

00	21.03.02	FIRST DRAFT	MS	DL	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



# **BTC PIPELINE PROJECT**



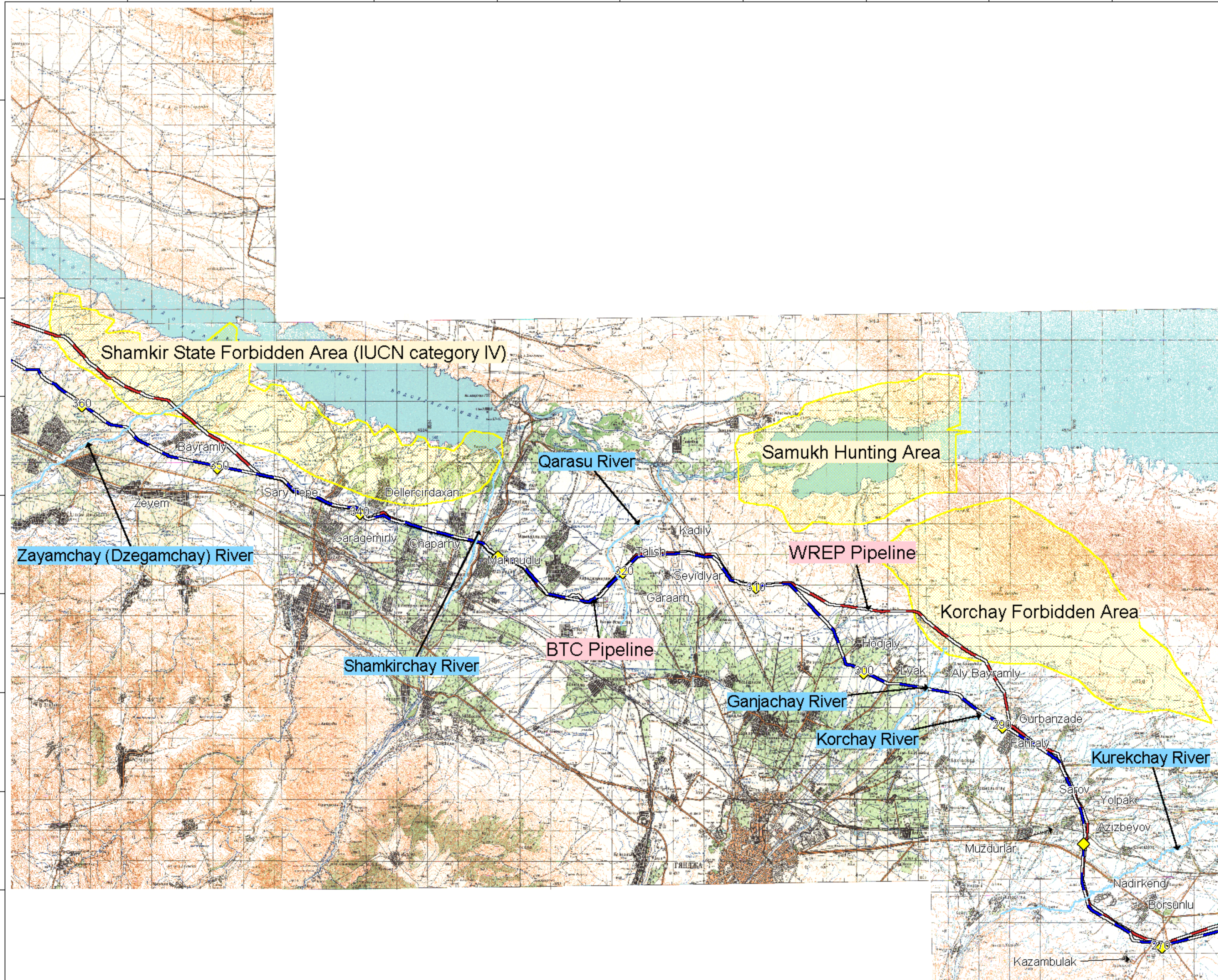
**TITLE:** Figure 4-2: BTC pipeline route in the Gobustan region.

SCALE: 1:100,000

REV 00

FILE NAME: P8107Naz\_fig\_4-2.WOR





- Proposed BTC pipeline
- Western Route Export Pipeline
- River
- Protected Area
- Kilometre Point



00	21.03.02	FIRST DRAFT	MS	DL	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



# **BTC PIPELINE PROJECT**

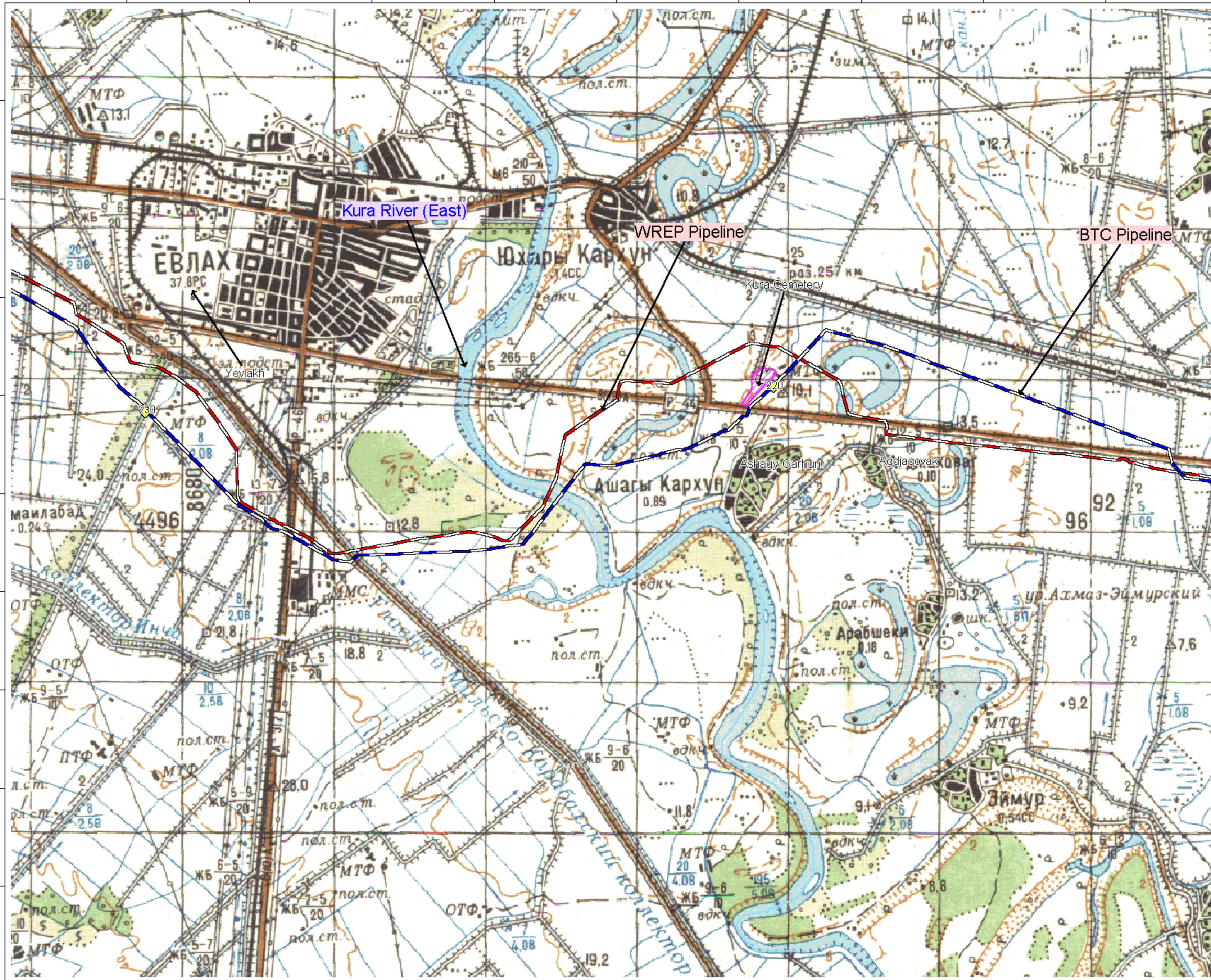


**TITLE: Figure 4.3: BTC pipeline route in relation to Shamkir and Korchay State Forbidden Areas**

SCALE: 1:250,000

REV 00





- Proposed BTC pipeline
- Western Route Export Pipeline
- River
- Kilometre Points



00	21.03.02	FIRST DRAFT	MS	DL	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



**BTC PIPELINE PROJECT**



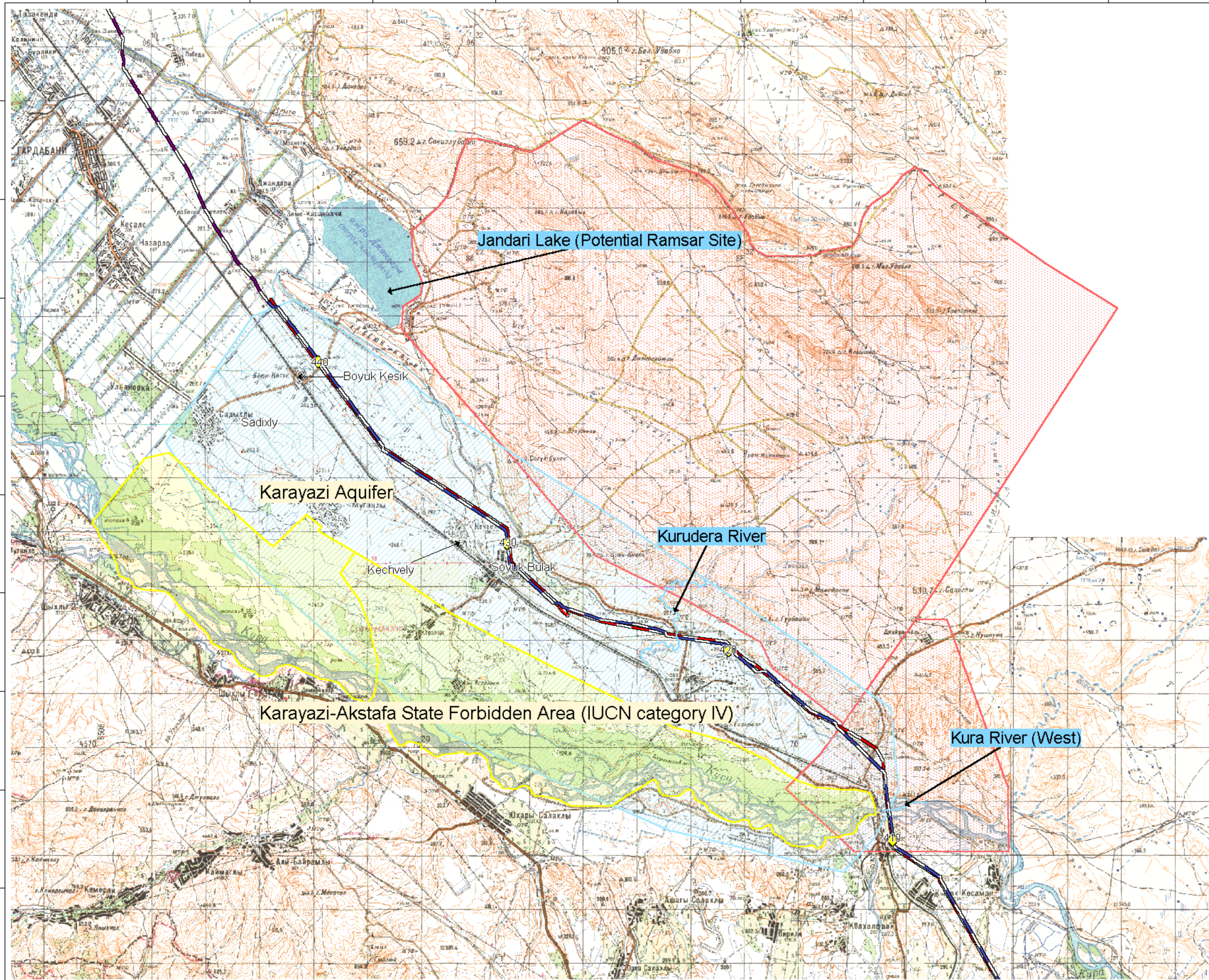
TITLE: Figure 4.4: BTC pipeline route at the Kura East river crossing

SCALE: 1:50,000

REV 00

FILE NAME: P8107naz\_fig\_4.4.WOR







- Proposed BTC pipeline
- Western Route Export Pipeline
- River
- Protected Area
- Military Area
- Karayazi Aquifer
- Kilometre Point



00	21.03.02	FIRST DRAFT	MS	DL	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



**BTC PIPELINE PROJECT**



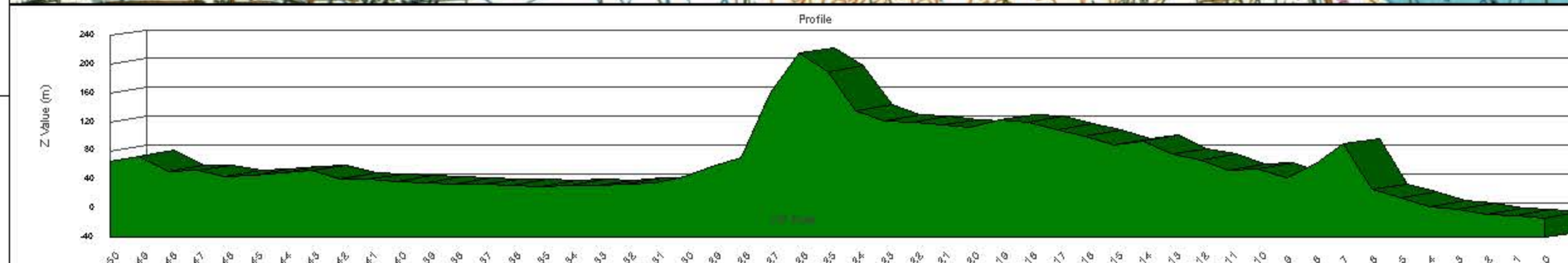
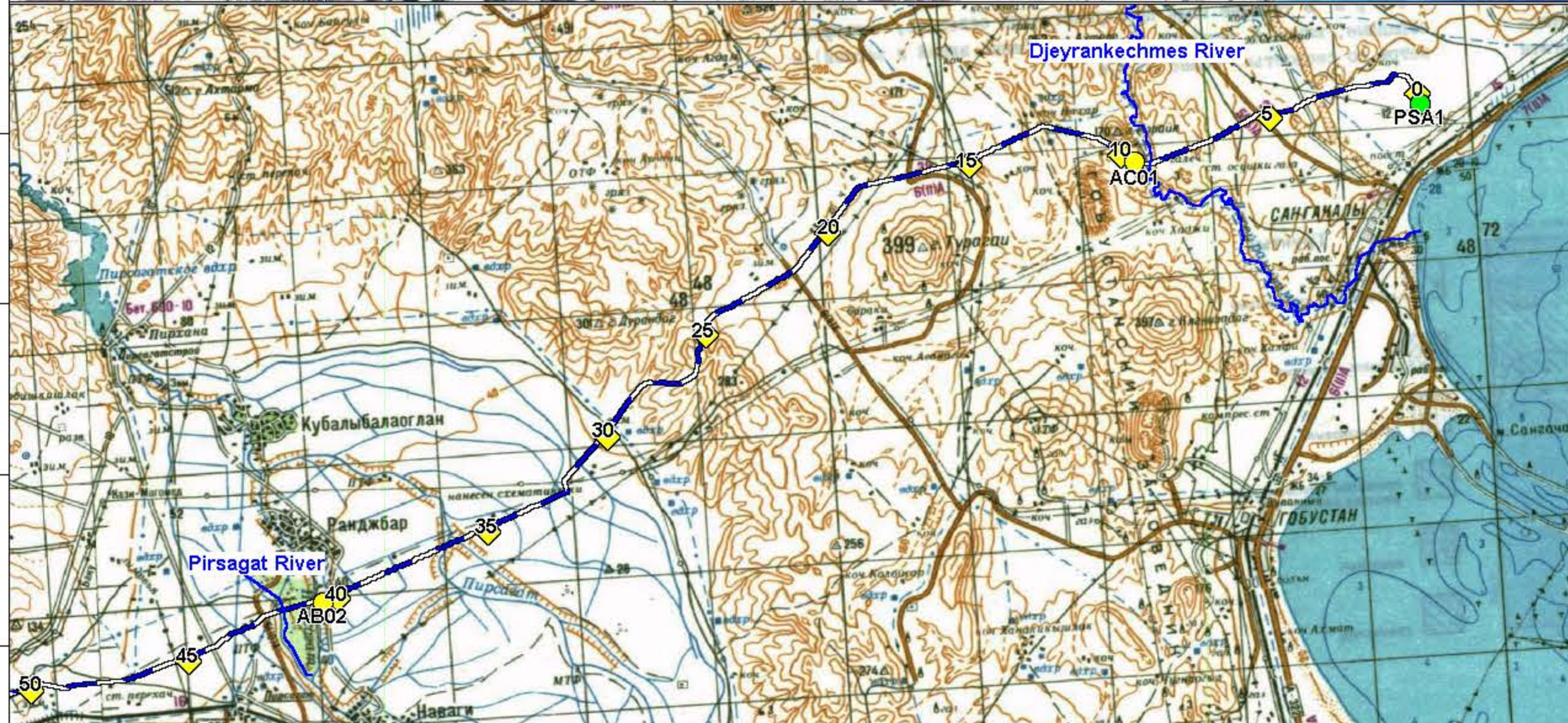
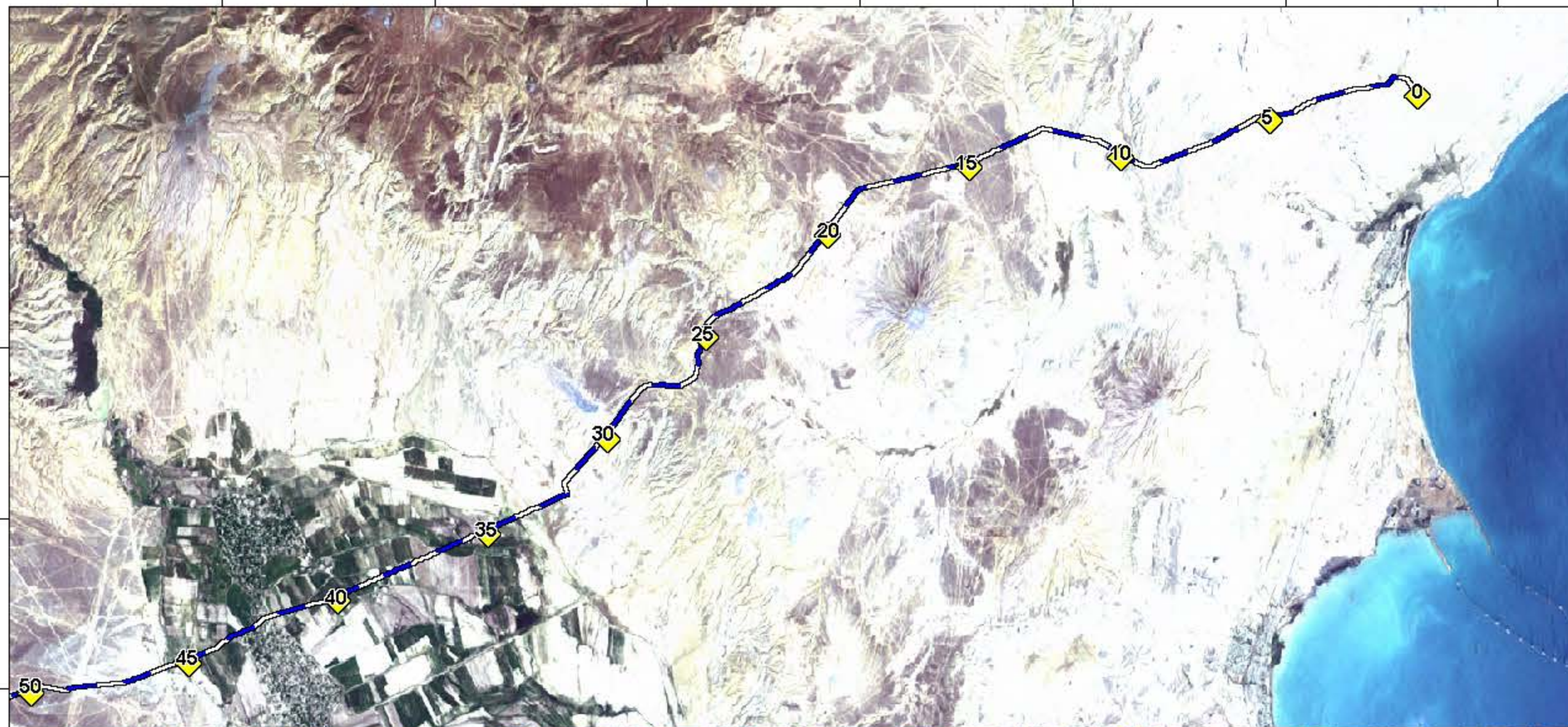
**AETC**  
Azerbaijan Environment  
and Technology Centre

