i	nitrogen, d	The samissolved n	itrogen ån	be nd to
eded sediments using : 1352 Fields: 1B;	approved scientific methods	. Water sample, flow	v data and other	data will be per	iodically review	red for qua	ality contro	l purposes	. All data	will be ma	aintained i	n an appro	ved digita	ıl database	
ct P	lanned Conservation Treatm	ent	Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	PLETION 2013	SCHEDUI 2014 \$	LE AND	ESTIMAT	ED COST	-SHARE	OR PAYN	MENT BY	YE
MONITORING & Event Sampling, S	EVALUATION(799) camples 1 thru 10		1 no 1 Number	\$5,790.0000 / Number	PR¹			5,790 5,790				·	·		
Payment rates defi	ne the unit cost rate of comp	ensation to be receive	ed by the partic	ipant.	· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
act Item 5: MONIT	ORING & EVALUATION	N(799)	 			Practice	Lifespan:	l year						tatus: Pla	nne
Management Log: The eted.	is work includes the annual	collection of data inc	cluding farm fie	ld management	and practice imp	olementat	ion. Data w	rill be coll	ected con	tinuously t	hrough the	year as fa	rming act	ivities are	
: 1352 Fields: 1B;			·.										·		
ect P	lanned Conservation Treatm	ent	Planned Amount	Unit Cost	Cost Share Rate/Method	2012	PLETION 2013	SCHEDUI 2014	LE AND	ESTIMAT	ED COST	SHARE	OR PAYN	MENT BY	YI

: 'Payment rates define the unit cost rate of compensation to be received by the participant.
ract Item 6: MONITORING & EVALUATION(799)

MONITORING & EVALUATION(799)

Event Sampling, Samples 11 thru 20

Practice Lifespan: 1 year

5,790

5,790

PR1

Status: Planned

Management Log: This work includes the annual collection of data including farm field management and practice implementation. Data will be collected continuously through the year as farming activities are leted.

1 no

1 Number \$5,790.0000 /

Number

	PARTMENT OF AGRICULTURE TAL RESQUECES CONSERVATION SERVICE	CONSER	VATIO N P	LAN OR S	CHED	ULE O	FORE	RATIC	NS		ОМВ	0578-001	NRCS- 3 Expires	
	PARTICIPANT DEER FLATS FARM LLC	COUNTY AN RUTLAND C			PROC		ND CON 2008 741		NUMBE US	ER	-	SUBACC rica's Great		ors
:1'	LAND UNITS OR LEGAL DESCRIPTION Tract(s):1352.	DN			WATER Brooks-M	SHED [ettawee]	River		ACR		EX	PIRATIC 9/30/20		3
_			-											
s: 13	352 Fields: 1B;				_									
ict	In the first term of the control of	Planned Amount	Unit Cost	Cost Share Rate/Method	COMP 2012	2013	SCHEDU 2014	LE AND	ESTIMAT	ED COST	-SHARE	OR PAYN	VENT BY	Y
_	MONITORING & EVALUATION(799)	1 no			\$	\$ 5,790	\$							+
	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR¹		5,790								
:	Payment rates define the unit cost rate of compensation to be re	ceived by the partic	ipant.											_
rac	ct Item 7: MONITORING & EVALUATION(799)				Practice	Lifespan:	. 1 year					s #S	t atus: Pla	inne
	fanagement Log: This work includes the annual collection of datated.	a including farm fie	ld management	and practice imp	lementati	on. Data v	vill be coll	ected con	tinuously	through the	year as f	arming act	tivities are	;
s: 1:	352 Fields: 1B;					,								
101		Planned Amount	Unit Cost	Cost Share Rate/Method	COMF 2012	PLETION 2013	SCHEDU 2014	LE AND	ESTIMAT	TED COST	-SHARE	OR PAYN	MENT BY	<u>' Y</u> 1
7		7 tinount		Kato/Monod	\$	\$	\$							L
	MONITORING & EVALUATION(799)	l no	1		_		5,790							-
	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR¹			5,790							
:	Payment rates define the unit cost rate of compensation to be re	ceived by the partic	ipant.						·					
rae	ct Item 8: MONITORING & EVALUATION(799)				Practice	Lifespan:	1 year				- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	s	tatus: Pla	nne
:te	ng will be conducted year round when feasible. The flow monitor d and transported to the laboratory in a timely fashion. A sample led sediments using approved scientific methods. Water sample,	log book will be m	aintained. Wate	r samples will b	e analyzed	l for total	ohosphoru	s, dissolv	ed phosph	orus, total r	nitrogen, d	dissolved r	nitrogen ar	nd t
5: 1:	352 Fields: 1B;													
ict	1	Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	2013 \$	SCHEDU 2014 \$	LE AND	ESTIMAT	CED COST	-SHARE	OR PAYN	MENT BY	YI
-	MONITORING & EVALUATION(799)	1 no					750							1
	Annual Field Management Data Collection	1 Number	\$750.0000/ Number	PR¹			750	,						
::	Payment rates define the unit cost rate of compensation to be re	ceived by the partic	ipant.											

EPARTMENT OF AGRICULTURE	CONCED	VATRIONI D	LAN OR'S	CHED	ELEO	E ODE	DATIO	NC				NRCS-	CP.
JRAL RESOURCES CONSERVATION SERVICE	CONSER	VALIONI	LANOKS	CHED	OTAL O	r Or Ea	CATIO			OMB	0578-001	3 E xpir es	5/3
PARTICIPANT DEER FLATS FARM LLC	COUNTY AN RUTLAND C			PROC		ND CON 2008 741		NUMBE JS	R		SUBACC rica's Grea		ors
LAND UNITS OR LEGAL DESCRIPTION :176 Tract(s):1352.				WATER Brooks-M	SHED ettawee I	River		ACRI 14.7		EX	PIRATIO 9/30/20		3
		,											
ract Item 9: MONITORING & EVALUATION (799)		<u> </u>		Practice 1	Lifespan:	l year					St	tatus: Pla	nne
ling will be conducted year round when feasible. The flow monitoring ted and transported to the laboratory in a timely fashion. A sample londed sediments using approved scientific methods. Water sample, flo	g book will be ma	aintained. Water	r samples will be	e analvzed	for total r	hosphoru	s, dissolve	ed phospho	rus, total :	nitrogen, o	dissolved n	nitrogen ar	nd t
s: 1352 Fields: 1B;		ď											
act Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	LETION 2013 \$	2014	LE AND I	ESTIMAT	ED COST	-SHARE	OR PAYM	IENT BY	YI
- I	The 1 no			3	750	\$					 		+
Annual Field Management Data Collection	1 Number	\$750.0000/ Number	PR¹		750	-2.70-54							
: ¹Payment rates define the unit cost rate of compensation to be rece	ived by the partic	ipant.				·							
ract Item 10: MONITORING & EVALUATION (799)		<u>.</u>		Practice	Lifespan:	1 year	•			, .	S	tatus: Pla	inne
ling will be conducted year round when feasible. The flow monitorin ted and transported to the laboratory in a timely fashion. A sample londed sediments using approved scientific methods. Water sample, flo	g book will be m	aintained. Water	r samples will be	e analyzed	for total	phosphoru	s, dissolve	ed phospho	orus, total	nitrogen, (dissolved n	nitrogen an	nd t
s: 1352 Fields: 1B;													
act Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method				LE AND	ESTIMAT T	ED COST	r-share	OR PAYN	<u>AENT BY</u>	[Y]
<i>[0</i>]	Ainount		Kate/Method	2012 \$	2013 \$	2014 \$							\perp
MONITORING & EVALUATION(799)	. 1 no			750						, .	-		
Annual Field Management Data Collection	1 Number	\$750.0000/ Number	PR¹	750									
Payment rates define the unit cost rate of compensation to be rece	ived by the partic	ipant.											
ract Item 11: COVER CROP(340)			,	Practice	Lifespan:	1 year	¥.			,	S	tatus: Pla	inne
ATMENT AREA: This conservation practice will be applied annually dered implemented once the field is prepared, tilled and seeded in accostook)	7. Close-grown croordance with the	ops (ie. grass an following quide	d small grain) w elines: Broadcas	vill be plar t 100 lbs.	nted in this	row crop ye or wint	field to re er wheat p	duce soil oper acre pr	erosion du ior to Oct.	ring the w	inter. The ommended	practice w I winter ry	vill /e v
s: 1352 Fields: 1A;	•		÷										

	PARTMENT OF AGRICULTURE RAL RESOURCES CONSERVATION SERVICE	CONSER	VATION I	PLAN OR S	CHED	ULE O	F OPE	RATIC	NS		ОМВ	3.0578-001	NRCS-C	
		COUNTY AN RUTLAND C			PROC		ND CON 2008 74		NUMBE JS	R		SUBACC rica's Gre	COUNT at Outdoo	rs
:1	LAND UNITS OR LEGAL DESCRIPTION 76 Tract(s):1352.			Wells l	WATER Brooks-M	SHED lettawee	River		ACRI 14.7		EX	PIRATIC 9/30/2	ON DATE 015	
101	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	PLETION	SCHEDU	LE AND	ESTIMAT	ED COST	-SHARE	OR PAYI	MENT BY	ΥĒ
11		Amount		Rate/Method	2012 \$	2013 \$	2014 \$							
	COVER CROP(340) Establish Winter Cover Crop	7.1 ac 7.1 Acre	\$34.0000/ Acre	PR¹	242 242	* ***							-,	
:	Payment rates define the unit cost rate of compensation to be received	ved by the partic	ipant.											_
ra	ct Item 12: COVER CROP(340)				Practice	Lifespan:	1 year	*				S	tatus: Plan	me
le po:	MENT AREA: This conservation practice will be applied annually. red implemented once the field is prepared, tilled and seeded in accostook)	Close-grown crordance with the	ops (ie. grass ar following quid	id small grain) v elines: Broadcas	vill be plar t 100 lbs.	nted in this of winter i	s row crop	field to re ter wheat p	duce soil e per acre pr	erosion durior to Oct.	ring the w 1st. (Reco	inter. The ommended	practice wi I winter rye	ill t e va
10	352 Fields: 1A; Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COME	PLETION	SCHEDII	I E AND	FSTIMAT	ED COST	CHADE	OD DAVI	MENT BY	VE
12		Amount	Omi Cosi	Rate/Method	2012 \$	2013 \$	2014 \$	LE AND	CSTIMAT	ED COST	-SILAIGE	J. J.	VIENT BT	
	COVER CROP(340)	7.1 ac				242								Γ
	Establish Winter Cover Crop	7.1 Acre	\$34.0000/ Acre	1		242								
:	'Payment rates define the unit cost rate of compensation to be received	ed by the partic	ipant.	·				· ·						
ra	cf Item 13: COVER CROP(340)				Practice	Lifespan:	1 year					S	tatus: Plan	ınex
. de	MENT AREA: This conservation practice will be applied annually. red implemented once the field is prepared, tilled and seeded in accostook)	Close-grown cr ordance with the	ops (ie. grass ar following quid	d small grain) v elines: Broadcas	vill be plar t 100 lbs.	nted in this of winter i	row crop ye or wint	field to re er wheat p	duce soil e per acre pri	erosion dur ior to Oct.	ring the w 1st. (Reco	inter. The ommended	practice wi I winter rye	ill b va
s: 1	352 Fields: 1A;													_
10		Planned Amount	Unit Cost	Cost Share Rate/Method	COMP 2012	LETION 2013		LE AND	ESTIMAT	ED COST	-SHARE	OR PAYN	MENT BY	YE.
13		Amount		Rate/Method	2012 \$	\$	2014 \$							
_	COVER CROP(340)	7.1 ac	* A				242							
	Establish Winter Cover Crop	7.1 Acre	\$34.0000/ Acre	PR ¹			242							

: Payment rates define the unit cost rate of compensation to be received by the participant.

		· · · · · · · · · · · · · · · · · · ·			Total	Cost-Share	or P aymen	by Year			7. 40	Total Contract
	Year	2012	2013	2014								Payment
. *	Amount(\$)	\$49,697	\$12,572	\$12,572								\$74,841
S: A. All items numbers on form I B. When established, the conse C. All cost share rates are based AA = Actual cost not to D. By signing, the participant a	rvation practices i d on average cost (o exceed average o	dentified by the (AC) with the cost; FR = Flat	ne numbered it following exc t Rate; NC = N	ems must be reptions: Ion cost-share	naintained d; AM = A	by the participa Actual cost not to	exceed a specif	ed maximum;	PR = Payme	ent rates.		. ,
fication of Participants												
ture	Dat	e	Signature				Date	Signature				Date
R FLATS FARM LLC										· · · · · ·		*
		#_^					į.	3		· ·		
itures of Reviewing Officials	View Os	a la la cal				<u></u>	<u> </u>					i Santisti.
et Conservationist - Technical Addure:	equacy Certificat	ion				NRCS Approv Signature: HE USDA electron Date: 8/23/201	ATHER WETZ ic signature; m		re not requi	red.		

PUBLIC BURDEN STATEMENT
rding to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid control number for this information collections is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing

PRIVACY ACT above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C 522a). Furnishing this information is voluntary; however failure to furnish correct, complete information will result in the withholdin lrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies.

