

Focus Area Discharge measurement Locations

Shapefile



Tags

Susitna-Watana Hydroelectric Project, Susitna River, Alaska, September 2014

Summary

This shapefile was developed under the Fluvial Geomorphology Modeling below Watana Dam Study (Revised Study Plan [RSP] 6.6). The overall goal of RSP Study 6.6 is to model the potential effects of the proposed Project on the fluvial geomorphology of the Susitna River and to assist in predicting the magnitude of geomorphic response. More specifically, the purpose of the modeling study, along with the Geomorphology Study (RSP Study 6.5), is to assess the potential impact of the Project on the behavior of the river downstream of the proposed dam, with particular focus on potential changes in instream and riparian habitat. The models in the Fluvial Geomorphology Modeling below Watana Dam Study include hydraulic and sediment transport models of (1) sediment processes at selected tributaries to evaluate sediment supplies and tributary delta effects, (2) reach-scale processes of the Susitna River system below Watana Dam including major tributaries, and (3) local-scale processes at selected Focus Areas in the Middle Susitna River.

Description

The overall goal of this effort was to collect discharge measurements in areas with the potential to be affected by construction and operation of the proposed Susitna-Watana Hydroelectric Project in Alaska. Over the course of the cumulative field data collection effort (2013 and 2014), all Focus Area Discharge measurements were performed in 2014.

The shapefile is a series of points representing locations of discharge measurements in 7 Focus Areas including FA-104 Whiskers Slough, FA-113 Oxbow I, FA-115 Slough 6A, FA-128 Slough 8A, FA-138 Gold Creek, FA-141 Indian River, and FA-144 Slough 21. The effort supports 2-dimensional modeling performed within the Fluvial Geomorphology Modeling Study and was performed in conjunction with the Fish and Aquatics IFS (Study 8.5). The discharge measurements were collected in the clear water portions of the lateral habitat. The purpose of this effort is quantify the ground water and/or upland water flow into the Focus Areas. The discharge measurements will be performed per the protocols identified in the Fish and Aquatics IFS.

Credits

Alaska Energy Authority;
Tetra Tech

Use limitations

None

Extent

West	-150.166425	East	-149.574822
North	62.816710	South	62.371080

Scale Range**Maximum (zoomed in)** 1:5,000**Minimum (zoomed out)** 1:150,000,000**ArcGIS Metadata ►****Topics and Keywords ►**

* CONTENT TYPE Downloadable Data
 EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS Susitna River, Alaska

TEMPORAL KEYWORDS September 2014

THEME KEYWORDS Susitna-Watana Hydroelectric Project, Susitna River

Hide Topics and Keywords ▲

Citation ►

TITLE Focus Area Discharge measurement Locations
 ALTERNATE TITLES SuWa_6_6_FocusArea_Qmeas_20170630
 PUBLICATION DATE 2017-06-30 00:00:00

PRESENTATION FORMATS * digital map
 FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

Hide Citation ▲

Citation Contacts ►

RESPONSIBLE PARTY
 ORGANIZATION'S NAME Tetra Tech
 CONTACT'S ROLE originator

Hide Citation Contacts ▲

Resource Details ►

DATASET LANGUAGES * English (UNITED STATES)
 DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed
 SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.4.1.5686

CREDITS
 Alaska Energy Authority;
 Tetra Tech

ARCGIS ITEM PROPERTIES
 * NAME SuWa_6_6_FocusArea_Qmeas_20170630
 * SIZE 0.001
 * LOCATION file:///\\DIVD-HK31VR1
 \\H\$\Metadata\Field_Data\Field_Data\SuWa_6_6_FocusArea_Qmeas_20170630

\\SuWa_6_6_FocusArea_Qmeas_20170630\\SuWa_6_6_FocusArea_Qmeas_20170630.shp
 * ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION

ground condition

TEMPORAL EXTENT

BEGINNING DATE 2014-09-23 00:00:00

ENDING DATE 2014-09-27 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -150.16642529400903

EAST LONGITUDE -149.57482193502804

SOUTH LATITUDE 62.37107985273932

NORTH LATITUDE 62.81670968590773

EXTENT CONTAINS THE RESOURCE Yes

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -150.166425

* EAST LONGITUDE -149.574822

* NORTH LATITUDE 62.816710

* SOUTH LATITUDE 62.371080

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 1612578.000000

* EAST LONGITUDE 1711539.000000

* SOUTH LATITUDE 3058879.000000

* NORTH LATITUDE 3221584.000000

* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME Alaska Energy Authority

CONTACT'S ROLE owner

CONTACT INFORMATION ►

PHONE

VOICE 907-771-3000

FAX 907-771-3044

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TYPE both

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POINT OF CONTACT

ORGANIZATION'S NAME Tetra Tech
CONTACT'S POSITION Principal Investigator for Geomorphology Study
CONTACT'S ROLE principal investigator

