GENERAL NOTES

Project No: P8107
Title: Environmental and Social Impact Assessment
Baku - Tbilisi - Ceyhan Oil Pipeline Azerbaijan

VOLUME 2: Environmental and Social Route Maps

Client: BP
Issue Date: May 2002
Issuing Office: Helsby

Authorised by: _______________ Project Manager Date: ________
Authorised by: _______________ Project QA Rep Date: ________

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Where field investigations have been carried out these have been restricted to a level of detail required to achieve the stated objectives of the work.

This work has been undertaken in accordance with the Quality Management System of AETC.

Some of the reports in this appendix have been prepared by independent consultants on behalf of AETC for use during the ESA process. Information available at the time of survey and report production may have changed subsequently. Any recommendations contained in the baseline reports do not necessarily constitute requirements or mitigations under the ESA; only those reflected in the main volume are to be implemented as part of the project.
Acknowledgements

This Environmental and Socio-economic Impact Assessment (ESIA) for the Baku-Tbilisi–Ceyhan Oil Pipeline, Azerbaijan was carried out by RSK and ERM on behalf of the BTC Owners (operated by BP).

RSK and ERM acknowledge the collective and individual contributions from a range of companies, academic and scientific experts in the preparation of this ESIA report. RSK and ERM are grateful for the willing assistance of these companies and individuals and their contribution to a rigorous and comprehensive ESIA report.

RSK and ERM acknowledge with thanks the following:

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M & M Impact
Synergetics
UTT
WSP

Academic and scientific experts and their organisations

Baku State University (Zoology)
Institute of Archaeology and Ethnography
Institute of Botany
Institute of Erosion and Irrigation
Institute of Geography
Institute of Zoology
Ministry of Environment and Natural Resources
Ministry of Culture
BP Research and Monitoring Group
EXPLANATION TO ROUTE MAPS

ECOLOGY

The conservation status of species has been assessed by reference to the Red Data Book for Azerbaijan (1989), information from local scientists on proposed additions to the Red Book, European Bird Populations: Estimates and Trends (Birdlife International/European Bird Census Council, 2000) and the 2000 IUCN Red List of Threatened Species. The status categories used in this volume are described in the Table 1, below.

<table>
<thead>
<tr>
<th>STATUS CATEGORY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ie</td>
<td>Species of International Conservation Concern – endangered</td>
</tr>
<tr>
<td>Iv</td>
<td>Species of International Conservation Concern – vulnerable</td>
</tr>
<tr>
<td>Ilr</td>
<td>Species of International Conservation Concern – low risk</td>
</tr>
<tr>
<td>Ee</td>
<td>Bird of European Conservation Concern - endangered</td>
</tr>
<tr>
<td>Ev</td>
<td>Bird of European Conservation Concern - vulnerable</td>
</tr>
<tr>
<td>Er</td>
<td>Bird of European Conservation Concern – rare</td>
</tr>
<tr>
<td>Ed</td>
<td>Bird of European Conservation Concern - declining</td>
</tr>
<tr>
<td>RDB</td>
<td>Listed in Red Data Book of Azerbaijan Republic</td>
</tr>
<tr>
<td>PRDB</td>
<td>Proposed for inclusion in Red Data Book of Azerbaijan Republic</td>
</tr>
</tbody>
</table>

Where vegetation data has been collected during field surveys, community types for each broad habitat type have been identified. Their structure and species composition are described below in Table 2.

<table>
<thead>
<tr>
<th>VEGETATION COMMUNITIES WITH BROAD HABITAT CATEGORIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESERT</td>
</tr>
<tr>
<td>D1</td>
</tr>
<tr>
<td>D2</td>
</tr>
<tr>
<td>D3</td>
</tr>
<tr>
<td>D4</td>
</tr>
<tr>
<td>D5</td>
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<td>D6</td>
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<td>D7</td>
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<td>D8</td>
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<td>D9</td>
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<td>D10</td>
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<tr>
<td>D11</td>
</tr>
<tr>
<td>D12</td>
</tr>
<tr>
<td>D13</td>
</tr>
<tr>
<td>D14</td>
</tr>
<tr>
<td>SEMI-DESERT</td>
</tr>
<tr>
<td>SD1</td>
</tr>
<tr>
<td>SD2</td>
</tr>
<tr>
<td>SD3</td>
</tr>
</tbody>
</table>
Table 2 Vegetation communities with broad habitat categories

<table>
<thead>
<tr>
<th>SD4</th>
<th>Salsola dendroides</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD5</td>
<td>Interzone</td>
</tr>
</tbody>
</table>

**AGRICULTURAL**

<table>
<thead>
<tr>
<th>A1</th>
<th>Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2</td>
<td>Old Fields</td>
</tr>
</tbody>
</table>

**WOODLAND AND SCRUB**

<table>
<thead>
<tr>
<th>WS1</th>
<th>Plantations</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS2</td>
<td>Scrub</td>
</tr>
</tbody>
</table>

