

**MP 608 – Marshall, Michigan Incident
NTSB/PHMSA Information Request No.33**

33.1 Reference: Field Request

Preamble:

Request: Provide the service history for the past 24 months.

Response: BC2010PLM1-11.pdf; BC2010PLM12-25.pdf;
BC2010PLM26-40.pdf; BC2010PLM41-55.pdf;
BC2010PLM56-67.pdf; BC2010PLM68-75.pdf; GT2008PLM.pdf

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-056
Report Date: 06/19/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 05/25/2010	Date Repaired 06/06/2010	Report Date 06/19/2010
Pipe Line Location - Pump Station or Milepost 710.61	Line No. 6B	Line Size 30	Special Cost Number 1091204123
Specific Location - Location from a known stationing on a Route Sheet 12937+63 - Location is 1238' D/S of C/L of Delano Road.			Route Sheet Number C-424
Quarter	Section 13	Township 5N	Range 10E
Tract No. M-820-2			
Meridian/County 41	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
GPS Reading N. W. E.			
Property Owner's Name and Address Handleman Philip & Mary Philip & Mary Handleman 456 Warren Court 456 Warren Court (248) 642-5689		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor rutting from Vehicles and Equipment. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 4' of Sleeve was installed on the Mainline.	
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Wilson Todd(R) Matula Bob(L) WPS UF-49 Uphand Fillet Weld - Wilson Todd(R) Matula Bob(L) WPS UF-60 Uphand Fillet Weld - Wilson Todd(R) Matula Bob(L)	
Welding Inspector Name	

Pfinde
NDE Personnel Gerald Barras; Larry Kennedy; Chad Nelson

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 44'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.284	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Justin Anderson	Date Entered on System Drawings By Tech. Services 06/19/2010
--	---

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-056 Report Date: 06/19/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 710.61	Tract No. M-820-2	Stationing 12937+63
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 7	Log Footage 1293738.49	Reported Grade Depth or RPR .95
Corrosion Type External	Max Depth .88	Anomaly Size 15.5	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments
See NDE Report

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of recoat is 12937+58.
New Coating is : Densotherm
Coating Length is : 44'

Pipe to Soil Potential : -1.284
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Nelson, Barras, Kennedy
Date Inspected: 06/08/2010

Part C - Signatures

Pipe Line Foreman Justin Anderson	Date 06/19/2010
--------------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-057

Report Date: 06/23/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 06/23/2010	Date Repaired 06/06/2010	Report Date 06/23/2010
------------------------------	-------------------------------	-----------------------------	---------------------------

Pipe Line Location - Pump Station or Milepost 710.66	Line No. 6B	Line Size 30	Special Cost Number 1091204123
---	----------------	-----------------	-----------------------------------

Specific Location - Location from a known stationing on a Route Sheet 12940+25 - Location is 1500' D/S of C/L of Delano Road.	Route Sheet Number C-424
Note: the Recoat for this location is on Report #051	

Quarter	Section 13	Township 5N	Range 10E	Tract No. M-820-2
Meridian/County 41	Province/State MI	Lat & Long Location Lat. Long.	GPS Location	GPS Reading N. W. E.

Property Owner's Name and Address Handleman Philip & Mary Philip & Mary Handleman 456 Warren Court 456 Warren Court (248) 642-5689	Property Tenant's Name and Address
---	------------------------------------

Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary)
Damage Accessing: Minor rutting from Vehicles and Equipment.
Damage to Work Area: General Ground Disturbance

Leak

Describe Specific Nature and Cause of Break or Leak
Repair not due to a leak.

Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
---------------------------	-------------------------	-------------------------	------------

Batch Number

Disposition of Lost Oil

Name and Address of Person Reporting Leak	Was a Report Fee Paid? No
---	------------------------------

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation)
47' of tight fitting with over sleeve was installed to mainline.

Welding Procedure or Procedures with Welder Name(s)
WPS LB-32 Longitudinal Butt Weld - Kennedy Mike(R)
Losiniecki David A(R)
Wilson Todd(R)
Julian Dave(L)
Matula Bob(L)

Morang Daniel R(L) WPS UF-49 Uphand Fillet Weld - Losiniecki David A(R) Wilson Todd(R) Matula Bob(L) Morang Daniel R(L) WPS UF-60 Uphand Fillet Weld - Losiniecki David A(R) Wilson Todd(R) Matula Bob(L) Morang Daniel R(L)
Welding Inspector Name Pfinde
NDE Personnel Gerald Barras; Larry Kennedy; Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 80 ft.
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.322	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Justin Anderson		Date Entered on System Drawings By Tech. Services 06/23/2010	

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-057 Report Date: 06/23/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 710.66	Tract No. M-820-2	Stationing 12940+25
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 5	Log Footage 1294012.61	Reported Grade Depth or RPR 1.07
Corrosion Type External	Max Depth .115	Anomaly Size 4.1	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments
See NDE Report

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of recoat is 12940+10 (see report #051).
New Coating is : Densotherm Coating Length is : 80 ft.

Pipe to Soil Potential : -1.322
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Rogstad, Siltala Date Inspected: 06/09/2010

Part C - Signatures

Pipe Line Foreman Justin Anderson	Date 06/23/2010
--------------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-059

Report Date: 06/19/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 06/18/2010	Date Repaired 06/22/2010	Report Date 06/19/2010
------------------------------	-------------------------------	-----------------------------	---------------------------

Pipe Line Location - Pump Station or Milepost 666.58	Line No. 6B	Line Size 30	Special Cost Number AFE0891204109MIC00 6
---	----------------	-----------------	--

Specific Location - Location from a known stationing on a Route Sheet 10612+77 - Location was 2576 ft u/s of the c/l of Tooley Rd	Route Sheet Number C-415
--	-----------------------------

Quarter	Section 21	Township 3N	Range 4E	Tract No. M-781-4
Meridian/County 40	Province/State MI	Lat & Long Location Lat. Long.	GPS Location	GPS Reading N. W. E.

Property Owner's Name and Address Livingston County Airport Livingston County Airport Attn: Mark Johnson Attn: Mark Johnson 200 East Grand River (517) 546-6675	Property Tenant's Name and Address
---	------------------------------------

Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage to Work Area: Damage was to the removal of the fenceline and ground disturbance
--

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.
--

Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
---------------------------	-------------------------	-------------------------	------------

Batch Number

Disposition of Lost Oil

Name and Address of Person Reporting Leak	Was a Report Fee Paid? No
---	------------------------------

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 3 tight fit and 2 oversleeves were installed. Total 17.42 ft
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Charpentier Cody(R) Fleming Ronald W(R) Christensen Ben(L) Jeske Michael F(L) WPS UF-60 Uphand Fillet Weld - Charpentier Cody(R)

Fleming Ronald W(R) Christensen Ben(L) Jeske Michael F(L) WPS UF-49 Uphand Fillet Weld - Charpentier Cody(R) Fleming Ronald W(R) Christensen Ben(L) Jeske Michael F(L)
Welding Inspector Name Pfinde
NDE Personnel Doug Gronewold; Leeland Creecy

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 51.6 ft
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) -1.20	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 06/19/2010	

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-059 Report Date: 06/19/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 666.58	Tract No. M-781-4	Stationing 10612+77
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Peat & Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. N/A	Log Footage 1061236.40	Reported Grade Depth or RPR ..92 RPR
Corrosion Type External	Max Depth .150	Anomaly Size 25.9 in	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments
Extensive corrosion found along the pipe body, too numerous.
Sleeve required. See NDE report

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : Centerline of the recoat was 10612+62
New Coating is : Densotherm Coating Length is : 51.6 ft

Pipe to Soil Potential : -1.20
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Creecy/Gronewold Date Inspected: 06/18/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 06/19/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-060 Report Date: 06/25/2010 Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/06/2010	Date Repaired 06/08/2010	Report Date 06/25/2010
------------------------------	-------------------------------	-----------------------------	---------------------------

Pipe Line Location - Pump Station or Milepost 667.15	Line No. 6B	Line Size 30	Special Cost Number AFE0891204109MIC00 6
---	----------------	-----------------	--

Specific Location - Location from a known stationing on a Route Sheet 10643+06 - Location was 453 ft d/s of the c/l of Tooley Rd	Route Sheet Number C-415
---	-----------------------------

Quarter	Section 22	Township 3N	Range 4E	Tract No. M-782-1E
Meridian/County 40	Province/State MI	Lat & Long Location Lat. Long.	GPS Location	GPS Reading N. W. E.

Property Owner's Name and Address Rowse Rodney Lee Rodney Lee Rowse 2230 Armond Rd 2230 Armond Rd	Property Tenant's Name and Address
---	------------------------------------

Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary)

Damage to Work Area: Damage was to the disturbance of the soils and some grass

Leak

Describe Specific Nature and Cause of Break or Leak
Repair not due to a leak.

Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
---------------------------	-------------------------	-------------------------	------------

Batch Number

Disposition of Lost Oil

Name and Address of Person Reporting Leak	Was a Report Fee Paid? No
---	------------------------------

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation)
Pipe was blasted and recoated

Welding Procedure or Procedures with Welder Name(s)

Welding Inspector Name

NDE Personnel
Doug Gronewold; Joshua Rogstad; Rory Siltala; Heidi Warnke

General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating
---------------------------	--------------------------	-----------------------------------

(See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Polyken Tape	Densotherm - 40.8 ft
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) -1.25	Type of Sleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 06/25/2010
--	---

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-060 Report Date: 06/25/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 667.15	Tract No. M-782-1E	Stationing 10643+06
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Peat & Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. N/A	Log Footage 1067589.73	Reported Grade Depth or RPR 1.10 RPR
Corrosion Type External	Max Depth .117	Anomaly Size 3.4 in	

Part B - Inspection Results

Condition of Outside of Pipe
Minor Corrosion. No repair sleeve or pipe replacement required.
 Comments
 Numerous external corrosion found. All corrosion was within acceptable limits. See NDE report

Existing Coating is : Polyken Tape
 Condition of Coating : Pipe was recoated
 Comments : C/I of the recoat was 10643+06
 New Coating is : Densotherm Coating Length is : 40.8 ft

Pipe to Soil Potential : -1.25
 Comments :

Condition of Inside of Pipe : Steel not exposed
 Comments :

Inspected By : Rogstad/Sitala,Gronewold,Warnke Date Inspected: 03/07/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 06/25/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-061

Report Date: 07/16/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 11/20/2009	Date Repaired 01/25/2010	Report Date 07/16/2010
Pipe Line Location - Pump Station or Milepost 666.10	Line No. 6B	Line Size 30	Special Cost Number AFE0891204109MIC00 6
Specific Location - Location from a known stationing on a Route Sheet 10587+28 - Location was 545 ft D/S of the C/L of Burkhardt Rd			Route Sheet Number C-415
Quarter	Section 21	Township 3N	Range 4E
Meridian/County 40	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-781-3 GPS Reading N. W. E.
Property Owner's Name and Address Livingston County Airport Livingston County Airport Attn: Mark Johnson Attn: Mark Johnson 200 East Grand River (517) 546-6675		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage to Work Area: Damage was to the ground cover			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 14 tight fit and 14 oversleeves were installed. Total sleeve length was 110.32 ft
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Jeske Michael F(R) Kennedy Mike(R) Losiniecki David A(R) Matula Bob(R) Wilson Todd(R)

Fleming Ronald W(L)
 Julian Dave(L)
 Matula Bob(L)
 Mccamey Michael D(L)
 WPS UF-60 Uphand Fillet Weld - Fitch Eric(R)
 Jeske Michael F(R)
 Kennedy Mike(R)
 Losiniecki David A(R)
 Mccamey Michael D(R)
 Wilson Todd(R)
 Fleming Ronald W(L)
 Julian Dave(L)
 Matula Bob(L)
 Mccamey Michael D(L)
 Vigorin Ralph(L)
 WPS UF-49 Uphand Fillet Weld - Jeske Michael F(R)
 Losiniecki David A(R)
 Fleming Ronald W(L)
 Mccamey Michael D(L)

Welding Inspector Name
 Pfinde

NDE Personnel
 Leeland Creecy; Doug Gronewold; Larry Kennedy; Joshua Rettig; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 116 ft
Condition of Trench (dry, wet, etc.) frozen	Cathodic Protection Potential (See Corrosion Inspection Report) -1.22	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 07/16/2010		

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-061 Report Date: 07/16/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 666.10	Tract No. M-781-3	Stationing 10587+28
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Peat & Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. N/A	Log Footage 1058672.47	Reported Grade Depth or RPR .95 RPR
Corrosion Type External	Max Depth .130	Anomaly Size 11.5 in	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
 Comments
 Extensive corrosion found, sleeve required on 3 joints due to finding a suitable sleeve end landing. See NDE report

Existing Coating is : Polyken Tape
 Condition of Coating : Pipe was recoated
 Comments : Centerline of the recoat was 10587+30
 New Coating is : Densotherm Coating Length is : 116 ft

Pipe to Soil Potential : -1.22
 Comments :

Condition of Inside of Pipe : Steel not exposed
 Comments :

Inspected By : Sitala, Rettig/Kennedy, Creecy/Gronewold Date Inspected: 11/23/2009

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 07/16/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-062

Report Date: 06/19/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 06/23/2010	Date Repaired 06/09/2010	Report Date 06/19/2010
------------------------------	-------------------------------	-----------------------------	---------------------------

Pipe Line Location - Pump Station or Milepost 710.66	Line No. 6B	Line Size 30	Special Cost Number 1091204123
---	----------------	-----------------	-----------------------------------

Specific Location - Location from a known stationing on a Route Sheet 12940+10 - Recoat, Location is 1485' D/S of C/L of Delano Road.	Route Sheet Number C-424
Note: the sleeve installed at this location is covered in Report #053.	

Quarter	Section 13	Township 5N	Range 10E	Tract No. M-820-2
Meridian/County 41	Province/State MI	Lat & Long Location Lat. Long.	GPS Location	GPS Reading N. W. E.

Property Owner's Name and Address Handleman Philip & Mary Philip & Mary Handleman 456 Warren Court 456 Warren Court (248) 642-5689	Property Tenant's Name and Address
---	------------------------------------

Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor rutting from Vehicles and Equipment. Damage to Work Area: General Ground Disturbance.
--

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.
--

Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			

Disposition of Lost Oil

Name and Address of Person Reporting Leak	Was a Report Fee Paid? No
---	------------------------------

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Recoat Only on this report (Sleeve was installed on downstream joint, near GW363340 on report #053)
Welding Procedure or Procedures with Welder Name(s)
Welding Inspector Name
NDE Personnel

Gerald Barras; Larry Kennedy; Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 80 ft.
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.322	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Justin Anderson	Date Entered on System Drawings By Tech. Services 06/19/2010		

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-062 Report Date: 06/19/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 710.66	Tract No. M-820-2	Stationing 12940+10
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Soil	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 1	Log Footage 1293972.23	Reported Grade Depth or RPR 1.09
Corrosion Type External	Max Depth .87	Anomaly Size 3.5	

Part B - Inspection Results

Condition of Outside of Pipe
 Minor Corrosion. No repair sleeve or pipe replacement required.
 Comments
 See NDE Report.

Existing Coating is : Polyken Tape
 Condition of Coating : Pipe was recoated
 Comments : C/L of 80 ft.Recoat is 12940+10
 New Coating is : Densotherm Coating Length is : 80 ft.

