

*****THIS IS INFORMATIVE ONLY*****
THOSE INTERESTED IN CONTRACTING SHOULD CONTACT THE USGS
AND/OR USGS/NHD PROGRAMS DIRECTLY FOR THE MOST CURRENT
CONTRACTING GUIDANCE

PERFORMANCE WORK STATEMENT (PWS)

**National Wetlands Inventory and National Hydrography Dataset
geospatial data, metadata and final reports**

[Insert funder information]

Part 1

General Information

1. **GENERAL:** This is a non-personnel services contract to provide National Wetlands Inventory (NWI) and National Hydrography Dataset (NHD) geospatial data, metadata and final reports to U.S. Fish and Wildlife Service (USFWS) and to U.S. Geological Survey (USGS). The Government shall not exercise any supervision or control over the contract service providers performing the services herein. Such contract service providers shall be accountable solely to the Contractor who, in turn is responsible to the Government.

1.1 Description of Services/Introduction: The contractor shall provide all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, and other items and non-personal services necessary to perform generation and delivery of NWI and NHD as defined in this Performance Work Statement except for those items specified as government furnished property and services. The contractor shall perform to the standards in this contract.

1.2 Background: The USFWS NWI is a publicly available resource that provides detailed information on the abundance, characteristics, and distribution of wetlands. NWI data is used by natural resource managers, within the USFWS and throughout the Nation, to promote the understanding, conservation and restoration of wetlands and the wildlife dependent on this resource. The USGS NHD is the foundational surface water database across the nation. The NHD is used for science, cartography and natural resource management across the country. Neither the NWI or the NHD are contemporary across Alaska and there are ongoing efforts to update or generate these geospatial assets.

1.3 Objectives: The contract area will [Insert geographic Location]. All mapping will be produced using the [Insert elevation and imagery base spec] and other best available ancillary information. All mapping will be at the [specify base scale and TMU e.g. for CONSU 1:12,000 and 0.5 acre TMU] and comply with standards and specification set forth in this document.

1.4 Scope: Contractors will use best available Near-Infrared (NIR) imagery [insert specify source] and elevation [insert specify source] in conjunction with ancillary data and field sites to create NWI and elevation-derived hydrography (EDH) to update the National Hydrography Dataset.

[Insert specific HUCs for mapping]

Attachment 1: [Map of specific HUCs for mapping]

1. Kick Off Meeting
 - a. A kick-off meeting shall be held to outline communication procedures that shall be followed and as a forum to clarify and resolve collection issues. The kick-off meeting shall be held post-award but no later than two (2) weeks after contract award and prior to any data acquisition.
2. Base Data Acquisition
 - a. The Contractor will provide [insert funder or funder project manager] with an external hard drive within seven (7) days after the contract award for upload of elevation data and imagery for the project area to the hard drive and return it to the contractor.
3. Project management
 - a. [Insert funder] will appoint a [Insert Project manager or Contracting Officer's Representative depending on structure] to attend Contractor meetings to answer technical questions or provide clarification regarding PWS requirements.
 - b. The Contractor shall participate in a kickoff meeting within two (2) weeks of contract award.
 - c. The Contractor shall hold monthly meetings between the [Insert Project manager or Contracting Officer's Representative depending on structure] and Contractor personnel for the express purpose of providing progress updates and schedule quality control reviews.
 - d. The Contractor shall provide monthly status reports, documenting progress, issues or problems encountered.
 - e. Within 90 days of award, the Contractor shall provide deliverables for a mutually agreed upon pilot area of one HU12 for NHD inspection and approval by [Insert Project manager or Contracting Officer's Representative depending on structure] .
 - f. Within 120 days of award, the Contractor shall provide deliverables for a mutually agreed upon 4 mile x 4 mile pilot area for NWI inspection and approval by [Insert Project manager or Contracting Officer's Representative depending on structure] .