**WETLAND**

<table>
<thead>
<tr>
<th>W1</th>
<th>River</th>
</tr>
</thead>
<tbody>
<tr>
<td>W2</td>
<td>Lake</td>
</tr>
<tr>
<td>W3</td>
<td>Canals (Major)</td>
</tr>
<tr>
<td>W4</td>
<td>Marsh</td>
</tr>
<tr>
<td>W5</td>
<td>Seasonal marsh / Chal meadow</td>
</tr>
</tbody>
</table>

**OTHER**

Individually Named

**ARCHAEOLOGY**

The following archaeological sites will be subject to trial trenching investigation prior to construction:

Gobustan (KP9-11) Sites 4, 5, 6
Kazi-Magomed (KP54) Sites 21, 22
Yevlakh (KP221) Sites 52, 53, 54
Neymatabad (KP236) Site 56
Mingechaur (KP248) Site 57
Nadirkand (KP276) Site 59
Dalimamedli (KP280) Site 60
Zayamchai (KP355) Sites 111, 112, 113
Girag Salakhli (KP 05) Site 138
### Water (Communal Piped Water Supply)
- 🌧️ Always Receive Water
- 🌧️ Interrupted
- 🌧️ No Communal Supply

### Water (Other Sources)
- 🌧️ Household Well or Neighbourhoods/Community Well
- 🌧️ Stored Water Supply
- 🌧️ Springs
- 🌧️ Canals

### Electricity (Frequency of Supply)
- 🌆 Permanent
- 🌆 Interrupted
- 🌆 Seasonal
- 🌆 No Supply

### Gas (Piped Supply)
- 🌆 Permanent
- 🌆 Interrupted
- 🌆 No Gas line/No Supply

### Gas (Canisters)
- ✅ Available
- 🚫 Not Locally Available
- 🚫 Too Expensive
- 🚫 Do Not Use Gas

### Telephones (Landline)
- 📞 Most Households
- 📞 One at Communal Points
- 📞 None

### Roads (Quality)
- 💥💥💥💥 Excellent
- 💥💥💥 Very Good
- 💥💥 Good
- 💥 Fair
- 💥 Poor
- 🏛️ Non-Existent

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*Source: Community Perceptions based on results of Social Baseline data collection*
Azerbaijan Map 01: Settlements Along Pipeline Route Corridor (BTC Pipelines Project)

Socio-Economic Survey Legend
Included as Separate Figure

* Socio-Economic Data Not Available

Title: Azerbaijan Map 01: Settlements Along Pipeline Route Corridor (BTC Pipelines Project)

Scale: 1:75,000

Revision: 00

First Draft: 07.03.02

Date: 05

Kilometres

NORTH

0 10 20 30 40 50

Kilometres

Diagram showing potential pipeline routes and settlements, including
Proposed Pipeline Route, Proposed Pipeline 2km Corridor, Administrative Boundaries,
Potential Pipe Yards, Potential Construction Camps, Pump Station, Pigging Station,
and Five Kilometre Marker.

Legend includes Socio-Economic Survey Legend and Settlements.

Potential Pipe Yards and Construction Camps marked.

Administrative boundaries shown.

Distance markers in kilometres.

Legend includes Socio-Economic Data Not Available indicator.

Diagram includes settlements along the pipeline route, Sangachal (Includes Azimkend),
Garadag, and Absheron.

Socio-Economic Data Not Available for certain areas.
Azerbaijan Map 02: Settlements Along Pipeline Route Corridor (BTC Pipelines Project)

Hadgiqabul

Randjbar

Pirsagat

Hadgiqabul Town

Socio-Economic Survey Legend
Included as Separate Figure

* Socio-Economic Data Not Available

BTC PIPELINES PROJECT

TITLE: Azerbaijan Map 02: Settlements Along Pipeline Route Corridor (BTC Pipelines Project)

SCALE: 1:75,000

FILE NAME: BSC Azerbaijan Map 02.WOR
TITLE: Socio-Economic Survey

Included as Separate Figure

* Socio-Economic Data Not Available

BTC PIPELINES PROJECT

Socio-Economic Survey Legend

- Proposed Pipeline Route
- Settlements
- Proposed Pipeline 2km Corridor
- Administrative Boundaries
- Potential Pipe Yards
- Potential Construction Camps
- Pump Station
- Pigging Station
- Five Kilometre Marker

FILE NAME: Azerbjan Map 03: Settlements Along Pipeline Route Corridor (BTC Pipelines Project)

SCALE: 1:75,000

REV: 00

FIRST DRAFT 07.03.02 REV MACL SR

Kilometres/G2b/G2b/G2b

SETTLEMENTS ALONG PIPELINE ROUTE CORRIDOR

Qarasu

Mugan

Hadgiqabul
TITLE: Socio-Economic Survey Legend Included as Separate Figure

* Socio-Economic Data Not Available

BTC PIPELINES PROJECT

FILE NAME: 8338\BTC Azerbaijan Map 04.WOR

Azerbaijan Map 04: Settlements Along Pipeline Route Corridor (BTC Pipelines Project)

