

Please review all of the following information, including the gear allocations and field team members, to ensure accuracy. This plan is an agreement between VPR and your group, documenting the logistics support you will receive.

• Project Information •

Lead Principal Investigator	Dr. Breck Bowden
Institute	University of Vermont, School of Natural Resources
Project Title / Grant #	Will climate change affect hyporheic processes in arctic streams? An assessment of interactions among geomorphology, hydrology, and biogeochemistry in Arctic stream networks (0327440)
NSF Program and Manager	NSF/OPP ANS, Dr. Jane Dionne
VPR Project Manager	Naomi Whitty

• Logistics Summary •

The goal of this three-year field program is to study the thaw bulb that forms in the permafrost around Arctic stream channels and more specifically, to study the hyporheic zone (i.e.; the zone where the stream water and adjacent ground water mixes) within the thaw bulb.

To conduct this work, the investigators have selected six streams in the vicinity of Toolik that represent a wide range of morphologies and ice conditions. Using ground penetrating radar and thermistor arrays the team will monitor the depth of thaw at each site. Sampling and solute injection methods will be used to monitor processes in the hyporheic zone.

In May 2004, a team of up to nine researchers will travel to Toolik install their instruments and undertake their first season of field work. Field work will continue in spring and summer of 2005 and summer of 2006.

VPR will provide user days, truck rentals, and helo hours. All other support will be provided by the Institute of Arctic Biology.

For the complete VPR online project record for this grant, including science objectives, go to:
http://www.vecopolar.com/arlss_reports/arlss_projectsdetail.asp?cbPropNum=0327440

• Outstanding Issues •

Issue	Responsibility	Date Completed
Review support plan for accuracy and distribute to all field team members	PI	Done
Visit all hyperlinks and review all documents referred to in the support plan	Field Team Members	Done
Obtain all necessary permits for fieldwork	PI	Done
Leave truck at Airport on April 9 th	VPR	

• Allocations & Services •

- For more information on satellite phones, radios, manuals and other field communications support, please visit the VPR communications website at <http://vpr.sri.com>.
- For standard survival bag contents, visit <http://www.vecopolar.com> and navigate to Safety > Survival Bags.

Allocations from VECO Polar Resources Inventory

Quant/Unit	Item	ID Number
1	Satellite phone (Fairbanks inventory)	
1	Air to ground radio (Fairbanks inventory)	
1	Survival bag	

Toolik User Days

Quant/Unit	Item	Notes
392	Toolik User Days	Shared with all field team members

Air Support – Helicopter Support

Location	Date	Comment
Toolik Lake	April 16 - 20	Five days of flying – White Hills, Toolik local.
Toolik Lake	June 22 – 25	Toolik local
Toolik Lake	August 13 - 18	Toolik local, White Hills
		Total hours = 32

VPR will develop a flight plan for you and your pilot with more details on your air support.

Truck Support

You are responsible for your own fuel. Like all rental agencies, the vehicle we provide you needs to be returned clean, with a full tank of gas. Let us know if your vehicle will be dropped off late, or at a location other than where you picked it up. For more information contact: Naomi Whitty at Naomi@polarfield.com or 907.590.3954 regarding your truck in April and Taiga Ventures at carole@taigaventures.com or 907.452.6631 for your vehicle in June-August.

Pick Up	Drop Off	# Days	Comment
April 9	April 23	13	VPR Crew cab
June 15	July 7	21	Taiga Crew cab
August 1	August 21	21	Taiga Crew cab

For the duration of your VPR-provided truck rental, you are covered by VPR automobile insurance. Please carry a copy of the following information with you. **If you are involved in an accident, please take photos and contact the Alaska Logistics Manager.**

Name Insured:

VECO Corporation
 6411 A Street
 Anchorage, AK 99518
 Employers Insurance of Wausau #2322-00-065645
 (907) 562-2266

Producer:

Willis of Alaska, Inc.
 4220 B Street Company
 Anchorage, AK 99503

This statement is issued for information purpose only and subject to terms, exclusions, and conditions of such policy.