Pipe to Soil Potential : -1.322
 Comments :

Condition of Inside of Pipe : Steel not exposed
 Comments :

Inspected By : Rogstad, Siltala Date Inspected: 06/10/2010

Part C - Signatures

Pipe Line Foreman Justin Anderson	Date 06/19/2010
--------------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-063

Report Date: 04/26/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/09/2010	Date Repaired 03/17/2010	Report Date 04/26/2010
------------------------------	-------------------------------	-----------------------------	---------------------------

Pipe Line Location - Pump Station or Milepost 588.15	Line No. 6B	Line Size 30	Special Cost Number 0891204109; MIC006
---	----------------	-----------------	---

Specific Location - Location from a known stationing on a Route Sheet 6472+06 - 2675' D/S of the centerline of 44th street	Route Sheet Number C-400
---	-----------------------------

Quarter	Section 14	Township 4S	Range 9W	Tract No. M-711-2
---------	---------------	----------------	-------------	----------------------

Meridian/County 36	Province/State MI	Lat & Long Location Lat. Long.	GPS Location	GPS Reading N. W. E.
-----------------------	----------------------	--------------------------------------	--------------	-------------------------------

Property Owner's Name and Address Fry David & Lori David & Lori Fry 12084 South 44Th Street 12084 South 44Th Street (269) 746-4965	Property Tenant's Name and Address
---	------------------------------------

Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary)
Damage Accessing: the drive was accross a plowed corn field
Damage to Work Area: work done in corn field, plowed fields

Leak

Describe Specific Nature and Cause of Break or Leak
Repair not due to a leak.

Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
---------------------------	-------------------------	-------------------------	------------

Batch Number

Disposition of Lost Oil

Name and Address of Person Reporting Leak	Was a Report Fee Paid? No
---	------------------------------

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation)
3 tight fit sleeves and 2 oversleeves for a total of 24'7" from U/S end of sleeve to D/S end

Welding Procedure or Procedures with Welder Name(s)
WPS LB-32 Longitudinal Butt Weld - Fleming Ronald W(R)
Losiniecki David A(L)
WPS UF-60 Uphand Fillet Weld - Fleming Ronald W(R)
Losiniecki David A(L)
WPS LB-32 Longitudinal Butt Weld - (R)
(L)
WPS UF-60 Uphand Fillet Weld - (R)

(L) WPS UF-49 Uphand Fillet Weld - Fleming Ronald W(R) Losiniecki David A(L) WPS UF-49 Uphand Fillet Weld - (R) (L)
Welding Inspector Name PFinde
NDE Personnel Douglas Sierra; Heidi Warnke

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 61'
Condition of Trench (dry, wet, etc.) Flat, dry clay bottom	Cathodic Protection Potential (See Corrosion Inspection Report) -1.60	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Jonathan Young	Date Entered on System Drawings By Tech. Services 04/26/2010		

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-063 Report Date: 04/26/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 588.15	Tract No. M-711-2	Stationing 6472+06
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 647157.44	Reported Grade Depth or RPR 51%
Corrosion Type External	Max Depth .128	Anomaly Size 8.9in	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments
extensive corrosion found, sleeve required, see NDE report

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : centerline of coating is 6471+88
New Coating is : Densotherm Coating Length is : 61'

Pipe to Soil Potential : -1.60
Comments : Taken as soon as pipe was exposed

Condition of Inside of Pipe : Steel not exposed
Comments : not exposed

Inspected By : Douglas Sierra, Heidi Warnke Date Inspected: 04/13/2010

Part C - Signatures

Pipe Line Foreman Jonathan Young	Date 04/26/2010
-------------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-064
Report Date: 04/26/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/28/2010	Date Repaired 04/09/2010	Report Date 04/26/2010
Pipe Line Location - Pump Station or Milepost 655.48	Line No. 6B	Line Size 30	Special Cost Number 0891204109; MIC006
Specific Location - Location from a known stationing on a Route Sheet 10026+80 - Location is 62 ft U/S of C/L of Brogan Road (10027+42)			Route Sheet Number C-413
Quarter	Section 23	Township 2N	Range 2E
Meridian/County 39	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-771-5
Property Owner's Name and Address Mid-Michigan Properties Ltd Mid-Michigan Properties Ltd 3493 Woods Edge 3493 Woods Edge Ste 150		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: No damage Damage to Work Area: Work done in a corn stubble field. Damage was to disturbance of soils			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 8 Tight fitting sleeves and 7 oversleeves were installed, Total length of 64.17' from start of U/S end of sleeve to D/S end
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Payae Juan(R) (L) WPS UF-49 Uphand Fillet Weld - Payae Juan(R) (L) WPS UF-60 Uphand Fillet Weld - Payae Juan(R)

(L) WPS LB-32 Longitudinal Butt Weld - Losiniecki David A(R) Morang Daniel R(L) WPS UF-60 Uphand Fillet Weld - Losiniecki David A(R) Morang Daniel R(L) WPS LB-32 Longitudinal Butt Weld - (R) Fleming Ronald W(L)
Welding Inspector Name PFinde
NDE Personnel Doug Gronewold; Larry Kennedy; Heidi Warnke

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 84.5'
Condition of Trench (dry, wet, etc.) flat, dry bottom	Cathodic Protection Potential (See Corrosion Inspection Report) -1.60	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Jonathan Young	Date Entered on System Drawings By Tech. Services 04/26/2010		

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-064 Report Date: 04/26/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 655.48	Tract No. M-771-5	Stationing 10026+80
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1002632.89	Reported Grade Depth or RPR 67%
Corrosion Type External	Max Depth .170	Anomaly Size 3.1 in	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments

extensive corrosion found, sleeve required, see NDE report

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : Centerline of Coating is 10026+74

New Coating is : Densotherm

Coating Length is : 84.5'

Pipe to Soil Potential : -1.60

Comments : Reading taken as soon as pipe was exposed

Condition of Inside of Pipe : Steel not exposed

Comments : Not exposed

Inspected By : Doug Gronewald, Heidi Warnke, Larry Kennedy

Date Inspected: 04/07/2010

Part C - Signatures

Pipe Line Foreman
Jonathan Young

Date
04/26/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-065

Report Date: 06/04/2010

Report Type: Test Lead Installation

Location

Reporting Office Bay City	Date Discovered 05/25/2010	Date Repaired 05/25/2010	Report Date 06/04/2010
------------------------------	-------------------------------	-----------------------------	---------------------------

Pipe Line Location - Pump Station or Milepost 1630.65	Line No. 5	Line Size 30	Special Cost Number 91153SC10113
--	---------------	-----------------	-------------------------------------

Specific Location - Location from a known stationing on a Route Sheet 28118+46 - 72 ft US of Parrish Rd (28119+18)	Route Sheet Number 323
---	---------------------------

Quarter	Section 09	Township 15N	Range 4E	Tract No. M6-122
---------	---------------	-----------------	-------------	---------------------

Meridian/County 28	Province/State MI	Lat & Long Location Lat. Long.	GPS Location	GPS Reading N. W. E.
-----------------------	----------------------	--------------------------------------	--------------	-------------------------------

Property Owner's Name and Address Horn Helen M & Karen L Henderson	Property Tenant's Name and Address
---	------------------------------------

Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: new planted soy beans backfill and topsoil complete Damage to Work Area: Newly planted soy beans backfill and topsoil complete

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.
--

Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
---------------------------	-------------------------	-------------------------	------------

Batch Number

Disposition of Lost Oil

Name and Address of Person Reporting Leak	Was a Report Fee Paid? No
---	------------------------------

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Test leads installed to mainline and vent pipe

Welding Procedure or Procedures with Welder Name(s)

Welding Inspector Name

NDE Personnel

General Condition of Line (See Corrosion Inspection Report) No Corrosion	Type of Existing Coating Coal Tar Enamel	Type and Length of Repair Coating denso mastik - 2-4"x4" patches
Condition of Trench (dry, wet, etc.)	Cathodic Protection Potential (See Corrosion Inspection Report)	Type of Sleeve

Wet	1.53 DC .85 millivolts AC	
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified	Individual contacted	Date	Time
----------------------------	----------------------	------	------

Report Completed by and Signature Mick J Collier	Date Entered on System Drawings By Tech. Services 06/04/2010
---	---

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-065 Report Date: 06/04/2010

Part A - General Information Concerning Excavation

Line Number and Size 5 - (30)	MilePost/Station 1630.65	Tract No. M6-122	Stationing 28118+46
Purpose of Excavation Test Lead Installation	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type	Max Depth	Anomaly Size	

Part B - Inspection Results

Condition of Outside of Pipe
No Corrosion
Comments

Existing Coating is : **Coal Tar Enamel**
Condition of Coating : **Satisfactory**
Comments :

New Coating is : **denso mastik** Coating Length is : **2-4"x4" patches**

Pipe to Soil Potential : **1.53 DC .85 millivolts AC**
Comments :

Condition of Inside of Pipe : **Steel not exposed**
Comments :

Inspected By : **Mike McCamey** Date Inspected: **05/25/2010**

Part C - Signatures

Pipe Line Foreman Mick J Collier	Date 06/04/2010
--	---------------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-066

Report Date: 06/04/2010

Report Type: Test Lead Installation

Location

Reporting Office Bay City	Date Discovered 05/26/2010	Date Repaired 05/26/2010	Report Date 06/04/2010
------------------------------	-------------------------------	-----------------------------	---------------------------

Pipe Line Location - Pump Station or Milepost 1646.57	Line No. 5	Line Size 30	Special Cost Number 91153SC10113
--	---------------	-----------------	-------------------------------------

Specific Location - Location from a known stationing on a Route Sheet 28959+24 - 147 ft US of Dyke at 28960+71	Route Sheet Number 326
---	---------------------------

Quarter	Section 09	Township 13N	Range 5E	Tract No. M7-1011
---------	---------------	-----------------	-------------	----------------------

Meridian/County 28	Province/State MI	Lat & Long Location Lat. Long.	GPS Location	GPS Reading N. W. E.
-----------------------	----------------------	--------------------------------------	--------------	-------------------------------

Property Owner's Name and Address Gorzenski Patrick & Rosemary	Property Tenant's Name and Address
---	------------------------------------

Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary)
 Damage Accessing: .Soy beans land owner claims damage was done to clay tile in trench dug by ditch witch could find no evidence of broken tile farmer claims tile is working found evidence of non flowing tile and wet spots in field. Backfill and topsoil complete
 Damage to Work Area: soy beans See access memo for details on supposed tile damage found trenches dur accross field to drain water from wet spots took pictures of trench and Emailed to corrosion tech.

Leak

Describe Specific Nature and Cause of Break or Leak
 Repair not due to a leak.

Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
---------------------------	-------------------------	-------------------------	------------

Batch Number	
--------------	--

Disposition of Lost Oil

Name and Address of Person Reporting Leak	Was a Report Fee Paid? No
---	------------------------------

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation)
 Test lead installed

Welding Procedure or Procedures with Welder Name(s)

Welding Inspector Name

NDE Personnel

General Condition of Line (See Corrosion Inspection Report) No Corrosion	Type of Existing Coating Coal Tar Enamel	Type and Length of Repair Coating denso mastik - 2-4"x4" patches
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) DC 1.440 volts/20millivolts AC	Type of Sleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Mike McCamey	Date Entered on System Drawings By Tech. Services 06/04/2010
---	---

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-066 Report Date: 06/04/2010

Part A - General Information Concerning Excavation

Line Number and Size 5 - (30)	MilePost/Station 1646.57	Tract No. M7-1011	Stationing 28959+24
Purpose of Excavation Test Lead Installation	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type	Max Depth	Anomaly Size	

Part B - Inspection Results

Condition of Outside of Pipe
No Corrosion
Comments

Existing Coating is : **Coal Tar Enamel**
Condition of Coating : **Satisfactory**
Comments :
New Coating is : **denso mastik** Coating Length is : **2-4"x4" patches**

Pipe to Soil Potential : **DC 1.440 volts/20millivolts AC**
Comments :

Condition of Inside of Pipe : **Steel not exposed**
Comments :

Inspected By : **Mike McCamey** Date Inspected: **05/26/2010**

Part C - Signatures

Pipe Line Foreman Mike McCamey	Date 06/04/2010
--	---------------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-067
 Report Date: 06/15/2010
 Report Type: Test Lead Installation

Location

Reporting Office Bay City	Date Discovered 05/25/2010	Date Repaired 05/25/2010	Report Date 06/15/2010
Pipe Line Location - Pump Station or Milepost 1647.13	Line No. 5	Line Size 30	Special Cost Number 91153SC10113
Specific Location - Location from a known stationing on a Route Sheet 28988+73 - 115 ft DS of Trumbull Rd (28987+58)			Route Sheet Number 326
Quarter	Section 10	Township 13N	Range 5E
Tract No. M7-1007			
Meridian/County 28	Province/State MI	Lat & Long Location Lat. Long.	GPS Location GPS Reading N. W. E.
Property Owner's Name and Address Richard Thomas F & Mary Ann		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Damage to beans in feild backfill and topsoil complete Damage to Work Area: Damage to soy beans backfilland topsoil complete			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Test Leads Installed		
Welding Procedure or Procedures with Welder Name(s)		
Welding Inspector Name		
NDE Personnel		
General Condition of Line (See Corrosion Inspection Report) No Corrosion	Type of Existing Coating Coal Tar Enamel	Type and Length of Repair Coating gray patch & densomastik - 2-4"x4"
Condition of Trench (dry, wet, etc.)	Cathodic Protection Potential	Type of Sleeve

wet	(See Corrosion Inspection Report) 1.445 DC- 120.8 milivolts AC	
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records)		Hydrotest Number	
No			
Remarks:			
Government Agency Notified	Individual contacted	Date	Time
No			
Report Completed by and Signature		Date Entered on System Drawings By Tech. Services	
Mike McCamey		06/15/2010	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-067 Report Date: 06/15/2010

Part A - General Information Concerning Excavation

Line Number and Size	MilePost/Station	Tract No.	Stationing
5 - (30)	1647.13	M7-1007	28988+73

Purpose of Excavation	Soil Type	Terrain Type
Test Lead Installation	Clay	Cultivated

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
-------------	----------------	-------------	-----------------------------

Corrosion Type	Max Depth	Anomaly Size
----------------	-----------	--------------

Part B - Inspection Results

Condition of Outside of Pipe
No Corrosion
Comments

Existing Coating is : Coal Tar Enamel
Condition of Coating : Satisfactory
Comments :
New Coating is : gray patch & densomastik
Coating Length is : 2-4"x4"

Pipe to Soil Potential : 1.445 DC- 120.8 milivolts AC
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Mike McCamey
Date Inspected: 05/25/2010

Part C - Signatures

Pipe Line Foreman	Date
Mike McCamey	06/15/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-068
Report Date: 06/22/2010

Report Type: Test Lead Installation

Location

Reporting Office Bay City	Date Discovered 05/27/2010	Date Repaired 05/27/2010	Report Date 06/22/2010
Pipe Line Location - Pump Station or Milepost 1652.74	Line No. 5	Line Size 30	Special Cost Number 91153SC10113
Specific Location - Location from a known stationing on a Route Sheet 29285+17 - 128 ft US of Munger Rd (29286+45)			Route Sheet Number 327
Quarter	Section 16	Township 13N	Range 6E
Meridian/County 28	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M7-974
Property Owner's Name and Address Schumacher Lawrence Etal Lawrence Schumacher Etal 1327 Cotter Road 1327 Cotter Road (517) 659-2494		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: planted corn damaged backfill and topsoil complete Damage to Work Area: all back filling and topsoiling complete corn damages need to be taken care of			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Test lead Instalation
Welding Procedure or Procedures with Welder Name(s)
Welding Inspector Name
NDE Personnel

General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating
---------------------------	--------------------------	-----------------------------------

(See Corrosion Inspection Report) No Corrosion	Coal Tar Enamel	Grey patch & denso mastik - 2-4"x4"
Condition of Trench (dry, wet, etc.) wet	Cathodic Protection Potential (See Corrosion Inspection Report) 1.680 DC .457 volts AC	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified	Individual contacted	Date	Time
Report Completed by and Signature Mike McCamey	Date Entered on System Drawings By Tech. Services 06/22/2010		