TITLE: Figure 4-5: BTC pipeline route in the vicinity of the Azerbaijan - Georgian Border

SCALE: 1:150,000

REV 00





KP 9.2 - Djeyranchekmes River



KP 11.5 - Gobustan Desert



KP 27 - Mud Volcano Ridge



KP 42.1 - Pirsagat River



- Kilometre Point
- Proposed BTC Pipeline
- Pumping Station
- Block Valve
- Pigging Station
- River



00	02.04.02	First Draft	NH	FD	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



**BTC PIPELINE PROJECT**



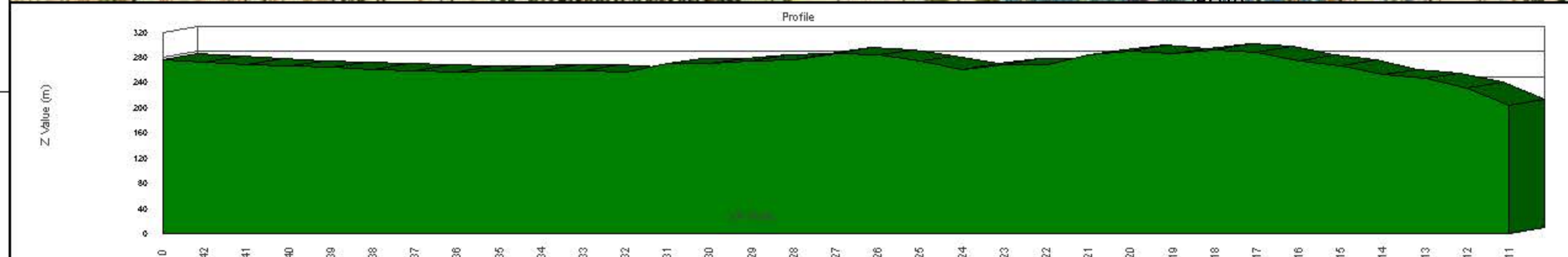
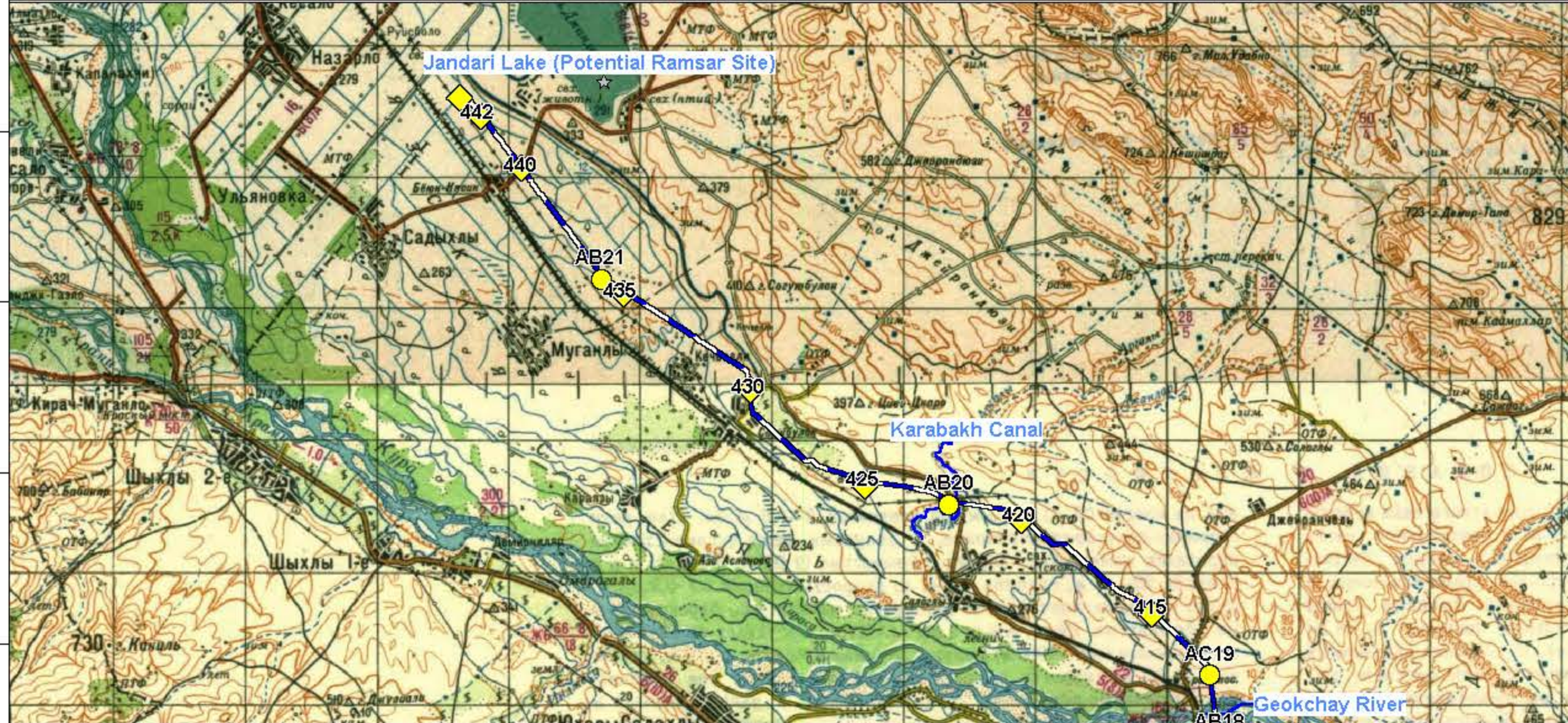
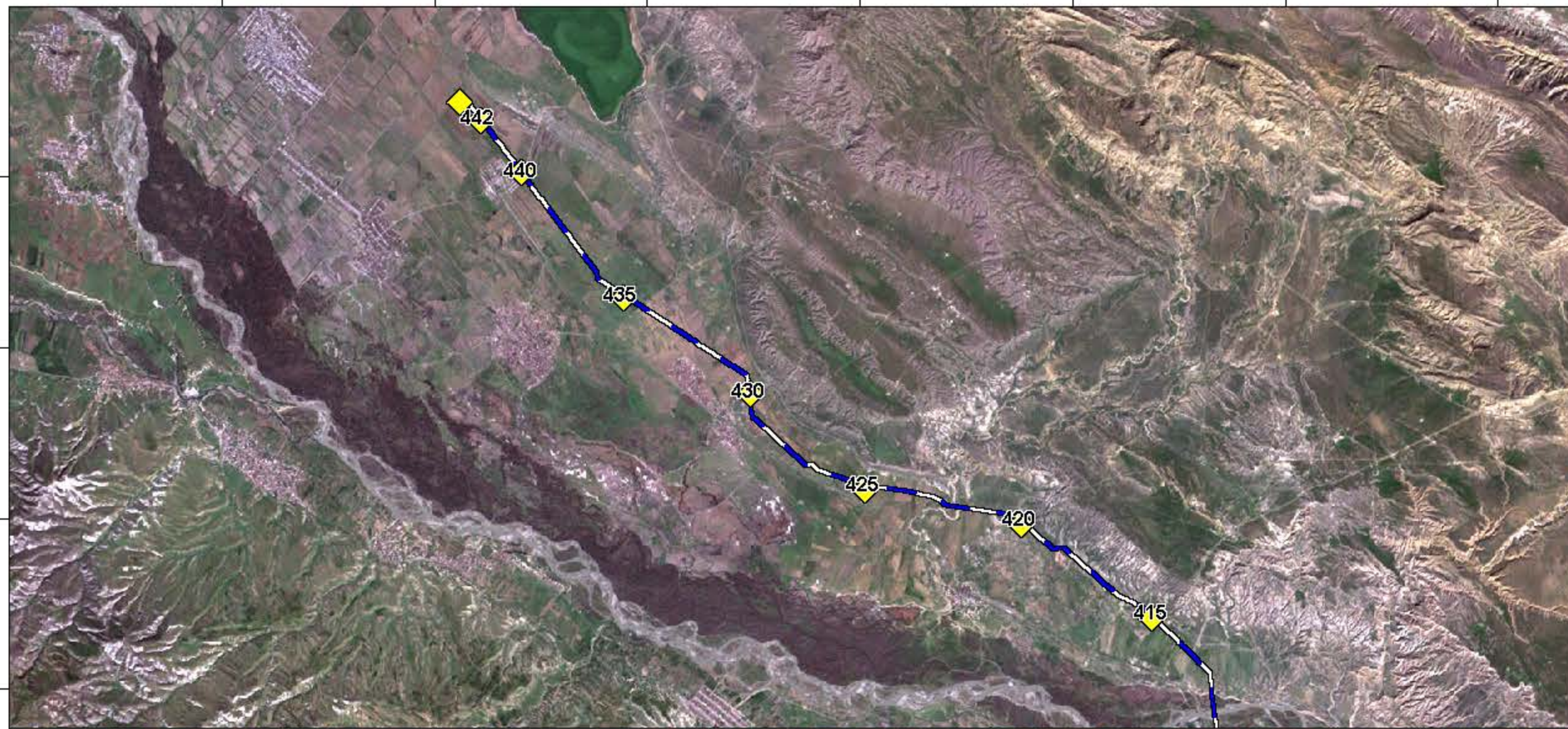
TITLE: **FIGURE 5-1: BTC PROJECT OVERVIEW MAPS (Map 1 of 10)**

SCALE: 1:200,000

REV 00

FILE NAME: P81073VIEW-1.WOR





KP 422 - Kurudera River



KP 422 - Fly Tipping









KP 434.2 - Agricultural Land



KP 442 - Flat Agricultural Land and Settlements



-  Kilometre Point
-  Proposed BTC Pipeline
-  Pumping Station
-  Block Valve
-  Pigging Station
-  River



REV	DATE	DESCRIPTION	DRN	CHK	APP
00	02.04.02	First Draft	NH	FD	WH



**BTC PIPELINE PROJECT**



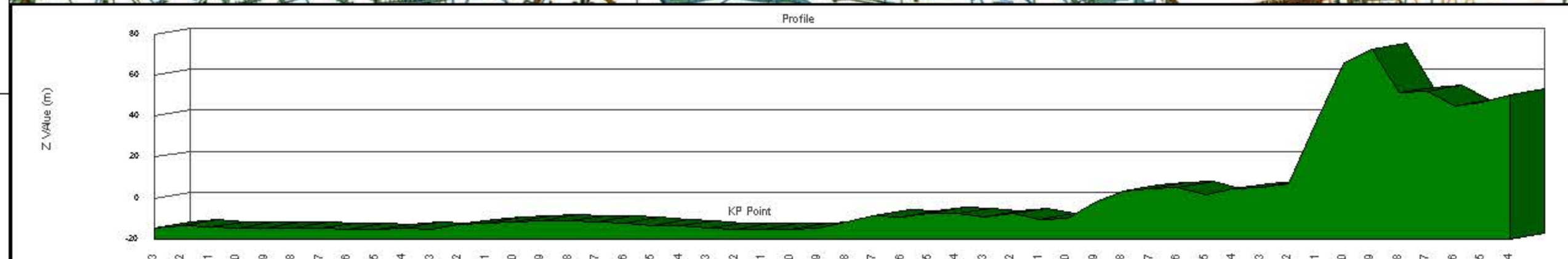
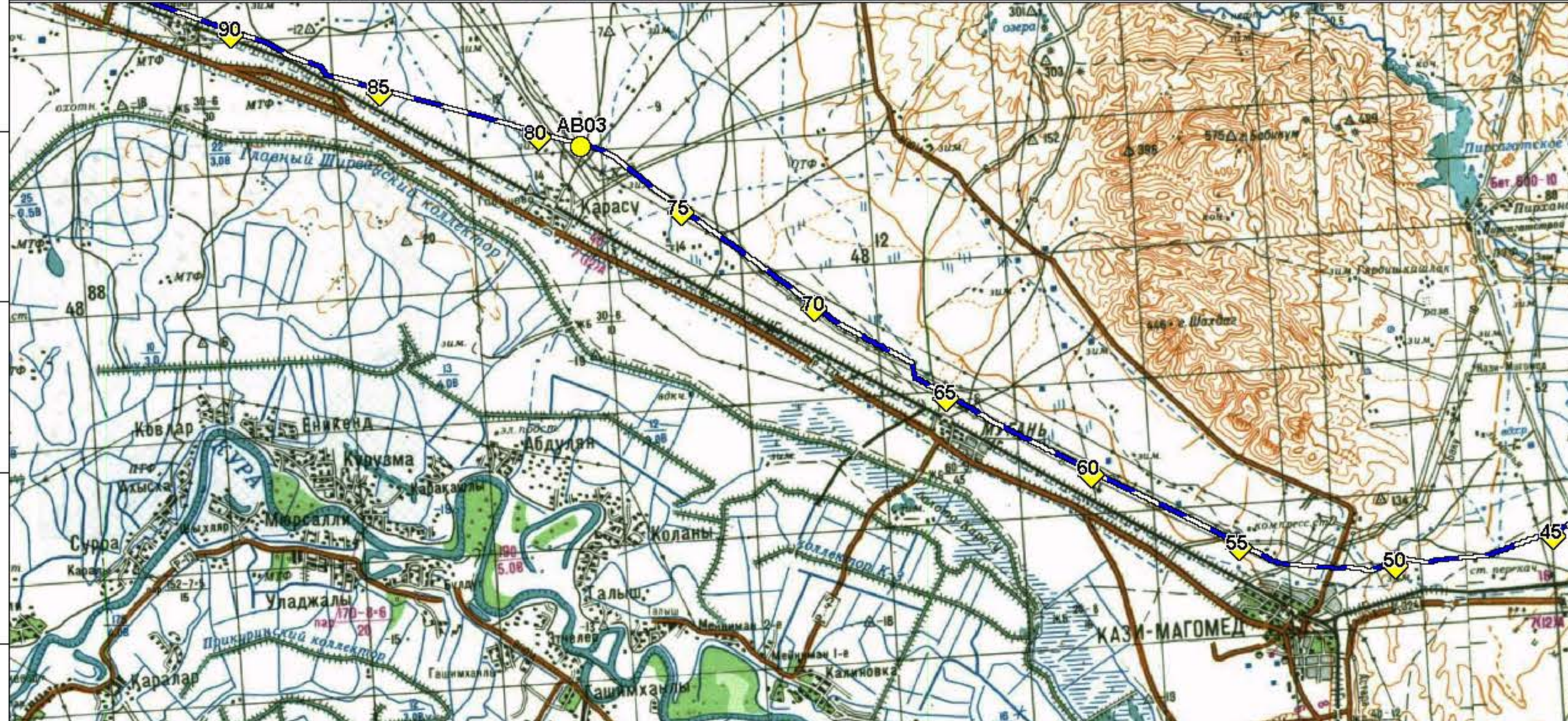
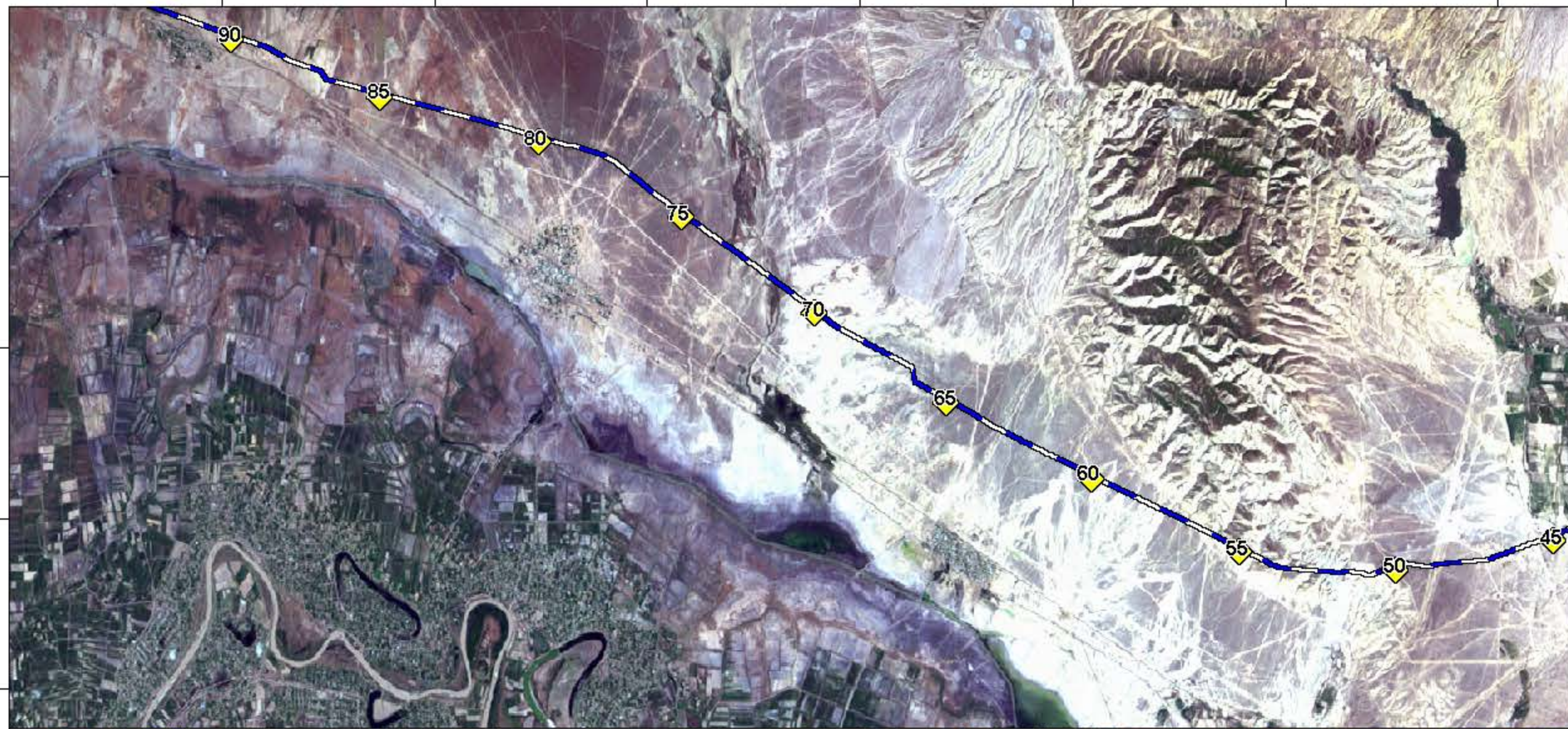
TITLE: **FIGURE 5-1: BTC PROJECT OVERVIEW MAPS (Map 10 of 10)**