• Support Schedule •

Date	Location	Researcher	Type of support	Notes
April 9	Fairbanks	Bowden	VPR Truck	Pick up truck at Airport – VPR truck – 1722 - white crew cab with topper.
April 10 – 21	TFS	Bowden		Field work at TFS
April 16		Bowden	Helicopter	Helicopter commutes to Toolik Field Station.
April 16 -20	TFS	Bowden	Helicopter	Three days of closed support – White Hills, Toolik local.
April 22		Bowden		Return to Fairbanks
April 23	Fairbanks	Bowden	VPR Truck	Drop truck at Airport – fuel truck before returning

June 15 – July 17	TFS	Bowden	Taiga Truck	Shared by all field team members
June 22 – 25	TFS	Bowden	Helicopter	Green Cabin Lake area
August 1 – 21	TFS	Bowden	Taiga Truck	Shared by all field team members
August 13 – 18	TFS	Bowden	Helicopter	TFS local and White Hills

• Field Team Information •

April

Name	Date In	Date Out	Email
Breck Bowden	11 April	21 April	breck.bowden@uvm.edu
Mike Gooseff	11 April	21 April	mgooseff@mines.edu
John Bradford	11 April	21 April	johnb@cgiss.boisestate.edu
Jim McNamara	16 April	21 April	jmcnamar@boisestate.edu

June

Name	Date In	Date Out	Email
Breck Bowden	15 June	26 June	breck.bowden@uvm.edu
Mike Gooseff	15 June	7 July	mgooseff@mines.edu
Jay Zarnetske	15 June	7 July	zarnetske@cc.usu.edu
Morgan Johnston	10 June	7 July	Morgan.johnston@uvm.edu
Troy Brosten	15 June	7 July	TroyBrosten@mail.boisestate.edu
Field asst (TBN)	10 June	7 July	
Field asst (TBN)	10 June	7 July	

August

Name	Date In	Date Out	Email
John Bradford	1 Aug	21 Aug	johnb@cgiss.boisestate.edu
Jim McNamara	1 Aug	21 Aug	jmcnamar@boisestate.edu
Jay Zarnetske	1 Aug	21 Aug	zarnetske@cc.usu.edu
Morgan Johnston	1 Aug	21 Aug	Morgan.johnston@uvm.edu
Field asst (TBN)	1 Aug	21 Aug	

• Project Contact Information •

Research Team

Role	Name	Email	Phone / Fax
Principal Investigator	Dr. Breck Bowden	breck.bowden@uvm.edu	802.656.2513/802.656.8683
Co-PI	Dr. Mike Gooseff	mgooseff@mines.edu	435.797.8292
Co-PI	Dr. James McNamara	jmcnamar@boisestate.edu	208.426.1354/208.426.4061

VPR Team Members

Contact for	Name	Email	Primary Phone(s)
Alaska operations	Naomi Whitty	naomi@polarfield.com	Fairbanks: 907.590.3954
Alaska operations	Marin Kuizenga	marin@polarfield.com	Fairbanks: 907.590.0755
Sat phones & comms	Roy Stehle	roy.stehle@sri.com	Menlo Park: 650.859.2552
Denver operations	Jill Ferris	jill@polarfield.com	Denver: 720.320.6155

VPR Offices

Denver	Fairbanks
VECO Polar Resources 8392 S. Continental Divide Rd. #104 Littleton, CO 80127-4268 Tel: 303.984.1450/1439 Fax: 303.984.1445	VECO Polar Resources Alaska Office 3535 College Road, Ste. 201 Fairbanks, AK 99709 Tel: 907.455.4214 Fax: 907.455.4126

Other (for Truck support June-August)

Organization	Internet	Phone
Taiga Ventures 2700 S. Cushman St. Fairbanks, AK. 99701	carole@taigaventures.com	Phone 907.452.6631 Fax 907.451.8632

• Safety, Environment, Health, and Permitting •

Permits

Researchers are responsible for all permits required to conduct fieldwork. Please visit <http://www.vecopolar.com> and navigate to Alaska > Permits for more information regarding this topic.

• Critical Success Factors •

Please list the factors that are most important for the success of your science. We track these factors in order to measure the success of VPR's support. Examples might be the availability of the helicopter or camp gear.

Factors
Availability of truck and chopper on dates and at places arranged.
Support for user fees at Toolik Field Station

• Government Performance and Reporting Act of 1993 (GPRA) •

NSF/OPP requires your help in complying with the Government Performance and Reporting Act of 1993 (GPRA). One measure of VPR's performance is a "facility-performance metric" which counts the number of productive days your project has in the field while relying on VPR facilities or support. Please keep track of any "lost days" and report these to us at the end of the season.