155°W Map 3.2.4-1 Barrow Major Rivers, ARCTIC OCEAN Beaufort Sea **Hydrologic Units** Northwest Coast and Physiographic **Provinces** Chukchi Sea Sources: Wahrhaftig, 1965 USGS- NHD, 2010 USDOI-BLM & USGS, 2010 Wainwright Stream Gauges **Admiralty Bay Dease Inlet** Physiographic Provinces Atqasuk Watershed Boundary 4th level HUC (8-digit) Ikpikpuk River **Harrison Bay** Nuigsut **Meade River** NPR-A Boundary **Kuk River** Arctic Coastal Plain Province Arctic Foothills Province **Utukok River** Lower Colville River **Kokolik River Upper Colville River** Arctic Foothills Province No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data, Arctic Mountains Province **Chandler-Anaktuvuk Rivers** or for purposes not intended by BLM. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification. For Killik River official land status information refer to Cadastral Survey plats, Master Title Plats and land status case-files. Projection: Albers Conic Equal Area referencing NAD83 liddle Noatak River Bureau of Land Management - Alaska Anaktuvuk Pass National Petroleum Reserve - Alaska Final IAP/EIS

155°W Map 3.2.5-1 Barrow ARCTIC OCEAN **Bedrock Geology** Beaufort Sea Sources: Beikman, 1980 Chukchi Sea Bedrock Geology Unit within NPR-A Jurassic, Triassic, and Permian Rocks Jurassic, Triassic, and Wainwright JPvm Permian Mafic Volcanic Rocks Cretace ous and Jurassic Rocks Atqasuk Mississippian Rocks Mesozoic and Paleozoic MzPz Rocks Nuigsut Triassic Rocks Lower Cretaceous Lower Cretaceous Continental Deposit Upper Cretaceous IK Upper Cretaceous Continental Deposit Upper Tertiary Rocks NPR-A Boundary (IKc 1Kc IKc uKc No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data, or for purposes not intended by BLM. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification. For official land status information refer to Cadastral Survey plats, Master Title Plats and land status case-files. IK/ TRP Projection: Albers Conic Equal Area referencing NAD83 IPM Anaktuvuk Pass Bureau of Land Management - Alaska National Petroleum Reserve - Alaska