SCALE: 1:200,000

REV 00

FILE NAME: P81073VIEW-10.WOR





KP 51.5 Kazi Magomed - Azerigas Compressor Station



KP 52 - Fly Tipping









KP 77.5 - Old Oil Exploration Site



KP 80 - Salsola Nodulosa (Saltwort)



-  Kilometre Point
-  Proposed BTC Pipeline
-  Pumping Station
-  Block Valve
-  Pigging Station
-  River



00	02.04.02	First Draft	NH	FD	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



**BTC PIPELINE PROJECT**



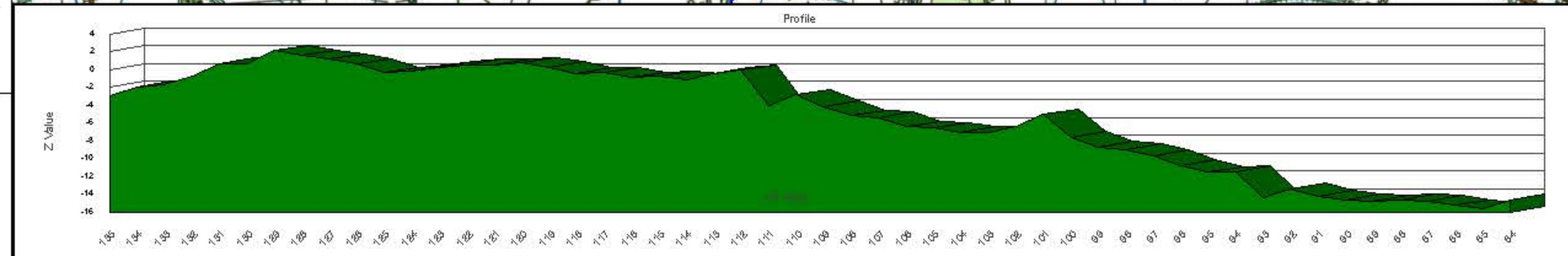
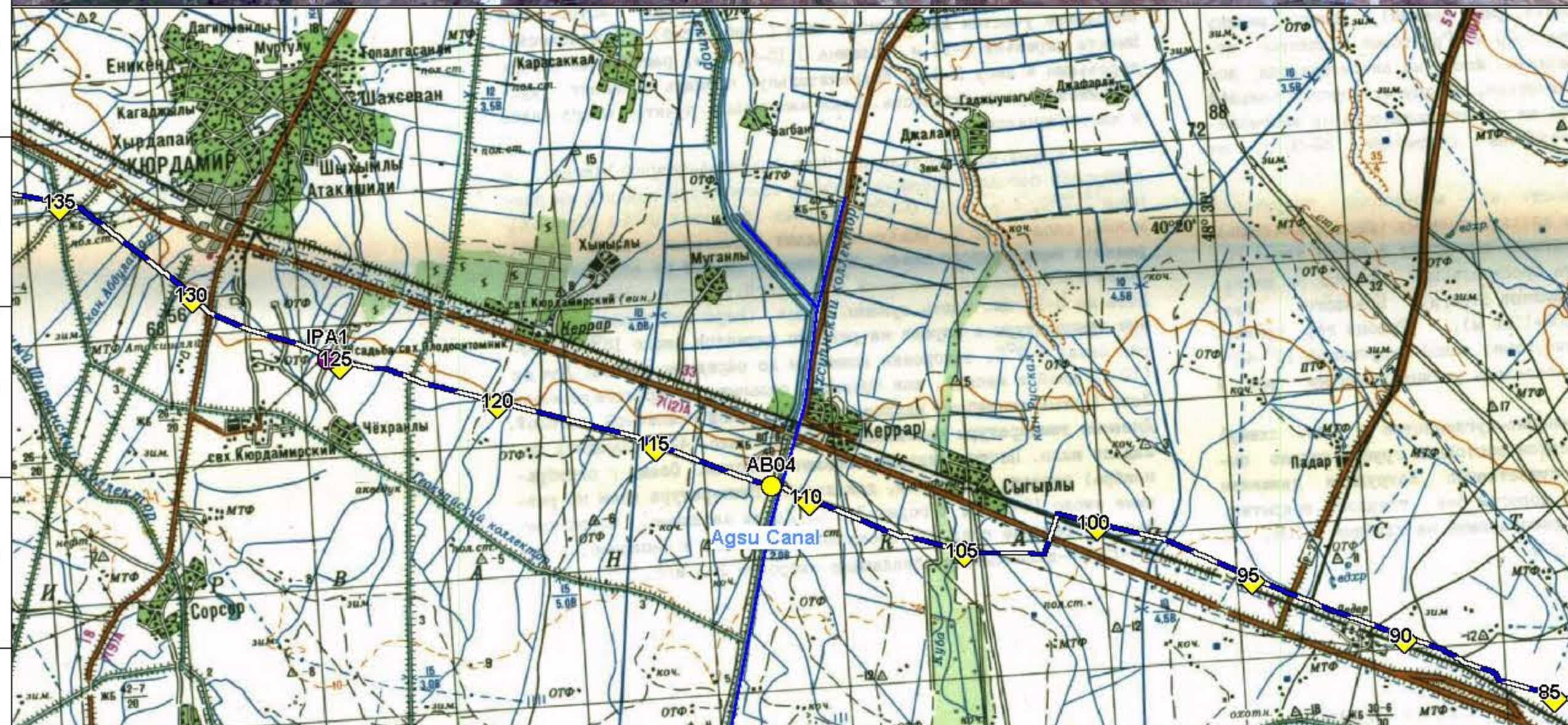
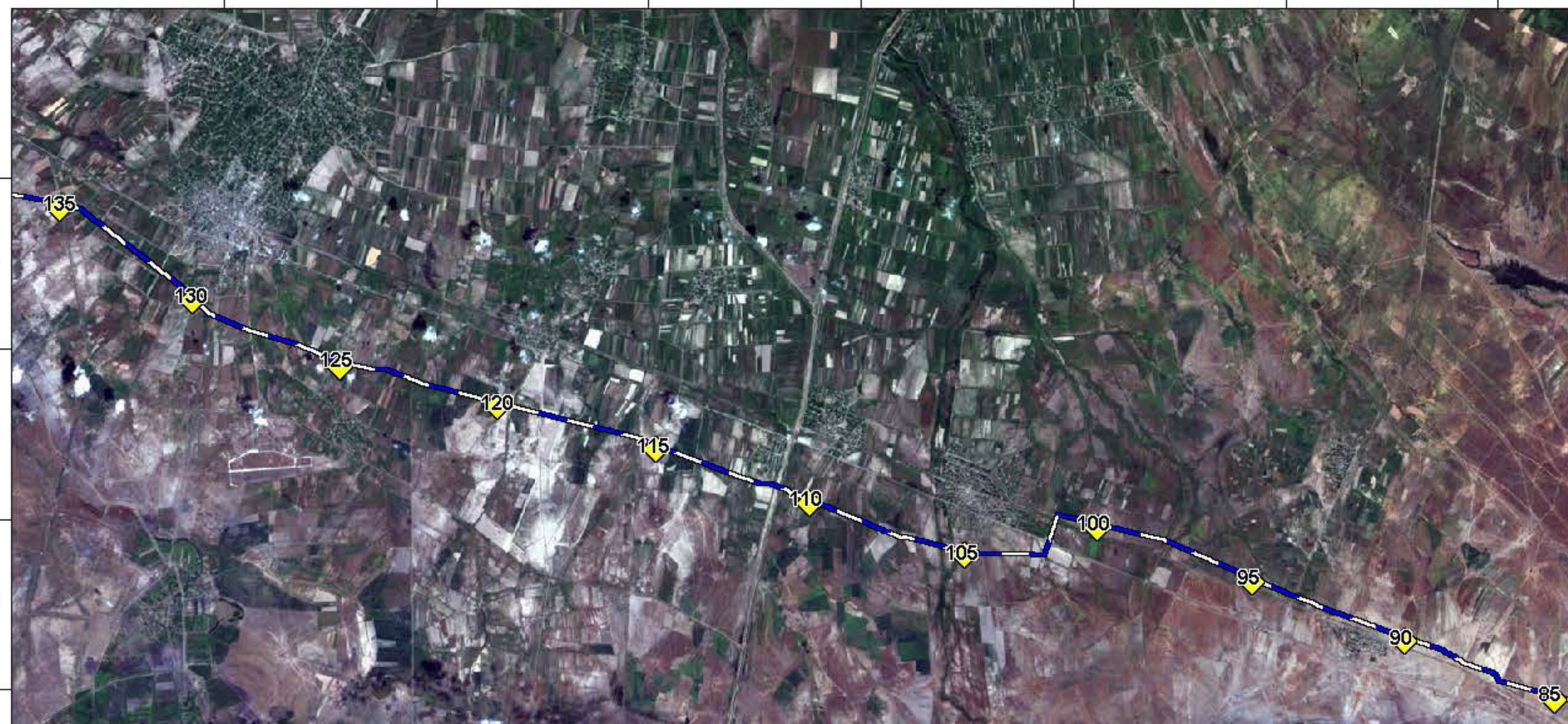
TITLE: **FIGURE 5-1: BTC PROJECT OVERVIEW MAPS (Map 2 of 10)**

SCALE: 1:200,000

REV 00

FILE NAME: P81073VIEW-2.WOR





KP 85.5 - Flat, Fallow Agricultural Land



KP 91.5 - Agricultural Land (newly ploughed)



KP 97.8 - Typical Vegetation



KP 111.1 - Aghsu Canal



- Kilometre Point
- Proposed BTC Pipeline
- Pumping Station
- Block Valve
- Pigging Station
- River



00	02.04.02	First Draft	NH	FD	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



**BTC PIPELINE PROJECT**



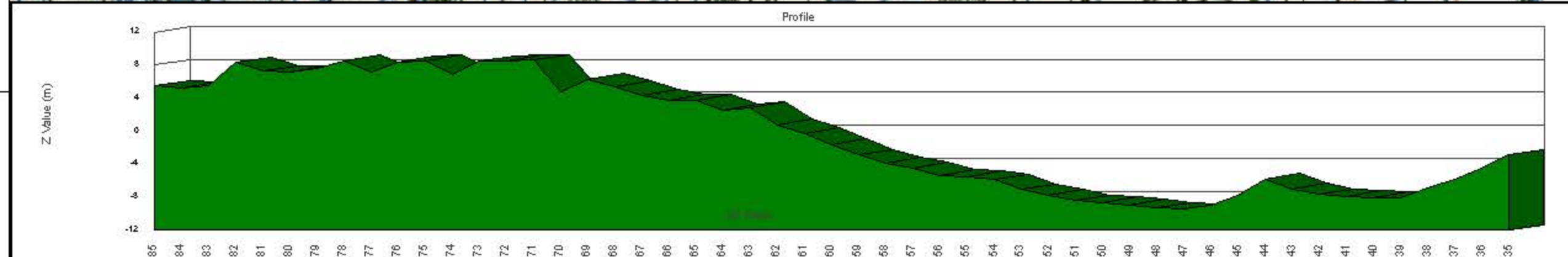
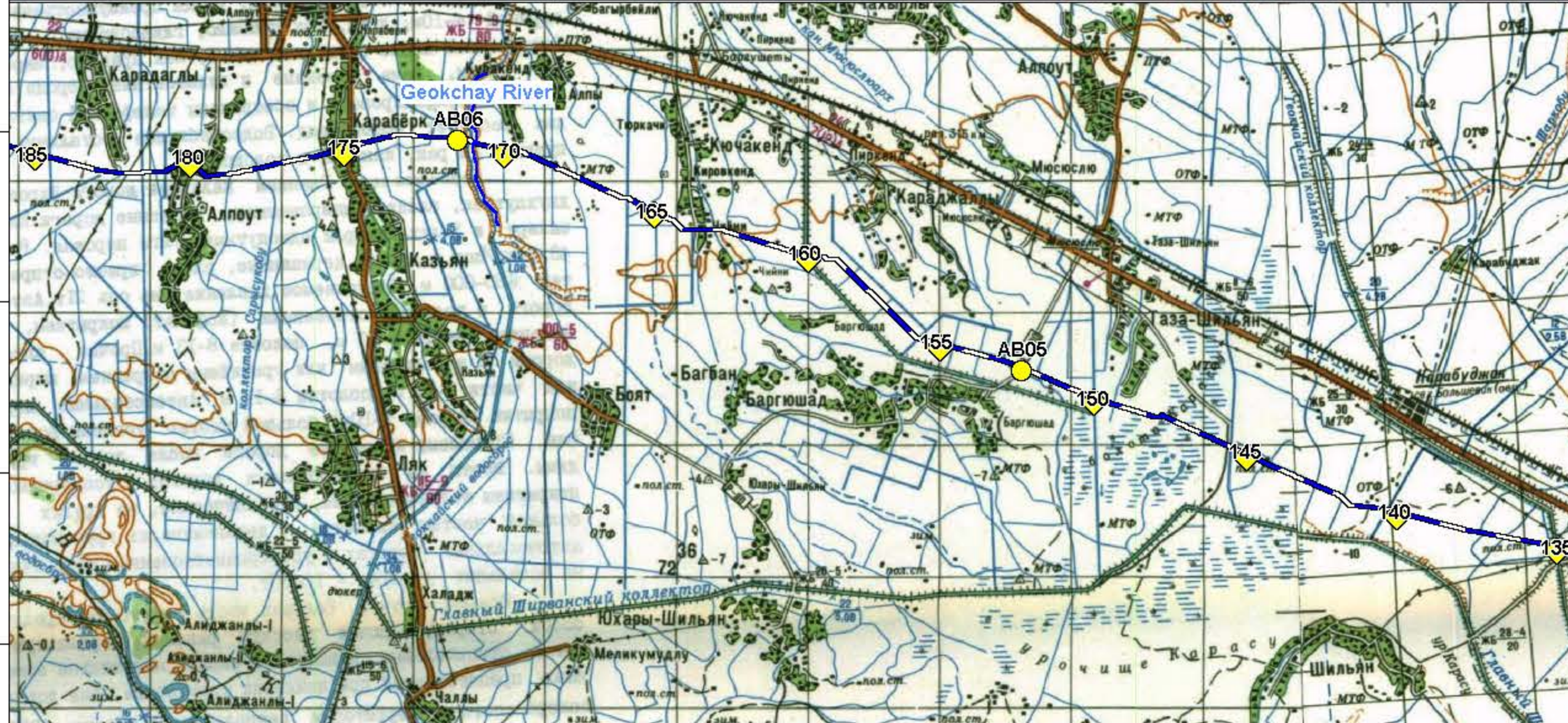
TITLE: **FIGURE 5-1: BTC PROJECT OVERVIEW MAPS**  
(Map 3 of 10)

SCALE: 1:200,000

REV 00

FILE NAME: P81073VIEW-3.WOR





KP 171.2 - Pomegranate



KP 171.3 - Geokchay River









KP 171.4 Geokchay Bankside Reeds



KP 180 - Pinch Point at Alpout Village



-  Kilometre Point
-  Proposed BTC Pipeline
-  Pumping Station
-  Block Valve
-  Pigging Station
-  River