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COUNTY AND STATE

RUTLAND County, VT

actions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

WATERSHED

Wells Brooks-Mettawee River

PROGRAM AND CONTRACT NUMBER

EOIP 2008 741644110US

ACRES

14.7

PARTMENT OF AGRICULTURE

176 Tract(s):1352.

PARTICIPANT

DEER FLATS FARM LLC

RAL RESOURCES CONSERVATION SERVICE

ponse to orders of a court, magistrate, or administrative tribunal.

A is an equal opportunity provider and employer."

LAND UNITS OR LEGAL DESCRIPTION

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NRCS-CPA

OMB 0578-0013 Expires 5/31

SUBACCOUNT

America's Great Outdoors

EXPIRATION DATE

9/30/2015

CONSERVATION PROGRAM CONTRACT

Participan €:	Program and Contract Number:
NORTH WILLISTON CATTLE INC	EQIP 2008 741644110UH
County and State:	Subaccount:
CHITTENDEN County, VT	America's Great Outdoors
Watershed: Winooski River-Huntington River to Alder Brook	This agreement is effective on the date signed by the Natural Resources Conservation Service approving official and extends through 9/30/2015

- 1. The undersigned participants enter into this contract with the Natural Resources Conservation Service (NRCS) to implement and or maintain specific conservation practices, as set forth in the Conservation Plan or Schedule of Operations (NRCS-CPA-1155), on the property as identified on the plan map. In consideration for the implementation and or maintenance of the practices, the NRCS will make payments to the participant(s) in the amount(s) described in the Schedule of Operations as outlined in the appendix.
- 2. This agreement is comprised of this Conservation Program Contract form NRCS-CPA-1202, NRCS-CPA-1202 Appendix; NRCS-CPA-1155 Conservation Plan or Schedule of Operations and plan map which are fully incorporated by reference into this document and are binding upon the participant(s). The NRCS-CPA-1155 may be modified (NRCS-CPA-1156) upon agreement of NRCS and the participant and becomes a part of the contract when signed by the NRCS approving official.
- 3. The participant(s) agree: A) to implement and maintain conservation practices identified on the plan map in compliance with the plan or schedule of operations (NRCS-CPA-1155) and in accordance with the standards, specifications, and other special program criteria obtained from the local field office of the NRCS; B) to forfeit further payments under this agreement and refund the United States, in amounts determined by NRCS, payments received hereunder upon NRCS determination that participant(s) have violated the material terms of this agreement or accept such payment adjustments as NRCS may deem appropriate if NRCS decides that the participant's violation does not warrant termination of the agreement; and C) to forfeit all rights to further payments under the agreement and refund to the United States, in amounts determined by NRCS, payments received hereunder if the subject land is transferred to a non-participant during the term of this agreement, unless the third party agrees to assume this agreement, and the NRCS consents to the modification.

4. CONTRACT PARTICIPANTS

Name, Address, Telephone	SSN or TAX ID if applicable
NORTH WILLISTON CATTLE INC 347 FAY LN WILLISTON, VT 05495 (802) 879-5239	*****5628
Signature	Payment Shares 100.00%
Date	
Signature required for modifications ✓ Yes □ No	Signature acceptable for payments ✓ Yes ☐ No

5. CONTRACT OBLIGATIONS

2012	2013	2014		1			Total
\$58,135	\$23,616	\$22,557					\$104,308
						100	\$104,308

6. NRCS APPROVING OFFICIALS

Application Ap	proval	Contract Obligation	
USDA electro	JOHN THURGOOD onic signature; manual signature not re	KATURA WRIGHT quired. USDA electronic signature; manual signature not	t required.
Date:	8/17/2011	Date: 8/18/2011	

NRCS-CPA-1202 OMB 0578-0013 Expires 5/31/2012

CONSERVATION PROGRAM CONTRACT

Partic	cipant:	Program and Contract Number:
NOR	RTH WILLISTON CATTLE INC	EQIP 2008 741644110UH

OMB DISCLOSURE STATEMENT

According to the Paper Work Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 0.69 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

PRIVACY ACT STATEMENT

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	ARTMENT OF AGRICULTURE AL-RESOURCES CONSERVATION SERVICE		CONSER	VATION P	LAN OR S	СНЕР	ULE O	FOPE	RATIO	NS:		,⊙ ₩B	0578-001	NRCS-C 3 Expires :	PA-1 155 5/31/2 012
N	PARTICIPANT ORTH WILLISTON CATTLE INC		COUNTY AND HITTENDEN			PRO		ND CON 2008 741		NUMBEI H	R		UBACC ica's Gre	OUNT at Outdoo	ors
Farm:1	LAND UNITS OR LEGAL DESCR 77 Tract(s):138. Farm:743 Tract(s):789. Farm:8		t(s):940.	W	inooski River-	WATER Huntingt		to Alder l	Brook	ACRE 250.3		EXI	PIRATIO 9/30/2	ON DATE	,
•				-											
Contrac	tItem I: RESIDUE MANAGEMENT, NO-TILL/STI	RIP TÎLL	DIRECT SEE	D(329)		Practice	Lifespan:	l Vear	gi Air.			78	S	tatu s: Plan	med 2013
Manage	organic residue so maximum amounts are left on the soil	surface on	a year-round ba	sis. Plant crops	in narrow slots	or narrow	tilled strip	s in previ	ously unti	led soil.					
Fields: Tract: 9	40 Fields: 6B;											<u></u>			
Contract	Planned Conservation Treatment		Planned	Unit Cost	Cost Share	COMI	PLETION	SCHEDU.	LE AND I	ESTIMAT	ED COST	-SHARE	OR PAY	MENT BY	YEAR
Item			Amount		Rate/Method	2012 \$	2013 \$	2014 \$							
1	RESIDUE MANAGEMENT, NO-TILL/STRIP TILL/D SEED(329)	IRECT	14.3 ac				1,287								
1a	1st Year Management payment, to be used with Waste R Practice (633)	lecycling	14.3 Acre	\$90.0000/ Acre	PR ¹		1,287								
Notes:	Payment rates define the unit cost rate of compensation to	o be receiv	ed by the partic	ipant.											
Contra	Fitem 2: RESIDUE MANAGEMENT, NO-TILL/ST	RIP TILL	DÎRECT SEE	D(329)	- 	Practice	Lifes pan:	1 vc a 1		19-19-1		£ 64	, S	tatus: Plat	ined 2014
Manage	organic residue so maximum amounts are left on the soil	surface on	a year-round ba	sis. Plant crops	in narrow slots	or narrow	tilled stri	os in previ	ously unti	lled soil.			<u> </u>		-1
Fields: Tract: 9	40 Fields: 6B;												-		
Contract	Planned Conservation Treatment		Planned	Unit Cost	Cost Share				LE AND	ESTIMAT	ED COST	-SHARE	OR PAY	MENT BY	YEAR
Item			Amount		Rate/Method	2012 \$	2013 \$	2014 \$							
2	RESIDUE MANAGEMENT, NO-TILL/STRIP TILL/DI SEED(329)	IRECT	14.3 ac					715							
2a	2nd and 3rd Year Management payment, to be used with Recycling Practice (633)	Waste	• 14.3 Acre	\$50.0000/ Acre	PR ¹			715							
Notes:	Payment rates define the unit cost rate of compensation to	o be receiv	ed by the partici	ipant.											
200 A 200 A	t-liem3; COVER CROP(34u)	Winnings					Lifespan:	13000000000000000000000000000000000000		国际公司	uses	-200	<u> </u>	status: Plai	20 (1.1.1 Sept. 1)
	servation practice will be applied annually. Close-grown field is prepared, tilled and seeded in accordance with the														nented

Fields: Tract: 940 Fields: 6B;

(A		The Arthurson of	the state of the second state of the	a sala da compresa de la compresa del la compresa del la compresa del la compresa de la compresa de la compresa de la compresa de la compresa de la compresa della compresa de la compresa de la compresa de la compresa della compresa	or a record to the control		5295	o tokesowa	MINING	210/46/42/4/	and the second second	-=	· · · · · · · · · · · · · · · · · · ·	52 TV 5 K	O
	ARTMENT OF AGRICULTURE AL RESOURCES CONSERVATION SERVICE		CONSER	VATIONI	LAN OR S	CHEDI	ULE O	F ÖBEI	RAT IO	NS		ОМВ (578-0013	NRCS-C1 Expires 5)	
NO	PARTICIPANT ORTH WILLISTON CATTLE INC		COUNTY AND HITTENDEN			PROC			TRACT 1 644110U		R		JBACCC ca's Great	OUNT t Outdoor	'S
arm:17	LAND UNITS OR LEGAL 77 Tract(s):138. Farm:743 Tract(s):789.		(s):940.	w	inooski River-l	WATER: Huntingto		to Alder I	Brook	ACRE 250.3		EXP	IRATIO1 .9/30/20		
ontract	Planned Conservation Treatme	nt . 1	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU	LE AND E	STIMAT	ED COST-	SHARE C	R PAYM	ENT BY	YEAR
Item			Amount		Rate/Method	2012 \$	2013 \$	2014 \$							
1	COVER CROP(340)		14.3 ac			487									
a .	Establish Winter Cover Crop		14.3 Acre	\$34.0000/ Acre	PR¹	487									***
Notes: 1	Payment rates define the unit cost rate of compe	nsation to be receive	ed by the partici	pant.											
Supplied to a series	t I(cm/4}://GÖVER:CROP(340)		59H-900	100		Practice I	920 and 50 A 781 Bit	CC2000			3		<u> </u>	itus: Plani	1000年100日本企业的1000日代
his cons	servation practice will be applied annually. Clos field is prepared, tilled and seeded in accordance	e-grown crops (ie. g e with the following	rass and small a quidelines: Bro	grain) will be p padcast 100 lbs.	lanted in this rov of winter rye or	v crop field winter wh	d to reduc leat per ac	e soil eros re prior to	ion during Oct. 1st. (the winter Recomme	The pracended winter	tice will be er rye varie	considere	ed implemostook)	ented
rields: Fract: 94	10 Fields: 6B;												•		
ontract Item	Planned Conservation Treatme	nt	Planned · Amount	Unit Cost	Cost Share Rate/Method	COMP 2012	LETION 2013	SCHEDU 2014	LE AND E	STIMAT	ED COST	-SHARE (OR PAYM	ENT BY	YEAR
						\$	\$	\$							
}	COVER CROP(340)		14.3 ac	****			487								
la	Establish Winter Cover Crop		14.3 Acre	\$34.0000/ Acre	PR ¹		487								
Notes: 1	Payment rates define the unit cost rate of compe	nsation to be receiv	ed by the partic	ipant.											
	illem 5: MONITORING & FVALUATION	28.1 1				Practi co		1.376(0.646)	S. 18 2	and Thomas and	that we	gar nan san sa	C-012 (C-27-2-2)	atus: Plan	1,000,00
Edge of I	Field Monitoring and Evaluation:Two edge of fi ic sensor or bubbler with data logger. Weather data	eld monitoring facil	ities will be insected at one of the	talled as part of he facilities. Th	a paired watersle minimum wea	ned study. ther data c	Flow mor	nitoring wi	ll be perfo fall (data l	rmed by a	flume or v	veir with d	lepth meas ge) and air	urement b	y ire. All
nonitori	ing plans must meet the criteria provided in the 7 study area and one as the Treatment study area.	99 Monitoring and	Evaluation Con	servation Pract	ice Standard. Tw	o flow me	asuremen	t and wate	r quality sa	ample coll	ection stat	ion will be	establishe	ed, one as t	the 🔍
lata and	historic farm field management and existing pradument the activities have been completed. This	ctices will be perfor	rmed. Installatio	on and Field Ch	aracterization Re	eport:A rep	port of Ed	ge of field	monitorin	g installat	ion activiti	es and fiel	d characte	rization w	ill be
F ields: Fract: 94	40 Fields: 6B;				-		•								
Contract	Planned Conservation Treatme	ent	Planned	Unit Cost	Cost Share				LE AND I	ESTIMAT	ED COST	-SHARE (OR PAYM	ENT BY	YEAR
Item	•		Amount		Rate/Method	2012 \$	2013 \$	2014 \$							
5	MONITORING & EVALUATION(799)		1 no			37,125									
5 a	Monitoring Device Installation		1 Number	\$37,125.000 0 Number		37,125									
Notes:	Payment rates define the unit cost rate of compe	ensation to be receiv	ed by the partic	inant											

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVIC	E CONSERVATI	ON PLAN OR S	CHEDULE OF OPERATIO	NS *	NRGS-CPA-1155 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT NORTH WILLISTON CATTLE INC	COUNTY AND STAT CHITTENDEN County,		PROGRAM AND CONTRACT EQIP 2008 741644110U		SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL Farm:177 Tract(s):138. Farm:743 Tract(s):789.			WATERSHED Huntington River to Alder Brook	ACRES 250.3	EXPIRATION DATE 9/30/2015

Contract Item 6: WASTE RECYCLING(633)

Practice Lifespan: J

Status: Planned 2012

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

Fields:

Tract: 138 Fields: 2, 3, 16, 29, 46; Tract: 940 Fields: 1A, 5, 6;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU	LE AND	STIMAT	ED COS	Γ-SHARE	OR PAYN	MENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
L					\$	\$\$	\$			1				
6	WASTE RECYCLING(633)	215.6 ac			8,193									
6a	Inject or Incorporate Manure	215.6 Acre	\$38.0000/	PR ¹	8,193						1	Į	l	
	·		Acre										İ	1