- b. [Specify if swamp/marsh features (NHD FCODES 46600, 46601, and 46602) are not to be updated within this Task Order]
- c. The Contractor shall refer to the Elevation-Derived Hydrography—Representation, Extraction, Attribution, and Delineation Rules (READ Rules). The document is available for download here:
<https://pubs.er.usgs.gov/publication/tm11B12>
- d. The contractor shall refer to the Elevation-Derived Hydrography Acquisition Specifications for guidance regard source, horizontal and vertical accuracy, attribution, and metadata requirements. The document is available for download here:
<https://pubs.er.usgs.gov/publication/tm11B11>
- e. The Contractor shall collect and code all features adhering to the Attribution requirements described in the Elevation-Derived Hydrography Acquisition Specifications, included in the Appendix.
- f. In addition to, and superseding the above general requirements:
 - 1. The entire flowline network shall connect to the outlet of the HU8 – no disconnected drainage unless a known exception exists;
 - 2. Flowline features shall be at or below the elevation of the source DTM, but within [insert USGS spec] of the posted elevation.
 - 3. The Contractor shall delineate all stream/river features greater than [insert USGS spec] in width as 2D features.
 - 4. Drainage density (length of flowline divided by area) at the HU12-level shall be within [insert USGS spec] of the drainage density specified in the Elevation-Derived Hydrography Acquisition Specifications available for download here:
<https://pubs.er.usgs.gov/publication/tm11B11> .
 - 5. When incorporating 3DEP breaklines into waterbody polygons
 - a. Z-values from breaklines shall be maintained;
 - b. Waterbody boundaries shall be smoothed horizontally, and should be internal to the original breaklines on the flattened area of the DTM;
 - c. Island features present in the 3DEP breaklines shall be preserved, smoothed horizontally on the flattened area of the DTM;
 - d. Waterbodies present in the 3DEP breaklines but less than 100 feet wide in the shortest axis may be represented as 1D flowlines.
 - 6. Islands larger than 1 acre but not mapped in the 3DEP breaklines shall be delineated.
 - 7. Kettle lakes should generally be connected to the stream network

with "Underground conduit: indefinite" (FCODE 42002) unless a surface connection is evident.

8. Underground conduit: indefinite (FCODE 42002) should be used to connect flowlines through rises adjacent to waterbodies to maintain monotonicity.
6. Creation of a hydro-enforced Digital Terrain Model based on the flow network created in C.1.b.2 above. All cells in the hydro enforced DTM should drain to the outlet(s) of the AOI, and elevations of cells within hydrographic features should agree closely to the z-values in the C.1.b.2 deliverable.
7. Conflation of data from C.1.b.2 to National Hydrography Dataset database. Using the version of the conflation tool current at the time the option is executed, the Contractor shall conflate the data produced in C.1.b.2 for ingestion into the NHD national database including passing the checks in the NHD Update tool and database check-in tools.
8. Update Watershed Boundary Dataset hydrologic unit (HU) boundaries for the AOI based on 3DEP [insert USGS spec/QL] .

Use the "Federal Standards and Procedures for the National Watershed Boundary Dataset (WBD) v4" <http://pubs.usgs.gov/tm/11/a3/pdf/tm11-a3.pdf> for guidance including for coding and naming specifications. Required scale information and base data requirements cited in the fourth edition of the WBD Federal Standards are superseded by the following requirements.

- a. New or updated hydrologic unit delineations for the WBD shall meet a minimum [insert USGS spec/scale] horizontal accuracy specification where [insert USGS spec/scale] or better 3DEP elevation data is available or [insert USGS spec/scale] scale accuracy in the U.S. Territories where updated elevation data is not available. The minimum required base information to use when delineating or deriving WBD hydrologic unit delineations is [insert USGS spec/scale] or better 3D Elevation Program (3DEP) digital elevation data or derivatives including vector contours derived from the 3DEP data. In areas where [insert USGS spec/scale] 3DEP elevation or better is not available, delineations may be based on the best elevation or topographic information available. This minimum required base information supersedes the previous standard Natural Resources Conservation Service (NRCS) 1:24,000-scale County Mosaic Digital Raster Graphics (DRG) used to create the first national WBD.
- b. Hydrography data from the [insert desired spec/scale] or better resolution NHD must be referenced when determining the best placement of hydrologic unit boundaries for the WBD. The NHD also is used to evaluate and verify hydrologic unit connectivity and to determine downstream order of the hydrologic units. Hydrologic unit boundaries in the WBD must be based solely on topographic and

hydrologic criteria and must be defined without regard to administrative or political boundaries, such as State, county, or national forest boundaries, unless the administrative boundary is coincident with a topographic feature that naturally defines the hydrologic unit.