REV	DATE	DESCRIPTION	DRN	CHK	APP
00	02.04.02	First Draft	NH	FD	WH



**BTC PIPELINE PROJECT**



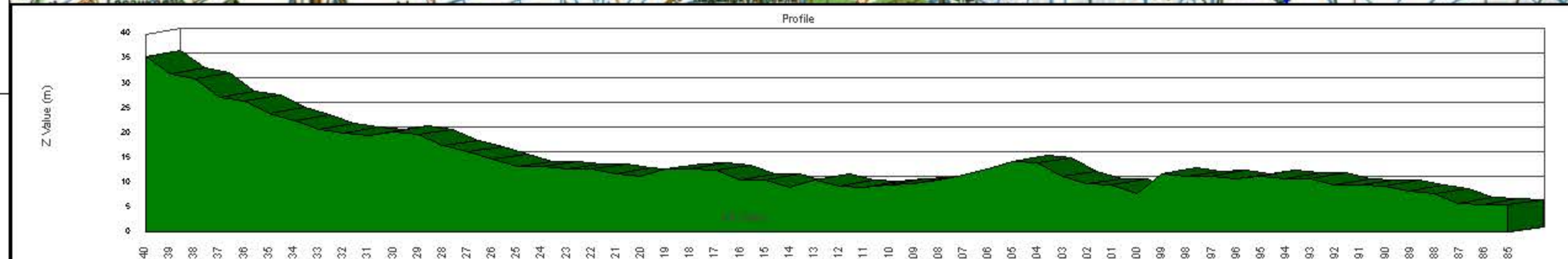
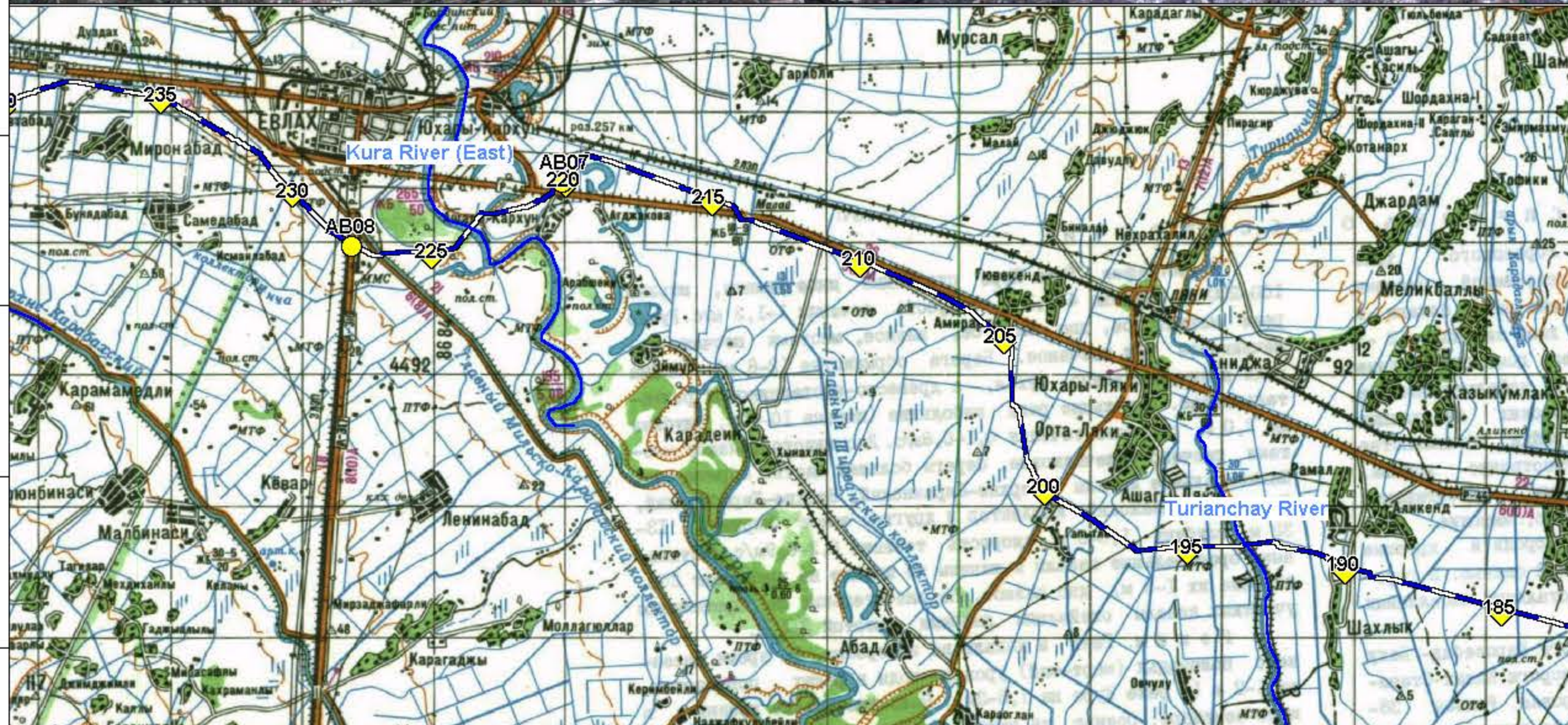
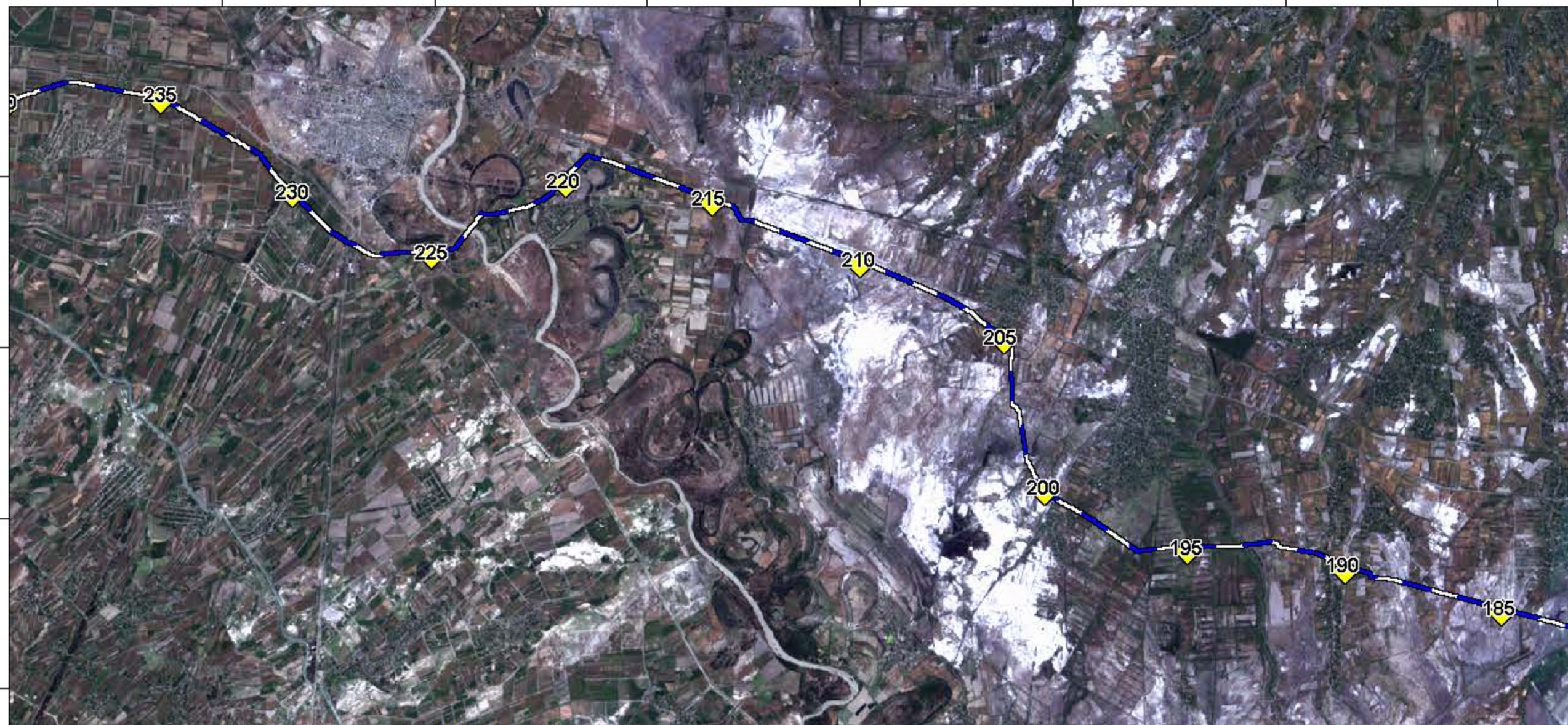
TITLE: **FIGURE 5-1: BTC PROJECT OVERVIEW MAPS (Map 4 of 10)**

SCALE: 1:200,000

REV 00

FILE NAME: P81073VIEW-4.WOR





KP 185.5 - Saline Overirrigated Soils



KP 193.6 - Turianchay River



KP 223.5 - Kura River East



KP 223.5 - Bank Erosion at Kura River East



- Kilometre Point
- Proposed BTC Pipeline
- Pumping Station
- Block Valve
- Pigging Station
- River



00	02.04.02	First Draft	NH	FD	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



**BTC PIPELINE PROJECT**



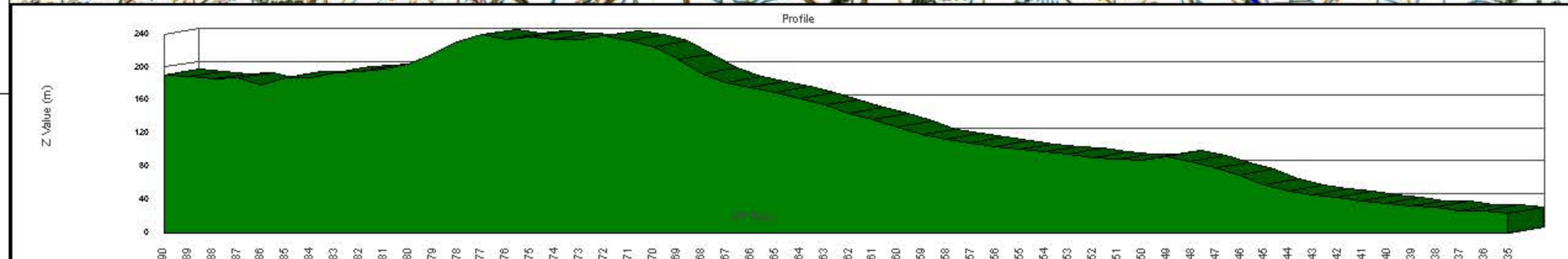
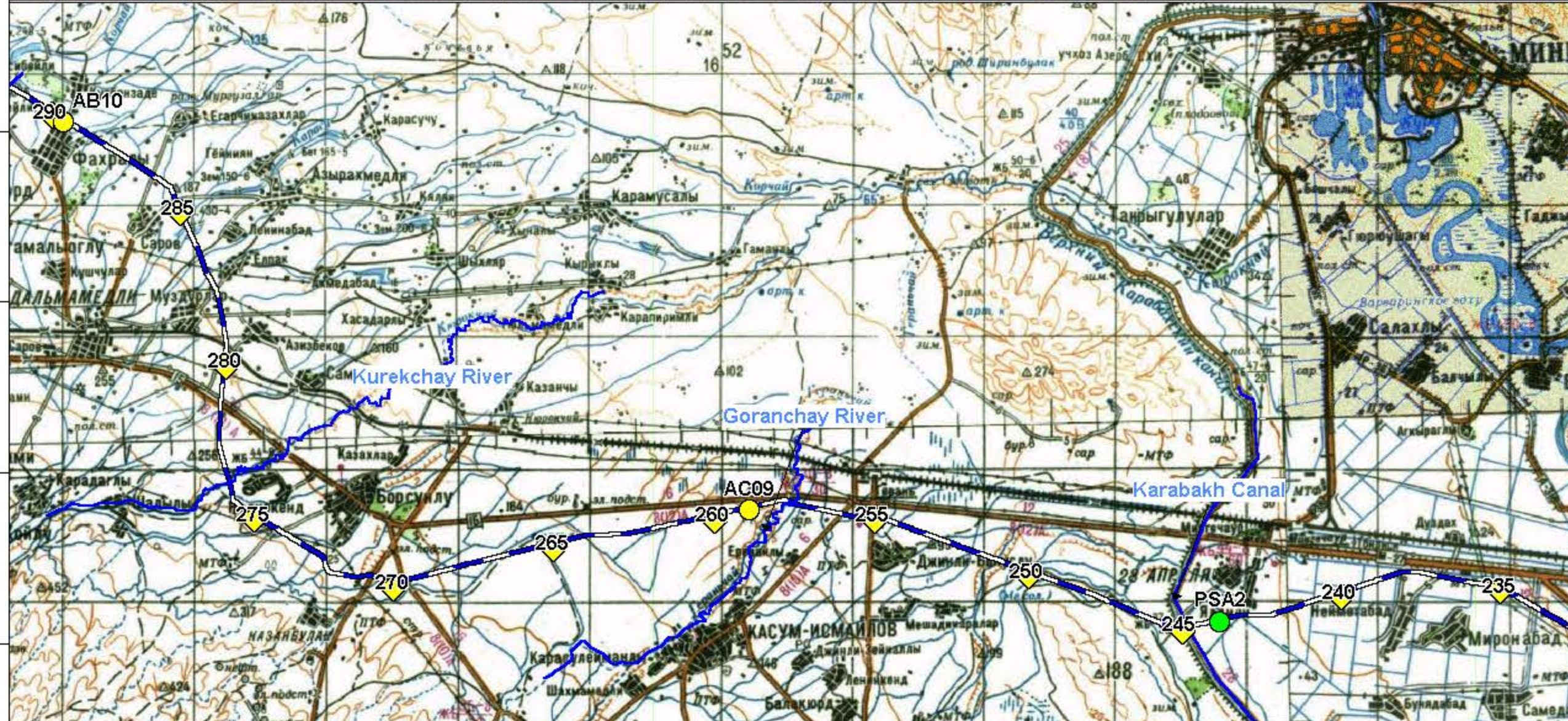
TITLE: **FIGURE 5-1: BTC PROJECT OVERVIEW MAPS (Map 5 of 10)**

SCALE: 1:200,000

REV 00

FILE NAME: P81073VIEW-5.WOR





KP 245 - Karabakh Canal



KP 271.4 - Leaking Oil Well









KP 276.5 - Kurekchay River



Near KP 280 - Trees Felled For Firewood (Not On Route)



-  Kilometre Point
-  Proposed BTC Pipeline
-  Pumping Station
-  Block Valve
-  Pigging Station
-  River



00	02.04.02	First Draft	NH	FD	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



**BTC PIPELINE PROJECT**



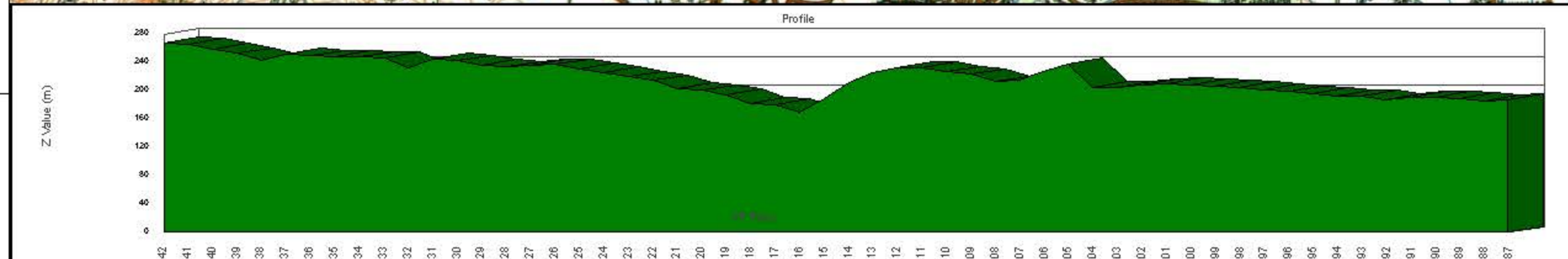
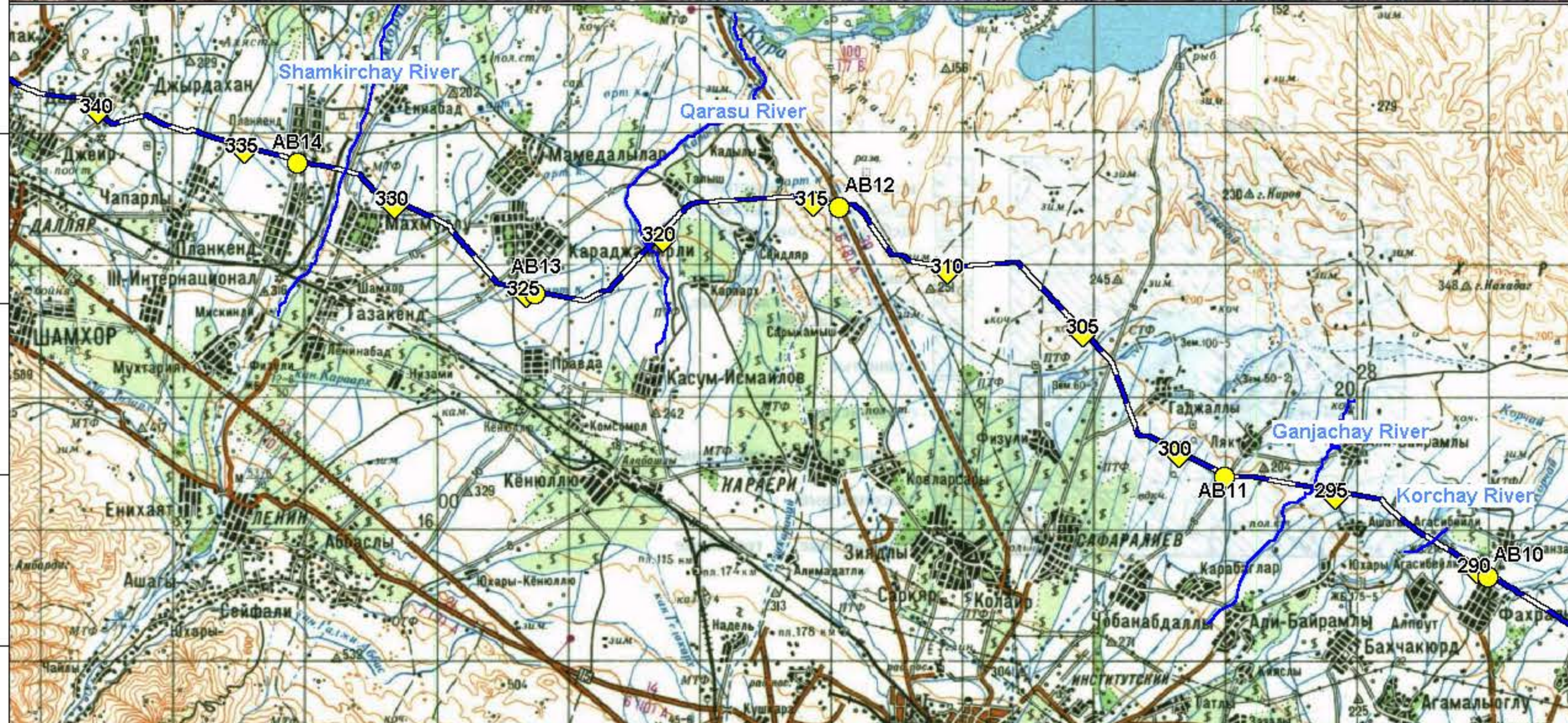
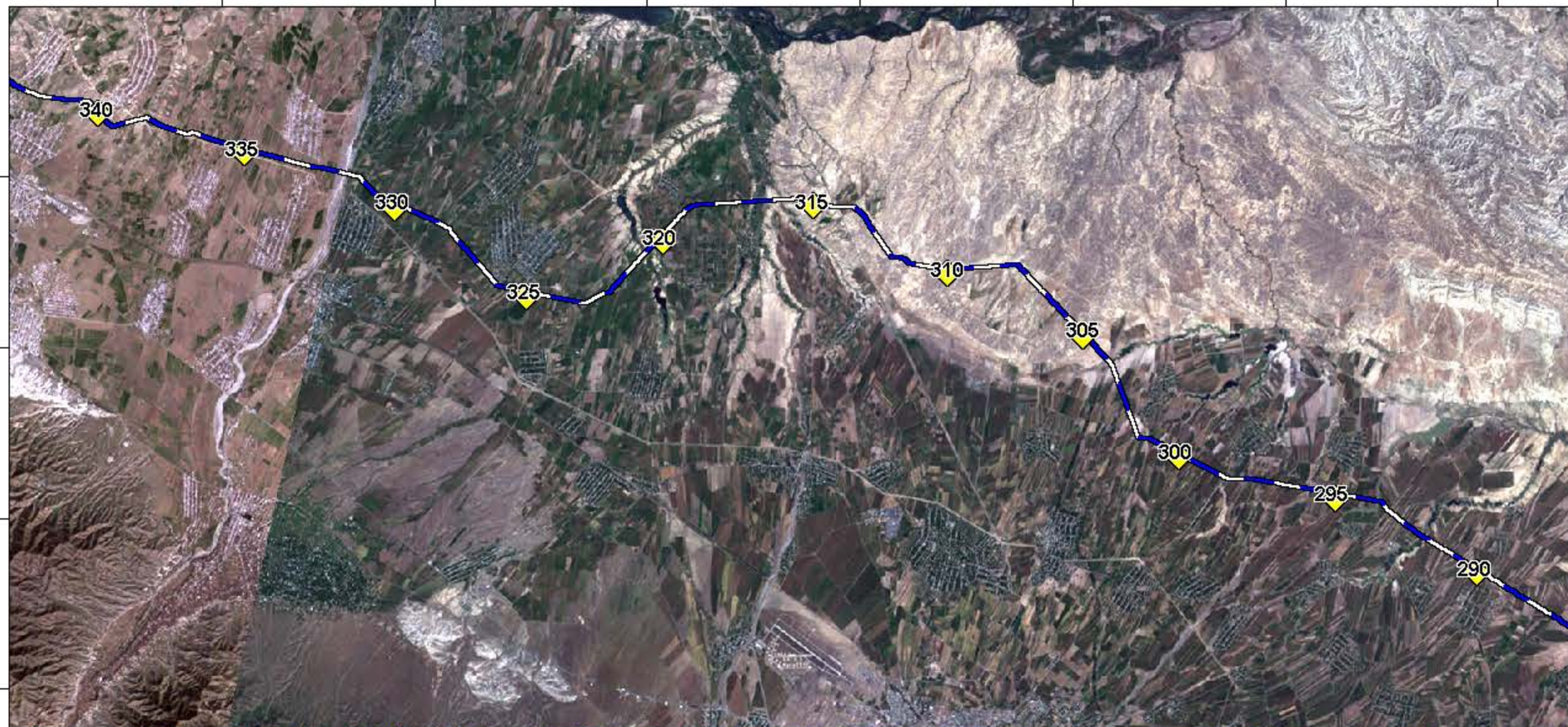
TITLE: **FIGURE 5-1: BTC PROJECT OVERVIEW MAPS (Map 6 of 10)**

SCALE: 1:200,000

REV 00

FILE NAME: P81073VIEW-6.WOR





KP 296 - Korchay River (Reed Beds)



KP 296 - Ganjachay River









KP 308.3 - Disturbed Ground



KP 330.5 - Irrigation Ditch



-  Kilometre Point
-  Proposed BTC Pipeline
-  Pumping Station
-  Block Valve
-  Pigging Station
-  River



00	02.04.02	First Draft	NH	FD	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