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 7: WASTE RECYCLING(633)

Practice Tifespan: I veau

Status: Planned 2013

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

Fields:

Tract: 138 Fields: 2, 3, 16, 29, 45, 46; Tract: 940 Fields: 1A, 5, 6, 6B;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDUI	LE AND I	ESTIMAT	ED COST	-SHARE	OR PAYN	IENT BY	YEAR
Item.		Amount		Rate/Method	2012	2013	2014							
<u> </u>		L			\$	\$_	\$							lT
7	WASTE RECYCLING(633)	250.3 ac				9,512								
7a	Inject or Incorporate Manure	250.3 Acre	\$38.0000/	. PR ¹		9,512						ļ		
L			Acre								<u> </u>	<u> </u>	<u> </u>	

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 8: WASTE RECYCLING(633)

Practice Lifespan: Lyear

Status: Planned 2014

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

Fields:

Tract: 138 Fields: 2, 3, 16, 29, 45, 46; Tract: 940 Fields: 1A, 5, 6, 6B;

	ARTMENT OF AGRICULTURE L RESOURCES CONSERVATION SERVICE			N PLAN OR S		8	38	Survey	103	à la		- <u>12</u> 13.X	NRGS-GI	
NO	PARTICIPANT DRTH WILLISTON CATTLE INC	COUNTY AI CHITTENDEN			PROG	RAM AN EQIP 2	ND CON 2008 741			R.		JBACCO ca's Great	UNT Outdoor	s
rm:17	LAND UNITS OR LEGAL 7 Tract(s):138. Farm:743 Tract(s):789.			Winooski River-	WATER: Huntingto		o Alder E	Brook	ACRE 250.3		EXP	1RATION 9/30/20		
								٠						
ntract	Planned Conservation Treatme	nt Planned	Unit Cos	st Cost Share	COMP	LETION S	CHEDUI	E AND E	STIMAT	ED COST	-SHARE C	R PAYM	ENT BY	YEAR
(tem	Trained Conservation Treatme	Amount		Rate/Method	2012 \$	2013 \$	2014 \$			i				
	WASTE RECYCLING(633)	250.3 a	c				9,512							
ı	Inject or Incorporate Manure	250.3 Acr		000/ Acre			9,512	!					,	
otes: 1	Payment rates define the unit cost rate of compe	ensation to be received by the part	icipant.											
ontrac	t Item 9: MONITORING & EVALUATION	(799)			Practice	Lifespan:	Lycar	55	-			Št	a tus: Plan	ned 2 012
ampling	g will be conducted year round when feasible. T and transported to the laboratory in a timely fared sed sediments using approved scientific methods.	he flow monitoring device and au	maintained. V	Water samples will b	e analyzed	for total p	hosphorus	s, dissolve	d phospho	rus, total :	nitrogen, di	ssolved ni	trogen and	e l total
ields:	10 Fields: 6B;	Water bampre, 10 Water and out		- F	1		1						1	
ontract	Planned Conservation Treatme	ent Planned	Unit Co	ost Cost Share	COMP	LETION	SCHEDU	LE AND	ESTIMAT	ED COST	-SHARE (OR PAYM	ENT BY	YEAR
Item	· I faimed Conservation From	Amount		Rate/Method	2012 \$	2013 \$	2014 \$		/					
	MONITORING & EVALUATION(799)	1 n	0 .		5,790	·								
a	Event Sampling, Samples 1 thru 10	1 Number		000 / PR ¹ mber	5,790			•						
lotes:	Payment rates define the unit cost rate of comp	ensation to be received by the par	icipant.							<u> </u>				
	t Item 10: MONITORING & EVALUATIO		Grand and a state			Lifesp:m:	AH -355 _ '	g a	***	56X 1	ž		itus: Plar	t Mad Distriction
-114	g will be conducted year round when feasible. I if and transported to the laboratory in a timely fa ed sediments using approved scientific methods	chion A cample log book will be	maintained '	Water samples will l	e analyze	d for total i	phosphoru	ıs, dissolv	ed phosphe	orus, total	nitrogen, d	issolved n	itrogen an	d total
ract: 9	40 Fields: 6B;						:							,
ontract	Planned Conservation Treatm		Unit Co					LE AND	ESTIMA7	TED COS	T-SHARE	OR PAYM	IENT BY	YEAR
Item		Amount		Rate/Method	2012 \$	2013	2014 \$				·	,		
.0	MONITORING & EVALUATION(799)	1 :				5,790	1 .							
0a,	Event Sampling, Samples 1 thru 10			0000 / PR	<u> </u>	5,790								
Notes:	¹ Payment rates define the unit cost rate of comp	ensation to be received by the par	ticipant.											

JS DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVI	CONSERVATION	ON PLAN OR S	CHEDULE OF OPERATIO	NS	NRGS GPA:1155 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT NORTH WILLISTON CATTLE INC	COUNTY AND STAT CHITTENDEN County,		PROGRAM AND CONTRACT EQIP 2008 741644110U	- · · · · · · · · · · · · · · · · ·	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL Farm:177 Tract(s):138. Farm:743 Tract(s):789		Winooski River-	WATERSHED Huntington River to Alder Brook	ACRES 250.3	EXPIRATION DATE 9/30/2015

Contract Item 11: MONITORING & EVALUATION (799)

Practice Lifespan: Lyc

Status: Planned 2014

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 940 Fields: 6B:

1 1	
1 1	· '
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Notes: 1Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 12: MONITORING & EVALUATION(799)

Practice Lifespan Proveaus and

Status: Planned 2012

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 940 Fields: 6B;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU	LE AND I	ESTIMAT	ED COST	-SHARE	OR PAYM	MENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
		,			\$	\$	\$		1		Ì		1	1 1
12	MONITORING & EVALUATION(799)	1 no			5,790									
12a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 /	PR!	5,790				ŀ					l . T
			Number							ł		<u> </u>		<u> </u>

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 13: MONITORING & EVALUATION(799)

Practice Lifespan: Livear 1875

Status: Planned 2013

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 940 Fields: 6B;

	ARTMENT OF AGRICULTURE AL RESOURCES CONSERVATION SERVICE	CONSER	VATION F	LAN OR S	CHÉDU	ULE O	FOPE	RAYPTO	NS 🎎		OMB)578-(N)13	NRCS-6 Expires 5	
<u> </u>	PARTICIPANT ORTH WILLISTON CATTLE INC	COUNTY AN CHITTENDEN			PROG		ND CON 2008 741		NUMBEI H	2	SI	UBACCO		- 11 - 12 - 13 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15
arm:17	LAND UNITS OR LEGAL DESC. 77 Tract(s):138. Farm:743 Tract(s):789. Farm		W	WATERSHED ACRES Winooski River-Huntington River to Alder Brook 250.3							EXP	9/30/20		
								-						
ontract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	LETION : 2013 \$	SCHEDUI 2014 \$	LE AND I	ESTIMATI	ED COST-	-SHARE C	OR PAYM	ENT BY	YEAR
3 3a	MONITORING & EVALUATION(799) Event Sampling, Samples 11 thru 20	1 no 1 Number	\$5,790.0000 / Number	PR¹		5,790 5,790								
Votes:	Payment rates define the unit cost rate of compensation	to be received by the partic	ipant.	·										,
Contrac	t Item 14: MONITORING & EVALUATION(799)				Prac ții e l	Lifespan;	Vear a					a William	ātus ! Plaņ	ned*2014
ollected uspende Fields:	g will be conducted year round when feasible. The flow and transported to the laboratory in a timely fashion. A ed sediments using approved scientific methods. Water 40 Fields: 6B;	sample log book will be m	aintained. Wate	r samples will be	analyzed	for total	hosphorus	s, dissolve	d phospho	rus, total n	itrogen, di	issolved n	itrogen and	d total
Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	LETION 2013 \$	SCHEDUI 2014 \$	LE AND	ESTIMAT	ED COST	-SHARE (OR PAYM	IENT BY	YEAR
14	MONITORING & EVALUATION(799)	1 no					5,790							
14a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR ¹			5,790					,	'	
Notes:	Payment rates define the unit cost rate of compensation	to be received by the partic	J	<u> </u>				I						
Contra	ef Item 15: MONITORING & EVALUATION (799)				Practice	Lifespān;	il yéar					si	atus. Plar	ined 2012.
Measure	e the effectiveness of conservation practices and system	s, and/or provide data for m	odel developme	nt, verification, a	and validat	tion for us	e of result	s in non-n	nonitored fi	elds using	g acceptabl	le tools an	d protocol	S.
Fields: Tract: 9	40 Fields: 6B;													
Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	2013 \$	SCHEDU 2014 \$	LE AND	ESTIMAT	ED COST	S-SHARE	OR PAYN	MENT BY	YEAR
15	MONITORING & EVALUATION(799)	1 no			750									
15a	Annual Field Management Data Collection	1 Number	Number		750									
Notes:	Payment rates define the unit cost rate of compensation	n to be received by the parti	cipant.										•	

Measure the effectiveness of conservation practices and systems, and/or provide data for model development, verification, and validation for use of results in non-monitored fields using acceptable tools and protocols.

Contract Item 16: MONITORING & EVALUATION (799)

Practice Lifespan: Exeau

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICES	CONSERVATI	ON PLAN OR S	CHEDULE OF OPERATIO	NS .	NR ES_C PA 11 55 QMB 0578-0013 Expires 5/31/ 2012
PARTICIPANT NORTH WILLISTON CATTLE INC	COUNTY AND STATE CHITTENDEN County,		PROGRAM AND CONTRACT EQIP 2008 741644110U		SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAI Farm:177 Tract(s):138. Farm:743 Tract(s):789			WATERSHED Huntington River to Alder Brook	ACRES 250.3	EXPIRATION DATE 9/30/2015

Fields: Tract: 94	40 Fields: 6B;													
Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	LETION S 2013 \$	SCHEDUL 2014 \$	E AND E	STIMAT	ED COST	-SHARE	OR PAY	MENT BY	YEAR
16	MONITORING & EVALUATION(799)	1 no				750								
16a	Annual Field Management Data Collection	1 Number	\$750.0000/ Number	PR ¹		750		ì		, I				
Notes:	Payment rates define the unit cost rate of compensation to be rece		pant.		·						·			<u> </u>
Contrac Measure			pant.	3 45	Practice and validat			in non-m	onitored fi	ields usin	g acceptab		tatus: Pla id protocol	198 199 3 g 199
Contrac Measure Fields:	t Item 17: MONITORING & EVALUATION(799)		pant.	3 45				in non-m	onitored fi	ields usin	g acceptab			198 199 3 g 199
Contrac Measure Fields:	et Item 17: MONITORING & EVALUATION(799) the effectiveness of conservation practices and systems, and/or practices (6B;		pant.	3 45	and validat	ion for use	of results				g acceptab	le tools ar	nd protoco	S.
Contrac Measure Fields: Tract: 94	et Item 17: MONITORING & EVALUATION(799) the effectiveness of conservation practices and systems, and/or practices (6B;	ovide data for mo	pant. del developmer	at, verification, a	and validat	ion for use	of results					le tools ar	nd protoco	S.
Contrac Measure Fields: Tract: 94 Contract Item	et Item 17: MONITORING & EVALUATION(799) the effectiveness of conservation practices and systems, and/or practices (6B;	ovide data for mo	pant. del developmer	at, verification, a	and validat	ion for use	of results					le tools ar	nd protoco	S.

US DEPARTMENT OF AGRICULTURE. NATURAL RESOURCES CONSERVATION	M GERALOR	CONSERVA	FION PLAN	OR SCHEDULE (OF OPERATIO	NS S		NRCS-GPA-1155 01. Expires 5/31/2012			
PARTICIPANT NORTH WILLISTON CATTLE		COUNTY AND ST CHITTENDEN Cour			AND CONTRACT P 2008 741644110U		SUBAC	CCOUNT Great Outdoors			
LAND UNITS C Farm:177 Tract(s):138. Farm:743 Tr	OR LEGAL DESCRIPTIO act(s):789. Farm:885 Ti	Winooski I	WATERSHED Liver-Huntington River		TION DATE 0/2015						
	Tuesday Control (Cont	The spine of the spine.	Total Co	st-Share or Payloo	ant by Vaar			Total			
	Year 2012 Amount(\$) \$58,135	2013 2014 \$23,616 \$22,5	1	SI-SHATE OF TAI,711	ent by Tean *			Contract Payment \$104,308			
NOTES: A. All items numbers on form N B. When established, the conser C. All cost share rates are based AA = Actual cost not to D. By signing, the participant ac Certification of Participants	vation practices identified by on average cost (AC) with the exceed average cost; FR = Fl	the numbered items mus e following exceptions: at Rate; NC = Non cost-s	t be maintained by shared; AM = Actua	he participant at no cost to I cost not to exceed a spe	ecified maximum; PR	= Payment rates. and conditions here	e of.				
Signature NORTH WILLISTON CATTLE INC	Date	Signature	<u> </u>	Date	Signature			Date			
Signatures of Reviewing Officials District Conservationist - Technical Adec Signature:	quacy Certification		Sign	CS Approving Official nature: KATURA WRI		ot required.	*				
Date:	;		Dat	Date: 8/18/2011							

PUBLIC BURDEN STATEMENT

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collections is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

PRIVACY ACT

The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C 522a). Furnishing this information is voluntary; however failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

USDA NON-DISCRIMINATION STATEMENT

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer."