1. WBD edits must be performed after NHD updates have been completed.
 - a. WBD updates may expose errors in the updated NHD that may require NHD revisions
 - b. NHD revisions within the AOI required as a result of WBD edits shall be performed by the Contractor.
 - c. WBD or NHD updates may be identified in adjacent units as WBD is developed
 - d. NHD or WBD edits identified outside the AOI shall be entered into the NHD Markup Tool by the Contractor.
2. Training and coordination
 - a. Contractor's Editors shall have the most up to date editing tools available in accordance to Federal Standards and Procedures for the National WBD.
 - b. The Contractor shall coordinate all proposed new and updated HU delineations; code and name changes; and major changes to 4- to 8-digit HU boundaries in advance with the WBD National Technical Coordination Team (NTC) before implementing updates.
 - c. The Contractor shall provide the location of proposed WBD outlet points to WBD NTC for approval before delineating new or updating existing HU boundaries.
 - d. Editors will coordinate all updates and submittals with the WBD State Steward and the WBD NTC
3. Update 10- and 12-digit HU boundaries using 3DEP [Insert USGS Spec/QL Lidar]
 - a. Draft HU delineations may be created outside the WBD Edit tools using automated or semi-automated methods and tools
 - b. Final updates to the WBD must be completed within an official checkout (Job) and with the latest release of the WBD Edit Tools.
 - i. Polygon attribution must be maintained and updated where needed
 - ii. Line attribution must be maintained and updated where needed.
 - iii. HU codes and names must be developed in accordance to WBD specifications.
4. Update other 4- to 8-digit boundaries from the edits to the 10-, 12-digit boundaries.
 - a. Re-draw the HU8s from the delineation. When WBD tools are used to update the WBD, higher level polygons are updated upon check-in back into the WBD National Dataset.
5. Submit the updated HU boundaries to the WBD for National Quality Control (NQC)

- a. The Contractor shall deliver a point feature class of the location of outlet point for each delineated 12-digit HU to the WBD NTC.
 - b. The point feature class shall include an attribute identifying the code of the hydrologic unit the point represents.
 - i. All HU boundaries updated in this project will be uploaded using the latest release of WBD Edit Tools
 - ii. The USFWS, or their designee and/or WBD NTC will review data for inclusion to the National WBD
 - iii. Any revisions deemed necessary by the WBD NTC will be sent back to the editors for correction and re-delivery
6. Upon approval the updates will be submitted by the WBD NTC back into the national WBD.

1.5 Period of Performance:

The period of performance shall be for 30 months.

Key Deliverables

Item No.	Deliverable	Objective	Due
1	<i>Proposed Project Plan</i>	<i>Defining the responsibilities, timeline, risks, and milestones of contract objectives. Ref. Subtask 4.1.3</i>	<i>No later than five (5) business days after contract award</i>
2	<i>Monthly Status Report</i>	<i>Report documenting tasks & issues weekly. Ref. Task 5.1</i>	<i>First day of the month by 5:00 pm (AST) until the contract expires</i>
3	<i>NHD Pilot</i>	<i>NHD test for agreed upon pilot watershed</i>	<i>No later than 90 days after contract award</i>
4	<i>NWI Pilot</i>	<i>NWI test for agreed upon pilot area</i>	<i>No later than 120 days after contract award</i>
5	<i>Field Work Plan</i>	<i>Complete field work plan with field validation points, permits, etc.</i>	<i>No later than</i>
6	<i>Field Summary Report</i>	<i>Complete field work deliverables including geotagged photos, field sheets and summary of findings</i>	<i>No later than</i>
5	<i>NHD geodatabase initial submission</i>	<i>NHD geodatabase delivered for initial QC</i>	<i>No later than</i>
6	<i>NWI geodatabase initial submission</i>	<i>NWI geodatabase delivered for initial QC</i>	<i>No later than</i>
7	<i>NHD final submission</i>	<i>NHD geodatabase with QC and conflation completed</i>	<i>No later than</i>
8	<i>NWI final submission</i>	<i>NWI geodatabase with QC completed</i>	<i>No later than</i>