**BTC PIPELINE PROJECT**



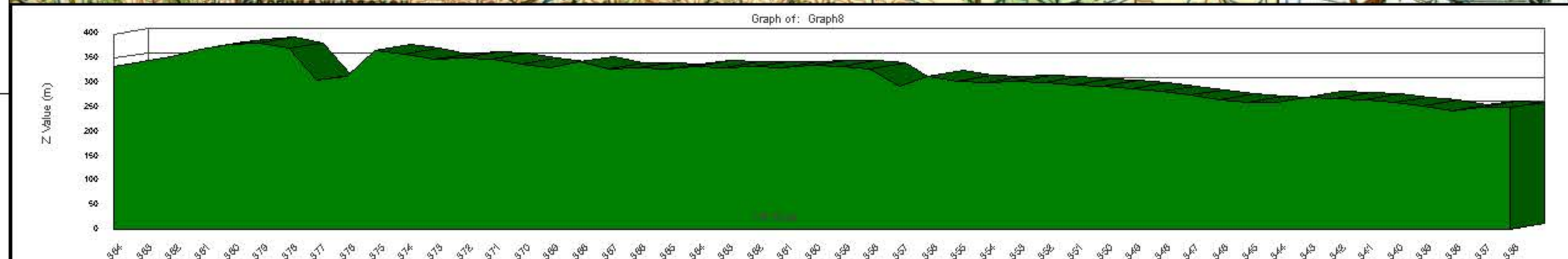
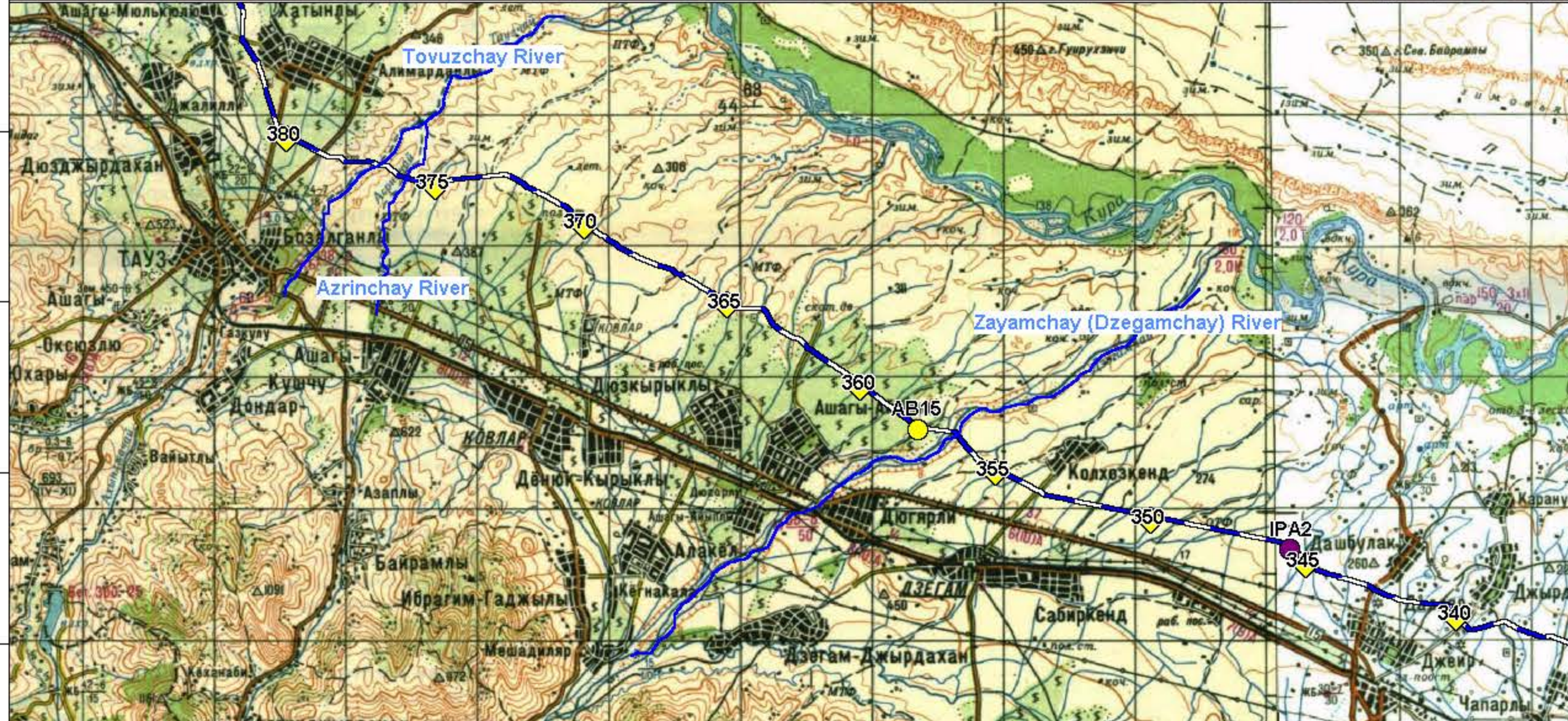
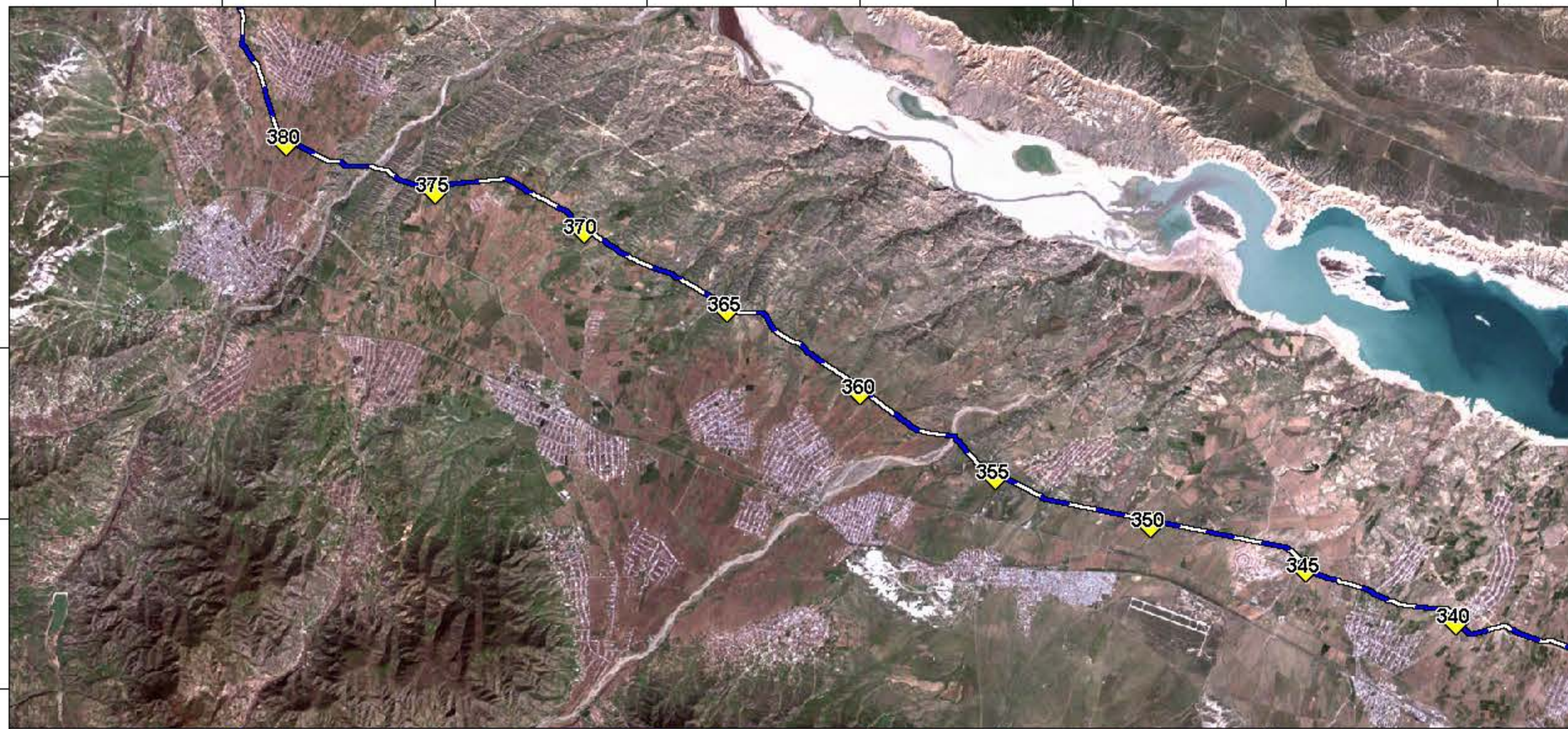
TITLE: **FIGURE 5-1: BTC PROJECT OVERVIEW MAPS**  
(Map 7 of 10)

SCALE: 1:200,000

REV 00

FILE NAME: P81073VIEW-7.WOR





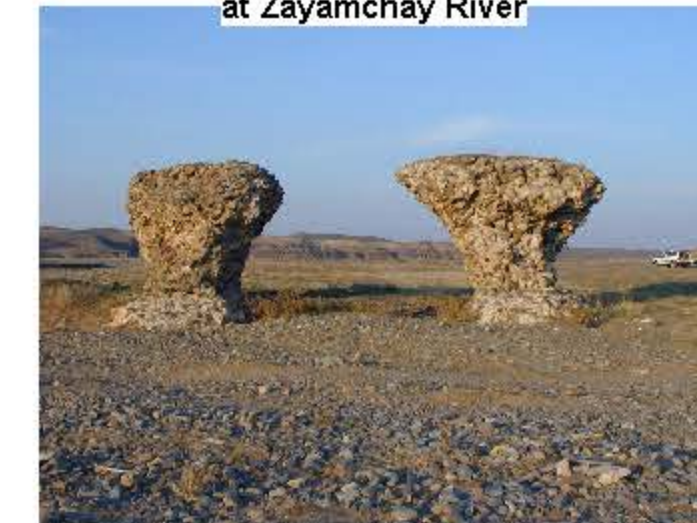
KP 338.5 - Burrows in Earth Bank



KP 355.6 - Pottery Shards near Zayamchay



KP 357 - Camel Dung Bridge Supports at Zayamchay River



KP 376 - Ridges on Approach to Azrinchay River



- Kilometre Point
- Proposed BTC Pipeline
- Pumping Station
- Block Valve
- Pigging Station
- River



00	02.04.02	First Draft	NH	FD	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



**BTC PIPELINE PROJECT**



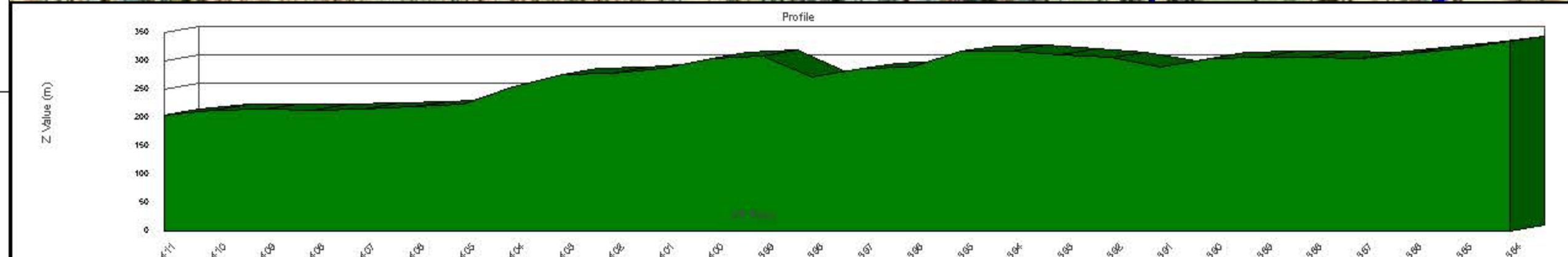
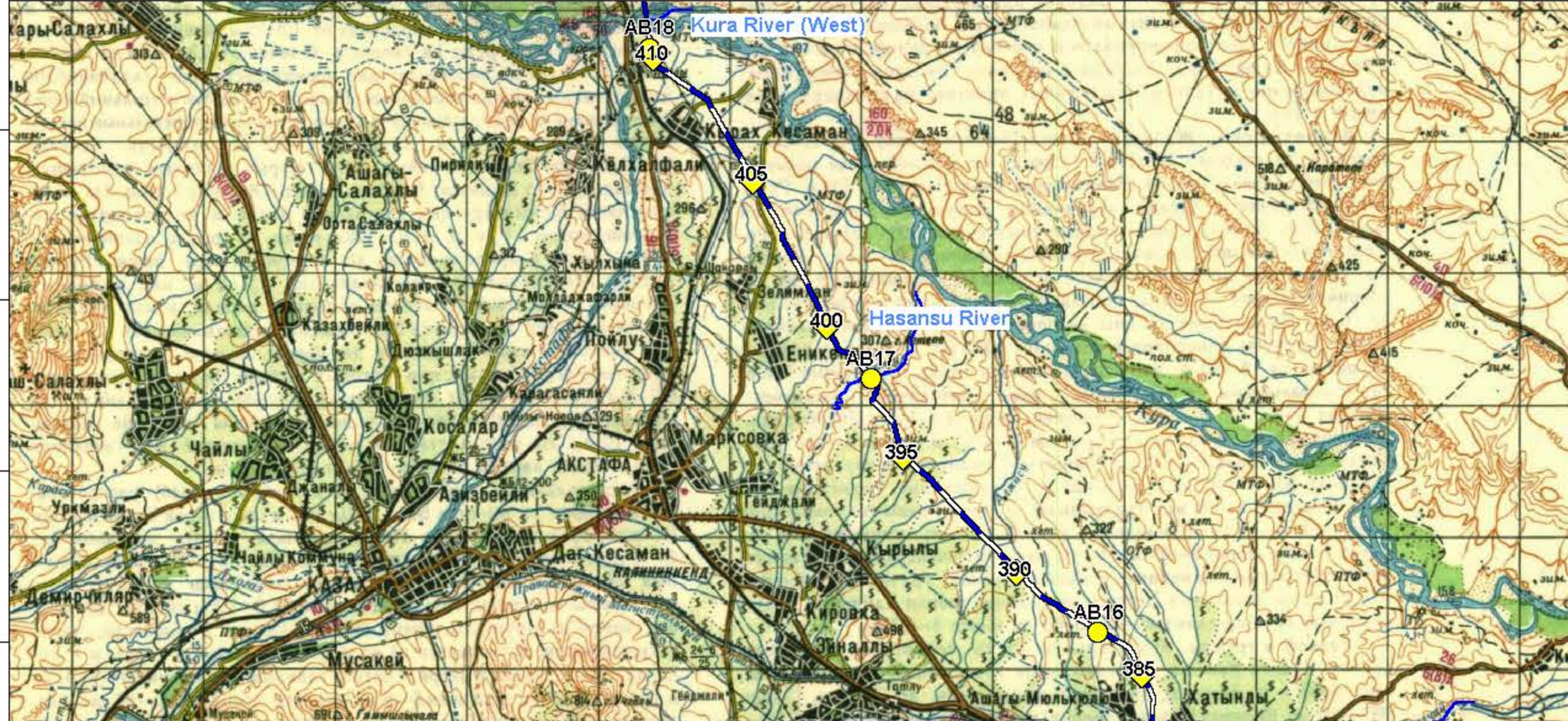
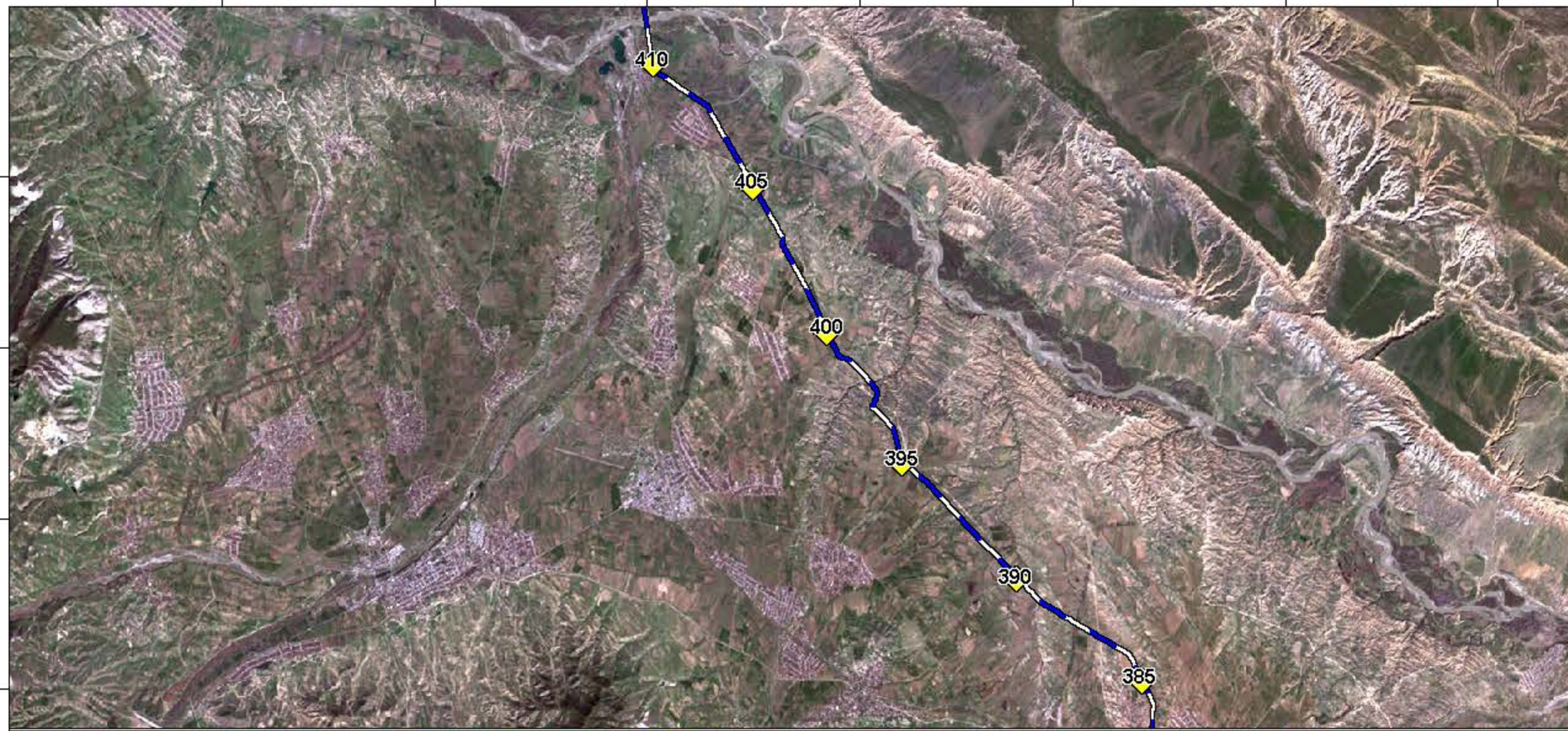
TITLE: **FIGURE 5-1: BTC PROJECT OVERVIEW MAPS (Map 8 of 10)**

SCALE: 1:200,000

REV 00

FILE NAME: P81073VIEW-8.WOR





KP 397.7 - Water Buffalo



KP 397.7 - Hasansu River



Near KP 405.5 - Old Cemetery (Not on Route)



KP 411 - Kura River West



- Kilometre Point
- Proposed BTC Pipeline
- Pumping Station
- Block Valve
- Pigging Station
- River



00	02.04.02	First Draft	NH	FD	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