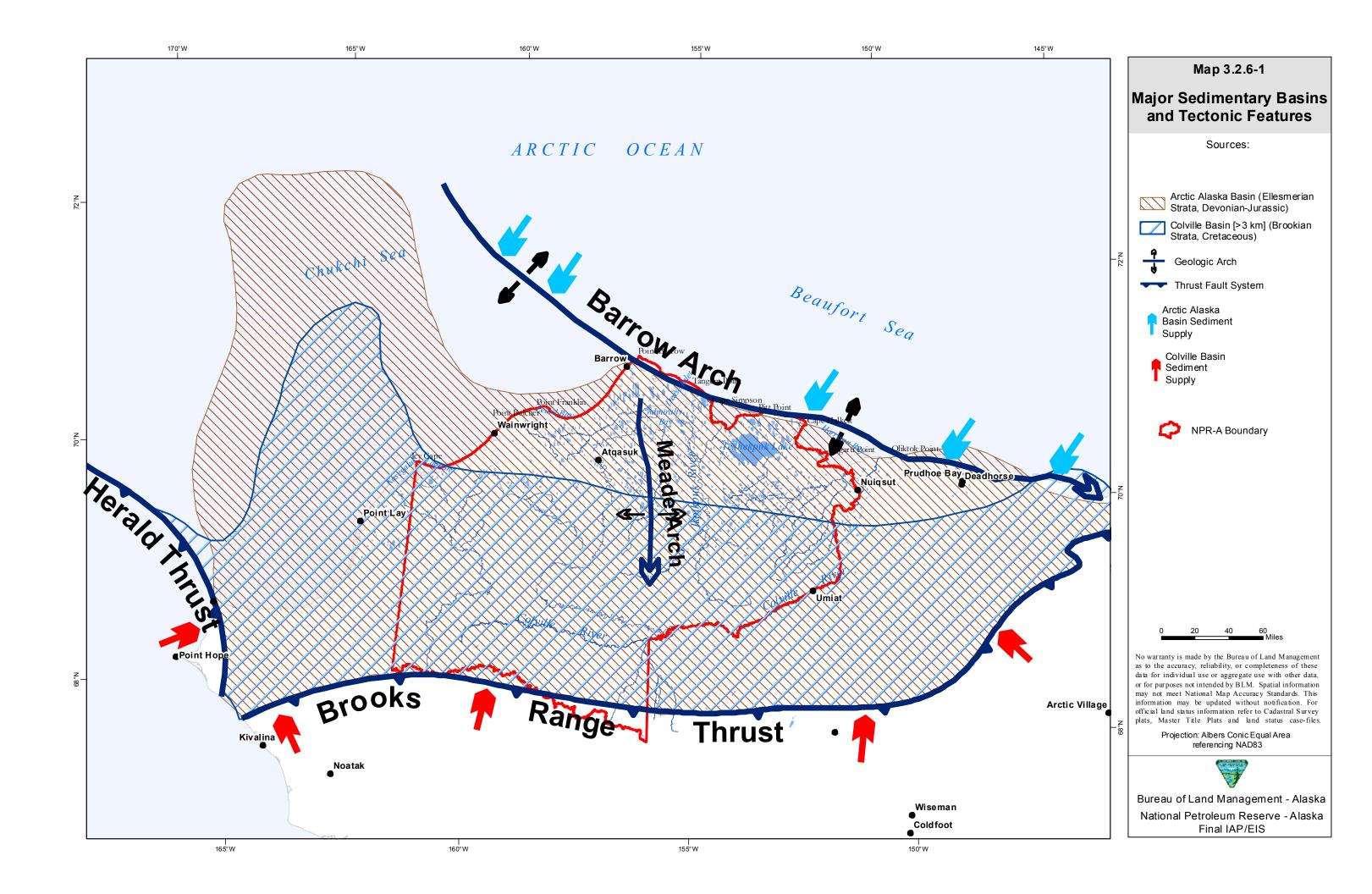
Final IAP/EIS

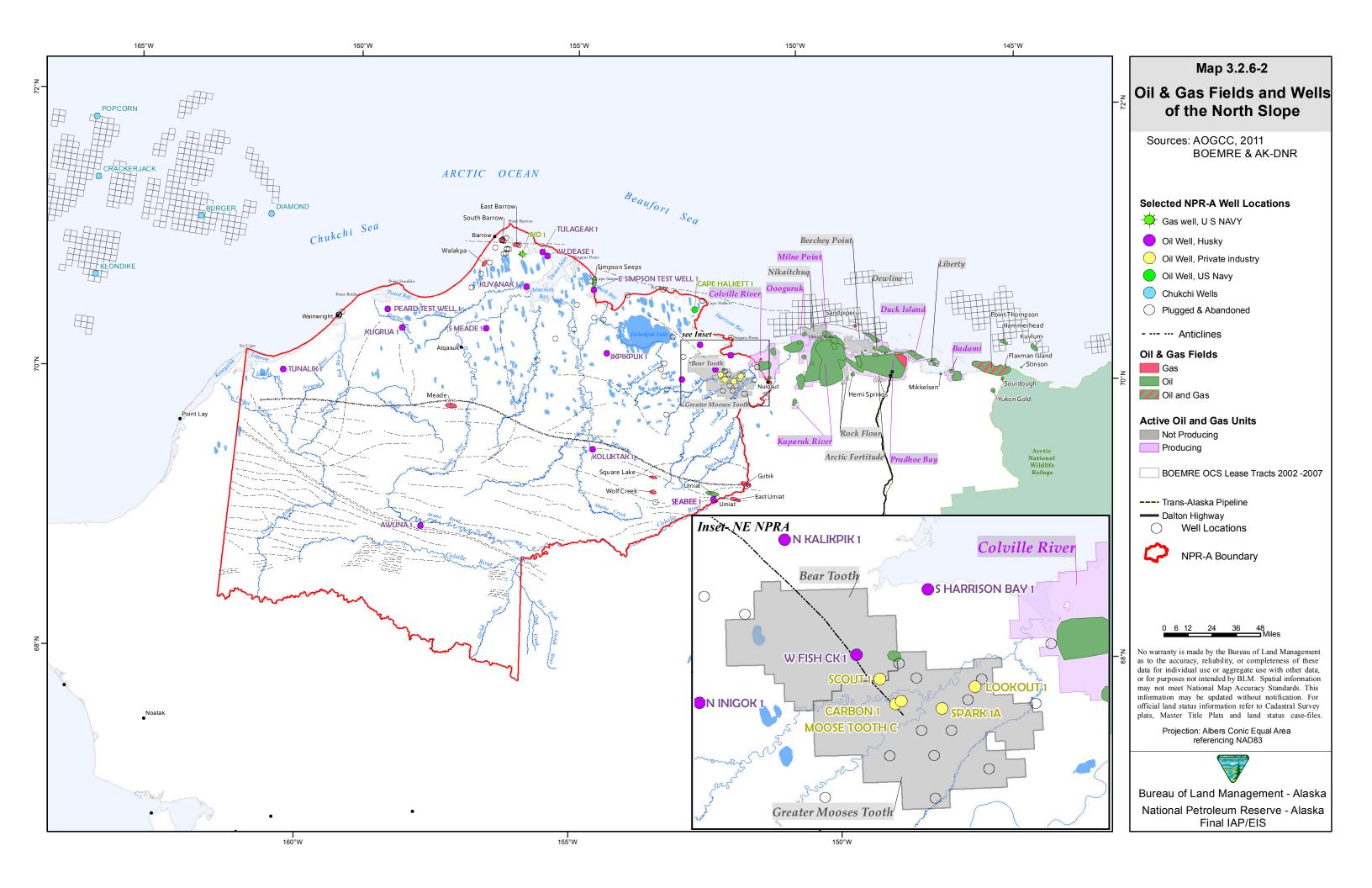
155°W Map 3.2.5-2 Barrow ARCTIC OCEAN **Mineral Terranes &** Beaufort Sea **Alaska Resource Data** File (ARDF) Locations Chukchi Sea Sources: ARDF- USGS, 2008. Terranes- Resource Data Inc., Alaska Earth Science, and US Bureau of Mines. Wainwright Atqasuk Alaska Resources Data File ■ Occurrence Prospect Nuigsut Mineral Terrane NPR-A Boundary SCB Unnamed (near Kukpowruk River) SCB Coville River SCB SCB Chandler River ■Schrader Bluff SCB SCB SCB SCB SBS No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data, Drembinder-West Bion Tuck Ekakevik Unnamed Drembinder-East Abby Creek Stack
Twistem Creek barite

Mt. Bupto or for purposes not intended by BLM. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification. For official land status information refer to Cadastral Survey plats, Master Title Plats and land status case-files. Anaktuvuk Rive Nimiuktuk Projection: Albers Conic Equal Area referencing NAD83 Kiruktagiak River Monitis Creek Chandler Lake SPS SBS Kady 

Kurupa River Son Anaktuvuk Pass Cockedhat Mountai . 89 − Bureau of Land Management - Alaska National Petroleum Reserve - Alaska Final IAP/EIS

155°W





