

Kelsch Kelsch Ruff & Kranda

C. F. Kelsch
1890 - 1987

William C. Kelsch
1932 - 2012

ARLEN M. RUFF, P.C.
THOMAS D. KELSCH, P.C.
TODD D. KRANDA, P.C.*
DANIEL J. NAGLE, P.C.**
GARRETT D. LUDWIG*
ALEXANDER S. KELSCH

*Also Licensed in Minnesota
**Also Licensed in South Dakota

Attorneys at Law
Mandan, North Dakota

Thomas F. Kelsch
Retired

MERITAS LAW FIRMS WORLDWIDE



103 Collins Avenue
P.O. Box 1266
Mandan, ND 58554-7266
Phone (701) 663-9818
1-888-663-9818
Fax (701) 663-9810
Website www.kelschlaw.com

June 30, 2014

MR DARRELL NITSCHKE
EXECUTIVE SECRETARY
PUBLIC SERVICE COMMISSION
600 EAST BOULEVARD, DEPT 408
BISMARCK ND 58505-0480

HAND DELIVERED

Re: TransCanada - Keystone Pipeline Project
Case No: PU-06-421
Our File No. 11815

Dear Mr. Nitschke:

Enclosed are ten binders which contain the 2014 Ten Year Plan for the TransCanada Keystone Pipeline. Also enclosed is an original and seven copies of the Notice of Filing and Affidavit of Service. I am further enclosing a CD containing this material.

If you have any questions, please feel free to contact me.

Sincerely,

Todd D. Kranda

TK:lh
Encs

c: TransCanada Keystone



1 PU-14-500 Filed: 6/30/2014 Pages: 32
2014 Ten Year Plan

TransCanada Keystone Pipeline, LP
Todd Kranda, KelschKelschRuff&Kranda

NOTICE OF FILING

You are hereby notified, pursuant to Section 69-06-02-02(2) of the North Dakota Administrative Code, that TransCanada Keystone Pipeline, LP has filed with the North Dakota Public Service Commission the Ten Year Plan for 2014 with regard to the Keystone Pipeline.

Dated this 30th day of June, 2014.



TODD D. KRANDA

State Bar ID No. 04512

KELSCH, KELSCH, RUFF & KRANDA

Attorneys for the TransCanada

103 Collins Avenue, P.O. Box 1266

Mandan, North Dakota 58554-7266

Telephone: (701) 663-9818

Facsimile: (701) 663-9810

kranda@kelschlaw.com

[4] That "Notice of Filing" of document with postage prepaid was mailed, directed to the persons to be served at their last known post office address as follows:

KYLE WANNER, INTERIM DIRECTOR
NORTH DAKOTA STATE AERONAUTICS COMMISSION
BOX 5020
BISMARCK ND 58502-5020

WAYNE STENEHJEM, ATTORNEY GENERAL
OFFICE OF THE ATTORNEY GENERAL
600 E BOULEVARD AVE - DEPT 125
BISMARCK ND 58505

DOUG GOEHRING, COMMISSIONER
DEPARTMENT OF AGRICULTURE
600 E BOULEVARD AVE - DEPT 602
BISMARCK ND 58505-0020

TERRY DWELLE MD, STATE HEALTH OFFICER
NORTH DAKOTA DEPARTMENT OF HEALTH
600 E BOULEVARD AVE
BISMARCK ND 58505-0200

CAROL K OLSON, EXECUTIVE DIRECTOR
DEPARTMENT OF HUMAN SERVICES
600 E BOULEVARD AVE - DEPT 325
BISMARCK ND 58505-0250

BONNIE L STORBAKKEN, COMMISSIONER
DEPARTMENT OF LABOR
600 E BOULEVARD AVE - DEPT 406
BISMARCK ND 58505-0340

WAYNE KUTZER, STATE DIRECTOR & EXECUTIVE OFFICER
ND DEPT OF CAREER & TECHNICAL EDUC
600 E BOULEVARD AVE - DEPT 270
BISMARCK ND 58505-0610

PAUL LUCY, DIRECTOR
ECONOMIC DEVELOPMENT & FINANCE
1600 E CENTURY AVE - STE 2
BISMARCK ND 58503

JEFF ENGLESON, DIRECTOR
ENERGY DEVELOPMENT IMPACT OFFICE
C/O NORTH DAKOTA STATE LAND DEPT
PO BOX 5523
BISMARCK ND 58506-5523

TERRY STEINWAND, DIRECTOR
GAME & FISH DEPARTMENT
100 N BISMARCK EXPRESSWAY
BISMARCK ND 58501-5095

EDWARD C MURPHY, STATE GEOLOGIST & DIRECTOR
NORTH DAKOTA GEOLOGICAL SURVEY
600 E BOULEVARD AVE
BISMARCK ND 58505-0840

HONORABLE JACK DALRYMPLE
OFFICE OF THE GOVERNOR
600 E BOULEVARD AVE
BISMARCK ND 58505-0001

GRANT LEVI, DIRECTOR
DEPARTMENT OF TRANSPORTATION
608 E BOULEVARD AVE
BISMARCK ND 58505-0700

MERLAN E PAAVERUD, DIRECTOR
STATE HISTORICAL SOCIETY OF NORTH DAKOTA
NORTH DAKOTA HERITAGE CTR - CAPITOL GROUNDS
612 E BOULEVARD AVE
BISMARCK ND 58505-0830

SCOTT DAVIS, EXECUTIVE DIRECTOR
INDIAN AFFAIRS COMMISSION
600 E BOULEVARD AVE - 1ST FL JUDICIAL WING
BISMARCK ND 58505-0300