**BTC PIPELINE PROJECT**



TITLE: **FIGURE 5-1: BTC PROJECT OVERVIEW MAPS (Map 9 of 10)**

SCALE: 1:200,000

REV 00

FILE NAME: P81073VIEW-9.WOR





- Proposed BTC pipeline
- River
- Populated areas
- (AC01) Azerbaijan Check valves
- (AB02) Azerbaijan Block valves
- (PSA1) Pumping Station Azerbaijan
- (IPA1) Pigging Station Azerbaijan



REV	DATE	DESCRIPTION	DRN	CHK	APP
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00	17.01.02	FIRST DRAFT	MS	DL	VM



# **BTC PIPELINE PROJECT**



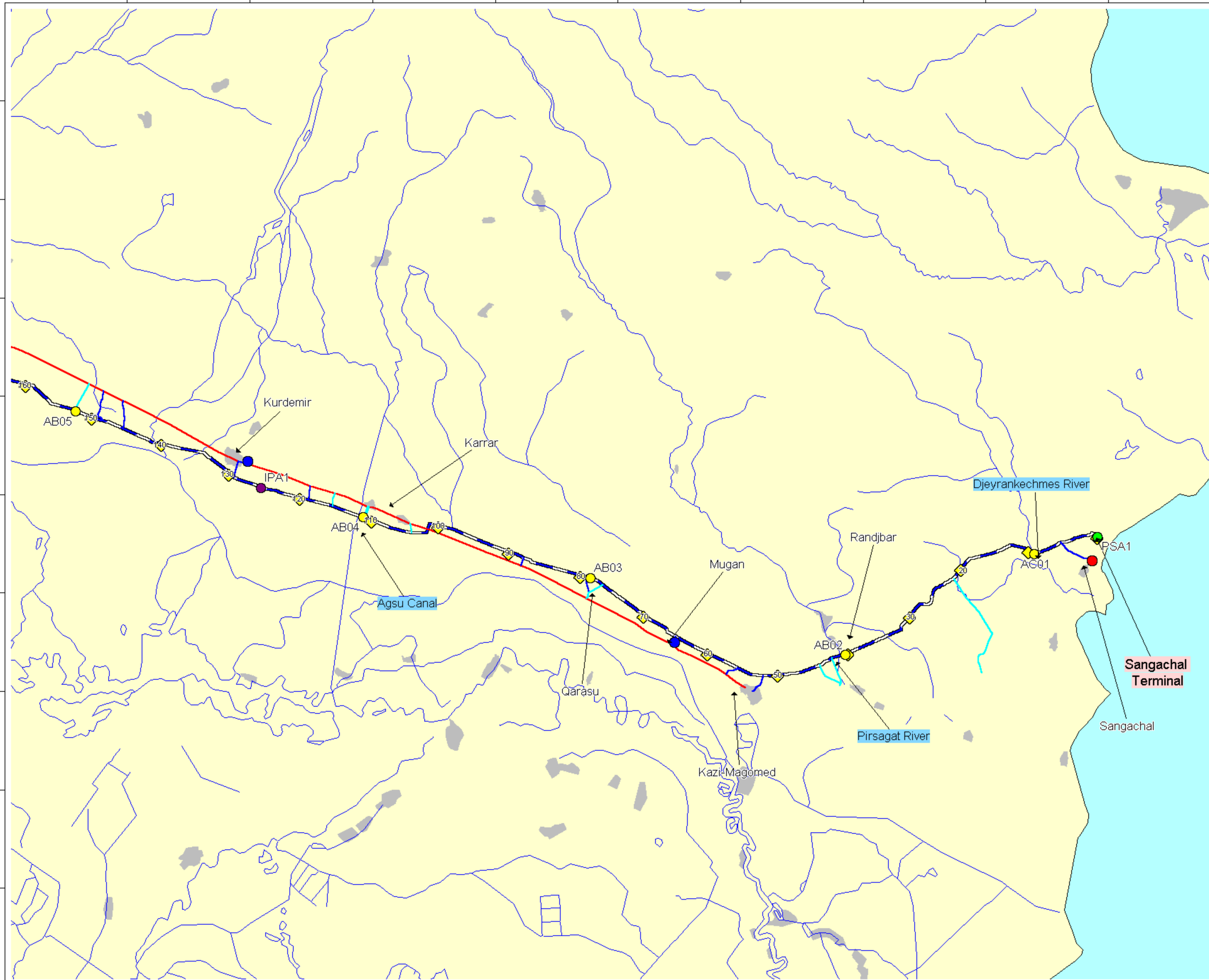
TITLE: **Figure 5-5: Location of AGI's along the proposed BTC pipeline**

SCALE: 1:1,250,000

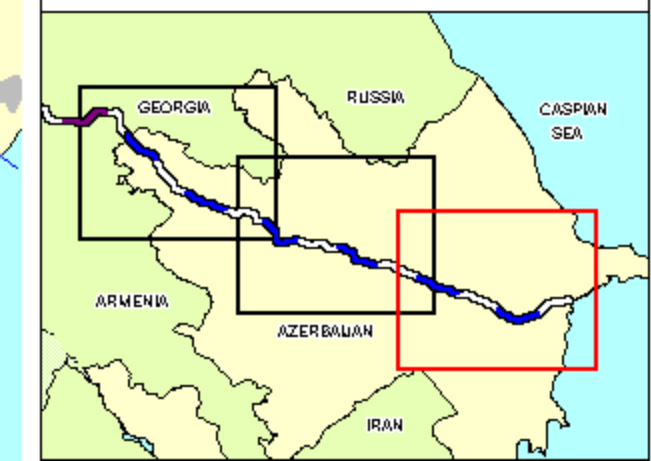
REV 01

FILE NAME: P8107\az\_fig5-5.WOR







- Proposed BTC pipeline
- River
- 10 Kilometre Points
- Populated areas
- (AC01) Azerbaijan Check valves  
(AB02) Azerbaijan Block valves
- (PSA1) Pumping Station Azerbaijan
- Camps
- Dumps
- (IPA1) Pigging Station Azerbaijan
- Existing highway access - no upgrade required
- Existing highway - needs upgrade and maintenance
- New access road - retained for AGI - Bitumen or All Weather



01	13.03.02	Pipeline re-route	MS	DL	WH
00	17.01.02	FIRST DRAFT	MS	DL	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



**BTC PIPELINE PROJECT**



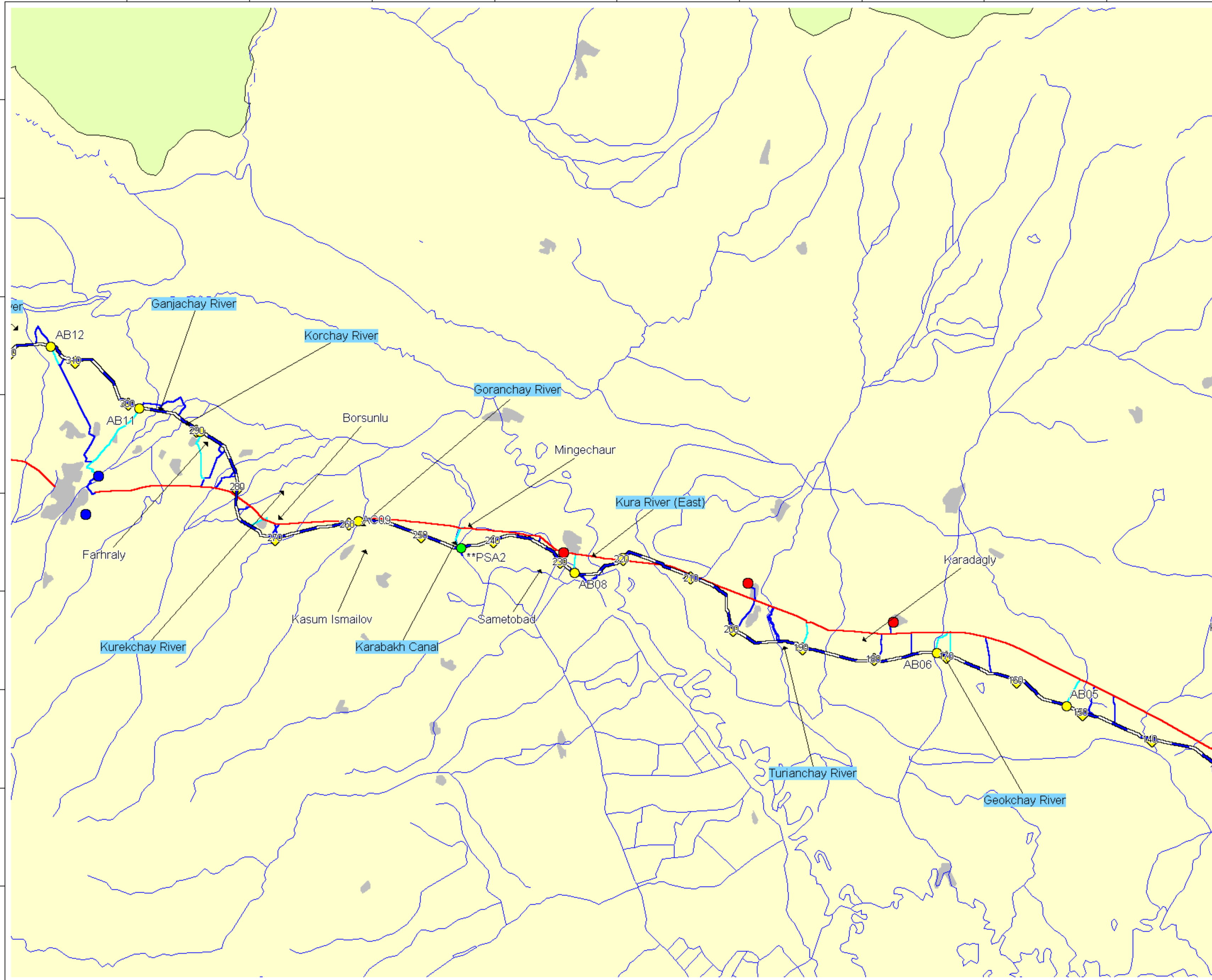
**AETC**  
Azerbaijan Environment  
and Technology Centre

**TITLE: Figure 5-9: Potential locations for access roads and associated construction facilities. (Map 1 of 3)**

SCALE: 1:500,000

REV 01





- Proposed BTC pipeline
- River
- 10 Kilometre Points
- Populated areas
- (AC01) Azerbaijan Check valves  
(AB02) Azerbaijan Block valves
- (PSA1) Pumping Station Azerbaijan
- Camps
- Dumps
- (IPA1) Pigging Station Azerbaijan
- Existing highway access - no upgrade required
- Existing highway - needs upgrade and maintenance
- New access road - retained for AGI - Bitumen or All Weather



01	13.03.02	Pipeline re-route	MS	DL	WH
00	17.01.02	FIRST DRAFT	MS	DL	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



## BTC PIPELINE PROJECT



TITLE: **Figure 5-9: Potential locations for access roads and associated construction facilities.**  
(Map 2 of 3)

SCALE: 1:500,000

REV 01

FILE NAME: P8107\az\_access-roads2.WOR





- Proposed BTC pipeline
- River
- 10 Kilometre Points
- Populated areas
- (AC01) Azerbaijan Check valves (AB02) Azerbaijan Block valves
- (PSA1) Pumping Station Azerbaijan
- Camps
- Dumps
- (IPA1) Pigging Station Azerbaijan
- Existing highway access - no upgrade required
- Existing highway - needs upgrade and maintenance
- New access road - retained for AGI - Bitumen or All Weather



01	13.03.02	Pipeline re-route	MS	DL	WH
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REV	DATE	DESCRIPTION	DRN	CHK	APP



## BTC PIPELINE PROJECT



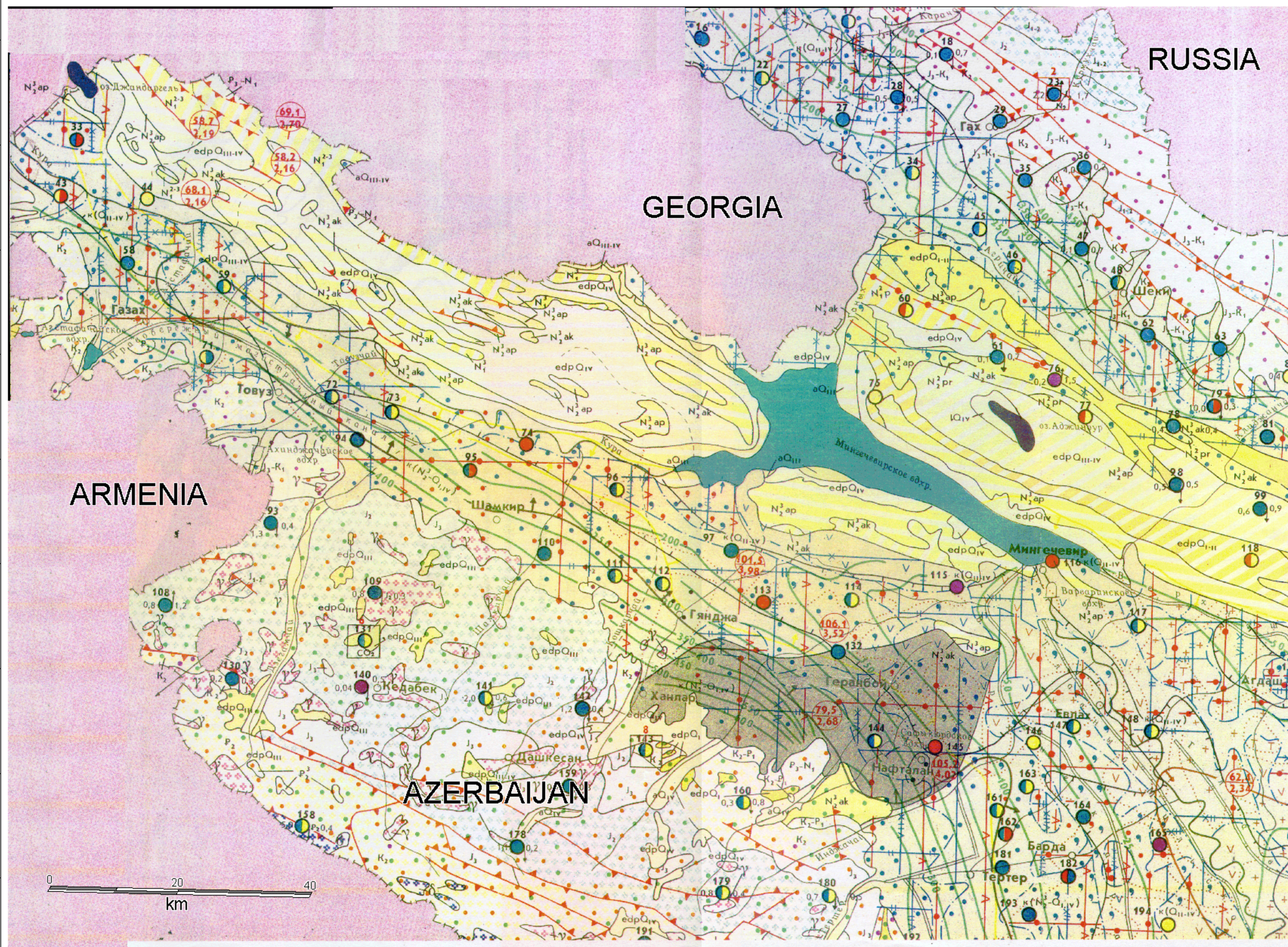
TITLE: Figure 5-9: Potential locations for access roads and associated construction facilities. (Map 3 of 3)

SCALE: 1:500,000

REV 01

FILE NAME: P8107Naz\_access-roads3.WOR





- Proposed BTC Pipeline**
- Light Yellow: Upper Quaternary aquifer complex outcrop.
  - Dark Grey: Lower Quaternary aquifer complex outcrop.
  - Horizontal striped yellow: Quaternary diluvial and Neogene sediments of generally aquitard nature.
  - Diagonally striped yellow: Quaternary and Neogene sediments of mixed permeable and aquitard nature.
  - Green, red and yellow spots: In the north and south of the map, Cretaceous and Jurassic bedrock of the Lesser and Greater Caucasus.
  - Red and blue spots superimposed on Quaternary complexes indicates fresh water. Increasing salinity indicated by commas and vees.
  - Green contours: Groundwater level contours in the uppermost aquifer unit in m above ocean level



01	13.03.02	Legend updated	MS	DL	NH
00	12.12.01	FIRST DRAFT	MS	DL	NH
REV	DATE	DESCRIPTION	DRN	CHK	APP



**BTC PIPELINE PROJECT**



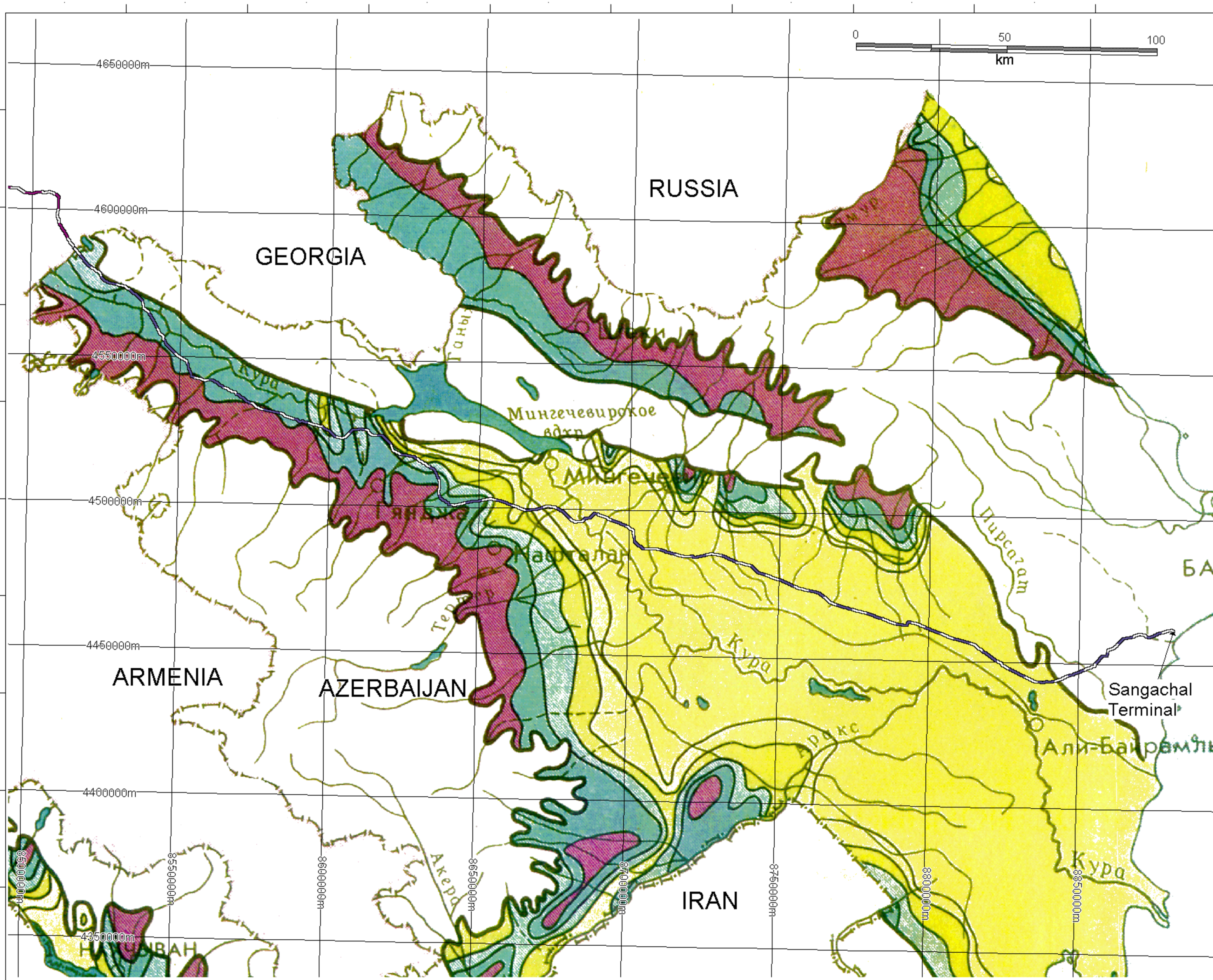
**TITLE: Figure 2.1: Hydrogeological map for western Azerbaijan**