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-041
Report Date: 05/04/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 04/21/2010	Date Repaired 05/25/2010	Report Date 05/04/2010
Pipe Line Location - Pump Station or Milepost 724.35	Line No. 6B	Line Size 30	Special Cost Number 1091204123.MIC006
Specific Location - Location from a known stationing on a Route Sheet 13662+96 - Location is 394' U/S of C/L of Romeo Plank Road.			Route Sheet Number C-427
Quarter	Section 07	Township 5N	Range 13E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-833-3
Property Owner's Name and Address Ward Harold A & Mary B Harold A. & Mary B. Ward 17105 Irwin Road 17105 Irwin Road (586) 752-2167		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Damage was to vehicles running over the pature mix for baling. Damage to Work Area: General ground disturbance and damage to the pasture mix for baling.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) One 5.8 ft tight fit sleeve was installed to the Mainline.
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Julian Dave(R) Kennedy Mike(L) WPS UF-49 Uphand Fillet Weld - Julian Dave(R) Kennedy Mike(L)
Welding Inspector Name Pfinde
NDE Personnel

Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 46'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.129	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
---	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
---	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 05/04/2010
---	--

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-041 Report Date: 05/04/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 724.35	Tract No. M-833-3	Stationing 13662+96
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 19	Log Footage 1366257.78	Reported Grade Depth or RPR 1.11
Corrosion Type External	Max Depth .55	Anomaly Size 1.4	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments
External corrosion found. Sleeve required. See NDE Report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of Recoat is 13662+80
New Coating is : Densotherm Coating Length is : 46'

Pipe to Soil Potential : -1.129
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Rogstad, Siltala Date Inspected: 05/26/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 05/04/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-042
 Report Date: 05/05/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 04/23/2010	Date Repaired 04/25/2010	Report Date 05/05/2010
Pipe Line Location - Pump Station or Milepost 723.55	Line No. 6B	Line Size 30	Special Cost Number AFE# 1091204116MIC.006
Specific Location - Location from a known stationing on a Route Sheet 13620+98 - Location is 1936' U/S of C/L of McFadden Rd.			Route Sheet Number C-427
Quarter	Section 07	Township 5N	Range 13E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-833-1
Property Owner's Name and Address Toles Pearl Pearl Toles 76227 McFadden Road 76227 McFadden Road (586) 337-7427		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: General ground disturbance in corn stubble field and rutting from vehicles and equipment. Damage to Work Area: General Ground Disturbance to the corn stubble field.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Pipe was blasted and recoated
Welding Procedure or Procedures with Welder Name(s)
Welding Inspector Name
NDE Personnel Rory Siltala; Joshua Rogstad

General Condition of Line (See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Type of Existing Coating Polyken Tape;TapeCoat 20	Type and Length of Repair Coating Densotherm - 28'
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) -1.22	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 05/05/2010		

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-042 Report Date: 05/05/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 723.55	Tract No. M-833-1	Stationing 13620+98
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Peat & Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 4	Log Footage 1362082.67	Reported Grade Depth or RPR 1.10
Corrosion Type External	Max Depth .89	Anomaly Size 3.8	

Part B - Inspection Results

Condition of Outside of Pipe

Minor Corrosion. No repair sleeve or pipe replacement required.

Comments

SCC was found .035 deep. The SCC was removed by grinding and within acceptable limits Also external corrosion was found. all within acceptable limits see NDE report.

Existing Coating is : Polyken Tape;TapeCoat 20

Condition of Coating : Pipe was recoated

Comments : C/L of recoat is 13620+98

New Coating is : Densotherm

Coating Length is : 28'

Pipe to Soil Potential : -1.22

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad,Siltala

Date Inspected: 04/24/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 05/05/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-043
 Report Date: 05/07/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 04/27/2010	Date Repaired 05/05/2010	Report Date 05/07/2010
Pipe Line Location - Pump Station or Milepost 748.18	Line No. 6B	Line Size 30	Special Cost Number 1091204123.MIC006
Specific Location - Location from a known stationing on a Route Sheet 14921+37 - Location of Recoat is 1520' D/S of C/L of Allen Road.			Route Sheet Number C-432
Quarter	Section 01	Township 5N	Range 16E
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-856-3
Property Owner's Name and Address Sun Pipe Line Sun Pipe Line Attn: Denise Boyle Attn: Denise Boyle 525 Fritztown Rd 610-670-3291 Denise Boyle		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Some rutting from equipment and vehicles. Damage to Work Area: General Ground Disturbance and Removal of part of the fence			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Pipe was blasted and Recoated.
Welding Procedure or Procedures with Welder Name(s)
Welding Inspector Name
NDE Personnel Rory Siltala; Joshua Rogstad; Doug Gronewold

General Condition of Line (See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 42'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.34	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		Hydrotest Number	
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 05/07/2010	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-043 Report Date: 05/07/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 748.18	Tract No. M-856-3	Stationing 14921+37
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Peat & Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 7	Log Footage 1492116.25	Reported Grade Depth or RPR 1.07
Corrosion Type External	Max Depth .125	Anomaly Size 1.2	

Part B - Inspection Results

Condition of Outside of Pipe

Minor Corrosion. No repair sleeve or pipe replacement required.

Comments

External corrosion found within acceptable limits. See NDE Report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of Recoat is 14921+37.

New Coating is : Densotherm

Coating Length is : 42'

Pipe to Soil Potential : -1.34

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad, Siltala, Gronewold

Date Inspected: 04/03/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

05/07/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-044
 Report Date: 05/11/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 04/24/2010	Date Repaired 04/24/2010	Report Date 05/11/2010
Pipe Line Location - Pump Station or Milepost 723.53; 723.53	Line No. 6B; 6B	Line Size 30; 30	Special Cost Number 0891204109.MIC006
Specific Location - Location from a known stationing on a Route Sheet 13620+00; 13619+80 - Location 1 is 2034' U/S of C/L of McFadden Road. Location 2 is 2054' U/S of C/L of McFadden Road.			Route Sheet Number C-427
Quarter	Section 12	Township 5N	Range 12E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
Property Owner's Name and Address Rohrbeck Richard H & Valeta Richard H. & Valeta Rohrbeck 15150 Reid Road 15150 Reid Road (586) 752-4269		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: General ground disturbance and rutting from vehicles and equipment. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 2nd GPS N.4748167.94 E. 338038.31 EL. 237.00 U/S Sleeve installed was 8.38' D/S Sleeve installed was 3'. Existing Sleeve was present, hot ends were welded out at this time. Welder stats are attached.
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Julian Dave(R) Wilson Todd(R) Kennedy Mike(L) Matula Bob(L)

WPS UF-60 Uphand Fillet Weld - Julian Dave(R) Wilson Todd(R) Kennedy Mike(L) Matula Bob(L) WPS UF-49 Uphand Fillet Weld - Julian Dave(R) Wilson Todd(R) Kennedy Mike(L) Matula Bob(L)
Welding Inspector Name Pfinde
NDE Personnel Rory Siltala; Joshua Rogstad; Doug Gronewold

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 54'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.23	Type of Sleeve tight fitting; tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 05/11/2010	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-044 Report Date: 05/11/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B; 6B - (30; 30)	MilePost/Station 723.53; 723.53	Tract No. M-832-2A	Stationing 13620+00; 13619+80
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 8	Log Footage 1361961.18	Reported Grade Depth or RPR .94
Corrosion Type External	Max Depth .136	Anomaly Size 12.8	

Part B - Inspection Results

Condition of Outside of Pipe

Extensive Corrosion

Comments

External Corrosion Found . Sleeve required. See NDE Report

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of Recoat is 13619+66.

New Coating is : Densotherm

Coating Length is : 54'

Pipe to Soil Potential : -1.23

Comments :

Condition of Inside of Pipe : **Steel not exposed**

Comments :

Inspected By : Rogstad, Siltala, Gronewold, Hauch

Date Inspected: 05/07/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

05/11/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-045
 Report Date: 05/22/2010
 Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 05/10/2010	Date Repaired 05/19/2010	Report Date 05/22/2010
Pipe Line Location - Pump Station or Milepost 735.44	Line No. 6B	Line Size 30	Special Cost Number AFE#1091204123
Specific Location - Location from a known stationing on a Route Sheet 14248+82 - Location is 640' U/S of C/L of Andrews rd.			Route Sheet Number C-429
Quarter	Section 12	Township 5N	Range 14E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-844-2
Property Owner's Name and Address Rumenapp Frank Etal Frank Rumenapp Etal 60700 New Haven Rd 60700 New Haven Rd		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Rutting from vehicles and equipment. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) One tight fit sleeve was installed to the mainline. Footage of Sleeve was 2.62'.
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Lindgren Pat(R) Fowler Paul(L) WPS UF-49 Uphand Fillet Weld - Matula Robert(R) Wilson Todd(L)
Welding Inspector Name P-Finde
NDE Personnel Joshua Rogstad; Rory Siltala; Daniel Hauch; James Ellis; Jeff Hecht

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 44'
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) 1.33	Type of Sleeve tight fitting
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		Hydrotest Number	
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 05/22/2010	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-045 Report Date: 05/22/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 735.44	Tract No. M-844-2	Stationing 14248+82
-----------------------------------	----------------------------	----------------------	------------------------

Purpose of Excavation Corrosion Tool Anamoly	Soil Type Peat & Clay	Terrain Type Flat
---	--------------------------	----------------------

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 17	Log Footage 1424882.78	Reported Grade Depth or RPR 1.18
-------------	----------------------	---------------------------	-------------------------------------

Corrosion Type External	Max Depth 109	Anomaly Size .5
----------------------------	------------------	--------------------

Part B - Inspection Results

Condition of Outside of Pipe

Extensive Corrosion

Comments

Extensive corrosion. Sleeve required. See NDE report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of coating is 14249+02

New Coating is : Densotherm

Coating Length is : 44'

Pipe to Soil Potential : 1.33

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad, Siltala

Date Inspected: 05/19/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

05/22/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-046 Report Type: Corrosion Tool Anamoly
 Report Date: 05/23/2010

Location

Reporting Office Bay City	Date Discovered 05/03/2010	Date Repaired 05/08/2010	Report Date 05/23/2010	
Pipe Line Location - Pump Station or Milepost 749.80; 749.81	Line No. 6B; 6B	Line Size 30; 30	Special Cost Number 1091204123.MIC006	
Specific Location - Location from a known stationing on a Route Sheet 15006+89; 15007+08 - Location 1 is 314' U/S of C/L of State Highway 29. Location 2 is 295' U/S of C/L of State Highway 29. There were 2 sleeves installed on the same Joint			Route Sheet Number C-432	
Quarter	Section 06	Township 5N	Range 17E	Tract No. M-857-2N
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	GPS Location	GPS Reading N. W. E.
Property Owner's Name and Address Wellhoff Robert & Pamela		Property Tenant's Name and Address		
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Some rutting on the shoulder of road from equipment and Vehicles. Damage to Work Area: Driveway was removed. Also some trees, landscaping, lawn. Future restoration will be needed.				

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) C/L of D/S Sleeve GPS, N.4750853.29 E. 378890.99 EL. 190.10. One 7' and one 3' tight fitting sleeves were installed to the mainline.
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Fleming Ronald W(R) Kennedy Mike(R) Krause Michael K(L) Matula Bob(L) WPS UF-49 Uphand Fillet Weld - Fleming Ronald W(R)

Kennedy Mike(R) Krause Michael K(L) Matula Bob(L)
Welding Inspector Name Pfinde
NDE Personnel Daniel Hauch; Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 44'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.285	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 05/23/2010	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-046 Report Date: 05/23/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B; 6B - (30; 30)	MilePost/Station 749.80; 749.81	Tract No. M-857-2N	Stationing 15006+89; 15007+08
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Front Lawn	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 3	Log Footage 1500669.17	Reported Grade Depth or RPR 1.13
Corrosion Type External	Max Depth .139	Anomaly Size 1.3	

Part B - Inspection Results

Condition of Outside of Pipe

Extensive Corrosion

Comments

Sleeves Required. See NDE Report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of Recoat is 15006+89

New Coating is : Densotherm

Coating Length is : 44'

Pipe to Soil Potential : -1.285

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad, Siltala, Hauch

Date Inspected: 05/09/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

05/23/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-047

Report Date: 05/12/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 04/25/2010	Date Repaired 05/04/2010	Report Date 05/12/2010
Pipe Line Location - Pump Station or Milepost 723.55	Line No. 6B	Line Size 30	Special Cost Number 109120123.MIC006
Specific Location - Location from a known stationing on a Route Sheet 13620+63 - Location is 1971' U/S of C/L of McFadden Road.			Route Sheet Number C-427
Quarter	Section 12	Township 5N	Range 12E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-832-2A
Property Owner's Name and Address Rohrbeck Richard H & Valeta Richard H. & Valeta Rohrbeck 15150 Reid Road 15150 Reid Road (586) 752-4269		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor rutting and soil compaction from Vehicles and Equipment. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 8' of Tight with over sleeve was installed to the Mainline.
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Fleming Ronald W(R) Julian Dave(R) Kennedy Mike(L) Krause Michael K(L) WPS UF-60 Uphand Fillet Weld - Fleming Ronald W(R) Julian Dave(R) Kennedy Mike(L)

Krause Michael K(L) WPS UF-49 Uphand Fillet Weld - Fleming Ronald W(R) Julian Dave(R) Kennedy Mike(L) Krause Michael K(L)
Welding Inspector Name Pfinde
NDE Personnel Rory Siltala; Joshua Rogstad

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 44'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.301	Type of Sleeve tight fitting w/oversleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Justin Anderson		Date Entered on System Drawings By Tech. Services 05/12/2010	

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-047 Report Date: 05/12/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 723.55	Tract No. M-832-2A	Stationing 13620+63
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 6	Log Footage 1362052.26	Reported Grade Depth or RPR 1.04
Corrosion Type External	Max Depth .120	Anomaly Size 4.9	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments
External Corrosion Found. Sleeve required. See NDE Report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of recoat is 13620+72.
New Coating is : Densotherm Coating Length is : 44'

Pipe to Soil Potential : -1.301
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Rogstad, Siltala, Hauch Date Inspected: 05/06/2010

Part C - Signatures

Pipe Line Foreman Justin Anderson	Date 05/12/2010
--------------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-048
Report Date: 05/24/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 05/09/2010	Date Repaired 05/11/2010	Report Date 05/24/2010
Pipe Line Location - Pump Station or Milepost 727.28	Line No. 6B	Line Size 30	Special Cost Number 1091204123.MIC006
Specific Location - Location from a known stationing on a Route Sheet 13817+97 - Location is 2883' D/S of C/L of Coon Creek Road.			Route Sheet Number C-427
Quarter	Section 10	Township 5N	Range 13E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-836-1A
Property Owner's Name and Address Van Daele Marcel & Rosemary Marcel & Rosemary Van Daele 59540 Romeo Plank Road 22550 McPhall Road (586) 781-9207		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Rutting and ground disturbance from Vehicles and Equipment. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 14.13' of Tight fitting with over sleeve was installed to the Mainline.	
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Fowler Paul(R) Lindgren Pat(L) WPS UF-49 Uphand Fillet Weld - Matula Bob(R) Wilson Todd(L) WPS UF-60 Uphand Fillet Weld - Matula Bob(R) Wilson Todd(L)	
Welding Inspector Name	

Pfinde
NDE Personnel Gerald Barras; Daniel Hauch; Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 46'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.16	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 05/24/2010
--	---

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-048 Report Date: 05/24/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 727.28	Tract No. M-836-1A	Stationing 13817+97
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 3	Log Footage 138179.08	Reported Grade Depth or RPR .92
Corrosion Type External	Max Depth .218	Anomaly Size 17.5	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments
Extensive Corrosion found, Sleeve required See NDE Report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of Recoat is 13818+11.
New Coating is : Densotherm Coating Length is : 46'

Pipe to Soil Potential : -1.16
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Rogstad, Siltala Date Inspected: 05/18/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 05/24/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-049
Report Date: 06/02/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 05/08/2010	Date Repaired 06/20/2010	Report Date 06/02/2010
------------------------------	-------------------------------	-----------------------------	---------------------------

Pipe Line Location - Pump Station or Milepost 737.00	Line No. 6B	Line Size 30	Special Cost Number 1091204123.MIC006
---	----------------	-----------------	--

Specific Location - Location from a known stationing on a Route Sheet 14331+11 - Location is 2715' U/S of C/L of Bauman Road.	Route Sheet Number C-429
--	-----------------------------

Quarter	Section 07	Township 5N	Range 15E	Tract No. M-845-4
---------	---------------	----------------	--------------	----------------------

Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	GPS Location	GPS Reading N. W. E.
-----------------------	----------------------	--------------------------------------	--------------	-------------------------------

Property Owner's Name and Address Zurakowski Elmer M Elmer M Zurakowski 10054 Meskill Rd 10054 Meskill Rd	Property Tenant's Name and Address
---	------------------------------------

Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary)
Damage Accessing: Some rutting and ground disturbance for vehicles and equipment.
Damage to Work Area: General ground disturbance, also caused delay to farmer from planting field.