DARREN BROSTROM, INTERIM EXECUTIVE DIRECTOR
JOB SERVICE NORTH DAKOTA
PO BOX 5507
BISMARCK ND 58506-5507

LANCE GAEBE, LAND COMMISSIONER
NORTH DAKOTA STATE LAND DEPT
PO BOX 5523
BISMARCK ND 58506-5523

MARK ZIMMERMAN, DIRECTOR
PARKS AND RECREATION DEPARTMENT
1600 E CENTURY AVE - STE 3
BISMARCK ND 58503-0649

PAUL GOVIG, DIRECTOR
NORTH DAKOTA DIV OF COMMUNITY SERVICES
PO BOX 2057
BISMARCK ND 58502-2057

SCOTT HOCHHALTER, SOIL CONSERVATION SPECIALIST
ND STATE SOIL CONSERVATION COMMITTEE
2718 GATEWAY AVE - UNIT 104
BISMARCK ND 58503

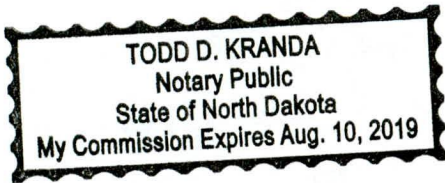
TODD SANDO, STATE ENGINEER
STATE WATER COMMISSION
900 E BOULEVARD AVE
BISMARCK ND 58505-0850



LORI HANSON

STATE OF NORTH DAKOTA)
) ss.
COUNTY OF MORTON)

The foregoing instrument was acknowledged before me this 30th day of June, 2014, by
LORI HANSON.





Notary Public

Prepared by: Todd D. Kranda
ND State Bar #04512
kranda@kelschlaw.com

Pursuant to Section 49-22-04 of the North Dakota Century Code, and the North Dakota Public Service Commission Guidelines for Ten-Year Plan Reports (Guidelines), TransCanada Keystone Pipeline, LP (Keystone) hereby submits its Ten-Year Plan for 2014. The Section headings and Item Nos. in this report correspond to those set forth in the Guidelines:

Section A Existing Energy Conversion Facilities

1. Keystone is a common carrier engaged in the transportation of crude oil via its pipeline system, which extends from Western Canada to terminals in Missouri, Illinois, and Oklahoma. Keystone has no energy conversion facilities, as defined in North Dakota Century Code § 49-22-03(5) and does not file Federal Energy Regulatory Commission Form No. 67.
2. Not Applicable. (See No. 1 above).

Section B Energy Conversion Facilities Under Construction

Not Applicable – Keystone does not have any Energy Conversion Facilities under construction.

Section C Proposed Energy Conversion Facilities on Which Construction is Intended Within the Ensuing Five Years

Not Applicable -- Keystone does not propose to construct or operate any Energy Conversion Facilities within the next five-year period.

Section D Proposed Energy Conversion Facilities During the Next Ten-Year Period

Not Applicable – Keystone does not propose to construct or operate any Energy Conversion Facilities within the next ten-year period.

Section E Existing Transmission Facilities (Electric)

Not Applicable – Keystone does not have any electric transmission facilities in North Dakota.

Section F Existing Transmission Facilities (Pipeline)

1. Location: See maps attached as Appendix A.
2. Geographical Service Area: No service is currently proposed in North Dakota.
3. Facility Description:
 - a. Product type: Crude oil.

- b. Approximate length of facility in miles: 218 miles in North Dakota. (The length of the facility in the United States is approximately 1,384 miles from the North Dakota-Canada border to Patoka, Illinois, and extending from Steel City, Nebraska to Cushing, Oklahoma).
- c. Pipe Size: 30-inches O.D. in North Dakota.
- d. Design pressure, temperature, and flow rate: The design pressure is 1440 psi. The operating temperature in North Dakota will range between 52°F to 60°F in the winter and 78°F to 85°F in the summer with a flow rate of 435,000 bbl/day and between 69°F to 80°F in the winter and 92°F to 102°F in the summer with a flow rate of 591,000 bbl/day.
- e. Number of compressor or pumping stations: There are five (5) pumping stations in North Dakota (27 total in the United States). The five North Dakota pump stations are described below:
 - Edinburg – Walsh County – 5 Pump Units
 - Niagara – Nelson County – 5 Pump Units
 - Luverne – Steele County – 4 Pump Units
 - Fort Ransom – Ransom County – 4 Pump Units
 - Ludden – Sargent County - 4 Pump Units

4. Proposed Timetable:

- a. Corridor Identification: The Public Service Commission issued a Certificate of Corridor Compatibility (No. 101) to Keystone on February 21, 2008, a First Amended Certificate of Corridor Compatibility (No. 101) dated May 30, 2008, a Second Amended Certificate of Corridor Compatibility (No. 101) dated July 2, 2008, and a Third Amended Certificate of Corridor Compatibility (No. 101) dated August 27, 2008.
- b. Route Identification: The Public Service Commission issued a Route Permit (No. 111) to Keystone on February 21, 2008, a First Amended Route Permit (No. 111) dated May 23, 2008, a Second Amended Route Permit (No. 111) dated May 30, 2008, a Third Amended Route Permit (No. 111) dated June 19, 2008, a Fourth Amended Route Permit (No. 111) dated July 2, 2008, and a Fifth Amended Route Permit (No. 111) dated August 27, 2008.
- c. Construction: Construction in North Dakota commenced in May 2008 and the pump stations were mechanically completed in the First Quarter of 2009. Final completion of the pump stations, which includes items not critical to operate the pipeline system was in the Fourth Quarter of 2010.