CONSERVATION PROGRAM CONTRACT

Participant: SHELBURNE FARMS	Program and Contract Number: EQIP 2008 741644110UI
County and State: CHITTEN DEN County, VT	Subaccount: America's Great Outdoors
Watershed: Little Chazy River	This agreement is effective on the date signed by the Natural Resources Conservation Service approving official and extends through 9/30/2015

- 1. The undersigned participants enter into this contract with the Natural Resources Conservation Service (NRCS) to implement and or maintain specific conservation practices, as set forth in the Conservation Plan or Schedule of Operations (NRCS-CPA-1155), on the property as identified on the plan map. In consideration for the implementation and or maintenance of the practices, the NRCS will make payments to the participant(s) in the amount(s) described in the Schedule of Operations as outlined in the appendix.
- 2. This agreement is comprised of this Conservation Program Contract form NRCS-CPA-1202, NRCS-CPA-1202 Appendix; NRCS-CPA-1155 Conservation Plan or Schedule of Operations and plan map which are fully incorporated by reference into this document and are binding upon the participant(s). The NRCS-CPA-1155 may be modified (NRCS-CPA-1156) upon agreement of NRCS and the participant and becomes a part of the contract when signed by the NRCS approving official.
- 3. The participant(s) agree: A) to implement and maintain conservation practices identified on the plan map in compliance with the plan or schedule of operations (NRCS-CPA-1155) and in accordance with the standards, specifications, and other special program criteria obtained from the local field office of the NRCS; B) to forfeit further payments under this agreement and refund the United States, in amounts determined by NRCS, payments received hereunder upon NRCS determination that participant(s) have violated the material terms of this agreement or accept such payment adjustments as NRCS may deem appropriate if NRCS decides that the participant's violation does not warrant termination of the agreement; and C) to forfeit all rights to further payments under the agreement and refund to the United States, in amounts determined by NRCS, payments received hereunder if the subject land is transferred to a non-participant during the term of this agreement, unless the third party agrees to assume this agreement, and the NRCS consents to the modification.

4. CONTRACT PARTICIPANTS

Name, Address, Telephone	SSN or TAX ID if applicable								
SHELBURNE FARMS	*****9347								
1611 HARBOR RD SHELBURNE , VT 05482 (802) 985-2348									
Signature	Payment Shares								
	100.00%								
Date									
Signature required for modifications ✓ Yes □ No	Signature acceptable for payments ✓ Yes □ No								

5. CONTRACT OBLIGATIONS

2012	2013	2014				Total
\$49,455	\$12,919	\$12,919				\$75,293
A.						\$75,293

6. NRCS APPROVING OFFICIALS

Application Appro	val	Contract Obligation	ĺ
	JOHN THURGOOD	HEATHER WETZSTEIN	ļ
USDA electronic	signature; manual signature not re	uired. USDA electronic signature; manual signature not req	uired.
			ĺ
Date:	8/18/2011	Date: 8/25/2011	

NRCS-CPA-1202 OMB 0578-0013 Expires 5/31/2012

CONSERVATION PROGRAM CONTRACT

Participant:	Program and Contract Number:
SHELBURNE FARMS	EQIP 2008 741644110UI

OMB DISCLOSURE STATEMENT

According to the Paper Work Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 0.69 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

PRIVACY ACT STATEMENT

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NONDISCRIMINATION STATEMENT

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US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	CONSERVATIO	ON PLAN OR S	CHEDULE OF OR	ERATIO	NS .	NRCS*CPA-1155 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT SHELBURNE FARMS	COUNTY AND STAT CHITTENDEN County,		PROGRAM AND CO EQIP 2008 7			SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL Farm:1718 Tract(s):1935.	DESCRIPTION		WATERSHED ttle Chazy River		ACRES 15.5	EXPIRATION DATE 9/30/2015

Contract Item 1: MONITORING & EVALUATION(799)

Practice Lifespan; Jycar

Status: Planned 2012

Edge of Field Monitoring and Evaluation: Two edge of field monitoring facilities will be installed on Fields 11A and 30 as part of a paired watershed study. Flow monitoring will be performed by a flume or weir with depth measurement by ultrasonic sensor or bubbler with data logger. Weather data will also be collected at one of the facilities. The minimum weather data collected will be rainfall (data logging tipping bucket rain gauge) and air temperature. All monitoring plans must meet the criteria provided in the 799 Monitoring and Evaluation Conservation Practice Standard. Two flow measurement and water quality sample collection station will be established, one as the Control study area and one as the Treatment study area. The emphasis will be on evaluating nutrient transport from the field(s). A one-time collection of data including watershed topographic information, site characteristic data and historic farm field management and existing practices will be performed. Installation and Field Characterization Report: A report of Edge of field monitoring installation activities and field terization will be submitted when the activities have been completed. This report is the documentation that the monitoring station is installed. All reports will be submitted in electronic format compatible with Microsoft atter programs.

Fields:

Tract: 1935 Fields: 11A;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU	LE AND	ESTIMAT	ED COST	-SHARE (OR PAYM	IENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
					\$\$	\$	\$							i '
1	MONITORING & EVALUATION(799)	1 no			37,125									
la	Monitoring Device Installation	1 Number	\$37,125.000 0/	PR ¹	37,125			ı.	1					i i
			Number											i . '
Nindon	Notice Downsont rates define the unit east rate of componentian to be received by the neutrineant													

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 2: MONITORING & EVALUATION(799)

Practice Lifespan: 1

Status: Planned 2012

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 1935 Fields: 11A;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU	LE AND I	ESTIMAT	ED COST	-SHARE	OR PAYM	MENT BY	YEAR
To.	,	Amount		Rate/Method	2012	2013	2014							
<u> </u>					\$	\$	\$							
2	MONITORING & EVALUATION(799)	1 no		,	5,790									
2a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 /	PR ¹	5,790	į			1	`				
			Number											

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 3: MONITORING & EVALUATION(799)

Practice Lifespan: Lyear

Status: Planned 2013

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 1935 Fields: 11A;

	ARTMENT OF AGRICULTURE: AL RESOURCES CONSERVATION SERVICE	⁶	ONSERV	VATION P	LAN OR S	CHÉĎI	ALE Ø	FOREI	RA TIO	Vs.			5/8-0016	NR ES -C Expires 5	PA-14155; 31/2012
	PARTICIPANT SHELBURNE FARMS		JNTY ANI TENDEN (O STATE County, VT		PROG		ND CON 2008 741			₹		JBACCC ca's Great	OUNT t Outdoor	rs
arm:17	LAND UNITS OR LEGAL DE 18 Tract(s):1935.	SCRIPTION				WATERS ittle Chaz				ACRE 15.5	S	EXP	1RATIO1 9/30/20		
ontract	Planned Conservation Treatment	i .	Planned	Unit Cost	Cost Share		LETION S	SCHEDUI	E AND E	STIMATE	ED COST-	-SHARE C	R PAYM	ENT BY	YEAR
Item		A	Amount	,	Rate/Method	2012 \$	2013 \$	2014 \$							
í	MONITORING & EVALUATION(799) Event Sampling, Samples 1 thru 10		1 no 1 Number	\$5,790.0000 /	PR ¹		5,790 5,790					-		_	
10cm: 1	Payment rates define the unit cost rate of compensa	tion to be received by	y the partici	Number pant.				1				·			
等的点类形似	Titem 4: MONITORING & EVALUATION (79		**			l'ractice l	20 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	巴拉斯尼亚特拉拉拉			THE CONTRACT OF	Kerj.	เลิก ครูกระการที่สำนักระ	的现在分词	2000年1月1日 (1970年)
ollected	g will be conducted year round when feasible. The f and transported to the laboratory in a timely fashion d sediments using approved scientific methods. Wa	n. A sample log bool	k will be ma	intained. Water	r samples will be	analyzed	for total p	hosphorus	, dissolved	hosphoi	rus, total n	nitrogen, di	ssolved ni	trogen and	d total
rields:	35 Fields: 11A;											•			
ontract Item	Planned Conservation Treatment	I	Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	LETION S 2013 \$	SCHEDUI 2014 \$	LE AND E	STIMATI	ED COST	-SHARE C	OR PAYM	ENT BY	YEAR
	MONITORING & EVALUATION(799)		1 no					5,790							
a	Event Sampling, Samples 1 thru 10		1 Number	\$5,790.0000 / Number	PR ¹			5,790							
lotes:	Payment rates define the unit cost rate of compensa	tion to be received b	y the partici	ipant.											
100	filtem 5: MONITORING & EVALUATION (79	·			**************************************	in antibode	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	/eas	200			新产品,用的 (450mm	克里达到1000000000000000000000000000000000000	atus: Plai	14. 大学の東京の大学
er fed	g will be conducted year round when feasible. The f I and transported to the laboratory in a timely fashio ed sediments using approved scientific methods. Wa	n. A sample log book	k will be ma	aintained. Wate	r samples will be	e analyzed	for total	phosphoru	s, dissolve	d phospho	rus, total r	nitrogen, di	issolved n	itrogen an	d total
ields:	935 Fields: 11A;							·	•						
Contract Item	Planned Conservation Treatment		Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	2013 \$	SCHEDU 2014 \$	LE AND E	STIMAT	ED COST	-SHARE (OR PAYM	IENT BY	YEAR
	MONITORING & EVALUATION(799)		1 no			5,790		-						<u> </u>	
ia	Event Sampling, Samples 11 thru 20		1 Number	\$5,790.0000 / Number	PR1	5,790					<u> </u>				

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVIC	CONSERVATIO	ON PLAN OR S	CHEDULE OF OPPRATIO	NS .	* NRCS CPA-1155 OMB 0578-0018 Expires 5/31/2012
PARTICIPANT SHELBURNE FARMS	COUNTY AND STAT CHITTENDEN County,		PROGRAM AND CONTRACT EQIP 2008 741644110U	- ·	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL Farm: 1718 Tract(s): 1935.	DESCRIPTION		WATERSHED ittle Chazy River	ACRES 15.5	EXPIRATION DATE 9/30/2015

Contract Item 6: MONITORING & EVALUATION (799)

Practice Lifespan:

Status: Planned 2013

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 1935 Fields: 11A;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDU	E AND I	ESTIMA	TED COS	Γ-SHARE	OR PAYM	MENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
					\$	\$	\$				<u> </u>		\ \	İ
6	MONITORING & EVALUATION(799)	1 no				5,790								
6a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 /	PŘ¹		5,790			Į.	ļ.		ĺ	ļ	1
L			Number								1			

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 7: MONITORING & EVALUATION(799)

Practice Lifespan: Tyea,

Status: Planned 2014

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 1935 Fields: 11A;

Contract	Planned Conservation Treatment	Planned Unit Cost		Cost Share	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YE						YEAR		
Item		Amount		Rate/Method	2012	2013	2014						ſ
					\$	\$	\$						ĺ
7	MONITORING & EVALUATION(799)	1 no					5,790						
7a -	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000/	PR ¹			5,790				1		
			Number									 	

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 8: MONITORING & EVALUATION(799)

Practice Litespan : levear

Status: Planned 2012

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation. Data will be collected continuously through the year as farming activities are completed.

Fields:

Tract: 1935 Fields: 11A;

	RTMENT OF AGRICULTURE LERESOURCES CONSERVATION SERVIC	<u>. 11 - 1 - 11 - 1 - 1 - 1 - 1 - 1 - 1 - </u>			PLAN OR S			- 124	ì.	N N N N N N N N N N N N N N N N N N N			2 200	NRCS-C Expires 5	P A-11 55
	PARTICIPANT SHELBURNE FARMS		COUNTY ANI IITTENDEN (PROC		ND CON 2008 741		NUMBEI JI	R		JBACCO ca's Grea	DUNT t Outdoor	s
arm:17	LAND UNITS OR LEGAL 18 Tract(s):1935.	DESCRIPTION				WATER				ACRE 15.5		EXP	IRATIO 9/30/20	N DATE 115	
ontract	Planned Conservation Treatme	ent	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDUI	LE AND	ESTIMATI	ED COST	-SHARE C	R PAYM	IENT BY	YEAR
Item			Amount		Rate/Method	2012 \$	2013 \$	2014 \$							
	MONITORING & EVALUATION(799) Annual Field Management Data Collection		1 no 1 Number	\$750.0000 Numbe		750 750									
16001: I	Payment rates define the unit cost rate of comp	ensation to be receive	ed by the partici	pant.						······································		·		······································	
Contrac	t Item %: MONITORING & EVALUATION	i(799)			200	Practice	Lifespan:	1 year	y 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	E Esciet.			St	atus: Plan	ned 2013
ield Ma omplete	nagement Log: This work includes the annual od.	collection of data incl	luding farm fiel	l managemer	t and practice imp	lementatio	on. Data w	vill be colle	ected con	tinuously th	hrough the	year as fa	ming acti	ivities are	
ract: 19	35 Fields: 11A;														
Contract Item	Planned Conservation Treatme	ent .	Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	LETION 2013	SCHEDU 2014 \$	LE AND	ESTIMAT	ED COST	-SHARE (OR PAYM	MENT BY	YEAR
)	MONITORING & EVALUATION(799)		1 no				750								
	Annual Field Management Data Collection		1 Number	\$750.000 Numb	I .		750								
Notes: 1	Payment rates define the unit cost rate of comp	ensation to be receive	ed by the partic	pant.											
	t Item 10: MONITORING & EVALUATIO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		i dan di		250	Lifespan	2E 16/	<u> 1865 </u>				加州城市的市场	tā t us: Plan	med 2014
ield Ma complete	anagement Log: This work includes the annual ed.	collection of data inc	luding farm fiel	d managemer	nt and practice imp	olementati	on. Data v	vill be coll	ected con	tinuously ti	hrough the	year as fa	rming acti	ivities are	
Fields): Pract: 19	935 Fields: 11A;														
Contract Item	Planned Conservation Treatm	ent	Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	2013 \$	SCHEDU 2014 \$	LE AND	ESTIMAT	ED COST	-SHARE (OR PAYN	MENT BY	YEAR
10	MONITORING & EVALUATION(799)		1 no					750							
10a	Annual Field Management Data Collection		1 Number	\$750.000 Numb	II			750			<u></u>				
Vators	Dayment rates define the unit cost rate of comm	sencation to be receive	ed by the partic	inant											