SCALE: 1:200,000

REV 01

FILE NAME: P8107kaz\_fig\_2-1.WOR





**Proportion of pebbles in Quaternary aquifer horizons as a percentage**

- Proposed BTC Pipeline
- White Pebbles practically absent
- Light Yellow 0 - 25%
- Yellow 25 - 50%
- Light Green 50 - 75%
- Green 75 - 90%
- Red 90 - 100%



REV	DATE	DESCRIPTION	DRN	CHK	APP
01	13.03.02	Legend updated	DL	MS	NH
00	12.12.01	FIRST DRAFT	DL	MS	NH



**BTC PIPELINE PROJECT**



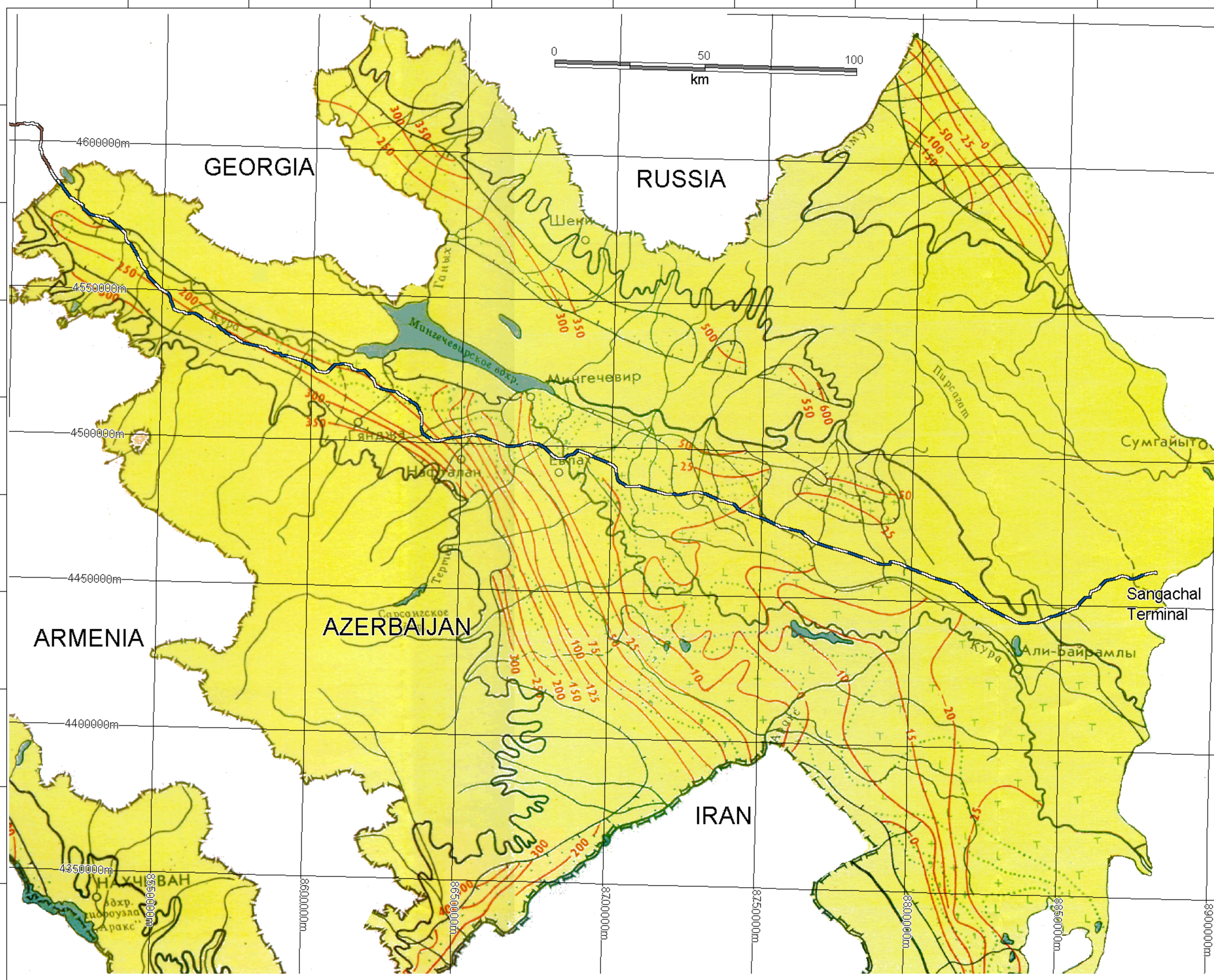
TITLE: **Figure 2-2: Proportion of pebbles in Quaternary aquifer horizons**

SCALE: 1:1,250,000

REV 01

FILE NAME: P8107\az\_fig-2.WOR





— Proposed BTC Pipeline

**Green shading shows water quality: (mineralisation in g/l)**

Dots = Fresh Water (< 1 g/l)

Commas = 1 - 3 g/l

+ = 3 - 10 g/l


L = 10 - 35 g/l

T = Saline Water (35 - 50 g/l)


**Red contours = Piezometric head, in m above ocean level, in confined aquifers of the Upper and Lower Complexes of Quaternary sediments**



01	13.03.02	Legend updated	DL	MS	NH
00	12.12.01	FIRST DRAFT	DL	MS	NH
REV	DATE	DESCRIPTION	DRN	CHK	APP



**BTC PIPELINE PROJECT**



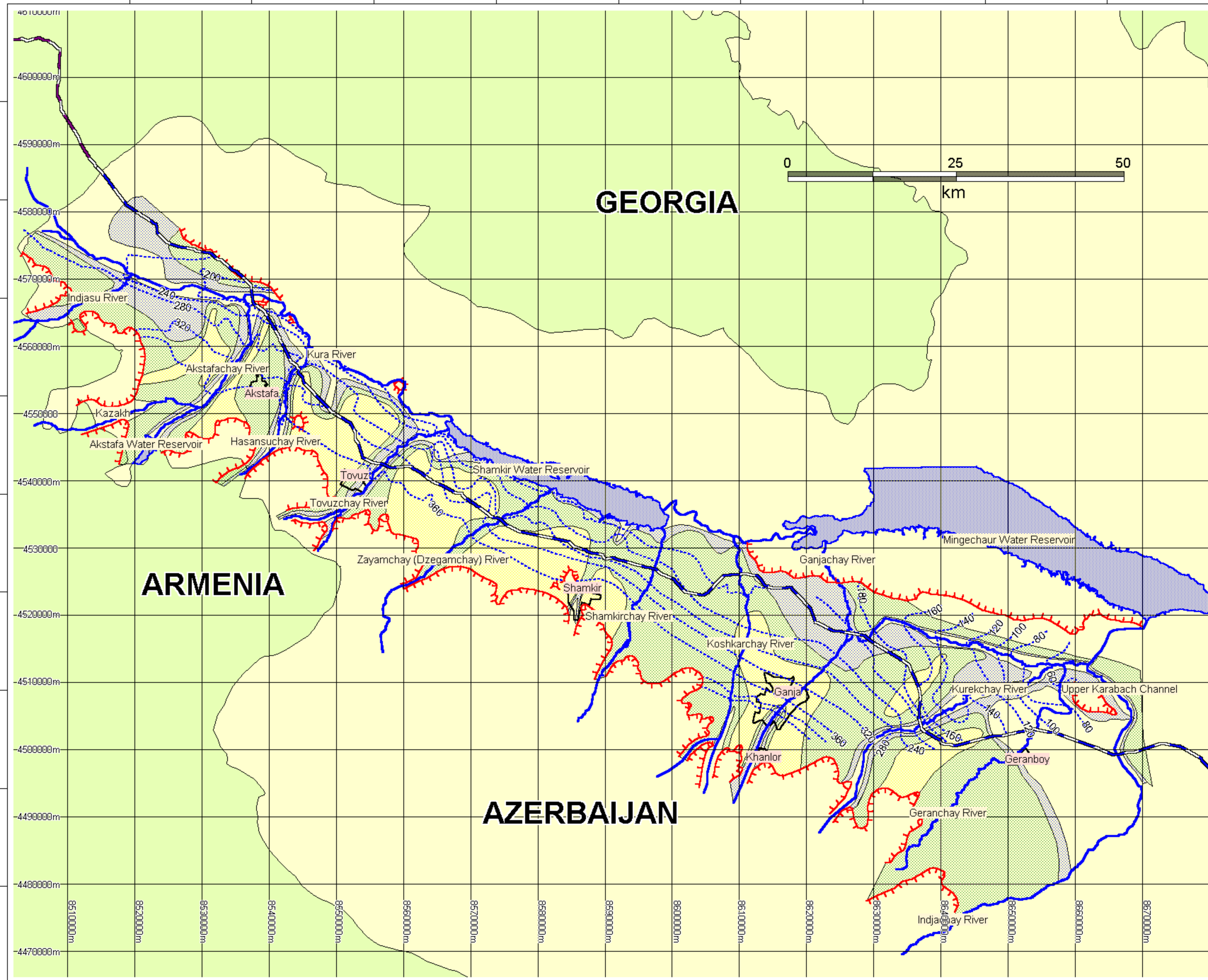
**AETC**  
Azerbaijan Environment and Technology Centre

TITLE: **Figure 2-3: Hydrogeological map of confined aquifers of Azerbaijan**

SCALE: 1:1,250,000

REV 01





- Proposed BTC Pipeline
- Reference contour of the development of the Quaternary water-bearing complex
- Depths to water table from surface (m)
  - 5.0 - 10.0
  - 10.0 - 25.0
  - 25.0 - 50.0
- Urban Zones
- Reservoirs and Rivers
- Groundwater level in m above ocean level



REV	DATE	DESCRIPTION	DRN	CHK	APP
01	13.03.02	Legend updated	MS	DB	WH
00	12.12.01	FIRST DRAFT	MS	DB	WH



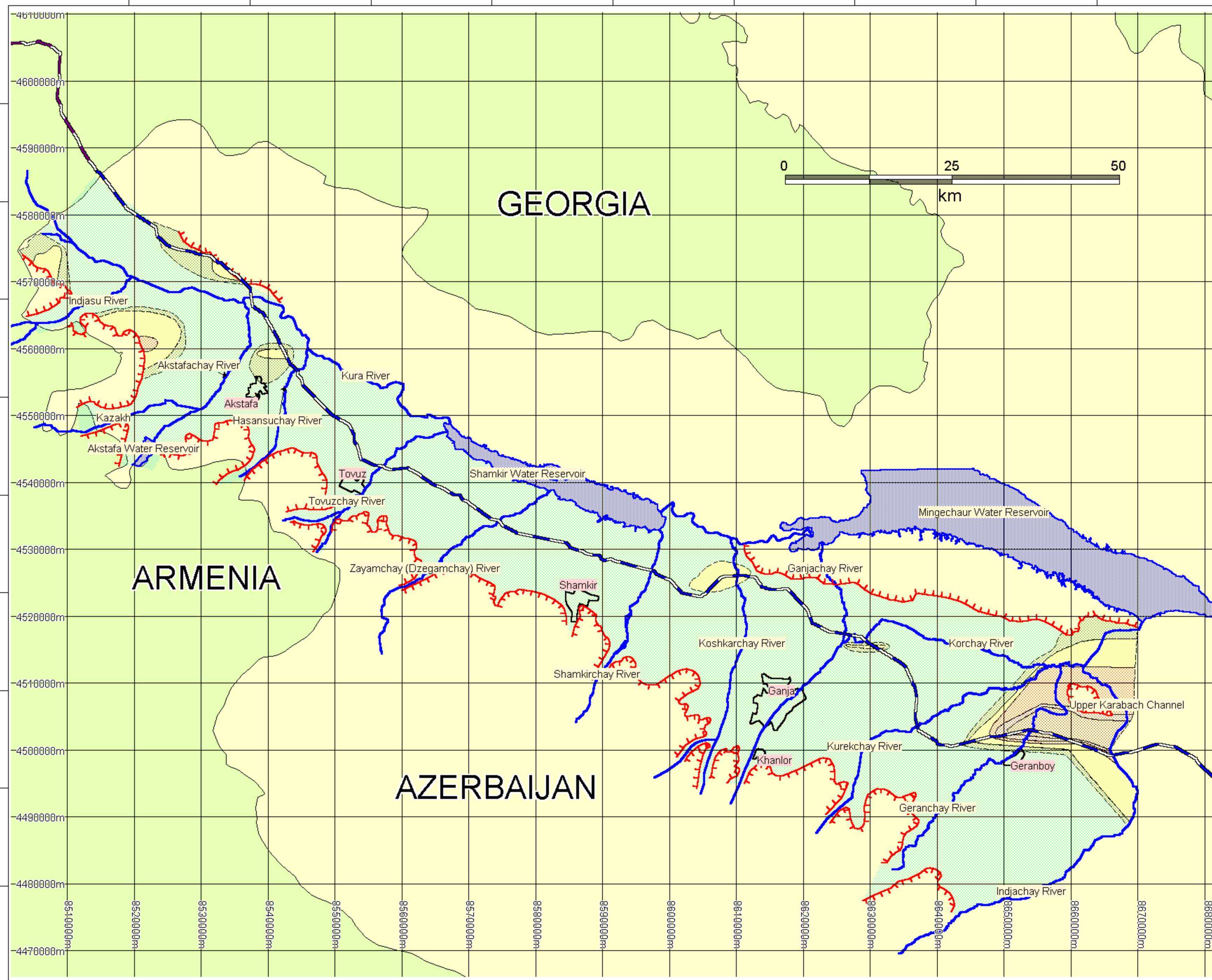
**BTC PIPELINE PROJECT**



**TITLE: Figure 2.4a: Depth to groundwater (g/l) in the 1st aquifer horizon (unconfined aquifer) of the Ganja-Kazakh Piedmont Plain and Karayazi Plain**

SCALE: 1:500,000 REV 01





Proposed BTC Pipeline

Reference contour of the development of the Quaternary water-bearing complex

Mineralisation, g/l

- up to 1.0
- 1.0 - 1.5
- 1.5 - 3.0
- 3.0 - 5.0
- 5.0 - 10.0
- > 10.0

Urban Zones

Reservoirs and Rivers



01	13.03.02	Legend updated	DL	MS	NH
00	12.12.01	FIRST DRAFT	DL	MS	NH
REV	DATE	DESCRIPTION	DRN	CHK	APP



BTC PIPELINE PROJECT

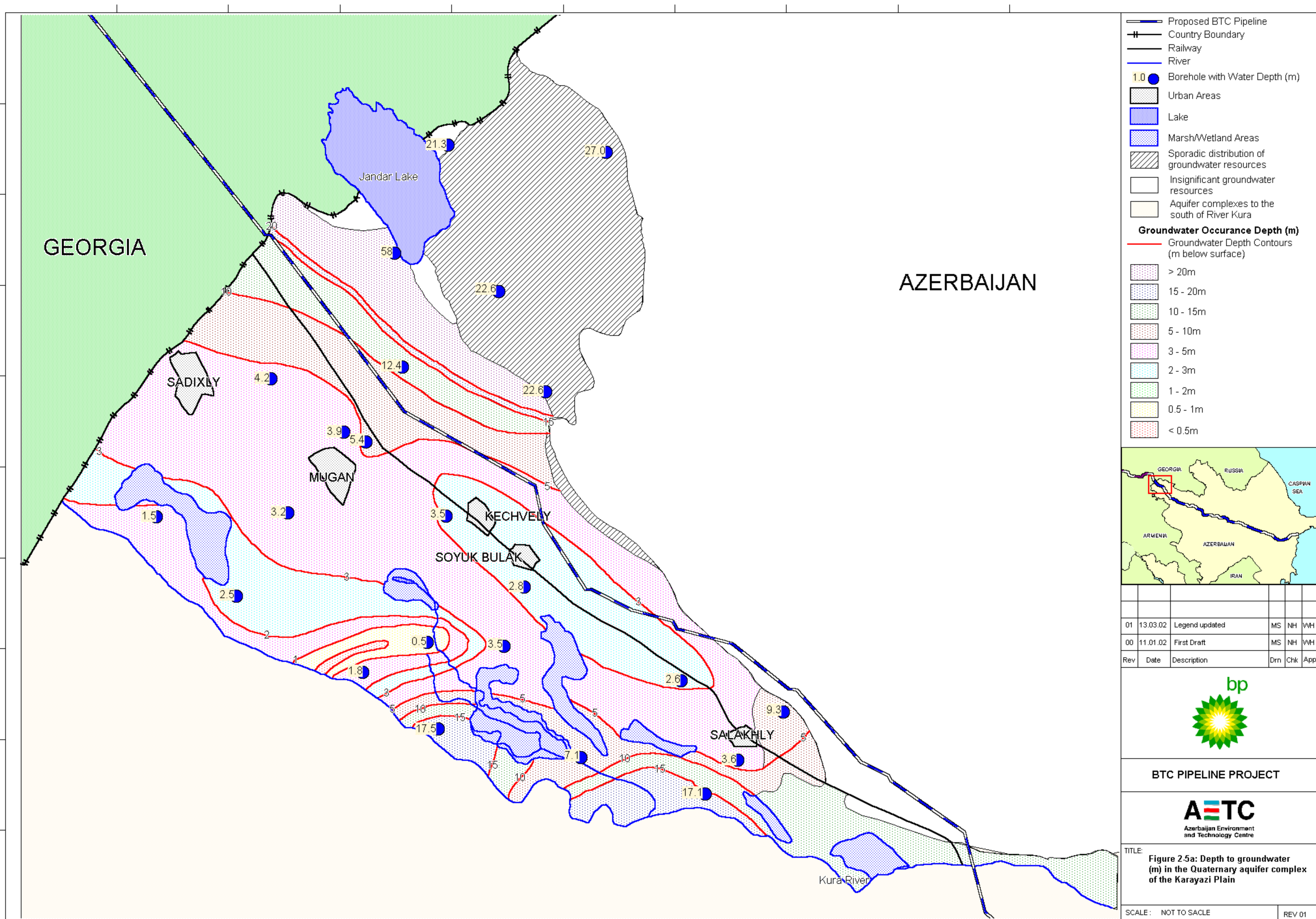
**AETC**  
Azerbaijan Environment  
and Technology Centre

TITLE: **Figure 2.4b: Mineralisation of Groundwater in 1st aquifer horizon (unconfined aquifer of the Ganja-Kazakh Piedmont Plain and Karayazi Plain)**

SCALE: 1:500,000

REV 01





- Proposed BTC Pipeline
- Country Boundary
- Railway
- River
- 1.0 Borehole with Water Depth (m)
- Urban Areas
- Lake
- Marsh/Wetland Areas
- Sporadic distribution of groundwater resources
- Insignificant groundwater resources
- Aquifer complexes to the south of River Kura
- Groundwater Occurrence Depth (m)**
- Groundwater Depth Contours (m below surface)
- > 20m
- 15 - 20m
- 10 - 15m
- 5 - 10m
- 3 - 5m
- 2 - 3m
- 1 - 2m
- 0.5 - 1m
- < 0.5m