The Keystone crude oil pipeline was expanded to a nominal capacity of 591,000 bpd through the addition of pumping capability and was extended to terminal facilities at Oklahoma. That involved the addition of two (2) to three (3) pumping units to each of the existing pump stations in North Dakota as described below:

- Edinburg – Walsh County – 2 Additional Units (total of 5 Pump Units)
- Niagara – Nelson County – 1 Additional Unit (total of 5 Pump Units)
- Luverne – Steele County – 2 Additional Units (total of 4 Pump Units)
- Fort Ransom – Ransom County – 1 Additional Unit (total of 4 Pump Units)
- Ludden – Sargent County – 1 Additional Unit (total of 4 Pump Units)

The Cushing Extension also required three (3) additional new pump stations, which are located in Kansas and Oklahoma.

- d. Initial Commercial Operation: Second Quarter 2010.
- e. Capacity: Keystone initially has the nominal design capacity to deliver 435,000 barrels per day (bpd) with commercial operations commencing in the Second Quarter of 2010. The pipeline was expanded to increase nominal design capacity to 591,000 bpd with construction commenced in May, 2010.
- f. Anticipated Expansion or Additions: The pipeline system in North Dakota is not currently anticipated to be expanded.

Section G Proposed Transmission Facilities on Which Construction is Intended Within the Ensuing Five Years (Electric)

Not Applicable – Keystone does not plan to construct any electric transmission facilities in North Dakota within the ensuing five years.

Section H Proposed Transmission Facilities on Which Construction is Intended Within the Ensuing Five Years (Pipeline)

Not Applicable – Keystone does not currently have any pipeline transmission facilities proposed in North Dakota other than the existing pipeline facility discussed in Section F above.

Section I Proposed Transmission Facilities During the Next Ten-Year Period (Electric and Pipeline)

Not Applicable -- Keystone does not propose to construct any transmission facilities in North Dakota during the next ten-year period, other than those described in Section F above.

Section J Regional Coordination

The proposed pipeline facilities discussed in Section F above are not currently part of a regional plan.