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	CONSERVATIO	ON PLAN <mark>OR</mark> S	CHEDULE OF OPERATIO	NS	OMB 0578-0013 Expires 5/31/2012
PARTICIPANT SHELBURNE FARMS	TE VT	PROGRAM AND CONTRACT EQIP 2008 7416441100		SUBACCOUNT America's Great Outdoors	
LAND UNITS OR LEGAL DES Farm:1718 Tract(s):1935.	I	WATERSHED ittle Chazy River	ACRES 15.5	EXPIRATION DATE 9/30/2015	

Contract Item 11: WASTE RECYCLING(633)

Practice Lifespan: 1 vear

Status: Planned 2013

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

Fields:

子 1935 Fields: 11A;

Comact	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDU	LE AND I	ESTIMAT	ED COST	-SHARE	OR PAYM	MENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
					\$	\$	\$	ŀ		}	1			
11	WASTE RECYCLING(633)	15.5 ac				589								
lla	Inject or Incorporate Manure	15.5 Acre	\$38.0000/	PR ¹		589					1			
L			Acre							Ĺ				

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 12: WASTERECYCLING(633)

Practice Lifespan: 1 years Status Planned

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

Fields:

Tract: 1935 Fields: 11A;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDUI	E AND E	STIMAT	ED COST	-SHARE (OR PAYM	IENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
					\$	\$	\$				1 1			
1.7	WASTE RECYCLING(633)	15.5 ac					589							
12a-	Inject or Incorporate Manure	15.5 Acre	\$38.0000/	PR ¹		, i	589			ł				
			Acre	,			į į	Į.		1			i	

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

S DEPARTMENT OF AGRICULTURE ATURAL RESOURCES CONSERVATI			CONSI	ERVATIO	N PLA	N OR SCHE	DU LE O	PERAT	MONS *	OMI	NRCS-CPA≇1155 0578-0013 Expires 5/31/2012
PARTICIPANT SHELBURNE FARMS			COUNTY A	AND STATI EN County, V		PR		ND CONTRAC 2008 7416441			SUBACCOUNT rica's Great Outdoors
LAND UNITS (arm:1718 Tract(s):1935.	OR LEGAL DE	SCRIPTION	٧				ERSHED Chazy River		ACRES	EX	PIRATION DATE 9/30/2015
NOTES: A. All items numbers on form N B. When established, the conser C. All cost share rates are based AA = Actual cost not to D. By signing, the participant ac	vation practices in on average cost (exceed average o	dentified by t (AC) with the cost; FR = Fla	he numbered in following exc at Rate; NC = N	tems must be i eptions: Von cost-share	t to prevent maintained	by the participan ctual cost not to	t at no cost to	o the government.	PR = Payment r	ates.	Total Contract Payment \$75,293
Certification of Participants	nie Wyme gwyd		14 - 14 - 14 - 18 1 8 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -	v	proper ye	eg are transport		restant become		70 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	(a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
Signature SHELBURNE FARMS	Dat	e	Signature				Date	Signature			Date
Signatures of Reviewing Officials	<u> </u>				· · · · · ·	NOS		Sec. 1			
District Conservationist - Technical Ade Signature:	quacy Certificat	ion			1	NRCS Approvin Signature: HEA USDA electroni	THER WE	TZSTEIN manual signatur	e not required.		
Date:						Date: 8/25/2011					

PUBLIC BURDEN STATEMENT

\\frac{\gamma}{\gamma}\text{ ding to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid control number for this information collections is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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CONSERVATION PROGRAM CONTRACT

Participant: WOODNOTCH FARMS INC	Program and Contract Number: EQIP 2008 741644110UP
County and State: ADDISON County, VT	Subaccount: America's Great Outdoors
Watershed: East Creek	This agreement is effective on the date signed by the Natural Resources Conservation Service approving official and extends through 9/30/2015

- 1. The undersigned participants enter into this contract with the Natural Resources Conservation Service (NRCS) to implement and or maintain specific conservation practices, as set forth in the Conservation Plan or Schedule of Operations (NRCS-CPA-1155), on the property as identified on the plan map. In consideration for the implementation and or maintenance of the practices, the NRCS will make payments to the participant(s) in the amount(s) described in the Schedule of Operations as outlined in the appendix.
- 2. This agreement is comprised of this Conservation Program Contract form NRCS-CPA-1202, NRCS-CPA-1202 Appendix; NRCS-CPA-1155 Conservation Plan or Schedule of Operations and plan map which are fully incorporated by reference into this document and are binding upon the participant(s). The NRCS-CPA-1155 may be modified (NRCS-CPA-1156) upon agreement of NRCS and the participant and becomes a part of the contract when signed by the NRCS approving official.
- The participant(s) agree: A) to implement and maintain conservation practices identified on the plan map in compliance with the plan or schedule of operations (NRCS-CPA-1155) and in accordance with the standards, specifications, and other special program criteria obtained from the local field office of the NRCS;

 B) to forfeit further payments under this agreement and refund the United States, in amounts determined by NRCS, payments received hereunder upon NRCS determination that participant(s) have violated the material terms of this agreement or accept such payment adjustments as NRCS may deem appropriate if NRCS decides that the participant's violation does not warrant termination of the agreement; and C) to forfeit all rights to further payments under the agreement and refund to the United States, in amounts determined by NRCS, payments received hereunder if the subject land is transferred to a non-participant during the term of this agreement, unless the third party agrees to assume this agreement, and the NRCS consents to the modification.

4. CONTRACT PARTICIPANTS

WOODNO 245 BARN	dress, Telepot Christian Farming William Hill REAM VT 058201	S INC		•	1	or TAX ID *0261	if applicab	le			
Signature Date		n C	No	d pa	esny	Payı 100	nent Share .00%	s .			
Signature	required for	modification	ons 🗸 Ye	s 🗆 No		Sign	ature acce	ptable for p	payments	✓ Yes □	No
5. CO	NTRACT O	BLIGATIO	NS			,					
2012	2013	2014	!								Total
\$63,341	\$26,934	\$26,934									\$117,209
											\$117,209
6. NR	CS APPRO	VING OFF	ICIALS								
Application	n Approval					Con	rzict Obliga	tion			
USDA ele		JOHN THUI nature; man		ıre not requ	uired.					, eta	· · · · · · · · · · · · · · · · · · ·
Date:		8/18/2	011			Date	:	· ·			

NRCS-CPA-1202 OMB 0578-0013 Expires 5/31/2012

CONSERVATION PROGRAM CONTRACT

Participant:	Program and Contract Number:
WOODNOTCH FARMS INC	EQIP 2008 741644110UP

OMB DISCLOSURE STATEMENT

According to the Paper Work Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 0.69 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

PRIVACY ACT STATEMENT

The above statements are made in accordance with the Privacy Act of 1974 (U.S.C. 522a). Furnishing this information is voluntary; however, failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

NONDISCRIMINATION STATEMENT

The United States Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room326-W, Whitten Building, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (202) 720-5964.

CONSERVATION PROGRAM CONTRACT

Participant: WOODNOTCH FARMS INC	Program and Contract Number: EQIP 2008 741644110UP
County and State: ADDISON County, VT	Subaccount: America's Great Outdoors
Watershed: East Creek	This agreement is effective on the date signed by the Natural Resources Conservation Service approving official and extends through 9/30/2015

- 1. The undersigned participants enter into this contract with the Natural Resources Conservation Service (NRCS) to implement and or maintain specific conservation practices, as set forth in the Conservation Plan or Schedule of Operations (NRCS-CPA-1155), on the property as identified on the plan map. In consideration for the implementation and or maintenance of the practices, the NRCS will make payments to the participant(s) in the amount(s) described in the Schedule of Operations as outlined in the appendix.
- 2. This agreement is comprised of this Conservation Program Contract form NRCS-CPA-1202, NRCS-CPA-1202 Appendix; NRCS-CPA-1155 Conservation Plan or Schedule of Operations and plan map which are fully incorporated by reference into this document and are binding upon the participant(s). The NRCS-CPA-1155 may be modified (NRCS-CPA-1156) upon agreement of NRCS and the participant and becomes a part of the contract when signed by the NRCS approving official.
- 3. The participant(s) agree: A) to implement and maintain conservation practices identified on the plan map in compliance with the plan or schedule of operations (NRCS-CPA-1155) and in accordance with the standards, specifications, and other special program criteria obtained from the local field office of the NRCS; B) to forfeit further payments under this agreement and refund the United States, in amounts determined by NRCS, payments received hereunder upon NRCS determination that participant(s) have violated the material terms of this agreement or accept such payment adjustments as NRCS may deem appropriate if NRCS decides that the participant's violation does not warrant termination of the agreement; and C) to forfeit all rights to further payments under the agreement and refund to the United States, in amounts determined by NRCS, payments received hereunder if the subject land is transferred to a non-participant during the term of this agreement, unless the third party agrees to assume this agreement, and the NRCS consents to the modification.

4. CONTRACT PARTICIPANTS

Name, Address, Telephone	SSN or TAX ID if applicable
WOODNOTCH FARMS INC 245 BARNUM HILL RD SHOREHAM, VT 05770 (802) 897-8201	*****0261
Signature	Payment Shares 100.00%
Date	
Signature required for modifications ✓ Yes □ No	Signature acceptable for payments ✓ Yes □ No

5. CONTRACT OBLIGATIONS

2012	2013	2014				Total
\$63,341	\$26,934	\$26,934				\$117,209
						\$117,209

6. NRCS APPROVING OFFICIALS

Application Appro	oval	Contract Obligation	
·	JOHN THURGOOD	HEATHER WETZSTEIN	
USDA electronic	signature; manual signature n	required. USDA electronic signature; manual signature not requ	uired.
	• .		
Date:	8/18/2011	Date: 8/25/2011	ĺ

NRCS-CPA-1202 OMB 0578-0013 Expires 5/31/2012

CONSERVATION PROGRAM CONTRACT

Participant:	Program and Contract Number:
WOODNOTCH FARMS INC	EQIP 2008 741644110UP

OMB DISCLOSURE STATEMENT

According to the Paper Work Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 0.69 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

PRIVACY ACT STATEMENT

The above statements are made in accordance with the Privacy Act of 1974 (U.S.C. 522a). Furnishing this information is voluntary; however, failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

NONDISCRIMINATION STATEMENT

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US .MENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	CONSERVATION PL	AN OR SCHEDULE OF OPER	NRCS-CPA-115 OMB 0578-0013 Expires 5/31/201		
PARTICIPANT WOODNOTCH FARMS INC	COUNTY AND STATE ADDISON County, VT	PROGRAM AND CONT EQIP 2008 7416		SUBACCOUNT America's Great Outdoors	
LAND UNITS OR LEGAL I Farm:1837 Tract(s):226. Farm:2425 Tract(s):376 Farm:2434 Tract(s):10815. Farm:998 Tract(s):96	5. Farm:2433 Tract(s):10814.	WATERSHED East Creek	ACRES . 349.4	EXPIRATION DATE 9/30/2015	

Contract Item 1: WASTE RECYCLANG(633)

Practice Lifespan: 1 year

Status: Planned/2012

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

.ds:

1 ract: 376 Fields: 2, 3, 4, 10, 11, 12, 13, 18, 20; Tract: 9668 Fields: 1, 2, 3, 5, 10; Tract: 10814 Fields: 23, 24, 37, 43, 44; Tract: 10815 Fields: 7, 11, 12, 18, 36;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU	LE AND I	ESTIMAT	ED COST	-SHARE (OR PAYM	ENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014					1		
L					\$	\$	\$			ļ				
1	WASTE RECYCLING(633)	365.4 ac			13,886									
la	Inject or Incorporate Manure	365.4 Acre	\$38.0000/	PR ¹	13,886			,	ļ ·	l			[
ļ			Acre						<u> </u>		<u> </u>		L	L

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 2: WASTE RECVELING(633)

Practice Lifespan: | year

Status: Planned 201

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

Fields:

Tract: 226 Fields: 8; Tract: 376 Fields: 2, 3, 4, 10, 11, 12, 13, 18, 20; Tract: 9668 Fields: 1, 2, 3, 5, 10; Tract: 10814 Fields: 23, 24, 37, 43, 44; Tract: 10815 Fields: 7, 11, 12, 18, 36;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDU	LE AND E	STIMAT	ED COST	-SHARE	OR PAYM	IENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
		1		Ì	\$. \$	\$							
2	WASTE RECYCLING(633)	384.3 ac		:		14,604								
2a	Inject or Incorporate Manure	384.3 Acrè	\$38.0000/	PR ¹	-	14,604				•		,		
			Acre											<u></u>

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 3: WASTI RECYCLING (633)

Practice Lifespan: 1 year

Status: Planned 2014

This conservation practice will be applied annually. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

Fields

Tract: 226 Fields: 8; Tract: 376 Fields: 2, 3, 4, 10, 11, 12, 13, 18, 20; Tract: 9668 Fields: 1, 2, 3, 5, 10; Tract: 10814 Fields: 23, 24, 37, 43, 44; Tract: 10815 Fields: 7, 11, 12, 18, 36;

	US DEPARTMENT OF AGRICULTURED NATIONAL RESOURCES CONSERVATION SERVICE	CONSERVATION PL	AN OR SCHEDULE OF OPE	RATIONS	NRČS-CPA _s 1153 OMI#0578-0013 Expires 5/31/2012
Farm:1837 Tract(s):226. Farm:2425 Tract(s):376. Farm:2433 Tract(s):10814. East Creek 349.4 9/30/2015					
1 atti. 213 1 11 action 3. 1 atti. 270 11 action 3.2000.	1			1	

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDUI	E AND ESTIMA	ATED COST	-SHARE	OR PAYM	MENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014						
3	WASTE RECYCLING(633)	384.3 ac			φ	3	14,604					ļ .	
1	Inject or Incorporate Manure	384.3 Acre	\$38.0000/	PR¹			14,604						!
			Acre							<u> </u>	<u></u>		

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 4: MONITORING & EVALUATION (799)

Practice Lifespan: 1 year

Status: Planned 2012

Edge of Field Monitoring and Evaluation: Two edge of field monitoring facilities will be installed on fields 4 and 8 as part of a paired watershed study. Flow monitoring will be performed by a flume or weir with depth measurement by ultrasonic sensor or bubbler with data logger. Weather data will also be collected at one of the facilities. The minimum weather data collected will be rainfall (data logging tipping bucket rain gauge) and air temperature. All monitoring plans must meet the criteria provided in the 799 Monitoring and Evaluation Conservation Practice Standard. Two flow measurement and water quality sample collection station will be established, one as the Control study area and one as the Treatment study area. The emphasis will be on evaluating nutrient transport from the field(s). A one-time collection of data including watershed topographic information, site characteristic data and historic farm field management and existing practices will be performed. Installation and Field Characterization Report: A report of Edge of field monitoring installation activities and field characterization will be submitted when the activities have been completed. This report is the documentation that the monitoring station is installed. All reports will be submitted in electronic format compatible with Microsoft computer programs.

Fields:

Tract: 226 Fields: 8;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDU	LE AND	ESTIMAT	ED COST	SHARE	OR PAYM	IENT BY	YEAR
Item	•	Amount		Rate/Method	2012	2013	2014							i
					\$	\$	\$			İ				i '
4	MONITORING & EVALUATION(799)	1 no			37,125									
4a	Monitoring Device Installation	1 Number	\$37,125.000 0/	PR ¹	37,125									
			Number								<u> </u>	<u> </u>		

tes: Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 5: MONIFORING & EVALUATION (799)

Practice Lifespan: 1 year

Status: Planned 2012

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 226 Fields: 8:

US I NA I CAC	MENT OF AGRICULTURE AL RESOURCES CONSE RVATION SERVICE	CONSER	VATION P	LAN OR S	CHED	ULE O	F OPEI	RATIO	NS		OMB 0	578-0 013	NRCS-CI Expires 5/	
•	PARTICIPANT WOODNOTCH FARMS INC	COUNTY AN ADDISON Co			PROC		ND CON' 2008 741		NUMBER P	}		JBACCO ca's Great	UNT Outdoor	s
	LAND UNITS OR LEGAL DESCRIPTION 137 Tract(s):226. Farm:2425 Tract(s):376. Farm:2433 Tract(s):10815. Farm:998 Tract(s):9668.	Tract(s):10814.			WATER: East C				ACRE 349.4	- 1	EXP	1RATION 9/30/20		
Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDUI	E AND E	STIMATI	ED COST	SHARE C	R PAYM	ENT BY	YEAR
Item	·	Amount		Rate/Method	2012 \$	2013 \$	2014 \$							
	MONITORING & EVALUATION(799) Event Sampling, Samples 1 thru 10	1 no 1 Number	\$5,790.0000 / Number	PR ¹	5,790 5,790		-							
Notes:	Payment rates define the unit cost rate of compensation to be received	ved by the partic		L										
	Hem 6: MONIFORING & EVALUATION(799) magement Log: This work includes the annual collection of data in the state of the st	cluding farm fie	ld management	and the same	Practice lementation	8		ected conti	nuously th	rough the	year as far	1.8.7	atus: Plan vities are	ned 2012
Fields: Tract: 22	26 Fields: 8;													
Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	LETION 2013 \$	SCHEDU 2014 \$	LE AND E	STIMAT	ED COST	SHARE (OR PAYM	ENT BY	YEAR
6	MONITORING & EVALUATION(799)	1 no			750				-					
6a	Annual Field Management Data Collection	1 Number	\$750.0000/ Number		750									
Notes:	Payment rates define the unit cost rate of compensation to be rece	ved by the partic	ipant.					·						
Contrac	t Item 7: MONITORING & EVALUATION(799)				P ract ice	Lifespan:	1 year					St	atus: Plan	ned 2012
lecte	g will be conducted year round when feasible. The flow monitorin I and transported to the laboratory in a timely fashion. A sample lo ed sediments using approved scientific methods. Water sample, flo	g book will be m	aintained. Wate	er samples will b	e analyzed	l for total	hosphoru	s, dissolve	d phospho	rus, total 1	nitrogen, d	issolved n	itrogen and	d total
Fields: Tract: 2	26 Fields: 8;											-		
Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share				LE AND I	ESTIMAT	ED COST	-SHARE	OR PAYM	ENT BY	YEAR
Item		Amount		Rate/Method	2012 \$	2013	2014 \$,						
7	MONITORING & EVALUATION(799)	1 no			5,790									
7a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR¹	5,790									

7a

Notes: Payment rates define the unit cost rate of compensation to be received by the participant.

<u> </u>		_												
US DEP NATUR	ARTMENT OF WORTCOLFTURE AL-RESOURCES CONSERVATION SERVICE	CONSER	VATION F	PLAN OR S	CHED	ULE 0	F OPE	RATIO	NS	E/9	oMB*	05 78-00	NRCS-C 3 Expires	PA 1155 5 1/2012
	PARTICIPANT WOODNOTCH FARMS INC	COUNTY AN ADDISON Co			PROC			TRACT 644110U	NUMBEI IP	2		UBACC ca's Gre	COUNT at Outdoo	ors
	LAND UNITS OR LEGAL DESCRIP 337 Tract(s):226. Farm:2425 Tract(s):376. Farm:2434 Tract(s):10815. Farm:998 Tract(s):9668.				WATER East C				ACRE 349.4		EXP	PIRATIO 9/30/2	ON DATE 015	
	·													
	titem 8: MONITORING & EVALUATION(799)	Transcondant Contraction Contraction			Practice								tatus: Plan	8
collected	g will be conducted year round when feasible. The flow mor I and transported to the laboratory in a timely fashion. A samed sediments using approved scientific methods. Water samp	anle log book will be ma	aintained. Wate	r samples will b	e analvzed	l for total r	phosphoru	s, dissolve	d phosphoi	us, total i	nitrogen, d	issolved 1	nitrogen an	d total
ct: 22	26 Fields: 8;	·												
Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share				LE AND I	ESTIMATI	ED COST	SHARE (OR PAYI	MENT BY	YEAR
Item		Amount		Rate/Method	2012 \$	2013 \$	2014 \$							[
8	MONITORING & EVALUATION(799)	1 no	<u> </u>			5,790							1	
8a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000 / Number	PR1		5,790								
Notes:	Payment rates define the unit cost rate of compensation to b	e received by the partic	ipant.											
	rt ffem 9: MONITORING & EVALUATION (799)			·	★ 23.37 / 3	Lifespan:	2011002 - c-80200020					Second State of the last of th	status: Plar	30E3360 - 10-FG
Field M complet	anagement Log: This work includes the annual collection of ed.	data including farm fie	ld management	and practice im	plementati	on. Data v	vill be col	lected cont	inuously th	rough the	e year as fa	rming ac	tivities are	
Fields: Tract: 2	26 Fields: 8;													_
Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share				LE AND	ESTIMAT	ED COST	-SHARE	OR PAY	MENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014 \$	ļ.·					<u> </u>	
9	MONITORING & EVALUATION(799)	1 no			 	750								<u> </u>
J-,	Annual Field Management Data Collection	1 Number	\$750.0000/ Number	1		750								
Notes:	Payment rates define the unit cost rate of compensation to be	pe received by the partic	cipant.											
<u> </u>	et Hem 10: MONWORING & EVALUATION(799)				7.5 example	Lifespan:	8 8	9ct .	***				Status: Pla	1 2
collecte	ng will be conducted year round when feasible. The flow mo d and transported to the laboratory in a timely fashion. A sar led sediments using approved scientific methods. Water sam	mple log book will be m	naintained. Wate	er samples will b	e analyze	d for total	phosphori	ıs, dissolv	ed phospho	rus, total	nitrogen, c	lissolved	nitrogen ar	nd total

Fields: Tract: 226 Fields: 8;

US (.MENT: OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	CONSERVATIO	N.PLAN OR SCHEDULE OF OPE	RATIONS	NRCS-CPA-1155 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT WOODNOTCH FARMS INC	COUNTY AND STATE ADDISON County, VT		1	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL D. Farm:1837 Tract(s):226. Farm:2425 Tract(s):376. Farm:2434 Tract(s):10815. Farm:998 Tract(s):966	Farm:2433 Tract(s):10814.	WATERSHED East Creek	ACRES 349.4	EXPIRATION DATE 9/30/2015

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	CHEDU	LE AND	ESTIMAT	ED COST	-SHARE	OR PAYM	ENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
					\$	\$	\$					l j		
10	MONITORING & EVALUATION(799)	l no				5,790								
10a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000/	PR¹		5,790				! 	ł			
			Number	<u></u>					<u> </u>	<u> </u>		<u></u>	L	

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 11: MONITORING & EVALUATION (799)

Practice Lifespan: 1 year

Status: Planned 2014

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 226 Fields: 8;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDUI	E AND	ESTIMAT	ED COST	-SHARE	OR PAYN	ENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
					\$	\$	\$						L	
11	MONITORING & EVALUATION(799)	l no					5,790							
11a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000/	PR1			5,790					1	1	, ,
			Number										<u> </u>	
NT - 4		11 41												

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 12: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

Status: Planned 2014

recompling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be ected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 226 Fields: 8;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDU	E AND E	STIMAT	ED COST	-SHARE (OR PAYM	ENT BY	YEAR
Item		Amount		Rate/Method	2012	2013	2014							
					\$	\$	\$							l
12	MONITORING & EVALUATION(799)	1 no					5,790			,				
12a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 /	PR¹			5,790							·
			Number							<u> </u>				<u> </u>

Notes: Payment rates define the unit cost rate of compensation to be received by the participant.