9	<i>WBD initial submission</i>	<i>WBD geodatabase delivered for initial QC</i>	<i>No later than</i>
10	<i>WBD final submission</i>	<i>WBD geodatabase delivered and conflation completed</i>	<i>No later than</i>
11	<i>Final Reporting</i>	<i>Final reporting and hard-drive provided containing all deliverables</i>	<i>No later than</i>

1.6 General Information

1.6.1 Quality Control: The contractor shall develop and maintain an effective quality control program to ensure services are performed in accordance with this PWS. The contractor shall develop and implement procedures to identify, prevent, and ensure non-recurrence of defective services. The contractor's quality control program is the means by which he assures himself that his work complies with the requirement of the contract. Quality control for NWI and NHD will be completed in accordance with QC procedures identified in the following downloadable/hyperlinked documents:

[NWI Data Quality Control Plan](#)

[FGDC Wetlands Mapping Standard](#)

[FGDC Classification of Wetlands and Deepwater Habitats of the United States](#)

[Elevation-Derived Hydrography Acquisition Specifications \(Techniques and Methods 11-B11\)](#)

[Elevation-Derived Hydrography Representation, Extraction, Attribution and Delineation Rules \(Techniques and Methods 11-B12\)](#)

USFWS and USGS are responsible for verification that data meet quality control requirements for acceptance into the NWI and NHD databases. [insert funder will not make final payment until data is accepted into the national databases.]

[for federal contracts: 1.6.2 Quality Assurance: The government shall evaluate the contractor's performance under this contract in accordance with the Quality Assurance Surveillance Plan. This plan is primarily focused on what the Government must do to ensure that the contractor has performed in accordance with the performance standards. It defines how the performance standards will be applied, the frequency of surveillance, and the minimum acceptable defect rate(s). Quality assurance for NWI and NHD will be completed in accordance with QA procedures identified in the Appendix. USFWS, or their designee, will be responsible for verification that data meet quality assurance requirements for acceptance into the NWI and NHD databases.]

1.6.3 Recognized Holidays: The contractor is not required to perform work on holidays.

New Year's Day

Labor Day

Martin Luther King Jr.'s Birthday

Columbus Day

President's Day
Memorial Day
Independence Day

Veteran's Day
Thanksgiving Day
Christmas Day

1.6.4 Hours of Operation: [Insert any required hours]

1.6.5 Place of Performance: [Insert any required place of work]

1.6.6 Type of Contract: [Insert type of contract e.g. fixed price]

1.6.7 Security Requirements: [Insert security or no security requirements]

1.6.7.1 PHYSICAL Security: [Insert data security or no security requirements]

1.6.7.2 Key Control. [Insert security or no security requirements]

1.6.7.3 Lock Combinations. [Insert security or no security requirements]

1.6.8 Special Qualifications: [Insert specific qualification requirements]

1.6.9 Post Award Conference/Periodic Progress Meetings: [Insert contracting requirements, e.g. The Contractor agrees to attend any post award conference convened by the contracting activity or contract administration office in accordance with Federal Acquisition Regulation Subpart 42.5. Appropriate action shall be taken to resolve outstanding issues. These meetings shall be at no additional cost to the government.]

1.6.10 Contracting Officer Representative (COR): [Insert specific COR requirements, if applicable]

1.6.11 Key Personnel: The contractor shall provide a contract manager who shall be responsible for the performance of the work. The name of this person and an alternate who shall act for the contractor when the manager is absent shall be designated in writing to the contracting officer. The contract manager or alternate shall have full authority to act for the contractor on all contract matters relating to daily operation of this contract. The contract manager or alternate shall be available between 8:00 a.m. and 1:00 p.m. Alaska time, Monday thru Friday except Federal holidays or when the government facility is closed for administrative reasons.

1.6.12 Identification of Contractor Employees: All contract personnel attending meetings, and working in other situations where their contractor status is not obvious to third parties are required to identify themselves as such to avoid creating an impression in the minds of members of the public that they are Government officials. They must also ensure that all documents or reports produced by contractors are suitably marked as contractor products or that contractor participation is appropriately disclosed.

