



JOA Surveys, LLC
SURVEYING GPS TIDES HYDROGRAPHY

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Date: June 27, 2010

To: Kevin Morgan
Fugro EarthData, Inc
Frederick, Maryland

FM: John Oswald
JOA-Anchorage

Re: Transmittal of survey data for 6 Alaska sites

I have posted the digital data to your ftp site and sent a CD via Fed X to you in Frederick.

Six sites total:

- Point 1: Tanana State Forest (previously called Goldstream)
- Point 2: Fairbanks Airport
- Point 3: Salcha
- Point 4: Denali Highway
- Point 5: Little Nelchina River
- Point 6: Peters Creek (previously called Chugiak)

Field work was performed during June 21-25, 2010. Two Topcon Hiper + GPS receivers were used. No GLONASS data was collected due to memory capacity in the receivers. All HI's were 2.000 meters (top of mark to ARP). All points were marked with a 6" long 5/8" diameter, threaded rod, top is flush with the ground. Three hours of 1 second GPS data was collected at sites 1, 2, 3, 5, and 6. The receivers were set to 5 second rate at site 4, and over 10 hours of data was collected overnight.

The digital data is organized by site and X Band/P Band; with subdirectories for the field form, OPUS solution (Rapid ephemeris), photos, and raw data (both native format and Rinex 30 second data). Additionally a Google image is provided for each site.

I have extra P Band and X band reflectors in my shop. Would you want them in Fairbanks? The new ones made by DMC were not crated or boxed.

Let me know if you have questions. Good luck with data acquisition.