PARTICIPANT WOODNOTCH FARMS INC	COUNTY AND STATE ADDISON County, VT	PROGRAM AND CON EQIP 2008 741		SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DES Farm:1837 Tract(s):226. Farm:2425 Tract(s):376. Farm:2434 Tract(s):10815. Farm:998 Tract(s):9668.	Farm:2433 Tract(s):10814.	WATERSHED East Creek	ACRES 349.4	EXPIRATION DATE 9/30/2015

AND AND AND AND AND AND AND AND AND AND		- 8	The state of the s	. 98		2010 F 3940 SE					- 7	20240 W	
anagement Log: This work includes the annual collection of data	a including farm field	l management	and practice imp	lementation	on. Data w	ill be coll	ected cont	tinuously t	hrough th	e year as fa	rming act	ivities are	
26 Fields: 8;													
Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDU	LE AND	ESTIMAT	ED COST	-SHARE	OR PAYN	MENT BY	YEAR
	Amount		Rate/Method	2012 \$	2013 ·	2014 \$							i
MONITORING & EVALUATION(799)	1 no	<u> </u>		Ψ	. Ψ	750							
Annual Field Management Data Collection	1 Number	\$750.0000/ Number	1 1			. 750							
	ed. 26 Fields: 8;	anagement Log: This work includes the annual collection of data including farm field ed. 26 Fields: 8; Planned Conservation Treatment Planned Amount MONITORING & EVALUATION(799) 1 no	anagement Log: This work includes the annual collection of data including farm field management ed. 26 Fields: 8; Planned Conservation Treatment Planned Amount MONITORING & EVALUATION(799) Annual Field Management Data Collection 1 Number \$750.0000/	Planned Conservation Treatment Planned Amount MONITORING & EVALUATION(799) Annual Field Management Data Collection Paragement Log: This work includes the annual collection of data including farm field management and practice imped. Planned Conservation Treatment Planned Amount Planned Cost Share Rate/Method I no Number \$750.0000/ PR¹	Planned Conservation Treatment Planned Unit Cost Share Rate/Method MONITORING & EVALUATION(799) Annual Field Management Data Collection Annual Field Management and practice implementation of data including farm field management and practice implementation. Planned Unit Cost Cost Share COMP Rate/Method 2012 \$ MONITORING & EVALUATION(799) 1 no Annual Field Management Data Collection 1 Number \$750.0000/ PR1	Planned Conservation Treatment Planned Amount Planned Amount Planned Conservation Treatment MONITORING & EVALUATION(799) Annual Field Management Data Collection Planned Including farm field management and practice implementation. Data were detected as a complex conservation of data including farm field management and practice implementation. Data were detected as a complex complex conservation. 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Data will be collected continuously through the collection Planned Unit Cost Cost Share Rate/Method Planned White Cost Share Rate/Method Planned Strimated Cost Planned Conservation Treatment Planned White Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Cost Share Rate/Method Planned Strimated Cost Planned Strimated Cost Planned Strimated Cost Planned Strimated Cost Planned Strimated Cost Planned Strimated Cost Planned Strimated Cost Planned Strimated Cost Planned Strimated Cost Planned Strimated Cost Planned Strimated Cost Planned Strimated Cost Planned Strimated Cost Planned Strimated Cost Planned Strimated	Planned Conservation Treatment Planned Amount Planned Amount Planned Amount Planned Sevaluation (799) Annual Field Management Data Collection Provided Management and practice implementation. Data will be collected continuously through the year as face. Completion Schedule And Estimated Cost-Share Rate/Method \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Planned Conservation Treatment Planned Amount Planned Amount Planned Amount Planned State/Method Planned Conservation Treatment Planned Amount Planned Amount Planned Amount Planned Amount Planned Amount Planned Conservation Treatment Planned Amount Planned Planned Rate/Method Planned Conservation Treatment Planned Amount Planned Planned Rate/Method Planned Planned Rate/Method Planned Planned Rate/Method Planned Plan	Planned Conservation Treatment Planned Amount Planned Amount Planned Cost Share Rate/Method Rate/Method Rate/Method Planned Cost Share Rate/Method Rate/Method Rate/Method Rate/Method Planned Cost Share Rate/Method R

US	CONSERVATION PLAN	OR SCHEDULE OF OPERA	TIONS	NRCS-CPA-1155 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT WOODNOTCH FARMS INC	COUNTY AND STATE ADDISON County, VT	PROGRAM AND CONTR EQIP 2008 74164	R .	SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DESCRIPTION Farm:1837 Tract(s):226. Farm:2425 Tract(s):376. Farm:2434 Tract(s):10815. Farm:998 Tract(s):9668.		WATERSHED East Creek	ACRES 349.4	EXPIRATION DATE 9/30/2015

				Total Co	st-Share o	r Payment		-Total Contract	
Year	2012	2013	2014			1			Paymen
Amount(\$)	\$63,341	\$26,934	\$26,934						\$117,209

MOTES: A. All items numbers on form NRCS-CPA-1155 must be carried out as part of this contract to prevent violation.

B. When established, the conservation practices identified by the numbered items must be maintained by the participant at no cost to the government.

C. All cost share rates are based on average cost (AC) with the following exceptions:

AA = Actual cost not to exceed average cost; FR = Flat Rate; NC = Non cost-shared; AM = Actual cost not to exceed a specified maximum; PR = Payment rates.

D. By signing, the participant acknowledges receipt of this conservation plan including this form NRCS-CPA-1155 and agrees to comply with the terms and conditions here of.

Certification of Participants		Λ		
Signature Date	Signature C • \	Date	Signature	Date
WOODNOTCH FARMS INC	L Da	La V 8/19/14		
·	16100	0/ _3/ T	*.	
		nosiben		
Signatures of Roofwing Officials				
District Conservationist - Technical Adequacy Certification	n	NRCS Approving Official		
Signature:		Signature: JOHN THURGOOD	0	
		USDA electronic signature; mai	nual signature not required.	
Date:		Į.		
		Date: 8/18/2011		

PUBLIC BURDEN STATEMENT

cording to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collections is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

PRIVACY ACT

The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C 522a). Furnishing this information is voluntary; however failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

USDA NON-DISCRIMINATION STATEMENT

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer."



US DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE



~~		/ A TEL		
		/ A 1 / \ \	DUCACIOAM	CONTRACT
	MOEK	VALIUN	PRUURAIN	CONTRACT

Participant: KIMBALL BROOK FARM LLC	Program and Contract Number: EQIP 2008 741644110UV
County and State: CHITTENDEN County, VT	Subaccount: America's Great Outdoors
Watershed: Mill Brook-Frontal Lake Champlain	This agreement is effective on the date signed by the Natural Resources Conservation Service approving official and extends through 9/30/2015

- 1. The undersigned participants enter into this contract with the Natural Resources Conservation Service (NRCS) to implement and or maintain specific conservation practices, as set forth in the Conservation Plan or Schedule of Operations (NRCS-CPA-1155), on the property as identified on the plan map. In consideration for the implementation and or maintenance of the practices, the NRCS will make payments to the participant(s) in the amount(s) described in the Schedule of Operations as outlined in the appendix.
- 2. This agreement is comprised of this Conservation Program Contract form NRCS-CPA-1202, NRCS-CPA-1202 Appendix; NRCS-CPA-1155 Conservation Plan or Schedule of Operations and plan map which are fully incorporated by reference into this document and are binding upon the participant(s). The NRCS-CPA-1155 may be modified (NRCS-CPA-1156) upon agreement of NRCS and the participant and becomes a part of the contract when signed by the NRCS approving official.
- 3. The participant(s) agree: A) to implement and maintain conservation practices identified on the plan map in compliance with the plan or schedule of operations (NRCS-CPA-1155) and in accordance with the standards, specifications, and other special program criteria obtained from the local field office of the NRCS; B) to forfeit further payments under this agreement and refund the United States, in amounts determined by NRCS, payments received hereunder upon NRCS determination that participant(s) have violated the material terms of this agreement or accept such payment adjustments as NRCS may deem appropriate if NRCS decides that the participant's violation does not warrant termination of the agreement; and C) to forfeit all rights to further payments under the agreement and refund to the United States, in amounts determined by NRCS, payments received hereunder if the subject land is transferred to a non-participant during the term of this agreement, unless the third party agrees to assume this agreement, and the NRCS consents to the modification.

4. CONTRACT PARTICIPANTS

Date:

JOHN THURGOOD
USDA electronic signature; manual signature not required.

8/18/2011

Name, Ad	dress, Telep	hone					SSN	or TAX ID	if applicable	e		
KIMBALL	BROOK FAI	RM LLC						8480				
128 BAY \	/IEW RD											
NORTH F	ERRIŞBURG	3H, VT 05	473									
(802) 425-	3029	,										
Signature Date Signature	\ e/1	3/11 modificati	ons √	Yes	□ No		100.	nent Share	es eptable for p	ayments v	/ Yes □] No
5. CO	NTRACT C	BLIGATIO	NS				\					
2012	2013	2014	·						T	[T	Total
\$49,455	\$14,143	\$14,143								 		\$77,741
						37.						\$77,741
6. NR	CS APPRO	VING OFF	ICIALS	,						,		
Application	Approval						Cont	ract Obliga	ation			

Date:

NRCS-CPA-1202 OMB 0578-0013 Expires 5/31/2012

CONSERVATION PROGRAM CONTRACT

Participant:	Program and Contract Number:
KIMBALL BROOK FARM LLC	EQIP 2008 741644110UV

OMB DISCLOSURE STATEMENT

According to the Paper Work Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 0.69 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

PRIVACY ACT STATEMENT

The above statements are made in accordance with the Privacy Act of 1974 (U.S.C. 522a). Furnishing this information is voluntary; however, failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

NONDISCRIMINATION STATEMENT

The United States Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room326-W, Whitten Building, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (202) 720-5964.

CONSERVATION PROGRAM CONTRACT

Participant: KIMBALL BROOK FARM LLC	Program and Contract Number: EQIP 2008 741644110UV
County and State: CHITTENDEN County, VT	Subaccount: America's Great Outdoors
· ·	This agreement is effective on the date signed by the Natural Resources Conservation Service approving official and extends through 9/30/2015

- 1. The undersigned participants enter into this contract with the Natural Resources Conservation Service (NRCS) to implement and or maintain specific conservation practices, as set forth in the Conservation Plan or Schedule of Operations (NRCS-CPA-1155), on the property as identified on the plan map. In consideration for the implementation and or maintenance of the practices, the NRCS will make payments to the participant(s) in the amount(s) described in the Schedule of Operations as outlined in the appendix.
- 2. This agreement is comprised of this Conservation Program Contract form NRCS-CPA-1202, NRCS-CPA-1202 Appendix; NRCS-CPA-1155 Conservation Plan or Schedule of Operations and plan map which are fully incorporated by reference into this document and are binding upon the participant(s). The NRCS-CPA-1155 may be modified (NRCS-CPA-1156) upon agreement of NRCS and the participant and becomes a part of the contract when signed by the NRCS approving official.
- 3. The participant(s) agree: A) to implement and maintain conservation practices identified on the plan map in compliance with the plan or schedule of operations (NRCS-CPA-1155) and in accordance with the standards, specifications, and other special program criteria obtained from the local field office of the NRCS;
 B) to forfeit further payments under this agreement and refund the United States, in amounts determined by NRCS, payments received hereunder upon NRCS determination that participant(s) have violated the material terms of this agreement or accept such payment adjustments as NRCS may deem appropriate if NRCS decides that the participant's violation does not warrant termination of the agreement; and C) to forfeit all rights to further payments under the agreement and refund to the United States, in amounts determined by NRCS, payments received hereunder if the subject land is transferred to a non-participant during the term of this agreement, unless the third party agrees to assume this agreement, and the NRCS consents to the modification.

4. CONTRACT PARTICIPANTS

Name, Address, Telephone	SSN or TAX ID if applicable
KIMBALL BROOK FARM LLC	*****8480
128 BAY VIEW RD NORTH FERRISBURGH , VT 05473 (802) 425-3020	
Signature	Payment Shares
	100.00%
Date	
Signature required for modifications ✓ Yes ☐ No	Signature acceptable for payments ✓ Yes □ No

5. CONTRACT OBLIGATIONS

2012	2013	2014				Total
\$49,455	\$14,143	\$14,143				\$77,741
						\$77,741

6. NRCS APPROVING OFFICIALS

	Application Approval		Contract Obligation	·
- [JOH	N THURGOOD	HEAT	HER WETZSTEIN
	USDA electronic signatur	e; manual signature not required.	USDA electronic signatu	re; manual signature not required.
	Date:	8/18/2011	Date:	8/23/2011

CONSERVATION PROGRAM CONTRACT

Participant:	Program and Contract Number:
KIMBALL BROOK FARM LLC	EQIP 2008 741644110UV

OMB DISCLOSURE STATEMENT

According to the Paper Work Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 0.69 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	CONSERVATIO	ON PLAN OR S	CHEDULE OF OPERAT	TONS	NRCS-CPA-1155 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT KIMBALL BROOK FARM LLC	COUNTY AND STAT CHITTENDEN County,		PROGRAM AND CONTRA EQIP 2008 7416441		SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL Farm: 458 Tract(s): 405.	DESCRIPTION		WATERSHED k-Frontal Lake Champlain	ACRES 47.7	EXPIRATION DATE 9/30/2015

Contract Item 1: MONITORING & EVALUATION (799)

Edge of Field Monitoring and Evaluation: Two edge of field monitoring facilities will be installed on Fields 1 and 4 as part of a paired watershed study. Flow monitoring will be performed by a flume or weir with depth measurement by ultrasonic sensor or bubbler with data logger. Weather data will also be collected at one of the facilities. The minimum weather data collected will be rainfall (data logging tipping bucket rain gauge) and air temperature. All monitoring plans must meet the criteria provided in the 799 Monitoring and Evaluation Conservation Practice Standard. Two flow measurement and water quality sample collection station will be established, one as the Control study area and one as the Treatment study area. The emphasis will be on evaluating nutrient transport from the field(s). A one-time collection of data including watershed topographic information, site characteristic data and historic farm field management and existing practices will be performed. Installation and Field Characterization Report: A report of Edge of field monitoring installation activities and field racterization will be submitted when the activities have been completed. This report is the documentation that the monitoring station is installed. All reports will be submitted in electronic format compatible with Microsoft apputer programs.