CONTACT INFORMATION ►

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY not planned

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

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CONSTRAINTS

LIMITATIONS OF USE

None

[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

* TYPE Projected
 * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
 * PROJECTION NAD_1983_StatePlane_Alaska_4_FIPS_5004_Feet
 * COORDINATE REFERENCE DETAILS
 PROJECTED COORDINATE SYSTEM
 WELL-KNOWN IDENTIFIER 102634
 X ORIGIN -16806300
 Y ORIGIN -52448700
 XY SCALE 137255069.87923574
 Z ORIGIN -100000
 Z SCALE 10000
 M ORIGIN -100000
 M SCALE 10000
 XY TOLERANCE 0.0032808333333333331
 Z TOLERANCE 0.001
 M TOLERANCE 0.001
 HIGH PRECISION true
 LATEST WELL-KNOWN IDENTIFIER 102634
 WELL-KNOWN TEXT PROJCS["NAD_1983_StatePlane_Alaska_4_FIPS_5004_Feet",GEOGCS
 ["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID
 ["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT
 ["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER
 ["False_Easting",1640416.666666667],PARAMETER["False_Northing",0.0],PARAMETER
 ["Central_Meridian",-150.0],PARAMETER["Scale_Factor",0.9999],PARAMETER
 ["Latitude_Of_Origin",54.0],UNIT["Foot_US",0.3048006096012192],AUTHORITY
 ["Esri",102634]]

REFERENCE SYSTEM IDENTIFIER

* VALUE 102634
 * CODESPACE Esri
 * VERSION 8.0.1

Hide Spatial Reference ▲

Spatial Data Properties ►

VECTOR ►

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME SuWa_6_6_FocusArea_Qmeas_20170630
 * OBJECT TYPE point
 * OBJECT COUNT 52

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME SuWa_6_6_FocusArea_Qmeas_20170630
 * FEATURE TYPE Simple
 * GEOMETRY TYPE Point
 * HAS TOPOLOGY FALSE
 * FEATURE COUNT 52
 * SPATIAL INDEX FALSE
 * LINEAR REFERENCING FALSE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Geoprocessing history ►

[Hide Geoprocessing history ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

ORGANIZATION'S NAME Alaska Energy Authority
CONTACT'S ROLE distributor

CONTACT INFORMATION ►

PHONE

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TYPE both
DELIVERY POINT 813 West Northern Lights Boulevard
CITY Anchorage
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COUNTRY US
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[Hide Contact information ▲](#)

ORDERING PROCESS

TERMS AND FEES None

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

* NAME Shapefile

TRANSFER OPTIONS

* TRANSFER SIZE 0.001

ONLINE SOURCE

LOCATION http://gis.suhydro.org/SuWa/06-GEO/6.06-GEOMOD/GIS/Field_Data

ONLINE SOURCE

LOCATION <http://www.susitna-watanahydro.org/type/documents/>
NAME "06.06 Fluvial Geomorphology Modeling below Watana Dam - 2014-2015 Study Implementation Report (Part 1 of 4)" under "November 2015; Study Completion and 2014/2015 Implementation Reports"

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT SuWa_6_6_FocusArea_Qmeas_20170630 ►

* TYPE Feature Class

* ROW COUNT 52

DEFINITION

2014 Focus Area Discharge Measurements

DEFINITION SOURCE

Tetra Tech

FIELD FID ►

- * ALIAS FID
- * DATA TYPE OID
- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Internal feature number.
- * DESCRIPTION SOURCE
Esri
- * DESCRIPTION OF VALUES
Sequential unique whole numbers that are automatically generated.

Hide Field FID ▲

FIELD Shape ►

- * ALIAS Shape
- * DATA TYPE Geometry
- * WIDTH 0
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Feature geometry.
- * DESCRIPTION SOURCE
Esri
- * DESCRIPTION OF VALUES
Coordinates defining the features.