160°W 155°W Map 3.2.8-1 Point Barrow Barrow Soils ARCTIC OCEAN Beaufort Sea Source: Natural Resource Conservation Service 1979, 1994. Chukchi Sea Point Franklin Soil Unit within NPR-A Point Belch IQ2 Typic Histoturbels Wainwright Typic Histoturbels -Typic Fibristels IQ21 Typic Aquiturbels - Typic Psammoturbels Atqasuk Typic Histoturbels- Typic Aquiturbels MB2 Typic Molliturbels - Typic Aquiturbels IQ6 Nuiqsut 1021 IQ24 Typic Aquiturbels - Typic Gelorthents RM1 Rough mountainous land MA3 Typic Aquiturbels - Typic Molliturbels IQ6 MA3 Typic Aquiturbels - Typic Haplogelolls MA1 IQ22 Fluvaquentic Aquorthels NPR-A Boundary IQ2 Umiat IQ8 IQ8 IQ2 IQ24 8Q1 **IQ24** IQ2 **IQ24** IQ24 IQ8 **IQ24** IQ2 No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data, or for purposes not intended by BLM. Spatial information MB2 may not meet National Map Accuracy Standards. This information may be updated without notification. For **IQ24** IQ8 official land status information refer to Cadastral Survey plats, Master Title Plats and land status case-files. IQ8 RM1 IQ8 Projection: Albers Conic Equal Area referencing NAD83 MA3 MB2 MA3 MB2 MB2 MB2 MA3 MA3 RM1 Anaktuvuk Pass IQ2 Bureau of Land Management - Alaska MB2 RM1 IQ22