Fields:

Tract: 405 Fields: 1:

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDU	LE AND I	ESTIMAT	ED COST	-SHARE	OR PAYM	MENT BY	YEAR
Item	·	Amount		Rate/Method	2012	2013	2014							
	·				\$	\$	\$.				L			
1	MONITORING & EVALUATION(799)	1 no			37,125									
la	Monitoring Device Installation	1 Number	\$37,125.000 0/	PR^1	37,125							l	[
			Number											

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 2: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

Practice Lifespan: I year

Status: Planned 2012

Status: Planned 2012

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year for fields 1 and 4. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 405 Fields: 1;

tract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION	SCHEDUI	E AND I	STIMAT	ED COST	-SHARE	OR PAYN	IENT BY	YEAR
, .ém		Amount		Rate/Method	2012	2013	2014	•						
L1					\$	\$	\$						(ļ. I
2	MONITORING & EVALUATION(799)	1 no			5,790									
2a	Event Sampling, Samples 1 thru 10	1 Number	\$5,790.0000/	PR ¹	5,790						ļ			
		· · · · · · · · · · · · · · · · · · ·	Number											

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 3: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

Status: Planned 2012

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year for fields 1 and 4. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

	AREMENT OF AGRICULTURE AP-RESOURCES CONSERVATION SERVICE	CONSER	VATI ON I	PLAN OR S	CHEDI	JLE O	F OPE	RATIO	NS		OMB*	0578-00L	NRCS-C 3 Expires 5	PA-1155 5/31/2012
-	PARTICIPANT KIMBALL BROOK FARM LLC	COUNTY AN CHITTENDEN			PROG			TRACT : 644110U	NUMBEI V	R		UBACCO ca's Grea	OUNT it Outdoo	rs
Farm:4	LAND UNITS OR LEGAL DESCRIPTIO 58 Tract(s):405.	N		Mill Brook	WATERS c-Frontal		amplain		ACRE 47.7		EXP	9/30/20	N DATE 115	
			*			-								,
Tract: 40	05 Fields: 1;						•							
Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	LETION : 2013 \$	SCHEDUI 2014 \$	LE AND E	STIMATI	ED COST	-SHARE (OR PAYM	IENT BY	YEAR
3	MONITORING & EVALUATION(799)	l no			5,790	<u> </u>								
30	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	PR ¹	5,790									
Notes:	Payment rates define the unit cost rate of compensation to be rec	ceived by the partic	ipant.											
Contra	et Item 4: MONITORING & EVALUATION(799)				Practice I	ifespan:	l year					St	atus: Plan	med 2 012
	anagement Log: This work includes the annual collection of data ed for fields 1 and 4.	including farm fie	ld management	and practice imp	lementatio	on. Data w	vill be coll	ected conti	nuously th	rough the	year as fa	rming acti	vities are	
Fields: Tract: 4	05 Fields: 1;													
Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share Rate/Method	,			LE AND E	STIMATI	ED COST	-SHARE (OR PAYM	IENT BY	YEAR
Item		Amount		Rate/Method	2012 \$	2013 \$	2014 \$							
4	MONITORING & EVALUATION(799)	1 no			750						·			
4a	Annual Field Management Data Collection	1 Number	\$750.0000/ Number		750									
Notes:	Payment rates define the unit cost rate of compensation to be re-	ceived by the partic	cipant.							1				
Contra	ct trem;5: MONI FORING & EVALUATION(799)				Practice	Lifespan:	l year *		4, 3			St	tatus: Plai	med 2013
mples	ng will be conducted year round when feasible. The flow monitor is will be collected and transported to the laboratory in a timely fain and total suspended sediments using approved scientific methode.	shion. A sample lo	g book will be r	naintained. Wate	r samples	will be an	alyzed for	total phos	phorus, dis	ssolved ph	osphorus,	total nitro	gen, disso	lved
Fields: Tract: 4	105 Fields: 1;													
Contrac	t Planned Conservation Treatment	Planned	Unit Cost	Cost Share				LE AND I	STIMAT	ED COST	-SHARE	OR PAYN	MENT BY	YEAR
Item		Amount		Rate/Method	2012 \$	2013 \$	2014 \$							
5	MONITORING & EVALUATION(799)	1 no				5,790							T	

PR1

5,790

1 Number \$5,790.0000 / Number

5a

Event Sampling, Samples 1 thru 10

Notes: Payment rates define the unit cost rate of compensation to be received by the participant.

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	CONSERVATIO	ON PLAN OR S	CHÉDULE OF OPERATIO	ÌNS	NRCS-CPA-4155 OMB 0578-0013 Expires 5/31/2012
PARTICIPANT KIMBALL BROOK FARM LLC	COUNTY AND STAT CHITTENDEN County,		PROGRAM AND CONTRACT EQIP 2008 7416441100		SUBACCOUNT America's Great Outdoors
LAND UNITS OR LEGAL DES Farm: 458 Tract(s): 405.		WATERSHED k-Frontal Lake Champlain	ACRES 47.7	EXPIRATION DATE 9/30/2015	

Contract Item 6: MONITORING & EVALUATION(799)

Practice Lifespan: 1 year

Status: Planned 2013

Field Management Log: This work includes the annual collection of data including farm field management and practice implementation. Data will be collected continuously through the year as farming activities are completed for fields 1 and 4.

Fields:

Tract: 405 Fields: 1;

ntract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMP	LETION S	SCHEDUI	LE AND I	ESTIMAT	ED COST	-SHARE	OR PAYM	ENT BY	YEAR
. În	·	Amount		Rate/Method	2012	2013	2014							
				,	\$	\$	\$							
6	MONITORING & EVALUATION(799)	1 no				750								
6a	Annual Field Management Data Collection	1 Number	\$750.0000/	PR1		750					, ·			
			Number											L

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 7: MONITORING & EVALUATION(799)

Practice Lifespan: I year *

tus: Planned 2013

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the second 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 405 Fields: 1;

Contract	Planned Conservation Treatment	Planned Unit Cost Cost Share COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAY							OR PAYM	IENT BY	YEAR		
Item		Amount		Rate/Method	2012	2013	2014						
					\$	\$	\$	l	 	ļ:		i 1	i '
7	MONITORING & EVALUATION(799)	1 no				5,790							
7a	Event Sampling, Samples 11 thru 20	1 Number	\$5,790.0000 / Number	l		5,790							

Lies: Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 8: MONITORING & EVALUATION(799)

Practice Lifespan: I year

Status: Planned 2014

Sampling will be conducted year round when feasible. The flow monitoring device and autosampler will be operated to collect a minimum of 10 runoff events during the first 6 months of the year. The samples will be collected and transported to the laboratory in a timely fashion. A sample log book will be maintained. Water samples will be analyzed for total phosphorus, dissolved phosphorus, total nitrogen, dissolved nitrogen and total suspended sediments using approved scientific methods. Water sample, flow data and other data will be periodically reviewed for quality control purposes. All data will be maintained in an approved digital database.

Fields:

Tract: 405 Fields: 1:

				,										-
	ARTMENT OF AGRICULTURE AL RESOURCES CONSERVATION SERVICE	CÖNSEI	RVATION I	PLAN OR S	CHED	ULE O	F OPE	RATIO	ŃS		OMB :	0578-001.	NRCS-0 Expires	CPA-1155 5/31/2012
	PARTICIPANT KIMBALL BROOK FARM LLC	ND STATE I County, VT							ER SUBACCOUNT America's Great Outdoors					
Farm:4	LAND UNITS OR LEGAL D 58 Tract(s):405.	WATERSHED ACRES Mill Brook-Frontal Lake Champlain 47.7								EXPIRATION DATE 9/30/2015				
Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMI 2012 \$	PLETION 2013	SCHEDUI 2014 \$	LE AND I	ESTIMAT	ED COST	-SHARE (OR PAYM	IENT BY	YEAR
8	MONITORING & EVALUATION(799)	1 no	<u> </u>		Ф		5,790							
8a	Event Sampling, Samples 1 thru 10		\$5,790.0000 / Number	PR1			5,790							
es:	Payment rates define the unit cost rate of compen-	sation to be received by the parti		,	L	,					·			<u> </u>
Contra	ct Rem 9: MONITORING & EVALUATION	90)			Practice	Lifespan:	1 waar						tatus: Plar	
collecte suspend	ng will be conducted year round when feasible. The d and transported to the laboratory in a timely fash led sediments using approved scientific methods. V 05 Fields: 1;	ion. A sample log book will be 1	naintained. Wate	r samples will b	e analyzed	for total	phosphorus	s, dissolve	d phospho	rus, total i	nitrogen, d	issolved n	itrogen an	nd total
Contrac	Planned Conservation Treatment	t Planned Amount	Unit Cost	Cost Share Rate/Method	2012 \$	PLETION 2013 \$	SCHEDUI 2014 \$	LE AND I	ESTIMAT	ED COST	-SHARE	OR PAYN	IENT BY	YEAR
9	MONITORING & EVALUATION(799)	1 n	o				5,790							
9a	Event Sampling, Samples 11 thru 20	1 Numbe	r \$5,790.0000 / Number	PR¹			5,790							
Notes:	Payment rates define the unit cost rate of compen	sation to be received by the part	icipant.								· · · · · · · · · · · · · · · · · · ·			
Contra	ct hem 10. MONITORING & EVALUATION	(799)			Practice	Lifespa n	1 year					<u>s</u> <u>S</u>	tatus: Ela i	nned 2014
Field M	Sanagement Log: This work includes the annual couted for fields 1 and 4.	llection of data including farm fi	eld management	and practice im	plementat	ion. Data v	will be coll	ected cont	inuously t	hrough the	e year as fa	rming act	ivities are	
ids:	105 Fields: 1;													
Contrac	t Planned Conservation Treatmen		Unit Cost	Cost Share			SCHEDU	LE AND	ESTIMAT	ED COST	-SHARE	OR PAYN	MENT BY	YEAR
Item		Amount		Rate/Method	2012 \$	2013	2014							-5.5
10	MONITORING & EVALUATION(799)	1 n	0				750		1					1
10a	Annual Field Management Data Collection	1 Number	\$750.0000. Number	I			750							

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

US DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	CONSERVATIO	ON PLAN OR S	CHEDULE OF OPERATION	NRCS-CPA-1 153 OMB 0578-0013 Expires 5/31/2012			
PARTICIPANT KIMBALL BROOK FARM LLC	COUNTY AND STATE CHITTENDEN County, V		PROGRAM AND CONTRACT EQIP 2008 7416441100		SUBACCOUNT America's Great Outdoors		
. LAND UNITS OR LEGAL DI Farm:458 Tract(s):405.		WATERSHED k-Frontal Lake Champlain	ACRES 47.7	EXPIRATION DATE 9/30/2015			

Contract Item		

Practice Lifespan: 1 year-

Status: Planned 2013

This conservation practice will be applied annually on field 1. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

Eields:

ct: 405 Fields: 1;

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Share	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR						YEAR		
Item	·	Amount		Rate/Method	2012	2013	2014						
L					\$	\$	\$						
11	WASTE RECYCLING(633)	47.7 ac				1,813							
11a	Inject or Incorporate Manure	47.7 Acre	\$38.0000/	PR ¹		1,813				l i			
L			Acre							L	<u> </u>	 ·	

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Item 12: WASTERECYCLING(633)

Practice Lifespan: 1-year

Status: Planned 2014

This conservation practice will be applied annually on field 1. Agricultural wastes will be applied using manure injection methods and according to recommended rates from a current nutrient management plan. This practice entails injecting or incorporating manure on fields which are managed in permanent grass/hayland or in crops managed under a residue management system (minimum or no-till), using drag-line hose equipment attached to either a direct slot pressurized injection system or the use of a low spreading toolbar attachment with an aerator type of equipment to apply manure on annual conventionally tilled croplands. Aeration equipment must be set with a zero degree angle i.e. vertical.

Fields:

Tract: 405 Fields: 1:

Contract	Planned Conservation Treatment	Planned	Unit Cost	Cost Cost Share COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY Y							YEAR		
Item	·	Amount		Rate/Method	2012	2013	2014						
J		·			\$	\$	\$					i l	,
,	WASTE RECYCLING(633)	47.7 ac					1,813		,				
12a	Inject or Incorporate Manure	47.7 Acre	\$38.0000/	PR¹			1,813						I
	·		Acre									1	l
Mindage	Devenue de Sanda de de de la companya del companya del companya de la companya de	. 1 5 41											

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

						c				
US DEPAREMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION	ON SERVICE		CONSI	OMB 0578-00	NRCS-CPA-1155 OMB 0578-0013 Expires 31/2012					
PARTICIPANT KIMBALL BROOK FARM LL		COUNTY CHITTEND		-		CT NUMBER OUV	SUBACCOUNT America's Great Outdoors			
LAND UNITS C Farm:458 Tract(s):405.	N		Mill Bro	WATERSHED ook-Frontal Lake		ACRES 47.7	EXPIRATION DATE 9/30/2015			
			·				~			
					Total Cost-	Shar e or Payn		Total		
	Year	2012	2013	2014						Contract Payment
	Amount(\$)	\$49,455	\$14,143	\$14,143						\$77,741
NOTES: A. All items numbers on form N B. When established, the conservence C. All cost share rates are based AA = Actual cost not to a D. By signing, the participant act	vation practices in on average cost exceed average of	identified by t (AC) with the cost; FR = Fla	the numbered in e following exc at Rate; NC = N	tems must be eptions: Non cost-shar	e maintained by the property and the property of the maintained by the property of the maintained by the property of the prope	articipant at no cos	pecified maximum;	PR = Payment rates.	ere of.	
Certification of Participants	-								1 1 1	
Signature	Dat	te	Signature			Date	Signature			Date

Date: 8/18/2011

NRCS Approving Official

Signature: JOHN THURGOOD

USDA electronic signature; manual signature not required.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid MB control number for this information collections is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing structions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

KIMBALL BROOK FARM LLC

Signatures of Reviewing Officials

Signature:

Date:

District Conservationist - Technical Adequacy Certification

PRIVACY ACT

PUBLIC BURDEN STATEMENT

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