



ᐃᑦᑎᓂᑦ

ᐃᑦᐱᒃᑎᓂᖅᑎᓂᖅ ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ ᐃᑦᑎᓂᖅ ᖃᓄᐱᑦᑎᓂᖅᑎᓂᖅ

ᑦᐃᐱᓂᖅᑎᓂᖅ ᓄᓇᑦᑎᓂᖅ - ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ
ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ
ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ

ᐱᓇᑦᑎᓂᖅ ᑎᖅᑎᓂᖅ

- ᓄᓇᑦᑎᓂᖅᑎᓂᖅ ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ ᓄᓇᑦᑎᓂᖅᑎᓂᖅᑎᓂᖅ ᓄᓇᑦᑎᓂᖅᑎᓂᖅᑎᓂᖅ ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ ᓄᓇᑦᑎᓂᖅᑎᓂᖅᑎᓂᖅ.
- ᐃᓄᓂᖅᑎᓂᖅ ᓄᓇᑦᑎᓂᖅ ᖃᐅᐱᖅᑎᓂᖅᑎᓂᖅ ᐱᑦᑎᓂᖅᑎᓂᖅᑎᓂᖅ, ᖃᐅᐱᖅᑎᓂᖅᑎᓂᖅ ᐱᓄᓂᖅᑎᓂᖅᑎᓂᖅ ᐱᓄᓂᖅᑎᓂᖅᑎᓂᖅ ᓄᓇᑦᑎᓂᖅᑎᓂᖅᑎᓂᖅ ᓄᓇᑦᑎᓂᖅᑎᓂᖅᑎᓂᖅ.
- ᐃᓄᓂᖅᑎᓂᖅᑎᓂᖅ ᓄᓇᑦᑎᓂᖅ ᓄᓇᑦᑎᓂᖅᑎᓂᖅ ᐱᓄᓂᖅᑎᓂᖅᑎᓂᖅ ᓄᓇᑦᑎᓂᖅᑎᓂᖅᑎᓂᖅ ᓄᓇᑦᑎᓂᖅᑎᓂᖅᑎᓂᖅ ᓄᓇᑦᑎᓂᖅᑎᓂᖅᑎᓂᖅ.

IMALIRIJIT

Monitoring George River Water Quality

Science Land Camp – Summary report
March 2017

Presented to Northern Village of Kangiqsualujuaq

Project objectives

- To put in place a long-term community-based environmental monitoring program of the George River water quality.
- To foster local capacity in biological sampling, data management and analysis and interactive mapping.
- To create interest for environmental sciences among youth while addressing local environmental issues.

ᓄᓇᑦᑎᓂᖅᑎᓂᖅ ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ
ᓄᓇᑦᑎᓂᖅ ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ
ᓄᓇᑦᑎᓂᖅ ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ
ᐃᓄᓂᖅᑎᓂᖅᑎᓂᖅ ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ
ᐃᓄᓂᖅᑎᓂᖅᑎᓂᖅ ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ

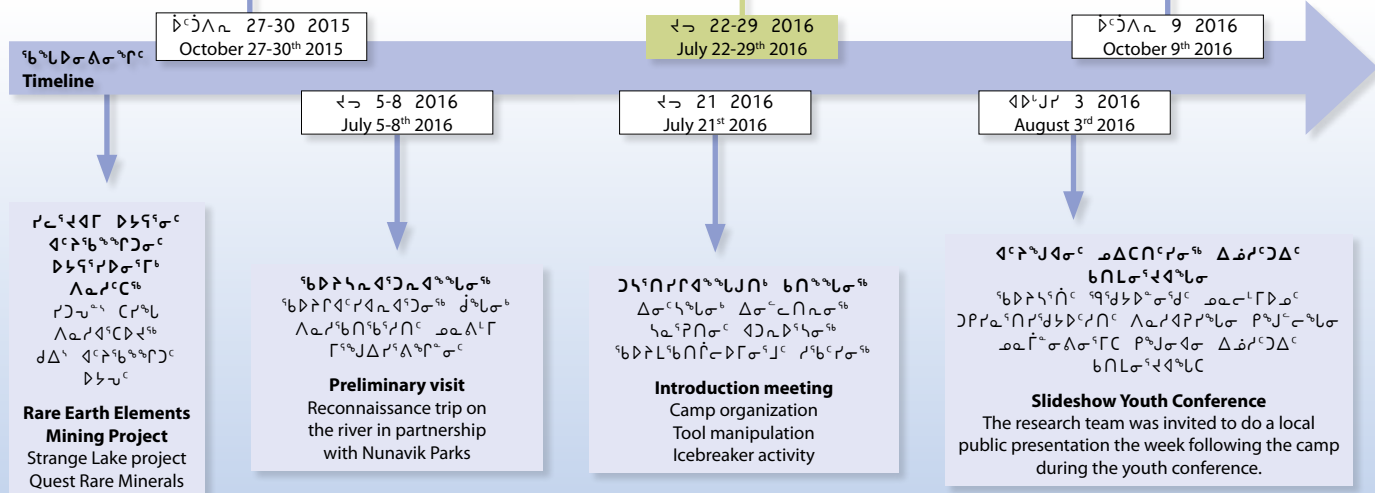
Community Consultation
Municipal Council
Landholding Corporation
Culture Committee
Youth Committee