Hide Field Shape ▲

FIELD Date ►

- * ALIAS Date
- * DATA TYPE Date
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
The date on which the sample point was collected
- DESCRIPTION SOURCE
Tetra Tech
- DESCRIPTION OF VALUES
Date

Hide Field Date ▲

FIELD Flow_cfs ►

- * ALIAS Flow_cfs
- * DATA TYPE Double
- * WIDTH 16
- * PRECISION 15
- * SCALE 6

FIELD DESCRIPTION

Measurement or estimation of discharge in cubic feet per second

DESCRIPTION SOURCE

Tetra Tech

DESCRIPTION OF VALUES

Discharge measurement or estimation

Hide Field Flow_cfs ▲

FIELD Note ►

- * ALIAS Note
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Note on how discharge value was acquired - measurement with velocity meter or headphones vs estimation

DESCRIPTION SOURCE

Tetra Tech

DESCRIPTION OF VALUES

Note on Discharge

Hide Field Note ▲

FIELD Location ►

- * ALIAS Location
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Description of location where sample point was collected

DESCRIPTION SOURCE

Tetra Tech

DESCRIPTION OF VALUES

Location

Hide Field Location ▲

FIELD PRM ►

- * ALIAS PRM
- * DATA TYPE Double
- * WIDTH 16
- * PRECISION 15
- * SCALE 6

FIELD DESCRIPTION

Project River Mile of sample location

DESCRIPTION SOURCE

Tetra Tech

DESCRIPTION OF VALUES

Project River Mile

Hide Field PRM ▲

FIELD Northingft ►

- * ALIAS Northingft
- * DATA TYPE Double
- * WIDTH 16
- * PRECISION 15
- * SCALE 6

FIELD DESCRIPTION

Sample location coordinate Northing in Alaska State Plane Zone 4 (5004) feet

DESCRIPTION SOURCE

Tetra Tech

DESCRIPTION OF VALUES

Sample location northing (in feet)

Hide Field Northingft ▲

FIELD Eastingft ►

- * ALIAS Eastingft
- * DATA TYPE Double
- * WIDTH 16
- * PRECISION 15
- * SCALE 6

FIELD DESCRIPTION

Sample location coordinate Easting in Alaska State Plane Zone 4 (5004) feet.

DESCRIPTION SOURCE

Tetra Tech

DESCRIPTION OF VALUES

Sample location easting (in feet)

Hide Field Eastingft ▲

FIELD FA ►

* ALIAS FA
 * DATA TYPE String
 * WIDTH 254
 * PRECISION 0
 * SCALE 0

FIELD DESCRIPTION

Focus Area where sample point was collected

DESCRIPTION SOURCE

Tetra Tech

DESCRIPTION OF VALUES

Focus Area

Hide Field FA ▲

FIELD DataLink ►

* ALIAS DataLink
 * DATA TYPE String
 * WIDTH 250
 * PRECISION 0
 * SCALE 0

FIELD DESCRIPTION

Hyperlink to downloadable dataset on AEA server

DESCRIPTION SOURCE

Tetra Tech/AEA

DESCRIPTION OF VALUES

Hyperlink to downloadable dataset on AEA server: http://gis.suhydro.org/SuWa/06-GEO/6.06-GEOMOD/GIS/Field_Data

Hide Field DataLink ▲

FIELD DocLink ►

* ALIAS DocLink
 * DATA TYPE String
 * WIDTH 254
 * PRECISION 0
 * SCALE 0

FIELD DESCRIPTION

Link to associated downloadable report on AEA server

DESCRIPTION SOURCE

Tetra Tech/AEA

DESCRIPTION OF VALUES

Link to associated downloadable reports on AEA server: "06.06 Fluvial Geomorphology Modeling below Watana Dam - 2014-2015 Study Implementation Report (Part 1 of 4)" under "November 2015; Study Completion and 2014/2015 Implementation Reports"

Hide Field DocLink ▲

[Hide Details for object SuWa_6_6_FocusArea_Qmeas_20170630](#) ▲

[Hide Fields](#) ▲

Metadata Details ►

- * METADATA LANGUAGE English (UNITED STATES)
- * METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset
SCOPE NAME * dataset

* LAST UPDATE 2017-06-29

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
METADATA STYLE FGDC CSDGM Metadata
STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2015-10-09 11:08:57
LAST MODIFIED IN ARCGIS FOR THE ITEM 2017-06-29 18:12:45

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2017-06-29 18:12:45

[Hide Metadata Details](#) ▲

Metadata Contacts ►

METADATA CONTACT

ORGANIZATION'S NAME Alaska Energy Authority
CONTACT'S ROLE owner

CONTACT INFORMATION ►

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POSTAL CODE 99503
COUNTRY US
E-MAIL ADDRESS SUWAhelp@aidea.org

[Hide Contact information](#) ▲

[Hide Metadata Contacts](#) ▲

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY not planned

[Hide Metadata Maintenance ▲](#)

Thumbnail and Enclosures ▶

THUMBNAIL
THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)

FGDC Metadata (read-only) ▼