Leak

Describe Specific Nature and Cause of Break or Leak
Repair not due to a leak.

Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
---------------------------	-------------------------	-------------------------	------------

Batch Number

Disposition of Lost Oil

Name and Address of Person Reporting Leak	Was a Report Fee Paid? No
---	------------------------------

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation)
6-Tight Fit with 6 over sleeves were installed to the mainline. Total sleeve installed was 29'.

Welding Procedure or Procedures with Welder Name(s)
WPS LB-32 Longitudinal Butt Weld - Charpentier Cody(R)
Kennedy Mike(R)
Matula Bob(R)
Christensen Ben(L)
Julian Dave(L)
Wilson Todd(L)
WPS UF-60 Uphand Fillet Weld - Charpentier Cody(R)
Kennedy Mike(R)

Matula Bob(R) Christensen Ben(L) Julian Dave(L) Wilson Todd(L) WPS UF-49 Uphand Fillet Weld - Charpentier Cody(R) Kennedy Mike(R) Christensen Ben(L) Julian Dave(L)
Welding Inspector Name Pfinde
NDE Personnel Daniel Hauch; Rory Siltala; Joshua Rogstad

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 48'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.31	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 06/02/2010	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-049 Report Date: 06/02/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 737.00	Tract No. M-845-4	Stationing 14331+11
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 20	Log Footage 1433084.36	Reported Grade Depth or RPR .97
Corrosion Type External	Max Depth .128	Anomaly Size 8.6	

Part B - Inspection Results

Condition of Outside of Pipe

Extensive Corrosion

Comments

Extensive corrosion found, Sleeve required. See NDE Report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of recoat is 14331+04.

New Coating is : Densotherm

Coating Length is : 48'

Pipe to Soil Potential : -1.31

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad, Siltala

Date Inspected: 05/21/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

06/02/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-050
Report Date: 06/06/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 05/17/2010	Date Repaired 05/25/2010	Report Date 06/06/2010
Pipe Line Location - Pump Station or Milepost 740.74	Line No. 6B	Line Size 30	Special Cost Number 0891204109
Specific Location - Location from a known stationing on a Route Sheet 14528+53 - Location is 2090' U/S of C/L of Palms Road.			Route Sheet Number C-430
Quarter	Section 11	Township 5N	Range 15E
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-849-3
Property Owner's Name and Address Lovett Anita Fay Trust		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor rutting to field from Vehicles and Equipment. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 2.85' of Tight fit sleeve was installed to the Mainline.	
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Matula Bob(R) Wilson Todd(L) WPS UF-49 Uphand Fillet Weld - Matula Bob(R) Wilson Todd(L)	
Welding Inspector Name Pfinde	
NDE Personnel Gerald Barras; Larry Kennedy; Rory Siltala; Joshua Rogstad; Russell Thomas	

General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating
---------------------------	--------------------------	-----------------------------------

(See Corrosion Inspection Report) Extensive Corrosion	Polyken Tape	Densotherm - 46'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.306	Type of Sleeve tight fitting
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		Hydrotest Number	
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 06/06/2010	

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-050 Report Date: 06/06/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 740.74	Tract No. M-849-3	Stationing 14528+53
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 4	Log Footage 1452853.74	Reported Grade Depth or RPR 1.07
Corrosion Type External	Max Depth .110	Anomaly Size .1	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments
Girth Weld Cracking, Sleeve required. See NDE Report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of Recoat is 14528+73.
New Coating is : Densotherm Coating Length is : 46'

Pipe to Soil Potential : -1.306
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Rogstad, Siltala Date Inspected: 06/04/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 06/06/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-051
Report Date: 06/06/2010

Report Type: Crack Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 05/18/2010	Date Repaired 04/26/2010	Report Date 06/06/2010
Pipe Line Location - Pump Station or Milepost 740.76	Line No. 6B	Line Size 30	Special Cost Number 0891204109
Specific Location - Location from a known stationing on a Route Sheet 14529+32 - Location is 2011' U/S of C/L of Palms Road.			Route Sheet Number C-430
Quarter	Section 11	Township 5N	Range 15E
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-849-3
Property Owner's Name and Address Lovett Anita Fay Trust		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor rutting and some crop damage on tract M-849-6 from vehicles and equipment. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) One 3' tight fitting sleeve was installed to the mainline.	
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Matula Bob(R) Wilson Todd(L) WPS UF-49 Uphand Fillet Weld - Matula Bob(R) Wilson Todd(L)	
Welding Inspector Name Pfinde	
NDE Personnel Gerald Barras; Larry Kennedy; Russell Thomas; Joshua Rogstad	

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 46'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.306	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
---	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
---	----------------------	------	------

Report Completed by and Signature Justin Anderson	Date Entered on System Drawings By Tech. Services 06/06/2010
---	--

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-051 Report Date: 06/06/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 740.76	Tract No. M-849-3	Stationing 14529+32
Purpose of Excavation Crack Tool Anomaly	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 11	Log Footage 1452893.51	Reported Grade Depth or RPR 1.14
Corrosion Type External	Max Depth .110	Anomaly Size .1	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments
Girth Weld Cracking, See NDE Report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of Recoat is 14529+13.
New Coating is : Densotherm Coating Length is : 46'

Pipe to Soil Potential : -1.306
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Rogstad, Siltala Date Inspected: 06/04/2010

Part C - Signatures

Pipe Line Foreman Justin Anderson	Date 06/06/2010
--------------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-052
 Report Date: 06/08/2010
 Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 06/03/2010	Date Repaired 06/05/2010	Report Date 06/08/2010
Pipe Line Location - Pump Station or Milepost 713.40	Line No. 6B	Line Size 30	Special Cost Number 1091204123.MIC006
Specific Location - Location from a known stationing on a Route Sheet 13085+13 - Location is 498' U/S of C/L of Curtis Road.			Route Sheet Number C-424
Quarter	Section 16	Township 5N	Range 11E
Tract No. M-823-2			
Meridian/County 41	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
Property Owner's Name and Address Ulrich Norbert Norbert Ulrich 1012 N Ocean Blvd 1012 N Ocean Blvd		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor rutting and ground disturbance from vehicles and equipment. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Pipe was Blasted and Recoated		
Welding Procedure or Procedures with Welder Name(s)		
Welding Inspector Name		
NDE Personnel Larry Kennedy; Gerald Barras		
General Condition of Line (See Corrosion Inspection Report)	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 46'

Minor Corrosion. No repair sleeve or pipe replacement required.		
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.22	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		Hydrotest Number	
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 06/08/2010	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-052 Report Date: 06/08/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 713.40	Tract No. M-823-2	Stationing 13085+13
Purpose of Excavation Corrosion Tool Anamoly		Soil Type Clay	Terrain Type Flat

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 2	Log Footage 1308493.84	Reported Grade Depth or RPR 1.05
Corrosion Type External	Max Depth .103	Anomaly Size 1.1	

Part B - Inspection Results

Condition of Outside of Pipe

Minor Corrosion. No repair sleeve or pipe replacement required.

Comments

Minor corrosion found within acceptable limits. See NDE Report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of recoat is 13085+13.

New Coating is : Densotherm

Coating Length is : 46'

Pipe to Soil Potential : -1.22

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Vrklan, Barras, Kennedy

Date Inspected: 06/05/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

06/08/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-053
 Report Date: 06/15/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 06/01/2010	Date Repaired 06/05/2010	Report Date 06/15/2010
Pipe Line Location - Pump Station or Milepost 712.27	Line No. 6B	Line Size 30	Special Cost Number 1091204123
Specific Location - Location from a known stationing on a Route Sheet 13025+14 - Recoat, Location is 1938' D/S of C/L of Hosner Road.			Route Sheet Number C-424
Quarter	Section 17	Township 5N	Range 11E
Tract No. M-822-1A			
Meridian/County 41	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
Property Owner's Name and Address Bednar Deanne Deanne Bednar 1427 Otter Dr 1427 Otter Dr		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor pot-holes from vehicles and equipment. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Recoat		
Welding Procedure or Procedures with Welder Name(s)		
Welding Inspector Name		
NDE Personnel Daniel Hauch; Joshua Rogstad; Rory Siltala		
General Condition of Line (See Corrosion Inspection Report)	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 40

Minor Corrosion. No repair sleeve or pipe replacement required.		
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.252	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		Hydrotest Number	
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Justin Anderson		Date Entered on System Drawings By Tech. Services 06/15/2010	

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-053 Report Date: 06/15/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 712.27	Tract No. M-822-1A	Stationing 13025+14
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Clay	Terrain Type Wooded	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 3	Log Footage 1302494.79	Reported Grade Depth or RPR 1.11
Corrosion Type External	Max Depth .070	Anomaly Size .1	

Part B - Inspection Results

Condition of Outside of Pipe

Minor Corrosion. No repair sleeve or pipe replacement required.

Comments

See NDE Report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of Recoat is 13025+14.

New Coating is : Densotherm

Coating Length is : 40

Pipe to Soil Potential : -1.252

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad, Siltala

Date Inspected: 06/05/2010

Part C - Signatures

Pipe Line Foreman
Justin Anderson

Date
06/15/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-054
 Report Date: 06/19/2010
 Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 06/01/2010	Date Repaired 06/06/2010	Report Date 06/19/2010
------------------------------	-------------------------------	-----------------------------	---------------------------

Pipe Line Location - Pump Station or Milepost 712.28	Line No. 6B	Line Size 30	Special Cost Number 1091204123
---	----------------	-----------------	-----------------------------------

Specific Location - Location from a known stationing on a Route Sheet 13025+53 - Recoat, Location is 1977' D/S of C/L of Hosner Road.	Route Sheet Number C-424
--	-----------------------------

Quarter	Section 17	Township 5N	Range 11E	Tract No. M-822-1A
---------	---------------	----------------	--------------	-----------------------

Meridian/County 41	Province/State MI	Lat & Long Location Lat. Long.	GPS Location	GPS Reading N. W. E.
-----------------------	----------------------	--------------------------------------	--------------	-------------------------------

Property Owner's Name and Address Bednar Deanne Deanne Bednar 1427 Otter Dr 1427 Otter Dr	Property Tenant's Name and Address
---	------------------------------------

Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary)
 Damage Accessing: Minor pot holes to driveway, gravel was brought in to repair.
 Damage to Work Area: General Ground Disturbance, Impact area was seeded with clover mix at owners request.

Leak

Describe Specific Nature and Cause of Break or Leak
 Repair not due to a leak.

Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
---------------------------	-------------------------	-------------------------	------------

Batch Number

Disposition of Lost Oil

Name and Address of Person Reporting Leak	Was a Report Fee Paid? No
---	------------------------------

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation)
 None, Recoat.

Welding Procedure or Procedures with Welder Name(s)

Welding Inspector Name

NDE Personnel
 Daniel Hauch; Rory Siltala; Joshua Rogstad

General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating
---------------------------	--------------------------	-----------------------------------

(See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Polyken Tape	Densotherm - 44'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.265	Type of Sleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Justin Anderson	Date Entered on System Drawings By Tech. Services 06/19/2010
--	---

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-054 Report Date: 06/19/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 712.28	Tract No. M-822-1A	Stationing 13025+53
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 2	Log Footage 1302533.87	Reported Grade Depth or RPR 1.10
Corrosion Type External	Max Depth .102	Anomaly Size 1.6	

Part B - Inspection Results

Condition of Outside of Pipe

Minor Corrosion. No repair sleeve or pipe replacement required.

Comments

See NDE Report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of Recoat is 13025+53.

New Coating is : Densotherm

Coating Length is : 44'

Pipe to Soil Potential : -1.265

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad, Siltala

Date Inspected: 06/07/2010

Part C - Signatures

Pipe Line Foreman
Justin Anderson

Date
06/19/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-055

Report Date: 06/19/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 05/21/2010	Date Repaired 06/05/2010	Report Date 06/19/2010
------------------------------	-------------------------------	-----------------------------	---------------------------

Pipe Line Location - Pump Station or Milepost 710.75	Line No. 6B	Line Size 30	Special Cost Number 1091204123
---	----------------	-----------------	-----------------------------------

Specific Location - Location from a known stationing on a Route Sheet 12944+96 - Recoat, Location is 1971' D/S of C/L of Delano Road.	Route Sheet Number C-424
--	-----------------------------

Quarter	Section 13	Township 5N	Range 10E	Tract No. M-820-2
---------	---------------	----------------	--------------	----------------------

Meridian/County 41	Province/State MI	Lat & Long Location Lat. Long.	GPS Location	GPS Reading N. W. E.
-----------------------	----------------------	--------------------------------------	--------------	-------------------------------

Property Owner's Name and Address Handleman Philip & Mary Philip & Mary Handleman 456 Warren Court 456 Warren Court (248) 642-5689	Property Tenant's Name and Address
---	------------------------------------

Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary)
 Damage Accessing: Minor rutting from Vehicles and Equipment.
 Damage to Work Area: General Ground Disturbance.

Leak

Describe Specific Nature and Cause of Break or Leak
 Repair not due to a leak.

Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
---------------------------	-------------------------	-------------------------	------------

Batch Number

Disposition of Lost Oil

Name and Address of Person Reporting Leak	Was a Report Fee Paid? No
---	------------------------------

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation)
 Recoat

Welding Procedure or Procedures with Welder Name(s)

Welding Inspector Name

NDE Personnel
 Gerald Barras; Larry Kennedy; Rory Siltala; Joshua Rogstad

General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating
---------------------------	--------------------------	-----------------------------------

(See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Polyken Tape	Densotherm - 42'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.273	Type of Sleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Justin Anderson	Date Entered on System Drawings By Tech. Services 06/19/2010
--	---

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-055 Report Date: 06/19/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 710.75	Tract No. M-820-2	Stationing 12944+96
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 3	Log Footage 1294476.70	Reported Grade Depth or RPR 1.11
Corrosion Type External	Max Depth .105	Anomaly Size 1.1	

Part B - Inspection Results

Condition of Outside of Pipe

Minor Corrosion. No repair sleeve or pipe replacement required.

Comments

See NDE Report

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of recoat is 12944+96.