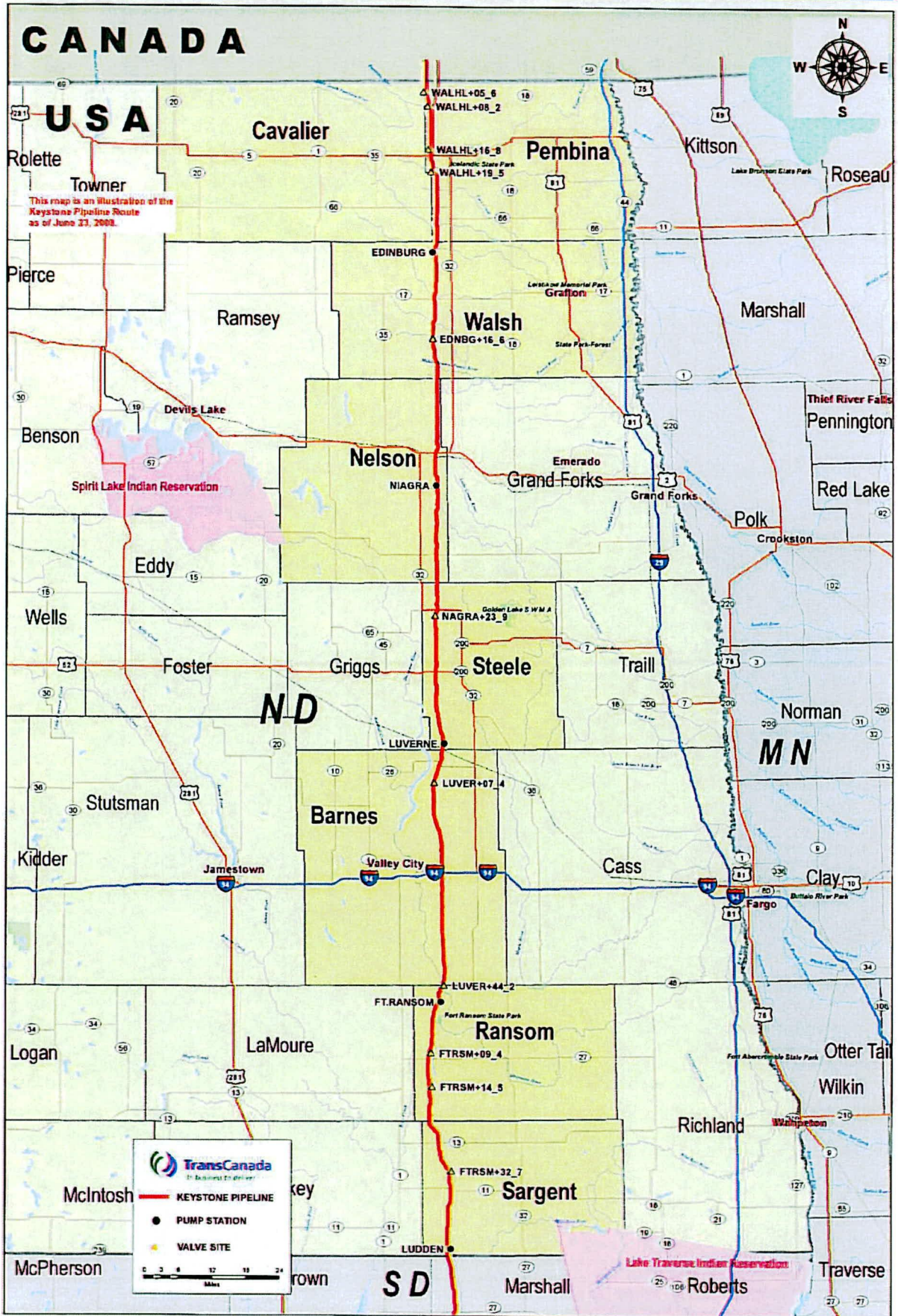
Section K Environmental Information

The proposed pipeline facilities discussed in Section F above were the subject of an Environmental Impact Statement prepared by the United States Department of State, with the assistance of other cooperating agencies, pursuant to the National Environmental Policy Act. In addition, Keystone is applying specific construction, operation, and reclamation methods, and environmental protection measures, as set forth in its updated Construction, Mitigation, and Reclamation Plan, attached as Appendix B hereto, and as required by its PSC Certificate of Corridor Compatibility and Route Permit. Keystone submitted its preliminary Emergency Response Plan (Oil Spill Response Plan) as Appendix C to its 2008 Ten-Year Plan. As required by its PSC Certificate of Corridor Compatibility and Route Permit and applicable federal regulations, Keystone has prepared a final Emergency Response Plan, which has been approved by the Pipeline and Hazardous Materials Safety Administration (PHMSA).

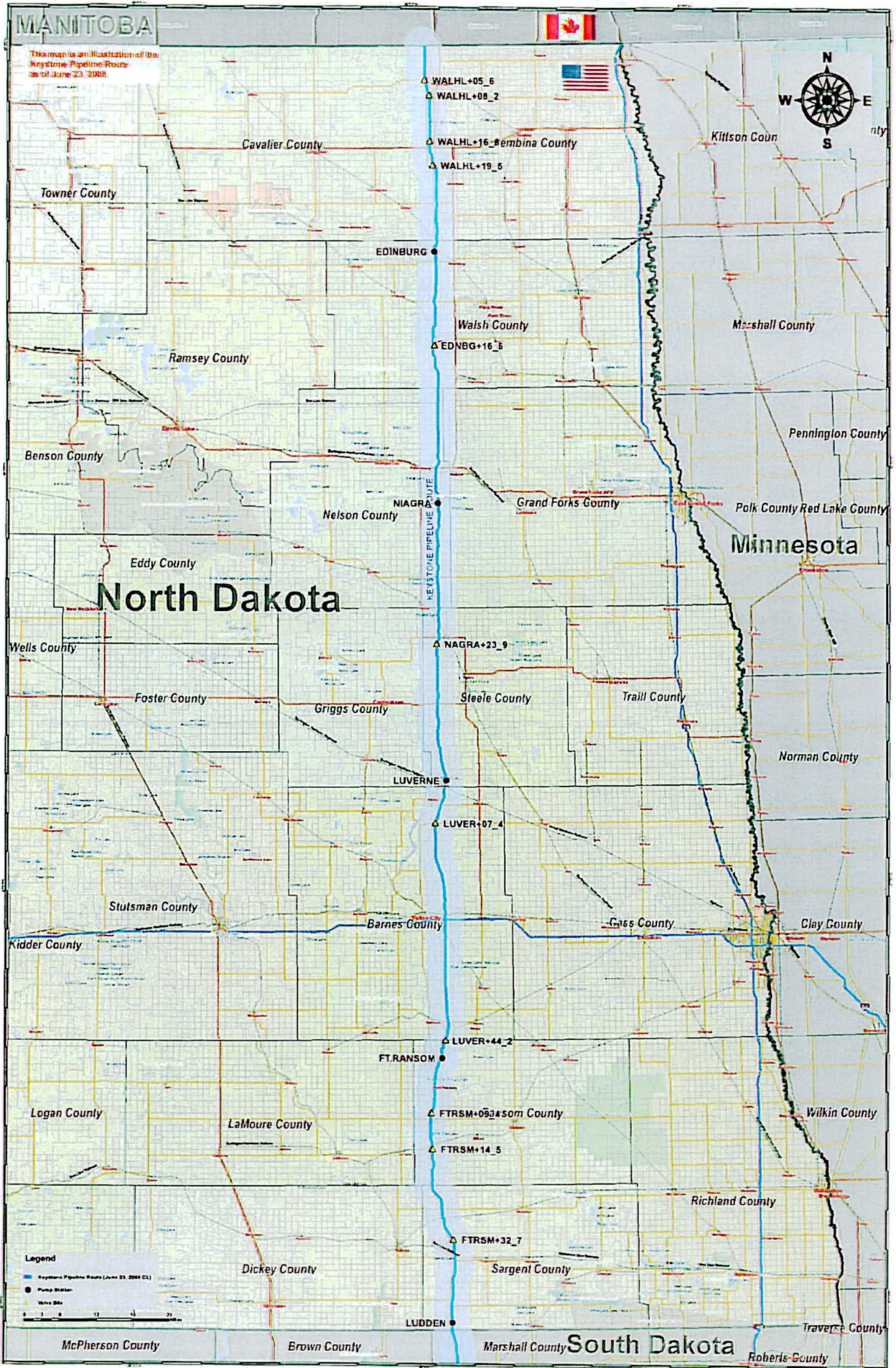
Section L Projected Demand for Service

No deliveries are currently proposed for North Dakota. According to the United States Energy Information Administration (EIA), U.S. demand for petroleum products has increased by over 17 percent or three million bpd over the past 10 years and is expected to increase further. The EIA estimates that total U.S. petroleum consumption will increase by approximately 5.3 million bpd over the next 20 years.

KEYSTONE PIPELINE PROJECT



Larger scale map available with 2008 Ten Year Plan on file



Larger scale map available with 2008 Ten Year Plan on file.