1.6.13 Contractor Travel: Contractor will be required to conduct field work activities in order to adequately delineate and classify wetland habitats. Field work activities shall be the minimum required to establish an understanding of wetland systems. Field work activities, including travel to/from duty station to field, shall not exceed 40 total travel days (e.g. 2 people for 20 days, 4 people for 10 days). Contractor will be authorized travel expenses consistent with the substantive provisions of the Joint Travel Regulation (JTR) and the limitation of funds specified in this contract. All travel requires Government approval/authorization and notification to the COR.

1.6.14 Other Direct Costs: This category includes travel (outlined in 1.6.13), reproduction, and shipping expenses associated with training activities and visits to contractor facilities. It could also entail the renting of suitable training venues.

1.6.15 Data Rights: The Government has unlimited rights to all documents/materials produced under this contract. All documents and materials, to include field photos, field sheets, the source codes of any software, produced under this contract shall be Government owned and are the property of the Government with all rights and privileges of ownership/copyright belonging exclusively to the Government. These documents and materials may not be used or sold by the contractor without written permission from the Contracting Officer. All materials supplied to the Government shall be the sole property of the Government and may not be used for any other purpose. This right does not abrogate any other Government rights.

1.6.16 Organizational Conflict of Interest: Contractor and subcontractor personnel performing work under this contract may receive, have access to or participate in the development of proprietary or source selection information (e.g., cost or pricing information, budget information or analyses, specifications or work statements, etc.) or perform evaluation services which may create a current or subsequent Organizational Conflict of Interests (OCI) as defined in FAR Subpart 9.5. The Contractor shall notify the Contracting Officer immediately whenever it becomes aware that such access or

participation may result in any actual or potential OCI and shall promptly submit a plan to the Contracting Officer to avoid or mitigate any such OCI. The Contractor's mitigation plan will be determined to be acceptable solely at the discretion of the Contracting Officer and in the event the Contracting Officer unilaterally determines that any such OCI cannot be satisfactorily avoided or mitigated, the Contracting Officer may effect other remedies as he or she deems necessary, including prohibiting the Contractor from participation in subsequent contracted requirements which may be affected by the OCI.

1.6.17 PHASE IN /PHASE OUT PERIOD: Not applicable.

PART 2

DEFINITIONS & ACRONYMS

2. DEFINITIONS AND ACRONYMS:

2.1. DEFINITIONS:

2.1.1. **CONTRACTOR.** A supplier or vendor awarded a contract to provide specific supplies or service to the government. The term used in this contract refers to the prime.

2.1.2. **CONTRACTING OFFICER (CO).** A person with authority to enter into, administer, and or terminate contracts, and make related determinations and findings on behalf of the government. Note: The only individual who can legally bind the government.

2.1.3. **CONTRACTING OFFICER'S REPRESENTATIVE (COR).** An employee of the U.S. Government appointed by the contracting officer to administer the contract. Such appointment shall be in writing and shall state the scope of authority and limitations. This individual has authority to provide technical direction to the Contractor as long as that direction is within the scope of the contract, does not constitute a change, and has no funding implications. This individual does NOT have authority to change the terms and conditions of the contract.

2.1.4. **DEFECTIVE SERVICE.** A service output that does not meet the standard of performance associated with the Performance Work Statement.

2.1.5. **DELIVERABLE.** Anything that can be physically delivered, but may include non-manufactured things such as meeting minutes or reports.

2.1.6. **KEY PERSONNEL.** Contractor personnel that are evaluated in a source selection process and that may be required to be used in the performance of a contract by the Key Personnel listed in the PWS. When key personnel are used as an evaluation factor in best value procurement, an offer can be rejected if it does not have a firm commitment from the persons that are listed in the proposal.

2.1.7. **PHYSICAL SECURITY.** Actions that prevent the loss or damage of Government property.

2.1.8. **QUALITY ASSURANCE.** The government procedures to verify that services being performed by the Contractor are performed according to acceptable standards.

2.1.9. **QUALITY ASSURANCE Surveillance Plan (QASP).** An organized written document specifying the surveillance methodology to be used for surveillance of contractor performance.