Rev	Date	Description	Drn	Chk	App
01	13.03.02	Legend updated	MS	NH	VH
00	11.01.02	First Draft	MS	NH	VH



BTC PIPELINE PROJECT

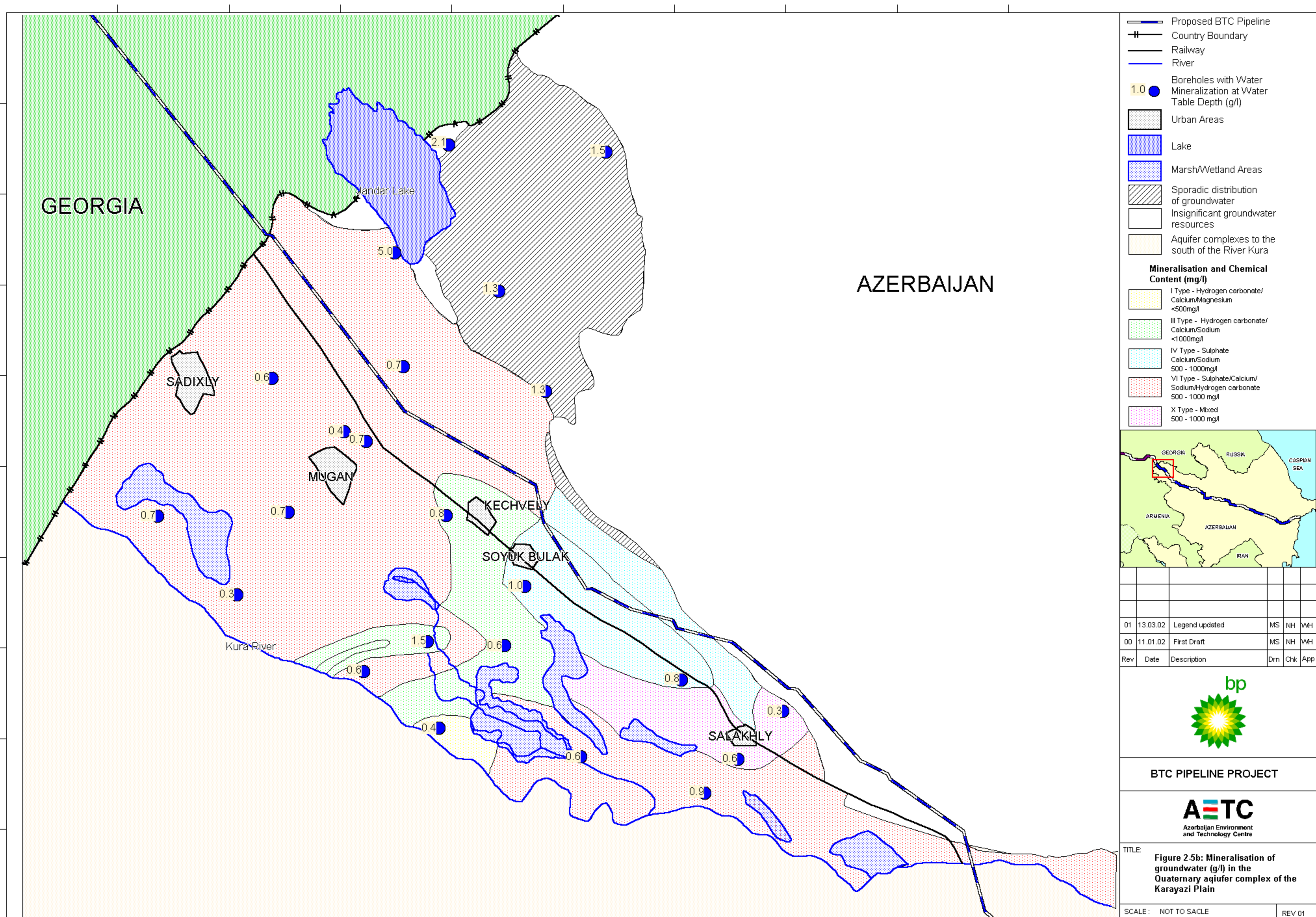


TITLE: Figure 2.5a: Depth to groundwater (m) in the Quaternary aquifer complex of the Karayazi Plain

SCALE: NOT TO SCALE REV 01





FILE NAME: P81078az\_Fig2-5a.WOR









-  Proposed BTC Pipeline
-  Populated Areas
-  Military Area
-  Contaminated Land



01	13.03.02	Pipeline re-route	MS	FD	WH
00	19.01.02	Contaminated Land	MS	FD	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



# **BTC PIPELINE PROJECT**

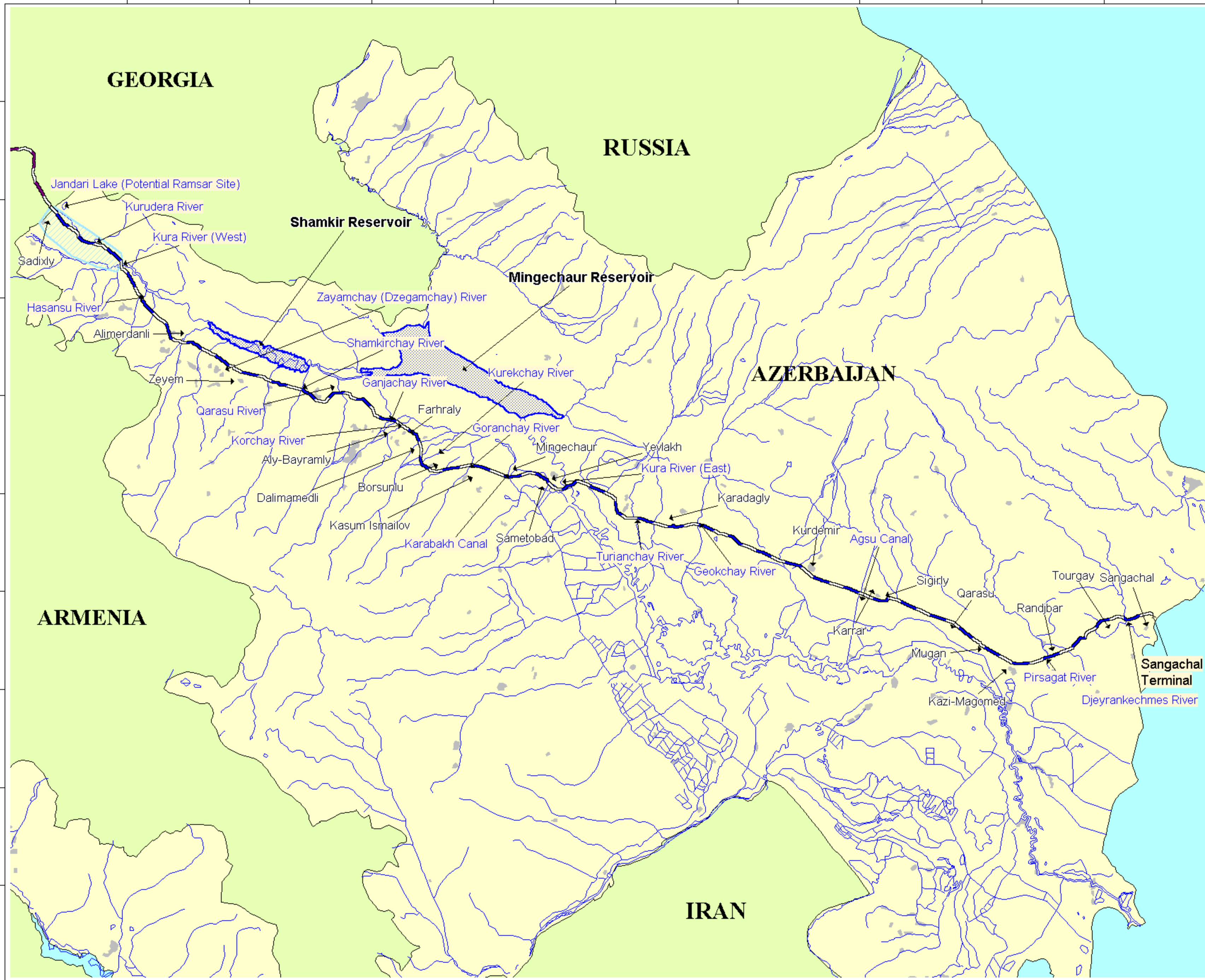


TITLE: **BAKU-TBILISI-CEYHAN PIPELINE**  
**Figure 8-13: Contaminated land and military areas along the BTC pipeline**

SCALE: 1:125,000

REV 01





Proposed BTC Pipeline

River

Populated Areas

Karayazi Aquifer

Reservoir

01	13.03.02	Pipeline re-route	MS	FD	WH
00	19.01.02	River Crossings	MS	FD	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP

**BTC PIPELINE PROJECT**

Azerbaijan Environment  
and Technology Centre

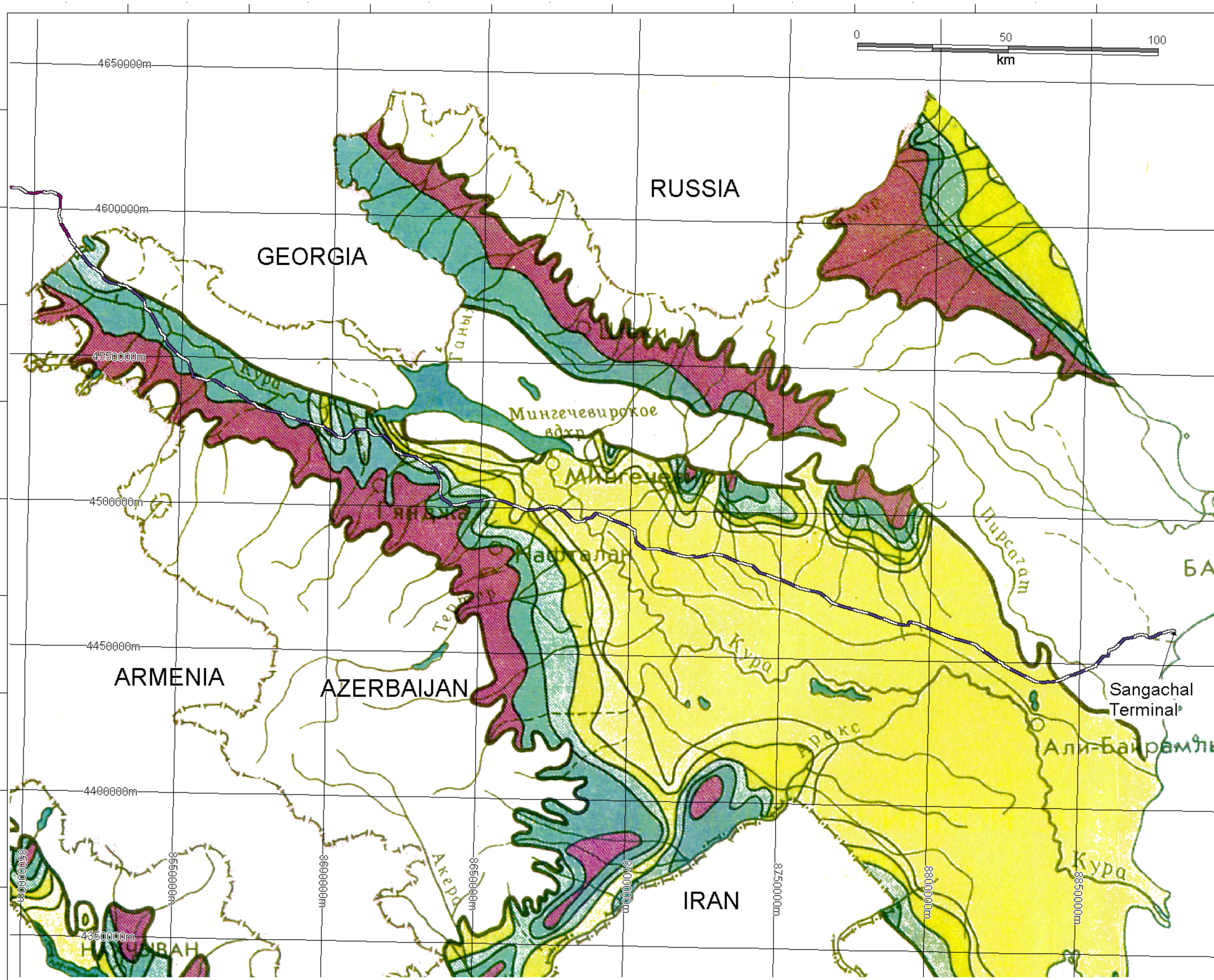
TITLE: **BAKU-TBILISI-CEYHAN PIPELINE**  
**Figure 8-14: River crossings along  
the BTC pipeline**

SCALE: 1:125,000

REV 01

FILE NAME: P8107AFIG 8-14 RIVER.WOR





Proportion of pebbles in Quaternary aquifer horizons as a percentage	
Proposed BTC Pipeline	
White	Pebbles practically absent
Light Yellow	0 - 25%
Yellow	25 - 50%
Light Green	50 - 75%
Green	75 - 90%
Red	90 - 100%



REV	DATE	DESCRIPTION	DRN	CHK	APP
01	13.03.02	Legend updated	DL	MS	NH
00	12.12.01	FIRST DRAFT	DL	MS	NH



**BTC PIPELINE PROJECT**



TITLE: **Figure 8-18: Groundwater Vulnerability (Proportion of pebbles in Quaternary aquifer horizons)**

SCALE: 1:1,250,000

REV 01

FILE NAME: P8107\az\_fig-18.WOR





- Proposed BTC Pipeline
- Populated Areas
- Gobustan Cultural Reserve
- Potential Archaeological Site



01	13.03.02	Pipeline re-route	MS	FD	WH
00	19.01.02	Archaeology	MS	FD	WH
REV	DATE	DESCRIPTION	DRN	CHK	APP



## BTC PIPELINE PROJECT



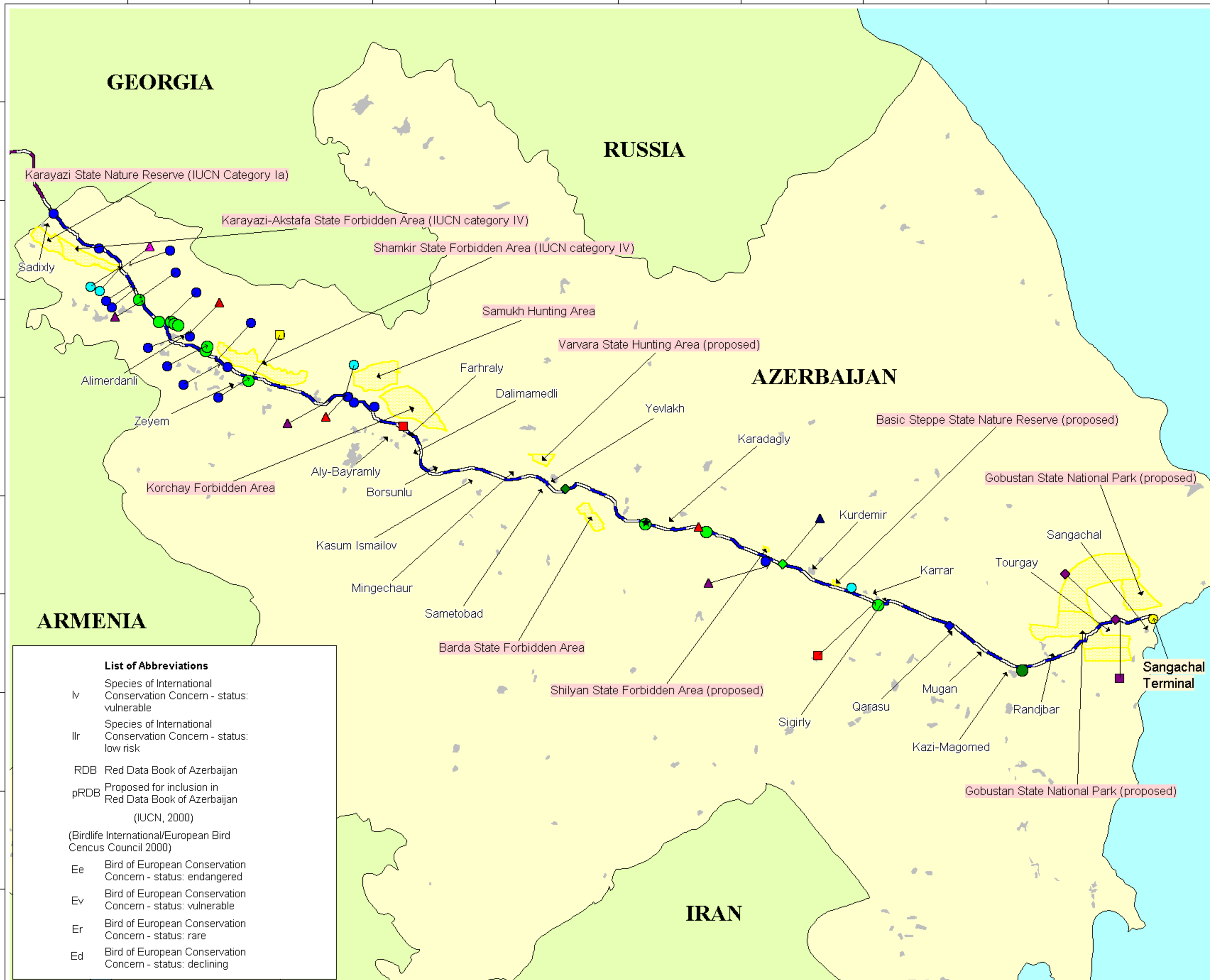
TITLE: **BAKU-TBILISI-CEYHAN PIPELINE**  
**Figure 8-22: Archaeological sites**  
**along the BTC pipeline**

SCALE: 1:125,000

REV 01

FILE NAME: P8107AFIG 8-22 ARCH.WOR





- Proposed BTC Pipeline
- Protected Area
- Merendera trigyna (pRDB)
  - Glycyrrhiza glabra (pRDB)
  - Testudo graeca (RDB, Iv)
  - Haliaeetus albicilla (RDB, Er, Ilr)
  - Chettusia leucura (RDB)
  - Plegadis falcinellus (pRDB, Ed)
  - Manduca atropos (RDB)
  - Hystrix indica (pRDB)
  - Alcedo atthis (Ed)
  - Felis lybica (RDB)
  - Francolinus francolinus (RDB, Ev)
  - Alectoris chukar (Ev)
  - Monticola solitarius (Ev)
  - Burhinus oedicnemus (Ev)
  - Bufo bufo (RDB)
  - Glareola nordmanni (RDB, Er)



REV	DATE	DESCRIPTION	DRN	CHK	APP
01	13.03.02	Pipeline re-route	MS	FD	WH
00	19.01.02	Protected Species	MS	FD	WH



## BTC PIPELINE PROJECT



TITLE: **BAKU-TBILISI-CEYHAN PIPELINE**  
**Figure 8-24: Locations of protected areas and species observations along the BTC pipeline**

SCALE: 1:125,000

REV 01

FILE NAME: P8107AFIG 8-24 SPECIES WOR





- Proposed BTC Pipeline
- Populated Areas
- Gobustan Region
- Shirvan Plain Region
- Karabakh Plain Region
- Caucasus Plain and Lowlands Region



REV	DATE	DESCRIPTION	DRN	CHK	APP
01	13.03.02	Pipeline re-route	MS	FW	WH
00	19.01.02	First Draft	MS	FW	WH



## BTC PIPELINE PROJECT



TITLE: **BAKU-TBILISI-CEYHAN PIPELINE**  
**Figure 8-9: Geographical regions along the BTC pipeline**

SCALE: 1:125,000

REV 01