

Please review the following information to ensure accuracy. When finalized, this plan will be an agreement between CH2M HILL Polar Services (CPS), and your group, documenting the logistics support you will receive.

PROJECT INFORMATION

Lead Principal Investigators	Dennis O'Rourke and Geoffrey Hayes
Institute	U of Utah, Department of Anthropology
Project Title / Grant #	Collaborative Research: IPY: Reconstruction of Human Genetic History Along the North Slope (0732846)
NSF Program and Manager	US\Federal\NSF\OD\OPPVARC\ASSP, Dr. Anna Kerttula
CPS Project Manager	Steve Hastings

LOGISTICS SUMMARY

This collaboration between 0732846 (O'Rourke, Univ. of Utah) and 0732857 (Hayes, Univ. of Chicago) will document geographic patterns of genetic variation in both prehistoric and modern human populations along the North Slope of Alaska and assess how the ancient residents of arctic Alaska are related to contemporary Inupiaq populations throughout the circumarctic region.

Beginning in February of 2008 through 2010, the PI and a graduate research assistant will travel throughout the North Slope of Alaska: Barrow, Wales, Wainwright, Nuiqsut, Pt. Lay, Kaktovik, and Atkasuk. For each year of this 3 year project, researchers plan to travel to Barrow and two of the other six sites for 4 months to collect 100 DNA samples. They will request minimal demographic and genealogic information (e.g. name, birthplace, names and birthplaces of parents and grandparents) from the participants to minimize sampling from closely related individuals.

Within 1 year of the award's completion the PIs will archive sequence data in GenBank, and the population frequency data for the SNPs and STRs in ALFRED and dbSNP. All three open-access databases are commonly used as data repositories for genetic data. The scientists will remove identifying information prior to submitting the data.

From the 2009 summer season onward, CPS will work with BTS Professional Services (BTSPS) and other local organizations to provide lodging, meals, lab space, vehicles, and safety gear. BTSPS has engaged the Barrow Arctic Science Consortium to provide on-the-ground support in Barrow.

For the complete CPS online project record for this grant, including science objectives, go to:

http://www.polar.ch2m.com/arlss_reports/arlss_projectsdetail.asp?cbPropNum=0732846

OUTSTANDING ACTIONS AND NOTES

Issue	Responsibility	Date Completed / Comment
Review and confirm approved NSF scope	PI	
Visit all hyperlinks and review all documents referred to in the support plan	Field Team Members	
Apply for all necessary permits for fieldwork	PI	

Contact all appropriate local/community organizations	PI	
Make housing reservation and select meal plan at least 3 weeks prior to desired arrival date	Field Team Members	
Identify project POC for planning process & for field deployments	PI	Done: O'Rourke / Hayes
Identify any hazardous materials by completing the form found at the following link: http://www.arcticsscience.org/images/cheminvblank.xls	PI	
Note: Prior to their departure each year, PIs must take full responsibility for disposing of hazardous wastes and any unused chemicals that either BTSPS or BASC do not agree to store.		
Note: Researchers should plan to bring phone cards to pay for long distance service in Barrow and villages.	Field Team Members	
Finalize schedule for remote trips including making all reservations.	Hayes	In process.
Make Waldo Arms (Kaktovik) reservation	CPS	Awaiting PI decision on final schedule
Note: CPS has a purchase order for Waldo Arms. PI will arrange/pay for lodging/meals, local transportation, and meeting rooms for all other village travel. CPS will reimburse via expense report. Please see Steve Hastings in Barrow for a receipt book to properly document your expenses.	Hayes	Note – see contacts below for info on local village lodging
Set up purchase order with Frontier flying for tickets Nuiqsut, Kaktovik and Anaktuvuk Pass	CPS	Steve Hastings in Barrow will tell you how to use the account. If you use Wright's to fly to Anaktuvuk Pass, pay up front and request reimbursement
Provide project description for remote villages	Hayes	Complete – as of June 3
Facilitate remote village connections	BTS/BASC	Pending
In 2008 the PI hired high school students for the project from grant funds. If this is a 2009 requirement, the PI must set up a project cost agreement with BASC for the support	PI, BASC	

APPROXIMATE FIELD DATES

For the most up-to-date info for upcoming work, see the online reservations sheet.

Trip	Dates	POC
O'Rourke	Barrow 6/8/09 – 7/12/09	O'Rourke
Hayes	Barrow 6/10/09 – 6/25/09 Nuiqsut TBD Kaktovik TBD Anaktuvuk Pass TBD	Hayes

ALLOCATIONS AND SERVICES

The below tables describe the NSF-approved support scope for your project. Your support will be managed to these allocation levels, as shown in the column labeled "QTY." Requests to exceed this scope will require NSF approval. The 2009 Scope Management Policy is available here:

<http://www.arcticscience.org/pdf/BarrowScopePolicy.pdf>

Barrow Housing & Meals

Support	Description	Unit	QTY	Request	Comment
Meals/lodging	O'Rourke	Days	120	70	May have less days if he visits other villages with Hayes
Meals/lodging	Hayes	Days	10	16	Remote village dates are pending
		Total	130	86	

All team members should familiarize themselves with the 2009 Housing / Reservations Policy and the 2009 Meals policy at their earliest convenience. The complete policies can be found online at:

- <http://www.arcticscience.org/pdf/barrowreservationhousingpolicy.pdf>
- <http://www.arcticscience.org/pdf/barrowmealpolicy.pdf>

Make housing reservations and select a meal plan at least 3 weeks prior to your arrival date. The reservations form is available here:

<http://spreadsheets.google.com/viewform?hl=en&formkey=cDcxU2ZhNml0dy1mZ0FYQnNhLTliUIE6MA..>

Confirmed reservations can be viewed here:

<http://spreadsheets.google.com/pub?key=p71Sfa6itw-fgAXBsa-9bRQ>

Lab Space

Support	Description	Unit	QTY	Request	Comment
Lab	O'Rourke and Hayes – -80 freezer in L112 of 360 and lab 132 in BARC	days	60	35	
		Total	60	35	

Vehicles

Support	Description	Unit	QTY	Request	Comment
Truck, ea	O'Rourke and Hayes	Days	60	35	Dedicated vehicle not available. Share with Jensen
		Total	60	35	

Field Equipment Inventory

Support	Description	Unit	QTY	Request	Comment
N/A					

Information Technology

Support	Description	Unit	QTY	Request	Comment
N/A		Totals			

Guides, coordinators, and community participants

Support	Description	Unit	QTY	Request	Comment
Participants	Local & village high school students	Lot	0	0	The hiring of high school students must be arranged directly with BASC through a project cost agreement
Facilitation	Facilitate contacts & arrangements for remote village trips	Lot	1	1	
		Total			

Other Services

Support	Description	Unit	QTY	Request	Comment
Access to copier	Barrow	Lot	1	1	
Commercial tickets	Anaktuvuk Pass	Ea	3	2	CPS provides – contact Steve Hastings for details. Note: Anaktuvuk Pass is only accessible via Fairbanks.
Commercial tickets	Nuiqsut	Ea	3	2	CPS provides – contact Steve Hastings for details
Commercial tickets	Kaktovik	Ea	3	2	CPS provides-contact Steve Hastings for details
Lodging/meals	Kaktovik – Waldo Arms	Days	9	6	CPS provides – contact Steve Hastings for details
Lodging/meals	Anaktuvuk Pass, Nuiqsut	Days	18	12	PI pays up front & CPS reimburses
Local transportation	Kaktovik, Anaktuvuk Pass, Nuiqsut	Lot	1	1	Taxis, etc. PI pays up front & CPS reimburses
Other village costs	Kaktovik, Anaktuvuk Pass, Nuiqsut payment of meeting room/ space rental etc.	Lot	1	1	As needed – PI pays up front and CPS reimburses.

For expense reimbursements please contact Dana Moudra Truffer in the Alaska office. See Project Contact Information, below.

Permits

Support	Description	Unit	QTY	Request	Comment
UIC standard permit		Ea		3	
		Totals			

RESEARCH TEAM INFORMATION

Role	Name	Email	Phone / Fax
Principal Investigator	Dennis O'Rourke	orourke at anthro.utah.edu	801. 581.7454 / 801.581.6252
Collaborator	Geoffrey Hayes	ghayes at bsd.uchicago.edu	773.834.2534 / 773.702.2567

PROJECT CONTACT INFORMATION

BTSPS/BASC/CPS Team Members

Contact for	Name	Email	Primary Phone(s)
Barrow science support contract oversight – BTSPS	Rex Snyder	Rsnyder at lcfm.com	907.227.1924 (c)
Program Development - BASC	Glenn Sheehan	basc at arcticscience.org	907.852.4881 (v) 907.367.3815 (c)
New science requests, scope changes to existing requests - CPS	Steve Hastings	steve at polarfield.com	907.852.0904 (v) 907.388.0565 (c)
Lodging and lab assignments - BASC	Bryan Thomas	bryan.thomas at arcticscience.org	907.852.0903 (v) 907.367.3797 (c)
Station Management, Vehicles, Field Equipment, Temporary Labor - BASC	Lewis Brower	lewis.brower at arcticscience.org	907.852.0905 (v) 907.367.3813 (c)
IT Support - BASC	Brad Heaston	brad.heaston at arcticscience.org	907.852.0902 (v) 907.367.3836 (c)
Meal Expense Reimbursements - CPS	Dana Truffer Moudra	dana at polarfield.com	907.455.4271 (v) 907.388.2498 (c)

Offices

Barrow/BASC	Fairbanks/CPS	Denver/CPS
BASC 360 NARL Street Room L-206, Box 577 Barrow, AK 99723 Tel: 907.852.4881 Fax: 907.852.4882	CH2M HILL Polar Services Alaska Office 2325 King Road Fairbanks, AK 99709 Tel: 907.455.4214 Fax: 907.455.4126	CH2M HILL Polar Services Western Office 8110 Shaffer Parkway, Suite150 Littleton, CO 80127 Tel: 303.984.1450/1439 Fax: 303.984.1445

Other

Organization	Internet/Info	Phone
Frontier Flying	http://www.frontierflying.com	907.852.8333
Wrights Air	http://www.wrightair.net/	907.474.0502
Waldo Arms , Kaktovik	http://www.waldoarms.com/	907.640.6513
Nanuq B&B (AKA Kuukpik Corp Hotel), Nuiqsut	\$250/night incl meals, call Tyron	c. 907.441.6076 v. 907.480.5550
Anaktuvuk Pass Nunamiut Corporation	\$175/night incl meals	907-661-3026