New Coating is : Densotherm

Coating Length is : 42'

Pipe to Soil Potential : -1.273

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad, Siltala, Kennedy

Date Inspected: 06/05/2010

Part C - Signatures

Pipe Line Foreman
Justin Anderson

Date
06/19/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-026
Report Date: 04/20/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/25/2010	Date Repaired 04/01/2010	Report Date 04/20/2010
Pipe Line Location - Pump Station or Milepost 741.57; 741.57	Line No. 6B; 6B	Line Size 30; 30	Special Cost Number AFE0891204109.MIC.0 06
Specific Location - Location from a known stationing on a Route Sheet 14572+04; 14572+35 - Location 1 is 2261' D/S of C/L of Palms Rd. Location 2 is 2292' D/S of C/L of Palms Rd.			Route Sheet Number C-430
Note: same recoat for both sleeves.			
Quarter	Section 12	Township 5N	Range 15E
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-850-2A
Property Owner's Name and Address Wilkerson Rufus & Marilyn 7815 Rattle Run Road		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Rutting from Equipment and Vehicles. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Two different sleeves were installed to the Mainline. First sleeve was 9.5' and second sleeve was 7.8'. GPS of Second sleeve is N.4748002.47 E. 366872.44 EL. 193.10.
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Kennedy Mike(R) Julian Dave(L) WPS LB-32 Longitudinal Butt Weld - Matula Bob(R) Wilson Todd(L)

WPS UF-49 Uphand Fillet Weld - Kennedy Mike(R) Julian Dave(L) WPS UF-49 Uphand Fillet Weld - Matula Bob(R) Wilson Todd(L) WPS UF-60 Uphand Fillet Weld - Matula Bob(R) Wilson Todd(L) WPS UF-60 Uphand Fillet Weld - Kennedy Mike(R) Julian Dave(L)
Welding Inspector Name Pfinde
NDE Personnel Joshua Rogstad; Rory Siltala; Gerald Barras

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 50'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.37	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 04/20/2010	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-026 Report Date: 04/20/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B; 6B - (30; 30)	MilePost/Station 741.57; 741.57	Tract No. M-850-2A	Stationing 14572+04; 14572+35
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Clay	Terrain Type Hills	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1457194.52	Reported Grade Depth or RPR .97
Corrosion Type External	Max Depth .182	Anomaly Size 3.1	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments
Extensive Corrosion found, Sleevs required. See NDE Report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of Recoat is 14572+19.
New Coating is : Densotherm Coating Length is : 50'

Pipe to Soil Potential : -1.37
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Rogstad, Siltala, Barras Date Inspected: 04/09/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 04/20/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-027
Report Date: 04/22/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/31/2010	Date Repaired 04/06/2010	Report Date 04/22/2010
Pipe Line Location - Pump Station or Milepost 729.48	Line No. 6B	Line Size 30	Special Cost Number AFE891204109 MIC006
Specific Location - Location from a known stationing on a Route Sheet 13933+96 - Location of recoat is 351' U/S of C/L of OMO rd.			Route Sheet Number C-428
Quarter	Section 12	Township 5N	Range 13E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-838-2C
Property Owner's Name and Address Kaltz Martin & Eve Martin & Eve Kaltz 41730 Balfour Drive 41730 Balfour Drive (810) 247-5778		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Rutting from vehicles and equipment and some wheat damage. Damage to Work Area: Damage was to tenants winter wheat crop			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Pipe was blasted and recoated		
Welding Procedure or Procedures with Welder Name(s)		
Welding Inspector Name		
NDE Personnel Gerald Barras; Joshua Rogstad; Rory Siltala		
General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating

(See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Polyken Tape	Densotherm - 18'
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) -0.653	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		Hydrotest Number	
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 04/22/2010	

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-027 Report Date: 04/22/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 729.48	Tract No. M-838-2C	Stationing 13933+96
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1393387.79	Reported Grade Depth or RPR 1.13
Corrosion Type External	Max Depth .122	Anomaly Size 2.0	

Part B - Inspection Results

Condition of Outside of Pipe
Minor Corrosion. No repair sleeve or pipe replacement required.
Comments
Corrosion was inspected no sleeve. See NDE report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of recoat is 13933+96
New Coating is : Densotherm Coating Length is : 18'

Pipe to Soil Potential : -0.653
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Rogstad, Siltala, Barras Date Inspected: 04/05/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 04/22/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-028
Report Date: 04/22/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 04/08/2010	Date Repaired 04/11/2010	Report Date 04/22/2010
Pipe Line Location - Pump Station or Milepost 734.00; 734.01	Line No. 6B; 6B	Line Size 30; 30	Special Cost Number AFE0891204109.MIC00 6
Specific Location - Location from a known stationing on a Route Sheet 14172+83; 14173+18 - Location #1 is 2506' D/S of C/L of Wahl rd. Location #2 is 2541' D/S of C/L of Wahl rd.			Route Sheet Number C-429
Quarter	Section 10	Township 5N	Range 14E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-842-5
Property Owner's Name and Address Rowley & Sons Rowley & Sons Attn: John E Rowley Attn: John E Rowley 76191 Memphis Ridge (586) 727-9301		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Rutting from vehicles and equipment. Some crop damage. Damage to Work Area: General ground disturbance and crop damage.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 2 sleeves were installed, a 3 ft and a 14.3 ft sleeve. Sleeve #2 Northing-4,747,913.82 Easting-354,784.71 Elevation-229.00
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Julian Dave(R) Matula Bob(R) Kennedy Mike(L)

Wilson Todd(L) WPS UF-49 Uphand Fillet Weld - Julian Dave(R) Matula Bob(R) Kennedy Mike(L) Wilson Todd(L) WPS UF-60 Uphand Fillet Weld - Julian Dave(R) Matula Bob(R) Kennedy Mike(L) Wilson Todd(L)
Welding Inspector Name P-Finde
NDE Personnel Gerald Barras; Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 47'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) 6.5	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 04/22/2010	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-028 Report Date: 04/22/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B; 6B - (30; 30)	MilePost/Station 734.00; 734.01	Tract No. M-842-5	Stationing 14172+83; 14173+18
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1417283.36	Reported Grade Depth or RPR 1.01
Corrosion Type External	Max Depth .228	Anomaly Size 1.8	

Part B - Inspection Results

Condition of Outside of Pipe

Extensive Corrosion

Comments

Extensive corrosion found . Sleeves required. See NDE report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of recoat is 14173+02

New Coating is : Densotherm

Coating Length is : 47'

Pipe to Soil Potential : 6.5

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad, Siltala, Barras

Date Inspected: 04/13/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

04/22/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-029

Report Date: 04/24/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 04/06/2010	Date Repaired 04/11/2010	Report Date 04/24/2010
Pipe Line Location - Pump Station or Milepost 727.62	Line No. 6B	Line Size 30	Special Cost Number AFE0891204109.MIC00 6
Specific Location - Location from a known stationing on a Route Sheet 13835+79 - Location of Recoat is 4665' D/S of C/L of Coon Creek Road.			Route Sheet Number C-427
Quarter	Section 11	Township 5N	Range 13E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-837-1
Property Owner's Name and Address Depauw Katherine Katherine Depauw 2402 Queen Dr 2402 Queen Dr (586) 784-9363		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Major rutting do to weather, equipment, and vehicles. Damage to Work Area: General Ground Disturbance, and will not be able to farm this year.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Pipe was blasted and recoated
Welding Procedure or Procedures with Welder Name(s)
Welding Inspector Name
NDE Personnel Gerald Barras; Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 44'
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) -1.19	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 04/24/2010		

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-029 Report Date: 04/24/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 727.62	Tract No. M-837-1	Stationing 13835+79
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 7	Log Footage 1383559.63	Reported Grade Depth or RPR 1.07
Corrosion Type External	Max Depth .138	Anomaly Size 2.6	

Part B - Inspection Results

Condition of Outside of Pipe

Minor Corrosion. No repair sleeve or pipe replacement required.

Comments

See NDE Report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of the recoat was 13835+79

New Coating is : Densotherm

Coating Length is : 44'

Pipe to Soil Potential : -1.19

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad, Siltala, Barras

Date Inspected: 04/12/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

04/24/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-030
 Report Date: 04/24/2010
 Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 04/06/2010	Date Repaired 04/14/2010	Report Date 04/24/2010
Pipe Line Location - Pump Station or Milepost 727.65	Line No. 6B	Line Size 30	Special Cost Number AFE#0891204109MIC.0 06
Specific Location - Location from a known stationing on a Route Sheet 13837+10 - Location of C/L of sleeve is 4796' D/S of C/L of Coon creek rd.			Route Sheet Number C-427
Quarter	Section 11	Township 5N	Range 13E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-837-1
Property Owner's Name and Address Depauw Katherine Katherine Depauw 2402 Queen Dr 2402 Queen Dr (586) 784-9363		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Major rutting from vehicles and equipment. Damage to Work Area: General ground disturbance. Will not be able to farm in 2010, will have to pay damages.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 2-Tight fit Sleeves with 1 oversleeve was installed to mainline total footage 10.48' .
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Matula Bob(R) Julian Dave(L) WPS UF-60 Uphand Fillet Weld - Matula Robert(R) Julian Dave(L)

WPS UF-49 Uphand Fillet Weld - Matula Robert(R) Julian Dave(L)
Welding Inspector Name P-Finde
NDE Personnel Gerald Barras; Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 42'
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) -1.2	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 04/24/2010
--	---

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-030 Report Date: 04/24/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 727.65	Tract No. M-837-1	Stationing 13837+10
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 5	Log Footage 13836778.26	Reported Grade Depth or RPR 1.14
Corrosion Type External	Max Depth .85	Anomaly Size .6	

Part B - Inspection Results

Condition of Outside of Pipe

Extensive Corrosion

Comments

Extensive corrosion found . Sleeve required. See NDE report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of recoat is 13836+96

New Coating is : Densotherm

Coating Length is : 42'

Pipe to Soil Potential : -1.2

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad, Siltala, Barras

Date Inspected: 04/11/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

04/24/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-031
Report Date: 04/07/2010

Report Type: Crack Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/22/2010	Date Repaired 03/26/2010	Report Date 04/07/2010
Pipe Line Location - Pump Station or Milepost 750.09	Line No. 6B	Line Size 30	Special Cost Number AFE0891204109.MIC00 6
Specific Location - Location from a known stationing on a Route Sheet 15022+09 - Location is 462 ft D/S of the C/L of Michigan Ave			Route Sheet Number C-432
Quarter	Section 05	Township 5N	Range 17E
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-858-2 GPS Reading N. W. E.
Property Owner's Name and Address Campbell & Shaw Steel		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor rutting to access from vehicles and equipment. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 1 Tight fit sleeve was installed to the mainline. The sleeve installed was 3.3'
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Kennedy Mike(R) Julian Dave(L) WPS UF-49 Uphand Fillet Weld - Kennedy Mike(R) Julian Dave(L)
Welding Inspector Name Pfinde
NDE Personnel Joshua Rogstad; Rory Siltala; Larry Kennedy

General Condition of Line (See Corrosion Inspection Report) SCC (Stress Crack Corrosion)	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 48'
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) -1.24	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 04/07/2010
--	---

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-031 Report Date: 04/07/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 750.09	Tract No. M-858-2	Stationing 15022+09
Purpose of Excavation Crack Tool Anamoly	Soil Type Peat & Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1502169.88	Reported Grade Depth or RPR 1.12
Corrosion Type SCC (Stress Crack Corrosion)	Max Depth .136	Anomaly Size 1.7	

Part B - Inspection Results

Condition of Outside of Pipe
SCC (Stress Crack Corrosion)
Comments
Girth Weld Cracking, Sleeve Required. See NDE Report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of Recoat is 15021+89
New Coating is : Densotherm Coating Length is : 48'

Pipe to Soil Potential : -1.24
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Rogstad,Sitala,Kennedy Date Inspected: 03/27/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 04/07/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-032
Report Date: 04/19/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/25/2010	Date Repaired 03/31/2010	Report Date 04/19/2010
Pipe Line Location - Pump Station or Milepost 741.56	Line No. 6B	Line Size 30	Special Cost Number AFE0891204109.MIC.B .10
Specific Location - Location from a known stationing on a Route Sheet 14571+85 - Location is 2242' D/S of Palms Road.			Route Sheet Number C-430
Quarter	Section 12	Township 5N	Range 15E
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-850-2A GPS Reading N. W. E.
Property Owner's Name and Address Wilkerson Rufus & Marilyn 7815 Rattle Run Road		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Rutting and General Ground Disturbance from Vehicles and Equipment. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 1 tight fit sleeve was welded to mainline footage of sleeve was 8'.
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Kennedy Mike(R) Julian Dave(L) WPS UF-49 Uphand Fillet Weld - Kennedy Mike(R) Julian Dave(L)
Welding Inspector Name Pfinde
NDE Personnel Joshua Rogstad; Rory Siltala; Gerald Barras

General Condition of Line (See Corrosion Inspection Report) SCC (Stress Crack Corrosion)	Type of Existing Coating Polyken Tape;TapeCoat 20	Type and Length of Repair Coating Densotherm - 14'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.357	Type of Sleeve tight fitting
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		Hydrotest Number	
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 04/19/2010	

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-032 Report Date: 04/19/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 741.56	Tract No. M-850-2A	Stationing 14571+85
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Hills	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1457183.86	Reported Grade Depth or RPR 1.13
Corrosion Type SCC (Stress Crack Corrosion)	Max Depth .167	Anomaly Size 1.1	

Part B - Inspection Results

Condition of Outside of Pipe
SCC (Stress Crack Corrosion)
Comments
SCC found. Sleeve required. See NDE report.

Existing Coating is : Polyken Tape; TapeCoat 20
Condition of Coating : Pipe was recoated
Comments : C/L of recoat is 14571+88
New Coating is : Densotherm Coating Length is : 14'

Pipe to Soil Potential : -1.357
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : John Parks Date Inspected: 04/10/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 04/19/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-033
Report Date: 04/14/2010

Report Type: Valve Installation

Location

Reporting Office Bay City	Date Discovered 04/14/2010	Date Repaired 04/14/2010	Report Date 04/14/2010
Pipe Line Location - Pump Station or Milepost N. Branch	Line No. 5	Line Size 20	Special Cost Number none
Specific Location - Location from a known stationing on a Route Sheet -			Drawing Number D-3.04-1785-20-185
Quarter	Section 24	Township 10N	Range 10E
Meridian/County 31	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M7-380-B
Property Owner's Name and Address Enbridge Energy Limited Partnership Enbridge Energy Limited Partnership 119 N. 25th Street East 119 N. 25th Street East		Property Tenant's Name and Address	

Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary)

Damage to Work Area: Removed pumphouse concrete floor in the affected area.