TransCanada
In business to deliver

KEYSTONE PIPELINE PROJECT

CONSTRUCTION MITIGATION AND RECLAMATION PLAN

Prepared By



UNIVERSAL ENSCO, INC.

April 2008
Rev. 4

- 1.0 INTRODUCTION
- 2.0 GENERAL CONDITIONS
 - 2.1 Training
 - 2.2 Advance Notice of Access to Property Prior to Construction
 - 2.3 Other Notifications
 - 2.4 Damages to Private Property
 - 2.5 Appearance of Worksite
 - 2.6 Access
 - 2.7 Above-Ground Facilities
 - 2.8 Minimum Depth of Cover
 - 2.9 Threatened and Endangered Species
 - 2.10 Non-Hazardous Waste Disposal
 - 2.11 Hazardous Wastes
 - 2.12 Noise Control
 - 2.13 Weed Control
 - 2.14 Dust Control
 - 2.15 Off Road Vehicle Control
 - 2.16 Fire Prevention and Control
 - 2.17 Road and Railroad Crossings
 - 2.18 Adverse Weather
 - 2.19 Cultural Resources
- 3.0 SPILL PREVENTION AND CONTAINMENT
 - 3.1 Spill Prevention
 - 3.1.1 Staging Areas
 - 3.1.2 Construction Right-of-Way
 - 3.2 Contingency Plans
 - 3.3 Equipment
 - 3.4 Emergency Notification
 - 3.5 Spill Containment and Countermeasures
- 4.0 UPLANDS (AGRICULTURAL, FOREST, PASTURE, RANGE AND GRASS LANDS)
 - 4.1 Interference with Irrigation Systems
 - 4.2 Clearing
 - 4.3 Topsoil Removal and Storage
 - 4.4 Grading
 - 4.5 Temporary Erosion and Sediment Control
 - 4.5.1 General
 - 4.5.2 Sediment Barriers
 - 4.5.3 Trench Plugs
 - 4.5.4 Temporary Slope Breakers (Water Bars)
 - 4.5.5 Drainage Channels or Ditches
 - 4.5.6 Temporary Mulching
 - 4.5.7 Tackifier
 - 4.6 Stringing

- 4.7 **Trenching**
 - 4.7.1 Trench Dewatering/Well Points
- 4.8 **Welding, Field Joint Coating, and Lower In**
- 4.9 **Padding and Backfilling**
- 4.10 **Clean Up**
- 4.11 **Reclamation and Re-vegetation**
 - 4.11.1 Relieving Compaction
 - 4.11.2 Rock Removal
 - 4.11.3 Soil Additives
 - 4.11.4 Seeding
 - 4.11.5 Permanent Erosion and Sediment Control
 - 4.11.6 Fences
 - 4.11.7 Farm Terraces
 - 4.11.8 Right of way and Pipeline Markers
- 4.12 **Pasture and Range Lands**
- 4.13 **Forested Lands**
- 4.14 **Residential and Commercial/Industrial Areas**
 - 4.14.1 Residential Area
 - 4.14.2 Commercial/Industrial Area
 - 4.14.3 Site – Specific Plans
 - 4.14.4 Landowner Complaints Resolution Procedure
- 4.15 **Operations and Maintenance**

- 5.0 **DRAIN TILE SYSTEMS**
 - 5.1 **General**
 - 5.2 **Identification and Classification of Drain Tile Systems**
 - 5.2.1 Publicly Owned Drain Tiles
 - 5.2.2 Privately Owned Drain Tiles
 - 5.3 **Mitigation of Damage to Drain Tile Systems**
 - 5.3.1 Non-interference with Drain Tile
 - 5.3.2 Non-disturbance of Drain Tile Mains
 - 5.3.3 Relocation or Replacement of Existing Drain Tiles Prior to Construction
 - 5.3.4 Future Drain Tiles/Systems
 - 5.3.5 Other Mitigation Measures
 - 5.4 **Responsibility for Repair of Drain Tile Systems**
 - 5.4.1 Local Drain Tile Contractor Repair
 - 5.4.2 Pipeline Contractor Repair
 - 5.4.3 Landowner/Tenant Repair
 - 5.5 **Drain Tile Repairs**
 - 5.5.1 Temporary Repairs During Construction
 - 5.5.2 Permanent Repairs
 - 5.6 **Inspection/Acceptance of Drain Tile Repairs**

- 6.0 **WETLAND CROSSINGS**
 - 6.1 **General**
 - 6.2 **Easement and Workspace**

- 6.3 Vehicle Access and Equipment Crossing
- 6.4 Temporary Erosion and Sediment Control
- 6.5 Wetland Crossing Procedures
 - 6.5.1 "Dry" Wetland Crossing Method
 - 6.5.2 "Standard" Wetland Crossing Method
 - 6.5.3 Flooded "Push/Pull" Wetland Crossing Method
- 6.6 Restoration and Reclamation
- 6.7 Operations and Maintenance

- 7.0 WATERBODIES AND RIPARIAN LANDS
 - 7.1 General
 - 7.2 Easement and Workspace
 - 7.3 Vehicle Access and Equipment Crossings
 - 7.4 Waterbody Crossing Methods
 - 7.4.1 Non-flowing Open Cut Crossing Method
 - 7.4.2 Flowing Open Cut Crossing Method of Minor, Intermediate and Major Waterbodies
 - 7.4.3 Flowing Open Cut Crossing – Dry Flume Method
 - 7.4.4 Flowing Open Cut Crossing – Dry Dam and Pump Method
 - 7.4.5 Horizontal Directional Drill Crossings
 - 7.4.6 Horizontal Bore Crossings
 - 7.5 Clearing
 - 7.6 Grading
 - 7.7 Temporary Erosion and Sediment Control
 - 7.8 Trenching
 - 7.9 Pipe Installation
 - 7.10 Backfilling
 - 7.11 Stabilization and Restoration of Stream Banks and Slopes