155°W

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IQ7

IQ7

RM2

MA2

MA3

160°W

MA3

155°W Point Barrow Map 3.2.9-1 Barrow ARCTIC OCEAN Beaufort Sea **Surficial Geology** Sources: Karlstrom 1964 Chukchi Sea Surficial Geology Unit within NPR-A Qcb Modern coastal beach deposits (sand to silt) Wainwright Older coastal deposits of alluvial and marine sediments (sand to silt) Qe Silt more then 5-feet thick (silt) Atqasuk Qfp Modern floodplains (sand to silt) Qm1 Remnants of highly modified glacial moraines and associated drift Nuigsut Qm3 Prominent, slightly modified, glacial moraines and associated drift Dominantly course rubbly deposits associated with steep-sloped Qra mountains with higher percentage of bedrock exposures (talus slopes Qcc with course grained sand to boulders Course and fine-grained deposits as sociated with moderate to Qcc steep-sloped mountains and hills Qrb with bedrock exposures largely restricted to upper slopes and rubble on crestlines (course grained sand to boulders) Qfp Fine-grained deposits associated Qrc with gently sloping hills with rare bedrock exposures (sand to silt) NPR-A Boundary Qrc Qm4 No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data, or for purposes not intended by BLM. Spatial information Qrb Qrb may not meet National Map Accuracy Standards. This information may be updated without notification. For Qrb Qw official land status information refer to Cadastral Survey plats, Master Title Plats and land status case-files. Projection: Albers Conic Equal Area referencing NAD83 Qra Qm3 Bureau of Land Management - Alaska

Qra

Anaktuvuk Pass

Qra

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155°W Point Barrow Map 3.2.10-1 Barrow ARCTICOCEAN**Lake Depth** Beaufort Sea Source: Mellor, 1985 Chukchi Sea Lake Depth (m) e Halkett < 1.6 m Wainwright 1.6 m - 4 m Atqasuk NPR-A Boundary Nuiqsut N.02 Umiat No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data, or for purposes not intended by BLM. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification. For official land status information refer to Cadastral Survey plats, Master Title Plats and land status case-files. Projection: Albers Conic Equal Area referencing NAD83 Bureau of Land Management - Alaska National Petroleum Reserve - Alaska Final IAP/EIS

155°W Map 3.2.11-1 Point Barrow (POW - MAIN) Beaufort Sea **Existing Hazards** Barrow -Tulageak

West Dease at Point (POW - A)
(North Slope Borough)
(POW - 1)
(2 Landfills) ARCTICOCEANSkull Cliff Loran Source: BLM, 2011 Skull Cliff Test Core Drum Cache Chukchi Sea | Walakpa #1 Peard Bay **Existing Hazard Locations** (LIZ - C) (Landfill) Point Franklin Nuyanuk 🗖 Landfill East Simpson #1 Point Belch Currently Used Wainwright Peard 🔳 Formerly Used Defense Site NW Teshekpuk Lake (NARL/USGS) Kogru (POW-B) (3 Landlfills) Wainwright (LIZ - 3) (2 Landfills) Privately Owned ■South Meade ■ Reserve Pit North Kalikpik Ikpikpuk South Harrison NPR-A Boundary West Fish Creek North Inigok 🔳 Nuiqsut Walakpa #2 Koluktak Upper Meade Drum Cache (Navy) Umiat Well 9 (Navy) Umiat Landfill (USACE) Sea Bee Umiat Awuna Driftwood Brady (N ARL) (Navy) No Luck Lake 🍏 (NARL) No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data, or for purposes not intended by BLM. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification. For official land status information refer to Cadastral Survey plats, Master Title Plats and land status case-files. Projection: Albers Conic Equal Area referencing NAD83 Bureau of Land Management - Alaska Anaktuvuk Pass National Petroleum Reserve - Alaska Final IAP/EIS

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