2.1.10. **QUALITY CONTROL.** All necessary measures taken by the Contractor to assure that the quality of an end product or service shall meet contract requirements.

2.1.11. **SUBCONTRACTOR.** One that enters into a contract with a prime contractor. The Government does not have privity of contract with the subcontractor.

2.1.12. **WORKDAY.** The number of hours per day the Contractor provides services in accordance with the contract.

2.1.12. **WORK WEEK.** Monday through Friday, unless specified otherwise.

2.2. ACRONYMS:

ACOR	Alternate Contracting Officer's Representative
AFARS	Army Federal Acquisition Regulation Supplement
AR	Army Regulation
AST	Arizona Standard Time
CCE	Contracting Center of Excellence
CFR	Code of Federal Regulations
CO	Contracting Officer
COR	Contracting Officer Representative
COTR	Contracting Officer's Technical Representative
COTS	Commercial-Off-the-Shelf
DA	Department of the Army
DD250	Department of Defense Form 250 (Receiving Report)
DD254	Department of Defense Contract Security Requirement List
DFARS	Defense Federal Acquisition Regulation Supplement
DMDC	Defense Manpower Data Center
DOD	Department of Defense
DRG	Digital Raster Graphics
DTM	Digital Terrain Model
EDH	Elevation-Derived hydrography
EPSG	European Petroleum Survey Group
FAR	Federal Acquisition Regulation
HIPAA 1996	Health Insurance Portability and Accountability Act of 1996
HU	Hydrologic Unit
HUCS	Hydrologic Unit Codes
IfSAR	Interferometric Synthetic Aperture Radar
KO	Contracting Officer
LiDAR	Light Detection and Ranging
MAXAR	Maxar Technologies is a space technology company
NHD	National Hydrography Dataset
NIR	Near-Infrared
NQC	National Quality Control
NRCS	Natural Resources Conservation Service

NWI	National Wetlands Inventory
NTC	National Technical Coordination
OCI	Organizational Conflict of Interest
OCONUS	Outside Continental United States (includes Alaska and Hawaii)
ODC	Other Direct Costs
PIPO	Phase In/Phase Out
POC	Point of Contact
PRS	Performance Requirements Summary
PWS	Performance Work Statement
QA	Quality Assurance
QAP	Quality Assurance Program
QASP	Quality Assurance Surveillance Plan
QC	Quality Control
QCP	Quality Control Program
READ	Representation, Extraction, Attribution, and Delineation Rules
TE	Technical Exhibit
TMU	Target Mapping Unit
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
WBD	Watershed Boundary Dataset

PART 3

GOVERNMENT FURNISHED PROPERTY, EQUIPMENT, AND SERVICES

3. [Insert Funder] FURNISHED ITEMS AND SERVICES:

- 3.1. Services: [Insert Funder or partner furnished services, if applicable]
- 3.2 Facilities: [Insert Funder or partner furnished facilities, if applicable]
- 3.3 Utilities: [Insert Funder or partner furnished utilities, if applicable]
- 3.4 Equipment: [Insert Funder or partner furnished equipment, if applicable]
- 3.5 Materials: [Insert Funder or partner furnished materials e.g. imagery or LiDAR]

PART 4

CONTRACTOR FURNISHED ITEMS AND SERVICES

4. CONTRACTOR FURNISHED ITEMS AND RESPONSIBILITIES:

4.1 General: The Contractor shall furnish all supplies, equipment, facilities and services required to perform work under this contract that are not listed under Section 3 of this PWS.

4.2. Materials. The Contractor shall furnish ftp sites and/or hard drives to submit interim and final deliverables.

4.3. Equipment. The Contractor shall furnish all equipment necessary to meet the requirements under this PWS.

PART 5 **SPECIFIC TASKS**

5. Specific Tasks:

5.1. Basic Services. The contractor shall provide services for generation of NWI, NHD and WBD data from initiation through acceptance/conflation into the national geodatabases. Interim deliveries can be received via online file transfer. Final delivery will include two copies on hard drives containing digital copies of all products and geodatabases.