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Removed defective 5-UCV-31 20-600# Tom Wheatly check with no serial numbers and installed a new 20"600 # Cameron Tom Wheatly check valve with s/n 111624888-1 P/n 9D-81122-01	
Welding Procedure or Procedures with Welder Name(s)	
Welding Inspector Name	
NDE Personnel	

General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating
---------------------------	--------------------------	-----------------------------------

(See Corrosion Inspection Report) No Corrosion	Fusion Bonded Epoxy	Fusion Bonded Epoxy - 5'
Condition of Trench (dry, wet, etc.) wet	Cathodic Protection Potential (See Corrosion Inspection Report) -1.27	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		Hydrotest Number	
Remarks:			
Government Agency Notified	Individual contacted	Date	Time
Report Completed by and Signature Mick J Collier		Date Entered on System Drawings By Tech. Services 04/14/2010	

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-033 Report Date: 04/14/2010

Part A - General Information Concerning Excavation

Line Number and Size 5 - (20)	MilePost/Station N. Branch	Tract No. M7-380-B	Stationing
Purpose of Excavation Valve Installation	Soil Type Sand	Terrain Type Pumphouse	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type	Max Depth	Anomaly Size	

Part B - Inspection Results

Condition of Outside of Pipe
No Corrosion
Comments

Existing Coating is : **Fusion Bonded Epoxy**
Condition of Coating : **Satisfactory**
Comments :

New Coating is : **Fusion Bonded Epoxy** Coating Length is : **5'**

Pipe to Soil Potential : **-1.27**
Comments : **-1.27 volts**

Condition of Inside of Pipe : **No Corrosion**
Comments : **The inside of the pipe was inspected by me and had no corrosion or damages**

Inspected By : **M. Collier** Date Inspected: **04/14/2010**

Part C - Signatures

Pipe Line Foreman Mick J Collier	Date 04/14/2010
--	---------------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-034
Report Date: 04/26/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 02/15/2010	Date Repaired 02/17/2010	Report Date 04/26/2010
Pipe Line Location - Pump Station or Milepost 468.94	Line No. 6B	Line Size 30	Special Cost Number 0891204109; INC006
Specific Location - Location from a known stationing on a Route Sheet 177+43 - Location of site is 804' D/S of Centerline of Johnson Ditch			Route Sheet Number C-376
Quarter	Section 07	Township 35N	Range 8W
Meridian/County 68	Province/State IN	Lat & Long Location Lat. Long.	Tract No. N-604-1
Property Owner's Name and Address Lake County Parks & Rec Lake County Parks & Rec Board 2293 North Main Street 2293 North Main Street (219) 755-3685		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: we used existing driveway Damage to Work Area: Work was done in field full of marsh grass			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Pipe was recoated
Welding Procedure or Procedures with Welder Name(s)
Welding Inspector Name
NDE Personnel Doug Gronewold; Larry Kennedy

General Condition of Line (See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 42'
Condition of Trench (dry, wet, etc.) wet, flat bottom	Cathodic Protection Potential (See Corrosion Inspection Report) -1.433	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		Hydrotest Number	
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Jonathan Young		Date Entered on System Drawings By Tech. Services 04/26/2010	

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-034 Report Date: 04/26/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 468.94	Tract No. N-604-1	Stationing 177+43
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Swampy	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 2	Log Footage 17743.82	Reported Grade Depth or RPR 44%
Corrosion Type External	Max Depth .115	Anomaly Size 1.6 in	

Part B - Inspection Results

Condition of Outside of Pipe
Minor Corrosion. No repair sleeve or pipe replacement required.
Comments

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments :
New Coating is : Densotherm Coating Length is : 42'

Pipe to Soil Potential : -1.433
Comments :
Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Doug Gronewold, Larry Kennedy Date Inspected: 02/17/2010

Part C - Signatures

Pipe Line Foreman Jonathan Young	Date 04/26/2010
-------------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-035
Report Date: 06/07/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/16/2010	Date Repaired 03/26/2010	Report Date 06/07/2010
Pipe Line Location - Pump Station or Milepost 674.39	Line No. 6B	Line Size 30	Special Cost Number 0891204109
Specific Location - Location from a known stationing on a Route Sheet 11025+49 - Location of site is 972' D/S of the centerline of Clyde Road-11015+77			Route Sheet Number C-417
Quarter	Section 03	Township 3N	Range 5E
Meridian/County 40	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-788-4
Property Owner's Name and Address Riley Acres LLC Riley Acres LLC Attn: George F Riley Attn: George F Riley 32781 Eleven Mile Rd		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Driveway was existing, crew backdragged it to level any tires marks Damage to Work Area: Work was done in field of the tree farm, grass			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Pipe was blasted and recoated
Welding Procedure or Procedures with Welder Name(s)
Welding Inspector Name
NDE Personnel Douglas Sierra; Heidi Warnke

General Condition of Line (See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 47 FT
Condition of Trench (dry, wet, etc.) Dry, Flat bottom, clay mixed with some sand	Cathodic Protection Potential (See Corrosion Inspection Report) -1.22	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		Hydrotest Number	
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Jonathan Young		Date Entered on System Drawings By Tech. Services 06/07/2010	

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-035 Report Date: 06/07/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 674.39	Tract No. M-788-4	Stationing 11025+49
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1102529.19	Reported Grade Depth or RPR 64%
Corrosion Type External	Max Depth .169	Anomaly Size 1.1"	

Part B - Inspection Results

Condition of Outside of Pipe
Minor Corrosion. No repair sleeve or pipe replacement required.
Comments
Pipe recoated

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : Centerline of coating is 11025+49
New Coating is : Densotherm Coating Length is : 47 FT

Pipe to Soil Potential : -1.22
Comments : Taken when pipe was daylighted

Condition of Inside of Pipe : Steel not exposed
Comments : Not exposed

Inspected By : Sierra, Warnke Date Inspected: 03/29/2010

Part C - Signatures

Pipe Line Foreman Jonathan Young	Date 06/07/2010
-------------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-036
Report Date: 06/07/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/31/2010	Date Repaired 04/07/2010	Report Date 06/07/2010
Pipe Line Location - Pump Station or Milepost 637.29	Line No. 6B	Line Size 30	Special Cost Number 0891204109
Specific Location - Location from a known stationing on a Route Sheet 9066+12 - Location is 1095' D/S of the centerline of Johnston Road,			Route Sheet Number C-409
Quarter	Section 06	Township 1S	Range 1W
Meridian/County 38	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-755-4A
Property Owner's Name and Address Hunter Anthony G & Catherine Anthony G & Catherine Hunter 4006 West Territorial Rd 4006 West Territorial Rd (517) 851-4322		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: No damage Damage to Work Area: Work was done in landowners field, long grass			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Pipe sandblasted and recoated
Welding Procedure or Procedures with Welder Name(s)
Welding Inspector Name
NDE Personnel Douglas Sierra; Heidi Warnke

General Condition of Line (See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 45'
Condition of Trench (dry, wet, etc.) Wet, clay, flat bottom	Cathodic Protection Potential (See Corrosion Inspection Report) -1.44	Type of Sleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Jonathan Young	Date Entered on System Drawings By Tech. Services 06/07/2010
---	---

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-036 Report Date: 06/07/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 637.29	Tract No. M-755-4A	Stationing 9066+12
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Hills	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 16	Log Footage 906591.79	Reported Grade Depth or RPR 33%
Corrosion Type External	Max Depth .086	Anomaly Size 0.7"	

Part B - Inspection Results

Condition of Outside of Pipe

Minor Corrosion. No repair sleeve or pipe replacement required.

Comments

Pipe was blasted, tested and then recoated

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : Centerline of coating is 9066+12

New Coating is : Densotherm

Coating Length is : 45'

Pipe to Soil Potential : -1.44

Comments : Taken as soon as pipe was exposed

Condition of Inside of Pipe : Steel not exposed

Comments : Not exposed

Inspected By : Sierra, Warnke

Date Inspected: 04/10/2010

Part C - Signatures

Pipe Line Foreman
Jonathan Young

Date
06/07/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-037
Report Date: 04/26/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 04/11/2010	Date Repaired 04/21/2010	Report Date 04/26/2010
Pipe Line Location - Pump Station or Milepost 728.38	Line No. 6B	Line Size 30	Special Cost Number 0891204109.MIC006
Specific Location - Location from a known stationing on a Route Sheet 13875+81 - Location is 1610' U/S of C/L of North Ave.			Route Sheet Number C-428
Quarter	Section 11	Township 5N	Range 13E
Tract No. M-837-5A			
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
Property Owner's Name and Address Morelli G & Son Construction Inc G. Morelli & Son Construction, Inc. 22756 Macomb Industrial Drive 22756 Macomb Industrial Drive (586) 468-0697		Property Tenant's Name and Address Dehondt Kenneth & Becky Kenneth & Becky Dehondt 22550 McPhall Road Armada MI 48005 (586) 615-1530	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Ground rutting and compaction from vehicles and equipment. Damage to Work Area: General Ground Disturbance			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Pipe was blasted and recoated
Welding Procedure or Procedures with Welder Name(s)
Welding Inspector Name
NDE Personnel Joshua Rogstad; Rory Siltala; Gerald Barras

General Condition of Line (See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Type of Existing Coating Polyken Tape; TapeCoat 20	Type and Length of Repair Coating Densotherm - 46'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.21	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		Hydrotest Number	
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 04/26/2010	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-037 Report Date: 04/26/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 728.38	Tract No. M-837-5A	Stationing 13875+81
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1387561.74	Reported Grade Depth or RPR 1.17
Corrosion Type External	Max Depth .91	Anomaly Size .6	

Part B - Inspection Results

Condition of Outside of Pipe

Minor Corrosion. No repair sleeve or pipe replacement required.

Comments

See NDE Report

Existing Coating is : Polyken Tape;TapeCoat 20

Condition of Coating : Pipe was recoated

Comments : C/L of Recoat is 13875+81

New Coating is : Densotherm

Coating Length is : 46'

Pipe to Soil Potential : -1.21

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad, Siltala, Barras

Date Inspected: 04/13/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

04/26/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-038
Report Date: 04/26/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 04/11/2010	Date Repaired 04/21/2010	Report Date 04/26/2010
Pipe Line Location - Pump Station or Milepost 728.43	Line No. 6B	Line Size 30	Special Cost Number AFE#1091204123MIC0 06
Specific Location - Location from a known stationing on a Route Sheet 13878+31 - C/L of sleeve is 1360' U/S of C/L North Ave.			Route Sheet Number C-428
Quarter	Section 11	Township 5N	Range 13E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-837-5A
Property Owner's Name and Address Morelli G & Son Construction Inc G. Morelli & Son Construction, Inc. 22756 Macomb Industrial Drive 22756 Macomb Industrial Drive (586) 468-0697		Property Tenant's Name and Address Dehondt Kenneth & Becky Kenneth & Becky Dehondt 22550 McPhall Road Armada MI 48005 (586) 615-1530	

Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary)
Damage Accessing: Minor ground rutting and compaction from vehicles and equipment entering work area.
Damage to Work Area: General ground disturbance and farmer will not be able to plant for 2010 season.

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 2 Tight fit with 1 oversleeve. Sleeve total is 9.25'.	
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Julian Dave(R) Kennedy Mike(R)	

Matula Bob(L) Wilson Todd(L) WPS UF-60 Uphand Fillet Weld - Julian Dave(R) Kennedy Mike(R) Matula Bob(L) Wilson Todd(L) WPS UF-49 Uphand Fillet Weld - Julian Dave(R) Kennedy Mike(R) Matula Bob(L) Wilson Todd(L)
Welding Inspector Name P-Finde
NDE Personnel Gerald Barras; Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape;TapeCoat 20	Type and Length of Repair Coating Densotherm - 44'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) 1.219	Type of Sleeve tight fitting w/oversleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 04/26/2010	

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-038 Report Date: 04/26/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 728.43	Tract No. M-837-5A	Stationing 13878+31
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Peat & Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 3	Log Footage 1387825.36	Reported Grade Depth or RPR 1.07
Corrosion Type External	Max Depth .75	Anomaly Size 1.3	

Part B - Inspection Results

Condition of Outside of Pipe

Extensive Corrosion

Comments

Extensive corrosion . Sleeve requiredsee NDE report.

Existing Coating is : Polyken Tape;TapeCoat 20

Condition of Coating : Pipe was recoated

Comments : C/L of recoat is 13878+47

New Coating is : Densotherm

Coating Length is : 44'

Pipe to Soil Potential : 1.219

Comments : -1.129

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad,Barras,Siltala

Date Inspected: 04/22/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

04/26/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-039
Report Date: 05/03/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 04/13/2010	Date Repaired 05/24/2010	Report Date 05/03/2010
Pipe Line Location - Pump Station or Milepost 724.49	Line No. 6B	Line Size 30	Special Cost Number 1091204123.MIC006
Specific Location - Location from a known stationing on a Route Sheet 13670+65 - Location is 375' D/S of C/L of Romeo Plank Road.			Route Sheet Number C-427
Quarter	Section 08	Township 5N	Range 13E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-834-1
Property Owner's Name and Address Falker Mark & Robin Mark & Robin Falker 72730 McKay Road 72730 McKay Road (586) 752-2487		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor Ground Disturbance. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Pipe was blasted and Recoated		
Welding Procedure or Procedures with Welder Name(s)		
Welding Inspector Name		
NDE Personnel Joshua Rogstad; Rory Siltala		
General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating

(See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Polyken Tape	Densotherm - 44'
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) -1.215	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		Hydrotest Number	
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 05/03/2010	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-039 Report Date: 05/03/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 724.49	Tract No. M-834-1	Stationing 13670+65
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 6	Log Footage 13670+45	Reported Grade Depth or RPR 1.04
Corrosion Type External	Max Depth .103	Anomaly Size 1.7	

Part B - Inspection Results

Condition of Outside of Pipe

Minor Corrosion. No repair sleeve or pipe replacement required.

Comments

Minor corrosion found. No sleeve required See NDE Report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of Recoat is 13670+65

New Coating is : Densotherm

Coating Length is : 44'

Pipe to Soil Potential : -1.215

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad, Siltala, Hauch

Date Inspected: 05/25/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

05/03/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-040

Report Date: 05/03/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 05/20/2010	Date Repaired 05/24/2010	Report Date 05/03/2010	
Pipe Line Location - Pump Station or Milepost 724.48	Line No. 6B	Line Size 30	Special Cost Number 0891204109.MIC006	
Specific Location - Location from a known stationing on a Route Sheet 13669+77 - Location is 287' D/S of C/L of Romeo Plank Road.			Route Sheet Number C-427	
Quarter	Section 08	Township 5N	Range 13E	Tract No. M-834-1
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	GPS Location	GPS Reading N. W. E.
Property Owner's Name and Address Falker Mark & Robin Mark & Robin Falker 72730 McKay Road 72730 McKay Road (586) 752-2487		Property Tenant's Name and Address		
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor rutting and compaction from equipment and vehicles. Damage to Work Area: General Ground Disturbance.				

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 2-Tight Sleeves with an Over Sleeve was installed to Mainline. Total Footage of sleeve installed was 11.8'.
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Matula Bob(R) Wilson Todd(R) Julian Dave(L) Kennedy Mike(L) WPS UF-60 Uphand Fillet Weld - Matula Bob(R) Wilson Todd(R)

Julian Dave(L) Kennedy Mike(L) WPS UF-49 Uphand Fillet Weld - Matula Bob(R) Wilson Todd(R) Julian Dave(L) Kennedy Mike(L)
Welding Inspector Name Pfinde
NDE Personnel Rory Siltala; Joshua Rogstad

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 55'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.22	Type of Sleeve tight fitting w/oversleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 05/03/2010	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-040 Report Date: 05/03/2010

Part A - General Information Concerning Excavation

Line Number and Size	MilePost/Station	Tract No.	Stationing
6B - (30)	724.48	M-834-1	13669+77

Purpose of Excavation	Soil Type	Terrain Type
Corrosion Tool Anomaly	Clay	Cultivated

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
	12	1366935.85	1.14

Corrosion Type	Max Depth	Anomaly Size
SCC (Stress Crack Corrosion)	.60	.1

Part B - Inspection Results

Condition of Outside of Pipe

Extensive Corrosion

Comments

SCC with External Corrosion found. Sleeve required. See NDE Report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of Recoat is 13669+57.