- 8.0 HYDROSTATIC TESTING
 - 8.1 Testing Equipment Location
 - 8.2 Test Water Source and Discharge Locations
 - 8.3 Filling the Pipeline
 - 8.4 Dewatering the Pipeline
 - 8.4.1 Splash Pup
 - 8.4.2 Splash Plate
 - 8.4.3 Plastic Liner
 - 8.4.4 Straw Bale Dewatering Structure

- 9.0 DRAWINGS AND FIGURES
 - Detail 1 Typical Silt Fence Barrier
 - Detail 2 Typical Straw or Hay Bale Barrier
 - Detail 3 Permanent Slope Breakers (Water Bars)
 - Detail 4 Erosion Control Matting Installation
 - Detail 5 Typical Dewatering Filter Bag
 - Detail 6 Typical Straw Bale Dewatering Structure
 - Detail 7 Typical Permanent Trench Breakers

Detail 8	"Dry" Wetland Crossing Method
Detail 9	Standard Wetland Crossing Method
Detail 10	Push/Pull Wetland Crossing Method
Detail 11	Non-Flowing Water Body Crossing Method
Detail 12	Typical Flowing Waterbody Crossing Method
Detail 13	Typical Dry Flume Crossing Method
Detail 14	Typical Dam & Pump Crossing
Detail 15	Typical Horizontal Drill (HDD) Site Plan & Profile
Detail 16	Typical Temporary Bridge Crossing
Detail 17	Typical Flume Bridge Crossing
Detail 18	Typical Railcar Bridge Crossing
Detail 19	Flexible Channel Liner Installation
Detail 20	Typical Rock Rip-Rap
Detail 21	Typical Road Bore Crossing
Detail 22	Streambank Reclamation – Brush Layer In Cross Cut Slope
Detail 23	Streambank Reclamation – Log Wall
Detail 24	Streambank Reclamation – Vegetated Geotextile Installation
Detail 25	Typical ROW Layout/Soil Handling
Detail 26	Header/Main Crossovers of Keystone Pipeline
Detail 27	Relocate/Replace Drainage Header/Main
Detail 28	Temporary Drain Tile Repair
Detail 29	Permanent Repair Method of Drain Tiles
Detail 30	Backfill and Pipe Support for Large Excavations
Detail 31	Typical Foreign Pipeline Crossing
Detail 32	Backfill Requirements for Rock Trench
Detail 33	Typical Foam Breaker
Detail 34	Typical Saddle Bag Weight
Detail 35	Typical 36", 30", & 24" Set-On Concrete Weights
Detail 36	Typical Pipe Stockpile
Detail 37	Typical Foam Support Pillow
Detail 38	Cathodic Protection Test Station
Detail 39	Typical Incised Bank Stabilization Plan
Detail 40	Typical Incised Bank Stabilization Plan
Detail 41	In-Stream Protection for Caged Pump or Suction Hose Inlet
Detail 42	Trench and Backfill Requirements
Detail 43	Concrete Coated Pipe Minor Waterway Crossing
Detail 44	Pipe Transition Specifications
Detail 45	Typical Bored Crossing of Railroad with Casing
Detail 46	Typical Link-Seals and Insulators for Cased Crossing with Vents
Detail 47	Typical Concrete Patio Slab for Open Ditches @ Road Crossings
Detail 50	Equipment Cleaning Station Detail
Detail 51	Equipment Wash Station Detail
Detail 52	Proposed 30" Pipeline Crossing Under Historic Railway

Figure 1 Typical Site Specific Plan



TransCanada Keystone, LP

Keystone Pipeline

Emergency Response Plan

(Oil Spill Response Plan)

24 Hour Emergency No.
1(XXX) XXX-XXXX

Manual No: _____

Assigned to: _____

Full document available with 2008 Ten Year plan on file. An updated final document has been prepared and approved by PHMSA.

OIL SPILL RESPONSE PLAN DESCRIPTION

The Oil Spill Response Plan as prescribed under 49CFR§194 is divided into the following two parts, which function as an integrated document:

Core Plan (Sections 1 through 8)

The Core Plan (Sections 1 through 8) contains general information outlining Company oil spill response procedures.

Response Zone Appendices (Sections 9 through 11)

The response zone appendices contain the individual Oil Spill Response Plans for each zone which are to be followed in the event of an oil spill.

Prior to completing the Response Zone Appendices, Keystone will also review the National Contingency Plan (NCP) and each applicable Regional Integrated Contingency Plan (RICP), to ensure the Keystone Oil Spill Response Plan is consistent with the applicable Environmental Protection Agency RICP and the NCP.