SCALE: 1:75,000

REV: 00

DATE: 07.03.02

REV MACL SR

Kilometres

NORTH

0 10 20 30 40 50

Proposed Pipeline Route
Settlements
Proposed Pipeline 2km Corridor
Administrative Boundaries
Potential Pipe Yards
Potential Construction Camps
Pump Station
Pigging Station
Five Kilometre Marker

Proposed Pipeline Route 2km Corridor
Administrative Boundaries
Potential Pipe Yards
Potential Construction Camps
Pump Station
Pigging Station
Five Kilometre Marker

Socio-Economic Data Not Available
Azerbaijan Map 05: Settlements Along Pipeline Route (BTC Pipelines Project)

Settlements: Kurdemir Town, Yeri Shoxmity, Karrar Station, Chokhranly

Legend:
- Proposed Pipeline Route
- Proposed Pipeline 2km Corridor
- Administrative Boundaries
- Potential Pipe Yards
- Potential Construction Camps
- Pump Station
- Pigging Station
- Five Kilometre Marker

Socio-Economic Survey Legend
- Socio-Economic Data Not Available

Includes separate figure for Socio-Economic Data.
TITLE: Socio-Economic Survey Legend
Included as Separate Figure
- Socio-Economic Data Not Available

FILE NAME: 8338\BTC Azerbaijan Map 06.WOR

Azerbaijan Map 06: Settlements Along Pipeline Route Corridor (BTC Pipelines Project)

SCALE: 1:75,000

BTC PIPELINES PROJECT

REV 07/03/02 FIRST DRAFT

ERI

TITLE: Socio-Economic Survey Legend
Included as Separate Figure
- Socio-Economic Data Not Available

FILE NAME: 8338\BTC Azerbaijan Map 06.WOR

Azerbaijan Map 06: Settlements Along Pipeline Route Corridor (BTC Pipelines Project)

SCALE: 1:75,000

BTC PIPELINES PROJECT

REV 07/03/02 FIRST DRAFT

ERI

TITLE: Socio-Economic Survey Legend
Included as Separate Figure
- Socio-Economic Data Not Available

FILE NAME: 8338\BTC Azerbaijan Map 06.WOR

Azerbaijan Map 06: Settlements Along Pipeline Route Corridor (BTC Pipelines Project)

SCALE: 1:75,000

BTC PIPELINES PROJECT

REV 07/03/02 FIRST DRAFT

ERI
**Title:** Settlements Along Pipeline Route Corridor (BTC Pipelines Project)

**Description:**
- **Proposed Pipeline Route**
- **Settlements**
- **Proposed Pipeline 2km Corridor**
- **Administrative Boundaries**
- **Potential Pipe Yards**
- **Potential Construction Camps**
- **Pump Station**
- **Pigging Station**
- **Five Kilometre Marker**

**Legend:**
- Socio-Economic Data Not Available

**Settlements Mentioned:**
- Karadagly
- Ujar Town
- Ganaberk
- Gulabend
- Geychay
- Anver Memmedhanly
- Alpout
- Chinyny
- Ujar
- Garaberk
- Karadagly
- Ujar Town

**Map Scale:** 1:75,000

**Revision History:**
- **First Draft:** 07.03.02

**File Name:** 8338\BTC Azerbaijan Map 07.WOR

**Project:** BTC Pipelines Project
**TITLE:** Socio-Economic Survey Legend
Included as Separate Figure

- * Socio-Economic Data Not Available
**Azerbaijan Map 10: Settlements Along Pipeline Route Corridor (BTC Pipelines Project)**

**Title:** Socio-Economic Survey Legend Included as Separate Figure

- Proposed Pipeline Route
- Settlements
- Proposed Pipeline 2km Corridor
- Administrative Boundaries
- Potential Pipe Yards
- Potential Construction Camps
- Pump Station
- Pigging Station
- Five Kilometre Marker

**Legend:**
- Socio-Economic Data Not Available

**Scale:** 1:75,000

**Date:** 07.03.02

**File Name:** 8338\BTC Azerbaijan Map 10.WOR
Azerbaijan Map 12: Settlements Along Pipeline Route Corridor

Socio-Economic Survey Legend
Included as Separate Figure

* Socio-Economic Data Not Available

BTC PIPELINES PROJECT

FILE NAME: 8338\BTC Azerbaijan Map 12.WOR

FIRST DRAFT
REVI 07/03/02
MACL SR

TITLE: Azerbaijan Map 12: Settlements Along Pipeline Route Corridor
SCALE: 1:75,000
REV 09
Azerbaijan Map 14: Settlements Along Pipeline Route Corridor

Socio-Economic Survey Legend
Included as Separate Figure

* Socio-Economic Data Not Available
Azerbaijan Map 15: Settlements Along Pipeline Route Corridor

Socio-Economic Survey Legend
Included as Separate Figure

* Socio-Economic Data Not Available