New Coating is : Densotherm

Coating Length is : 55'

Pipe to Soil Potential : -1.22

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad, Siltala, Hauch

Date Inspected: 04/26/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

05/03/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: GT2008-011

Report Date: 06/04/2008

Report Type: Excavated to replace
compromised gaskets

Location

Reporting Office Griffith	Date Discovered 05/27/2008	Date Repaired 05/28/2008	Report Date 06/04/2008
Pipe Line Location - Pump Station or Milepost 519.70	Line No. 6B	Line Size 30	Special Cost Number 91153SC08152
Specific Location - Location from a known stationing on a Route Sheet 2857+07 - The affected gasket was located on the u/s side of the double faced blind located in the LOOP C-1 crossover to L-6B. A 34" 300# valve is connected to L-6B and reduces to 30" in the crossover. It was discovered that the wrong sized gasket had been installed likely resulting in the failure.			Route Sheet Number C-386
Quarter	Section 15	Township 38N	Range 1W
Meridian/County 71	Province/State IN	Lat & Long Location Lat. Long.	GPS Location
Property Owner's Name and Address Enbridge Energy Limited Partnership Enbridge Energy, Limited Partnership 119 North 25th Street East 119 North 25th Street East (715) 394-1571		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary)			

Leak

Describe Specific Nature and Cause of Break or Leak Former Carlisle Station Site/LOOP C-1 receiving trap area where crossover to mainline is located. LOOP C-1 is out of service and was double faced blinded the u/s side of the 34" 300# valve connected to mainline 30"			
Oil Out of Line - Barrels 3	Oil Recovered - Barrels 1	Net Loss - Barrels 2	Crude Type unknown
Batch Number unknown			
Disposition of Lost Oil Approximately 1 bbl was vacuumed and returned to pipeline and the remaining quantities were blended in with reclaimed soils and disposed into landfill.			
Name and Address of Person Reporting Leak Steven G. Booth, 8611 Beall Street, Dyer, IN 46311			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Failed gasket was replaced and flange torqued to specs for a 34" ANSI 300 # system.
--

Welding Procedure or Procedures with Welder Name(s)
Welding Inspector Name
NDE Personnel

General Condition of Line (See Corrosion Inspection Report) No Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating 2 Part Epoxy - 20'
Condition of Trench (dry, wet, etc.) wet	Cathodic Protection Potential (See Corrosion Inspection Report) not recorded	Type of Sleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
---	------------------

Remarks:

Government Agency Notified Yes	Individual contacted Carl Griffis- DOT-OPS	Date 05/27/2008	Time 12/30/1899 11:00:00 AM
--	--	---------------------------	---------------------------------------

Report Completed by and Signature Steve G Booth	Date Entered on System Drawings By Tech. Services 06/04/2008
---	--

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: GT2008-011 Report Date: 06/04/2008

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 519.70	Tract No. N-649-5F	Stationing 2857+07
Purpose of Excavation Excavated to replace compromised gaskets	Soil Type Clay	Terrain Type Wooded	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type Internal	Max Depth	Anomaly Size	

Part B - Inspection Results

Condition of Outside of Pipe
No Corrosion
Comments

Existing Coating is : Polyken Tape
Condition of Coating : Satisfactory
Comments :
New Coating is : 2 Part Epoxy Coating Length is : 20'

Pipe to Soil Potential : not recorded
Comments :

Condition of Inside of Pipe : Minor Corrosion. No repair sleeve or pipe replacement required.
Comments : See NDT Report located in Support Docs tab.

Inspected By : Steve Booth/JANX Date Inspected: 06/03/2008

Part C - Signatures

Pipe Line Foreman Steve G Booth	Date 06/04/2008
------------------------------------	--------------------



Corporate Office

PO Box 190
8500 E. Michigan Avenue
Parma, MI 49269-0190
Phone (517) 531-8210
Fax (517) 531-3911

PORTA SCAN INTERNAL CORROSION WALL LOSS TEST REPORT

Customer: Enbridge	Date: Tuesday, June 03, 2008
Job location: New Carlisle, IN	AFE/Job Number: n/a
Mile post Not available	Test Specimen: New Carlisle Station 30" Cross Over
Starting position from reference point: 18" Down Stream of Tee Girth Weld	Line/Part Number: A-Side
Ending from reference point: 30" Down Stream of Tee Girth Weld	Specimen Clock Position: Start: 4:00 End: 8:00
Comments: Light Internal Metal loss found @ 6:00 0.245" Lowest remaining wall	
JANX Operator And Level Travis L. Rogers Level II UT	

NDE Services • Destructive Testing • Heat Treating • Portable Stress Relieving • Welding Inspection

NJ Division • 33 Clawson Street • Piscataway, NJ 08854 • Phone (732) 748-0220 • Fax (732) 748-4344

Tennessee Division • 5200 Ridge Road • Joelton, TN 37080-8955 • Phone (615) 299-9942 • Fax (615) 299-9943



Corporate Office

PO Box 190
8500 E. Michigan Avenue
Parma, MI 49269-0190
Phone (517) 531-8210
Fax (517) 531-3911

PORTA SCAN INTERNAL CORROSION WALL LOSS TEST REPORT

Customer: Enbridge	Date: Tuesday, June 03, 2008
Job location: New Carlisle, IN	AFE/Job Number: n/a
Mile post Not available	Test Specimen: New Carlisle Station 30" Cross Over
Starting position from reference point: 30" Down Stream of Tee Girth Weld	Line/Part Number: A-Side
Ending from reference point: 42" Down Stream of Tee Girth Weld	Specimen Clock Position: Start: 4:00 End: 8:00
Comments: Light Internal Metal loss found @ 6:00 0.251" Lowest remaining wall	
JANX Operator And Level Travis L. Rogers Level II UT	

NDE Services • Destructive Testing • Heat Treating • Portable Stress Relieving • Welding Inspection

NJ Division • 33 Clawson Street • Piscataway, NJ 08854 • Phone (732) 748-0220 • Fax (732) 748-4344

Tennessee Division • 5200 Ridge Road • Joelton, TN 37080-8955 • Phone (615) 299-9942 • Fax (615) 299-9943



Corporate Office

PO Box 190
8500 E. Michigan Avenue
Parma, MI 49269-0190
Phone (517) 531-8210
Fax (517) 531-3911

PORTA SCAN INTERNAL CORROSION WALL LOSS TEST REPORT

Customer: Enbridge	Date: Tuesday, June 03, 2008
Job location: New Carlisle, IN	AFE/Job Number: n/a
Mile post Not available	Test Specimen: New Carlisle Station 30" Cross Over
Starting position from reference point: 42" Down Stream of Tee Girth Weld	Line/Part Number: A-Side
Ending from reference point: 54" Down Stream of Tee Girth Weld	Specimen Clock Position: Start: 4:00 End: 8:00
Comments: Light Internal Metal loss found @ 6:00 0.247" Lowest remaining wall	
JANX Operator And Level Travis L. Rogers Level II UT	

NDE Services • Destructive Testing • Heat Treating • Portable Stress Relieving • Welding Inspection

NJ Division • 33 Clawson Street • Piscataway, NJ 08854 • Phone (732) 748-0220 • Fax (732) 748-4344

Tennessee Division • 5200 Ridge Road • Joelton, TN 37080-8955 • Phone (615) 299-9942 • Fax (615) 299-9943



Corporate Office

PO Box 190
8500 E. Michigan Avenue
Parma, MI 49269-0190
Phone (517) 531-8210
Fax (517) 531-3911

PORTA SCAN INTERNAL CORROSION WALL LOSS TEST REPORT

Customer: Enbridge	Date: Tuesday, June 03, 2008
Job location: New Carlisle, IN	AFE/Job Number: n/a
Mile post Not available	Test Specimen: New Carlisle Station 30" Cross Over
Starting position from reference point: 54" Down Stream of Tee Girth Weld	Line/Part Number: A-Side
Ending from reference point: 66" Down Stream of Tee Girth Weld	Specimen Clock Position: Start: 4:00 End: 8:00
Comments: Light Internal Metal loss found @ 6:00 0.247" Lowest remaining wall	
JANX Operator And Level Travis L. Rogers Level II UT	

NDE Services • Destructive Testing • Heat Treating • Portable Stress Relieving • Welding Inspection

NJ Division • 33 Clawson Street • Piscataway, NJ 08854 • Phone (732) 748-0220 • Fax (732) 748-4344

Tennessee Division • 5200 Ridge Road • Joelton, TN 37080-8955 • Phone (615) 299-9942 • Fax (615) 299-9943



Corporate Office

PO Box 190
8500 E. Michigan Avenue
Parma, MI 49269-0190
Phone (517) 531-8210
Fax (517) 531-3911

PORTA SCAN INTERNAL CORROSION WALL LOSS TEST REPORT

Customer: Enbridge	Date: Tuesday, June 03, 2008
Job location: New Carlisle, IN	AFE/Job Number: n/a
Mile post Not available	Test Specimen: New Carlisle Station 30" Cross Over
Starting position from reference point: 6" Down Stream of Tee Girth Weld	Line/Part Number: A-Side Going down stream of the valve
Ending from reference point: 18" Down Stream of Tee Girth Weld	Specimen Clock Position: Start: 4:00 End: 8:00
Comments: Light Internal Metal loss found @ 6:00 0.240" Lowest remaining wall	
JANX Operator And Level Travis L. Rogers Level II UT	

NDE Services • Destructive Testing • Heat Treating • Portable Stress Relieving • Welding Inspection

NJ Division • 33 Clawson Street • Piscataway, NJ 08854 • Phone (732) 748-0220 • Fax (732) 748-4344

Tennessee Division • 5200 Ridge Road • Joelton, TN 37080-8955 • Phone (615) 299-9942 • Fax (615) 299-9943



Corporate Office

PO Box 190
8500 E. Michigan Avenue
Parma, MI 49269-0190
Phone (517) 531-8210
Fax (517) 531-3911

PORTA SCAN INTERNAL CORROSION WALL LOSS TEST REPORT

Customer: Enbridge	Date: Tuesday, June 03, 2008
Job location: New Carlisle, IN	AFE/Job Number: n/a
Mile post Not available	Test Specimen: New Carlisle Station 30" Cross Over
Starting position from reference point: 66" Down Stream of Tee Girth Weld	Line/Part Number: A-Side
Ending from reference point: 78" Down Stream of Tee Girth Weld	Specimen Clock Position: Start: 4:00 End: 8:00
Comments: Light Internal Metal loss found @ 6:00 0.247" Lowest remaining wall	
JANX Operator And Level Travis L. Rogers Level II UT	

NDE Services • Destructive Testing • Heat Treating • Portable Stress Relieving • Welding Inspection

NJ Division • 33 Clawson Street • Piscataway, NJ 08854 • Phone (732) 748-0220 • Fax (732) 748-4344

Tennessee Division • 5200 Ridge Road • Joelton, TN 37080-8955 • Phone (615) 299-9942 • Fax (615) 299-9943



Corporate Office

PO Box 190
8500 E. Michigan Avenue
Parma, MI 49269-0190
Phone (517) 531-8210
Fax (517) 531-3911

PORTA SCAN INTERNAL CORROSION WALL LOSS TEST REPORT

Customer: Enbridge	Date: Tuesday, June 03, 2008
Job location: New Carlisle, IN	AFE/Job Number: n/a
Mile post Not available	Test Specimen: New Carlisle Station 30" Cross Over
Starting position from reference point: 18" Down Stream of Tee Girth Weld	Line/Part Number: B-Side
Ending from reference point: 30" Down Stream of Tee Girth Weld	Specimen Clock Position: Start: 4:00 End: 8:00
Comments: Light Internal Metal loss found @ 6:00 0.236" Lowest remaining wall Coating not completely removed	
JANX Operator And Level Travis L. Rogers Level II UT	

NDE Services • Destructive Testing • Heat Treating • Portable Stress Relieving • Welding Inspection

NJ Division • 33 Clawson Street • Piscataway, NJ 08854 • Phone (732) 748-0220 • Fax (732) 748-4344

Tennessee Division • 5200 Ridge Road • Joelton, TN 37080-8955 • Phone (615) 299-9942 • Fax (615) 299-9943



Corporate Office

PO Box 190
8500 E. Michigan Avenue
Parma, MI 49269-0190
Phone (517) 531-8210
Fax (517) 531-3911

PORTA SCAN INTERNAL CORROSION WALL LOSS TEST REPORT

Customer: Enbridge	Date: Tuesday, June 03, 2008
Job location: New Carlisle, IN	AFE/Job Number: n/a
Mile post Not available	Test Specimen: New Carlisle Station 30" Cross Over
Starting position from reference point: 30" Down Stream of Tee Girth Weld	Line/Part Number: B-Side
Ending from reference point: 42" Down Stream of Tee Girth Weld	Specimen Clock Position: Start: 4:00 End: 8:00
Comments: Light Internal Metal loss found @ 6:00 0.243" Lowest remaining wall Coating not completely removed	
JANX Operator And Level Travis L. Rogers Level II UT	

NDE Services • Destructive Testing • Heat Treating • Portable Stress Relieving • Welding Inspection

NJ Division • 33 Clawson Street • Piscataway, NJ 08854 • Phone (732) 748-0220 • Fax (732) 748-4344

Tennessee Division • 5200 Ridge Road • Joelton, TN 37080-8955 • Phone (615) 299-9942 • Fax (615) 299-9943



Corporate Office

PO Box 190
8500 E. Michigan Avenue
Parma, MI 49269-0190
Phone (517) 531-8210
Fax (517) 531-3911

PORTA SCAN INTERNAL CORROSION WALL LOSS TEST REPORT

Customer: Enbridge	Date: Tuesday, June 03, 2008
Job location: New Carlisle, IN	AFE/Job Number: n/a
Mile post Not available	Test Specimen: New Carlisle Station 30" Cross Over
Starting position from reference point: 42" Down Stream of Tee Girth Weld	Line/Part Number: B-Side
Ending from reference point: 54" Down Stream of Tee Girth Weld	Specimen Clock Position: Start: 4:00 End: 8:00
Comments: Light Internal Metal loss found @ 6:00 0.248" Lowest remaining wall	
JANX Operator And Level Travis L. Rogers Level II UT	

NDE Services • Destructive Testing • Heat Treating • Portable Stress Relieving • Welding Inspection

NJ Division • 33 Clawson Street • Piscataway, NJ 08854 • Phone (732) 748-0220 • Fax (732) 748-4344

Tennessee Division • 5200 Ridge Road • Joelton, TN 37080-8955 • Phone (615) 299-9942 • Fax (615) 299-9943



Corporate Office

PO Box 190
8500 E. Michigan Avenue
Parma, MI 49269-0190
Phone (517) 531-8210
Fax (517) 531-3911

PORTA SCAN INTERNAL CORROSION WALL LOSS TEST REPORT

Customer: Enbridge	Date: Tuesday, June 03, 2008
Job location: New Carlisle, IN	AFE/Job Number: n/a
Mile post Not available	Test Specimen: New Carlisle Station 30" Cross Over
Starting position from reference point: 54" Down Stream of Tee Girth Weld	Line/Part Number: B-Side
Ending from reference point: 66" Down Stream of Tee Girth Weld	Specimen Clock Position: Start: 4:00 End: 8:00
Comments: Light Internal Metal loss found @ 6:00 0.242" Lowest remaining wall	
JANX Operator And Level Travis L. Rogers Level II UT	

NDE Services • Destructive Testing • Heat Treating • Portable Stress Relieving • Welding Inspection

NJ Division • 33 Clawson Street • Piscataway, NJ 08854 • Phone (732) 748-0220 • Fax (732) 748-4344

Tennessee Division • 5200 Ridge Road • Joelton, TN 37080-8955 • Phone (615) 299-9942 • Fax (615) 299-9943



Corporate Office

PO Box 190
8500 E. Michigan Avenue
Parma, MI 49269-0190
Phone (517) 531-8210
Fax (517) 531-3911

PORTA SCAN INTERNAL CORROSION WALL LOSS TEST REPORT

Customer: Enbridge	Date: Tuesday, June 03, 2008
Job location: New Carlisle, IN	AFE/Job Number: n/a
Mile post Not available	Test Specimen: New Carlisle Station 30" Cross Over
Starting position from reference point: 6" Down Stream of Tee Girth Weld	Line/Part Number: B- Side Going towards the Flange
Ending from reference point: 18" Down Stream of Tee Girth Weld	Specimen Clock Position: Start: 4:00 End: 8:00
Comments: Light Internal Metal loss found @ 6:00 0.243" Lowest remaining wall Coating not completely removed	
JANX Operator And Level Travis L. Rogers Level II UT	

NDE Services • Destructive Testing • Heat Treating • Portable Stress Relieving • Welding Inspection

NJ Division • 33 Clawson Street • Piscataway, NJ 08854 • Phone (732) 748-0220 • Fax (732) 748-4344

Tennessee Division • 5200 Ridge Road • Joelton, TN 37080-8955 • Phone (615) 299-9942 • Fax (615) 299-9943