LIST OF ACRONYMS

API	American Petroleum Institute
CE	Cushing Extension
EOC	Emergency Operations Center
EMS	Emergency Management System
EPA	Environmental Protection Agency
ESM	Emergency Site Manager
FOSC	Federal On Scene Coordinator
GPS	Global Positioning System
HAZWOPER	Hazardous Waste Operations and Emergency Response Standard
ICS	Incident Command System
MP	Mile Post
NCP	National Contingency Plan
NFPA	National Fire Protection Association
OCC	Operations Control Center
OSRO	Oil Spill Response Organization
PHMSA	Pipeline and Hazardous Material Safety Administration
PREP	National Preparedness for Response Exercise Program
QI	Qualified Individual
RICP	Regional Integrated Contingency Plan
SCADA	Supervisory Control and Data Acquisition

TABLE OF CONTENTS

1.0 CORE PLAN INFORMATION SUMMARY	1
1.1 Operator Information	1
1.1.1 Pipeline System Description	1
1.2 MSDS Information	3
1.3 Response Zone Summaries	3
1.3.1 Response Zone One – North Dakota, South Dakota, Nebraska (part).....	3
1.3.2 Response Zone Two – Nebraska (part), Kansas, Oklahoma.....	4
1.3.3 Response Zone Three – Nebraska (part), Kansas, Missouri, Illinois.....	4
1.4 Certification.....	5
2.0 NOTIFICATION PROCEDURES.....	6
2.1 Notification Requirements.....	6
2.2 Prioritized Notification Checklist for Key Individuals	7
2.2.1 First Responder.....	7
2.2.2 Regional EOC Manager (QI)	7
2.2.3 Emergency Site Manager (QI).....	7
2.3 Notification Contacts	8
2.3.1 Keystone.....	8
2.3.2 Agency.....	8
2.3.3 Emergency Services	9
2.4 Procedures for Notifying Qualified Individuals.....	9
2.5 Information Reported to Agencies	10
3.0 SPILL DETECTION AND ON-SCENE SPILL MITIGATION PROCEDURES.....	11
3.1 Methods of Initial Discharge Detection	11
3.2 On Scene Spill Mitigation and Recovery Procedures	12
3.2.1 Spills on Water	12

3.2.2	Spills on Land	13
3.2.3	Spills in Sensitive Areas	13
3.3	Equipment for Response Activities	13
3.4	Personnel for Response Activities	13
3.5	Oil Transportation and Reclamation Facilities and Services	14
4.0	RESPONSE ACTIVITIES	14
4.1	Oil Spill Initial Response	14
4.2	Oil Spill Response Organization, Responsibilities, Roles and Authority	14
4.2.1	First Responder	15
4.2.2	Regional EOC Manager (QI)	16
4.2.3	Regional EOC Roles	16
	Regional EOC Communications	16
	Regional EOC Security	17
	Regional EOC Resource Mobilization	17
	Regional EOC Environmental / Technical	18
	Regional EOC Media Contact	18
	Regional EOC Documentation	18
	Regional EOC Community Evacuation Leader	19
	Regional EOC Administrative Support	19
4.2.4	Emergency Site Manager (QI)	19
4.2.5	Command Post	20
	Site Security	20
	Resource Mobilization	21
	Staging Leader	21
	Environmental / Technical	21
	Safety	22
	Media Contact	22

Documentation	22
Community Evacuation Coordinator	23
4.3 Federal On-Scene Coordinator Coordination Process	24
5.0 LIST OF CONTACTS	25
5.1 Qualified Individuals for Each Response Zone	25
5.2 Agency Contacts	25
5.3 Corporate Financial Contact for each Response Zone	26
5.4 Oil Spill Response Organizations and Contractors, Services and Resources	26
5.5 Oil Transportation and Reclamation Facilities and Services	26
6.0 TRAINING PROCEDURES	27
6.1 On Site Personnel	27
6.2 Regional EOC	28
6.3 Training Records	29
7.0 EXERCISE PROCEDURES	30
7.1 Debriefing and Documentation	32
8.0 RESPONSE PLAN REVIEW AND UPDATE PROCEDURES	33
9.0 RESPONSE ZONE ONE APPENDIX	34
9.1 Information Summary	34
9.2 Qualified Individuals	35
9.3 Determination of Harm	35
9.4 Notification Procedures	35
9.4.1 Prioritized Notification Checklist for Key Individuals	36
First Responder	36
Regional EOC Manager (QI)	36
Emergency Site Manager (QI)	36
9.4.2 Notification Contacts	37
Keystone	37

Agency	37
Emergency Services.....	38
9.4.3 Information Reported to Agencies	39
9.5 Spill Detection and Mitigation Procedures.....	40
9.6 Oil Spill Response Organizations and Contractors, Services and Resources.....	40
9.7 Oil Transportation and Reclamation Facilities and Services	40
9.8 Type of Oil, Volume and Calculation Method for Worst Case Discharge Volume.....	41
9.9 Maps and Drawings.....	41
9.9.1 Location of Worst Case Discharge	41
9.9.2 Location of Potentially affected Public Drinking Water Intakes	41
9.9.3 Potentially affected environmentally sensitive areas	41
9.9.4 Control Points and access descriptions	41
9.10 Piping Diagram and Plan Profile	41
10.0 RESPONSE ZONE TWO APPENDIX	42
10.1 Information Summary.....	42
10.2 Qualified Individuals	43
10.3 Determination of Harm	43
10.4 Notification Procedures	43
10.4.1 Prioritized Notification Checklist for Key Individuals	44
First Responder	44
Regional EOC Manager (QI).....	44
Emergency Site Manager (QI).....	44
10.4.2 Notification Contacts	45
Keystone	45
Agency	45
Emergency Services.....	46
10.4.3 Information Reported to Agencies	47