The contractor will complete the following tasks:

1. Project kickoff meeting to be held either in-person or by teleconference within 14 days of award.
2. Monthly status reports documenting progress, issues or problems encountered, and any potential changes in delivery timeframes.
3. Monthly status meetings with [Insert funder, USFWS-NWI, and USGS-NHD] staff to resolve any technical issues encountered.
4. [Insert scale] NHD delineated for an agreed upon pilot HU12 area, within 90 days of award.
5. [Insert scale/TMU] NWI delineated for an agreed upon 4 square mile sample area, within 120 days of award.
6. Provide field work images, notes and compiled field report describing activities and decisions made in the field to support mapping activities to [Insert funder, USFWS-NWI and USGS-NHD, as applicable].
7. Complete [Insert scale/TMU] scale NWI geodatabase for full project area, with complete metadata.
8. [Insert scale/TMU] scale NHD geodatabase for full project area, with complete metadata.
9. Ancillary raster datasets created to support delineation of hydrography. This should include a hydro-conditioned DTM with filled sinks identified. Other raster datasets will be mutually agreed upon based upon workflow described in kickoff meeting.

10. A hydro-enforced Digital Elevation Model aligned with the [Insert scale/TMU] scale hydrography data delineated in Task 8.
11. Hydrography data delineated in this project conflated into the National Hydrography Dataset database
12. [Insert scale/TMU] scale watershed boundaries conflated to/accepted by USGS into the WBD for full project area with complete metadata.
13. Final report detailing methodology, project specific conventions and metadata for NWI and NHD.

PART 6
APPLICABLE PUBLICATIONS

6. APPLICABLE PUBLICATIONS (CURRENT EDITIONS):

6.1. The Contractor must abide by all applicable regulations, publications, manuals, and local policies and procedures.

FGDC-STD-015-2009 Wetlands Mapping Standard

FGDC-STD-004-2013 Classification of Wetlands and Deepwater Habitats of the United States

National Wetlands Inventory Data Quality Control Plan

USGS Techniques and Methods 11-B11, Elevation-Derived Hydrography Acquisitions Specifications

USGS Techniques and Methods 11-B12, Elevation-Derived Hydrography Representation, Extraction, Attribution and Delineation Rules

PART 7
ATTACHMENT/TECHNICAL EXHIBIT LISTING

7. Attachment/Technical Exhibit List:

7.1. Attachment 1/Technical Exhibit 1 – Performance Requirements Summary

TECHNICAL EXHIBIT 1

Performance Requirements Summary

The contractor service requirements are summarized into performance objectives that relate directly to mission essential items. The performance threshold briefly describes the minimum acceptable levels of service required for each requirement. These thresholds are critical to mission success.

Performance Objective (The Service required—usually a shall statement)	Standard	Performance Threshold (This is the maximum error rate. It could possibly be “Zero deviation from standard”)	Method of Surveillance
<p>PRS # 1. The contractor shall provide a NHD geodatabase that has been conflated to the USGS master NHD database.</p>	<p>The standards must meet the specification detailed in USGS Techniques and Methods 11-B11, Elevation-Derived Hydrography Acquisitions Specifications and USGS Techniques and Methods 11-B12, Elevation-Derived Hydrography Representation, Extraction, Attribution and Delineation Rules</p>	<p>There must be zero deviation from the standards.</p>	<p>Quality control to ensure standards are met will be performed by USFWS, USGS or their designee.</p>
<p>PRS # 2 The contractor shall provide a NWI geodatabase that has been accepted into the USFWS master NWI geodatabase.</p>	<p>The standards must meet the specification detailed in FGDC-STD-015-2009 Wetlands Mapping Standard, FGDC-STD-004-2013 Classification of Wetlands and Deepwater Habitats of the United States.</p>	<p>There must be zero deviation from the standards.</p>	<p>Quality control to ensure standards are met will be performed by USFWS, USGS or their designee.</p>
<p>PRS # 3 The contractor shall provide a field report and data to convey all field activity work.</p>	<p>All photos will be geotagged and the final field reporting must provide photo examples and a written description of wetland classifications, to the class level; descriptions through water regime are encouraged.</p>	<p>All wetlands, to the class level, must be documented in the field report.</p>	<p>Report reviewed by Alaska USFWS staff, or their designee.</p>