ᓄᓇᑦᑎᓂᖅ ᓄᓇᑦᑎᓂᖅ ᑎᖅᑎᓂᖅ
Science Land Camp 2016

ᐃᓄᐱᑦ ᖃᐅᐱᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ
ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ
ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ ᐃᓄᓂᖅᑎᓂᖅᑎᓂᖅ
ᐃᓄᓂᖅᑎᓂᖅᑎᓂᖅ ᐃᓄᓂᖅᑎᓂᖅᑎᓂᖅ
ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ ᓄᓇᑦᑎᓂᖅᑎᓂᖅᑎᓂᖅ
ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ ᑎᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ
ᓄᓇᑦᑎᓂᖅᑎᓂᖅᑎᓂᖅᑎᓂᖅ

Inuit Studies Presentation
The mayor and one student were involved in an oral presentation about this whole experience at the 20th Biennial Inuit Studies Conference in St-Johns, Newfoundland.



ΔΛΓΛΓΓ: ΔΛΓΓ ΓΜΔΓΓΓΓΓΓΓΓ ΓΜΔΓΓΓΓΓ

IMALIRIJIT: Water Quality Results

Μετρήσεις πεδίου

Οι μετρήσεις πραγματοποιήθηκαν με τη βοήθεια χειροκίνητων κιτ μετρήσεων φυσικών και χημικών παραμέτρων ποιότητας νερού. Τα αποτελέσματα των μετρήσεων είναι ο μέσος όρος των μετρήσεων που έγιναν σε δύο σημεία ανά σταθμό. Τα αποτελέσματα των μετρήσεων είναι: 17.8°C, 6.75, 10.10 και 4.58.

Field measurements

Manual kits were used by the students to measure physical and chemical water quality parameters and the results were combined with those obtained with an electronic probe. Field measurements were made twice at each sampling station and results are showing the mean value.

pH

Ο pH μετράται με τη βοήθεια ηλεκτρονικού μετρητή pH. Η κλίμακα του pH είναι από 0 έως 14, με 7 να είναι το ουδέτερο σημείο. Τα αποτελέσματα των μετρήσεων είναι: 6.75, 7.05 και 6.60.

pH

Measuring pH allows to determine if the water sample is acid (like a lemon), basic (like bleach) or neutral (like distilled water). pH is measured on a scale of 0 to 14; 7 is the neutral value. The pH of a river water is usually stable and stands between 6 and 8.5. The mean pH of our water samples was 7.05. To compare, the mean pH value of the Koroc River (Nunavik) was 6.60 in 2015.

Ποσοτήτες ΓΜΔΓΓΓΓΓΓΓΓ ΓΓΓΓ

Οι ποσοτήτες ΓΜΔΓΓΓΓΓΓΓΓ ΓΓΓΓ μετράται με τη βοήθεια ηλεκτρονικού μετρητή nitrogen (N) και phosphorus (P). Τα αποτελέσματα των μετρήσεων είναι: 0.120 και 0.0100 mg/L.

Nutrients

The nutrient analyses include the measurement of nitrogen (N) and phosphorus (P) concentrations. In the South, nutrient overload is often caused by fertilizer release in water. Nutrient levels in the George River are expected to be low, because agricultural areas do not surround the river. The mean concentrations of N and P in our water samples were respectively 0.120 milligrams per liter (mg/L) and 0.0100 mg/L.

Θερμότητα

Η θερμοκρασία μετράται με τη βοήθεια θερμομέτρου. Τα αποτελέσματα των μετρήσεων είναι: 16°C και 11°C.

Temperature

Temperature is a variable parameter, changing between day and night, along weeks, months and seasons. It is measured with a thermometer. The mean temperature of our water samples was 16 degrees Celsius (°C). To compare, the mean temperature of the surface water of the Koroc River (Nunavik) was 11°C in September 2010.

ΓΜΔΓΓΓΓΓΓΓΓ ΓΜΔΓΓΓΓΓΓ

Τα αποτελέσματα των μετρήσεων είναι: 0.32 και 0.0100 mg/L.

Laboratory analyses

Water samples were collected and sent to accredited laboratories (Environment Canada and the University of Montreal) for nutrient, chlorophyll and trace metal analyses.

ΑΠΟΤΕΛΕΣΜΑΤΑ ΓΜΔΓΓΓΓΓΓΓΓ ΓΓΓΓ

Τα αποτελέσματα των μετρήσεων είναι: 0.32 και 0.0100 mg/L.

Chlorophyll

Essential to capture the energy of the sun, chlorophyll is a pigment found in plants and algae. Chlorophyll concentration can be related to the abundance of phytoplankton and micro-algae living in water. The mean concentration of chlorophyll in our water samples was 0.32 micrograms per liter. No comparison value is available for chlorophyll in the Koroc River (Nunavik).

Παράμετρος Parameter	Θερμότητα Temperature	pH	Διαλυμένο οξυγόνο Dissolved oxygen	Σκληρότητα Hardness
Μονάδες Units	°C	-	mg/L-λίτρο mg/L	mg/L-λίτρο CaCO ₃ mg/L CaCO ₃
Σταθμός 1 / Station 1	17.8	6.75	10.10	4.58
Σταθμός 2 / Station 2	13.2	7.06	11.51	3.07
Σταθμός 3 / Station 3	17.7	7.16	10.06	4.49
Σταθμός 4 / Station 4	16.0	7.11	10.40	4.17
Σταθμός 5 / Station 5	16.1	7.18	10.80	4.11