10.5	Spill Detection and Mitigation Procedures.....	48
10.6	Oil Spill Response Organizations and Contractors, Services and Resources.....	48
10.7	Oil Transportation and Reclamation Facilities and Services	48
10.8	Type of Oil, Volume and Calculation Method for Worst Case Discharge Volume.....	49
10.9	Maps and Drawings.....	49
10.9.1	Location of Worst Case Discharge.....	49
10.9.2	Location of Potentially affected Public Drinking Water Intakes	49
10.9.3	Potentially affected environmentally sensitive areas	49
10.9.4	Control Points and access descriptions	49
10.10	Piping Diagram and Plan Profile	49
11.0	RESPONSE ZONE THREE APPENDIX.....	50
11.1	Information Summary.....	50
11.2	Qualified Individuals	51
11.3	Determination of Harm.....	51
11.4	Notification Procedures	51
11.4.1	Prioritized Notification Checklist for Key Individuals	52
	First Responder	52
	Regional EOC Manager (QI).....	52
	Emergency Site Manager (QI)	52
11.4.2	Notification Contacts	53
	Keystone.....	53
	Agency	53
	Emergency Services.....	54
	Information Reported to Agencies	55
11.5	Spill Detection and Mitigation Procedures.....	56
11.6	Oil Spill Response Organizations and Contractors, Services and Resources.....	56
11.7	Oil Transportation and Reclamation Facilities and Services	56

11.8 Type of Oil, Volume and Calculation Method for Worst Case Discharge Volume 57

11.9 Maps and Drawings..... 57

 11.9.1 Location of Worst Case Discharge 57

 11.9.2 Location of Potentially affected Public Drinking Water Intakes 57

 11.9.3 Potentially affected environmentally sensitive areas 57

 11.9.4 Control Points and access descriptions 57

11.10 Piping Diagram and Plan Profile 57

LIST OF FIGURES

Figure 1: Keystone Pipeline System and Oil Spill Response Zones.....	1
Figure 2: Basic Oil Spill Response Initial Notification Process	6
Figure 3: Keystone Oil Spill Response Team Organization Chart	15
Figure 4: Basic Unified Command Structure	24

LIST OF TABLES

Table 1: Preliminary High Consequence Areas – Zone One.....	3
Table 2: Preliminary High Consequence Areas – Zone Two.....	4
Table 3: Preliminary High Consequence Areas – Zone Three.....	5
Table 4: Keystone Notification	8
Table 5: Agency Notification	8
Table 6: Emergency Services Notification.....	9
Table 7: Contact Information for Qualified Individuals	25
Table 8: Agency Contacts	25
Table 9: Corporate Financial (Insurance).....	26
Table 10: OSRO Contacts	26
Table 11: Oil Transportation and Reclamation Facilities	26
Table 12: Training Requirements – On Site Personnel	27
Table 13: Training Requirements – Regional EOC	28
Table 14: Exercise Program Type and Frequency	30
Table 15: Response Zone One Keystone Notification.....	37
Table 16: Response Zone One Agency Notification.....	37
Table 17: Response Zone One Emergency Services Notification	38
Table 18: Response Zone One OSRO Contacts.....	40
Table 19: Response Zone One Oil Transportation and Reclamation Facilities.....	40
Table 20: Response Zone Two Keystone Notification.....	45
Table 21: Response Zone Two Agency Notification.....	45
Table 22: Response Zone Two Emergency Services Notification	46
Table 23: Response Zone Two OSRO Contacts.....	48
Table 24: Response Zone Two Oil Transportation and Reclamation Facilities.....	48
Table 25: Response Zone Three Keystone Notification.....	53

Table 26: Response Zone Three Agency Notification 53
Table 27: Response Zone Three Emergency Services Notification..... 54
Table 28: Response Zone Three OSRO Contacts 56
Table 29: Response Zone Three Oil Transportation and Reclamation Facilities 56

1.0 CORE PLAN INFORMATION SUMMARY

The TransCanada Keystone, LP (hereafter referred to as Keystone) Core Plan (Sections 1 through 8) provides the base information utilized to develop the specific Oil Spill Response Plans. These Oil Spill Response Plans are to be followed in the event of a spill and are found in each Response Zone Appendix.

1.1 Operator Information

TransCanada Keystone, LP
450 – 1st Street S.W.
Calgary, Alberta, Canada T2P 5H1

1.1.1 Pipeline System Description

This document provides a preliminary Oil Spill Response Plan and outlines Keystone's processes and procedures established to comply with 49CFR§194. This plan will be updated upon completion of the detailed design of this project.

This Oil Spill Response Plan is intended to cover the U.S. segment of the pipeline system operated by Keystone. Three preliminary Response Zones have been established considering mileage and distribution of high consequence areas. Figure 1 provides a pipeline system map and illustrates the specific Response Zones.

Figure 1: Keystone Pipeline System and Oil Spill Response Zones.



The U.S. portion of the Keystone Pipeline consists of approximately 1,309 miles of 30-inch-diameter pipeline and 55 miles of 24-inch-diameter pipeline (located from Wood River to Patoka, Illinois). Crude oil receipts will initiate from an oil supply hub near Hardisty, Alberta, Canada for movement to delivery sites in Cushing, Oklahoma, as well as Wood River and Patoka, Illinois. For the purposes of developing this Oil Spill Response Plan and associated worst case discharge calculations, the maximum design capacity of 657,000 bpd will be utilized.

Primarily, crude oil transported by Keystone Pipeline will be derived from the Alberta oil sands region. The oil extracted from the sands is called bitumen. The bitumen is upgraded either through additional processing or by combining the bitumen with diluents. The upgraded product is then classified as synthetic crude oil. While the precise composition of synthetic crude will vary by shipper, and is considered proprietary information, Keystone expects to transport crude oils in the range of 12 to 45° API (American Petroleum Institute).

The Keystone Pipeline is controlled from the Operations Control Center (OCC), located in Calgary, Alberta, Canada. The OCC is staffed 24 hours per day 7 days a week, and utilizes a computer based Supervisory Control and Data Acquisition (SCADA) System to continuously monitor and control pipeline operations.

Keystone's 24 hour emergency contact phone number is 1 (XXX) XXX-XXXX and is posted on all pipeline marker posts and facility signs.