Corporate Office

PO Box 190
8500 E. Michigan Avenue
Parma, MI 49269-0190
Phone (517) 531-8210
Fax (517) 531-3911

PORTA SCAN INTERNAL CORROSION WALL LOSS TEST REPORT

Customer: Enbridge	Date: Tuesday, June 03, 2008
Job location: New Carlisle, IN	AFE/Job Number: n/a
Mile post Not available	Test Specimen: New Carlisle Station 30" Cross Over
Starting position from reference point: 66" Down Stream of Tee Girth Weld	Line/Part Number: B-Side
Ending from reference point: 78" Down Stream of Tee Girth Weld	Specimen Clock Position: Start: 4:00 End: 8:00
Comments: Light Internal Metal loss found @ 6:00 0.212" Lowest remaining wall	
JANX Operator And Level Travis L. Rogers Level II UT	

NDE Services • Destructive Testing • Heat Treating • Portable Stress Relieving • Welding Inspection

NJ Division • 33 Clawson Street • Piscataway, NJ 08854 • Phone (732) 748-0220 • Fax (732) 748-4344

Tennessee Division • 5200 Ridge Road • Joelton, TN 37080-8955 • Phone (615) 299-9942 • Fax (615) 299-9943

Enbridge Energy Company Permanent Repair Report

EEC Report Number: GT2008-013
Report Date: 08/01/2008

Report Type: Stopple Isolation to remove piping, disconnect from Loop C-1 & install new piping

Location

Reporting Office Griffith	Date Discovered	Date Repaired 07/30/2008	Report Date 08/01/2008
Pipe Line Location - Pump Station or Milepost 499.39	Line No. 6B	Line Size 30	Special Cost Number 0591218N01
<p>Specific Location - Location from a known stationing on a Route Sheet 1784+99 - Loop C-1 crossovers were disconnected from 6B mainline and blinded. Contractors fabricated new piping with flanges to re-connect the suction and discharge lines. (4) tie-in butt welds were made. The upstream stopple T has (2) damaged LOR Segments (removed) and it is recommended to NOT use this fitting unless all pressure is removed from the line. The segment assemblies were removed and pipe plugs placed in them. They are located on the North side of the pipe and are larger than the caps used when the segments are inserted. DO NOT REMOVE THEM. The downstream stopple T is new 2008.</p> <p>NOTE to Drafting: Check valve at 1785+01 was removed and replaced by a 30" gate valve at 1784+99 (new MLV- 499.39). The gate valve at 1785+25 was also removed.</p>			Route Sheet Number 382
Quarter	Section 27	Township 37N	Range 4W
Meridian/County 70	Province/State IN	Lat & Long Location Lat. Long.	GPS Location
Property Owner's Name and Address Enbridge Energy Limited Partnership Enbridge Energy, Limited Partnership 119 North 25th Street East 119 North 25th Street East (715) 394-1571		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary)			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			

Name and Address of Person Reporting Leak	Was a Report Fee Paid? No
---	------------------------------

Repair

<p>Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation)</p> <p>Plm installed a straight run of 30" pipe with flanged suction and discharge runs to the valves using (4) butt welds. Fabrication was built by Charps. All Weld + fittings and Stopple 1785+41 were removed with cut out. Loop C-1 connection was removed and loop valves blinded. (3) NEW 2" TDW TORs welded to line for pressure transmitters and stopple equalization. NOTE: Stopple 1784+66 is permanently disabled due to damaged segments. This fitting is not to be used under any circumstance and should be removed during any further Stopple work in this section in the future. Also, the new pipe/fittings Heat #'s and MTR's are located in the Engineering Project Book now in Technical Records.</p>
<p>Welding Procedure or Procedures with Welder Name(s)</p> <p>WPS UB-47 Uphand Butt Weld - Charpentier Ken(R) Himango Jay(R) Krause Michael K(R) Matula Robert(R) Losiniecki David A(L) Seacotte Joseph C(L) Stai Curt(L) Vigorin Ralph(L)</p> <p>WPS DB-48 Downhand Butt Weld - Charpentier Ken(R) Himango Jay(R) Krause Michael K(R) Matula Robert(R) Losiniecki David A(L) Seacotte Joseph C(L) Stai Curt(L) Vigorin Ralph(L)</p> <p>WPS LB-32 Longitudinal Butt Weld - Charpentier Cody(R) Charpentier Ken(L)</p> <p>WPS UF-49 Uphand Fillet Weld - Charpentier Cody(R) Charpentier Ken(L)</p> <p>WPS UN-67 US Nozzle Weld - Losiniecki David A(R) Losiniecki David A(L)</p>
<p>Welding Inspector Name</p> <p>Calumet Testing Services Inc.</p>
<p>NDE Personnel</p> <p>Anthony Perez; Michael Barajas; Terry Wasieleski; Justin Pappas; Stuart Gillespie; Mark Montpetit</p>

<p>General Condition of Line (See Corrosion Inspection Report)</p> <p>No Corrosion</p>	<p>Type of Existing Coating</p> <p>Polyken Tape</p>	<p>Type and Length of Repair Coating</p> <p>2 Part epoxy on Tees; Densotherm on pipe; Denso Wax wrap on flanges - 80'</p>
<p>Condition of Trench (dry, wet, etc.)</p> <p>wet bottom</p>	<p>Cathodic Protection Potential (See Corrosion Inspection Report)</p> <p>Not recorded</p>	<p>Type of Sleeve</p>

LPL Personnel must also complete a Corrosion Inspection Report

Other

<p>Was there any Stock Pipe Installed? (If yes, attach hydrotest records)</p> <p>No</p>	<p>Hydrotest Number</p> <p>555-06-183; 555-07-279; 555-07-394; 555-08-557; 555-08-775; 555-08-792</p>
---	---

Remarks:

Charps performed all of the fabricating/hydrotesting for this work. Justin Hoffman retains hydro records

Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Steve G Booth	Date Entered on System Drawings By Tech. Services 08/01/2008		

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: GT2008-013 Report Date: 08/01/2008

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 499.39	Tract No. N-631-7S	Stationing 1784+99
-----------------------------------	----------------------------	-----------------------	-----------------------

Purpose of Excavation Stopple Isolation to remove piping, disconnect from Loop C-1 & install new piping	Soil Type Sand & Clay	Terrain Type Swampy
--	--------------------------	------------------------

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
-------------	----------------	-------------	-----------------------------

Corrosion Type	Max Depth	Anomaly Size
----------------	-----------	--------------

Part B - Inspection Results

Condition of Outside of Pipe
No Corrosion

Comments
Polyken was bonded very well in this area and there were no visible signs of corrosion on any of the pipe including the crossovers to Loop C-1.

Existing Coating is : Polyken Tape
Condition of Coating : Satisfactory
Comments : Coating was bonded very well.
New Coating is : 2 Part epoxy on Tees; Densotherm on pipe; Denso Wax wrap on flanges
Coating Length is : 80'

Pipe to Soil Potential : Not recorded
Comments :

Condition of Inside of Pipe : No Corrosion
Comments : Mainline pipe showed no signs of corrosion. Additionally, the Loop connections contained a large amount of solids and did not show any signs of internal corrosion. They are now removed. Mainline piping removed also did not show any signs of corrosion. We performed (1) mainline 30" tap and the coupon showed no signs of corrosion.

Inspected By : Steve Booth Date Inspected: 07/30/2008

Part C - Signatures

Pipe Line Foreman Steve G Booth	Date 08/01/2008
------------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-012
 Report Date: 03/14/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 02/25/2010	Date Repaired 02/28/2010	Report Date 03/14/2010
Pipe Line Location - Pump Station or Milepost 730.17	Line No. 6B	Line Size 30	Special Cost Number 0891204109MIC006
Specific Location - Location from a known stationing on a Route Sheet 13970+57 - Location is 3310 ft D/S of the C/L of Omo Rd			Route Sheet Number C-428
Quarter	Section 07	Township 5N	Range 14E
Tract No. M-839-3			
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
		GPS Reading N. W. E.	
Property Owner's Name and Address Spencer Edward D Edward D Spencer J Spencer J Spencer 26649 School Section (586) 784-5814		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Rutting in drive access, due to frost coming out of the ground and multiple vehicles and equipment crossing noted tract. Damage to Work Area: Extensive ground disturbance, do to swampy area.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Pipe was blasted and recoated	
Welding Procedure or Procedures with Welder Name(s)	
Welding Inspector Name	
NDE Personnel Joshua Rogstad; Rory Siltala; Douglas Sierra; Larry Kennedy; Heidi Warnke	

General Condition of Line (See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Type of Existing Coating Polyken Tape;TapeCoat 20	Type and Length of Repair Coating Densotherm - 10'
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) -1.2	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 03/14/2010		

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-012 Report Date: 03/14/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 730.17	Tract No. M-839-3	Stationing 13970+57
Purpose of Excavation Corrosion Tool Anomaly		Soil Type Peat & Clay	Terrain Type Lowland

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1397020.19	Reported Grade Depth or RPR 1.02
Corrosion Type External	Max Depth .162	Anomaly Size 4.8	

Part B - Inspection Results

Condition of Outside of Pipe

Minor Corrosion. No repair sleeve or pipe replacement required.

Comments

Minor Corrosion Found, See NDE report.

Existing Coating is : Polyken Tape;TapeCoat 20

Condition of Coating : Pipe was recoated

Comments : C/L of Recoat is 13970+57

New Coating is : Densotherm

Coating Length is : 10'

Pipe to Soil Potential : -1.2

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad/Sitala/Sierra

Date Inspected: 02/28/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

03/14/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-013
Report Date: 03/22/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/03/2010	Date Repaired 03/05/2010	Report Date 03/22/2010
Pipe Line Location - Pump Station or Milepost 727.69	Line No. 6B	Line Size 30	Special Cost Number 0891204109MIC006
Specific Location - Location from a known stationing on a Route Sheet 13839+47 - Location is 5033' D/S of C/L of Coon Creek Road.			Route Sheet Number C-427
Quarter	Section 11	Township 5N	Range 13E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-837-1
Property Owner's Name and Address Depauw Katherine Katherine Depauw 2402 Queen Dr 2402 Queen Dr (586) 784-9363		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: General Ground Disturbance due to vehicles and equipment. Severe rutting occurred from rain and the frost coming out of the ground. Tenant will need to be compensated to refill and for possible crop losses Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) A 3.77' of tight sleeve was added to Mainline.
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Jeske Michael F(R) Losiniecki David A(L) WPS UF-49 Uphand Fillet Weld - Jeske Michael F(R) Morang Daniel R(L) WPS UF-49 Uphand Fillet Weld - Fleming Ronald W(R)

Morang Daniel R(L)
Welding Inspector Name Pfinde
NDE Personnel Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 44'
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) -1.118	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
---	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
---	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 03/22/2010
---	--

Enbridge Energy Company Corrosion Inspection Report
--

EEC Report Number: BC2010-013 Report Date: 03/22/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 727.69	Tract No. M-837-1	Stationing 13839+47
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Peat & Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1383913.14	Reported Grade Depth or RPR 1.11
Corrosion Type External	Max Depth .177	Anomaly Size 1.3"	

Part B - Inspection Results

Condition of Outside of Pipe

Extensive Corrosion

Comments

External Corrosion was found, See NDE Report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of Recoat was 13839+33

New Coating is : Densotherm

Coating Length is : 44'

Pipe to Soil Potential : -1.118

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments : See NDE Report

Inspected By : John Parks

Date Inspected: 03/11/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

03/22/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-014
Report Date: 03/25/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 02/24/2010	Date Repaired 03/01/2010	Report Date 03/25/2010
Pipe Line Location - Pump Station or Milepost 730.01; 730.02	Line No. 6B; 6B	Line Size 30; 30	Special Cost Number 0891204109MIC006
Specific Location - Location from a known stationing on a Route Sheet 13961+88; 13962+28 - U/S Location 2441' D/S of C/L of Omo Road. D/S Location is 2481' D/S of C/L of Omo Road. (two separate sleeves)			Route Sheet Number C-428
Quarter 34	Section 07	Township 5N	Range 14E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
Property Owner's Name and Address Stankewitz Betty M Betty M. Stankewitz 67839 Pinewood Lane 67839 Pinewood Lane (586) 727-5518 (Henry Hicks)		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Severe rutting, do to wet conditions and frost in the ground. Damages will be paid. Damage to Work Area: Damges to Alfalfa crop.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Two separate Tight fit Sleeves were installed, one 3.44 ft and one 2.5 ft. in two locations. Same recoat was used for both.
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Jeske Michael F(R) Fleming Ronald W(L) WPS UF-49 Uphand Fillet Weld - Jeske Michael F(R) Fleming Ronald W(L)

WPS LB-32 Longitudinal Butt Weld - Christensen Ben(R) Charpentier Cody(L) WPS UF-49 Uphand Fillet Weld - Christensen Ben(R) Charpentier Cody(L)
Welding Inspector Name Pfinde
NDE Personnel Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 49'
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) -1.18	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 03/25/2010		

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-014 Report Date: 03/25/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B; 6B - (30; 30)	MilePost/Station 730.01; 730.02	Tract No. M-839-2	Stationing 13961+88; 13962+28
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Peat & Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1396188.71	Reported Grade Depth or RPR 1.09
Corrosion Type External	Max Depth .201	Anomaly Size .8	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments
Extensive Corrosion was found, See NDE report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of recoat is 13962+08.
New Coating is : Densotherm Coating Length is : 49'

Pipe to Soil Potential : -1.18
Comments :

Condition of Inside of Pipe : **Steel not exposed**
Comments :

Inspected By : **Jim Schott** Date Inspected: 03/10/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 03/25/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-015
Report Date: 03/26/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/11/2010	Date Repaired 03/16/2010	Report Date 03/26/2010
Pipe Line Location - Pump Station or Milepost 750.79	Line No. 6B	Line Size 30	Special Cost Number 0891204109MIC006
Specific Location - Location from a known stationing on a Route Sheet 15059+06 - Location is 786' D/S of C/L of Huron Blvd.			Route Sheet Number C-432
Quarter	Section 32	Township 6N	Range 17E
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-858-8
Property Owner's Name and Address Marysville City Of City Of Marysville 1111 Delaware 1111 Delaware PO Box 389 (810) 364-6613		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor rutting and ground disturbance from vehicles and equipment. Some further restoration will be done when ground dries up. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) One tight fit sleeve was installed on mainline. Total footage of sleeve installed was 2.98'.	
Welding Procedure or Procedures with Welder Name(s) WPS UF-49 Uphand Fillet Weld - Kennedy Mike(R) Wilson Todd(L) WPS LB-32 Longitudinal Butt Weld - Kennedy Mike(R) Wilson Todd(L)	
Welding Inspector Name	

Josh Rodstad NDE Personnel Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) SCC (Stress Crack Corrosion)	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 44'
Condition of Trench (dry, wet, etc.) Benched Clay, some water	Cathodic Protection Potential (See Corrosion Inspection Report) -1.19	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
---	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
---	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 03/26/2010
---	--

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-015 Report Date: 03/26/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 750.79	Tract No. M-858-8	Stationing 15059+06
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Peat & Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1505906.39	Reported Grade Depth or RPR 1.11
Corrosion Type External	Max Depth .145	Anomaly Size 1.4"	

Part B - Inspection Results

Condition of Outside of Pipe
SCC (Stress Crack Corrosion)
Comments
Cracking in Girth Weld, See NDE Report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of new coating is 15059+26.
New Coating is : Densotherm Coating Length is : 44'

Pipe to Soil Potential : -1.19
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : John Parks Date Inspected: 03/17/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 03/26/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-016
Report Date: 03/23/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/03/2010	Date Repaired 03/05/2010	Report Date 03/23/2010
Pipe Line Location - Pump Station or Milepost 727.66	Line No. 6B	Line Size 30	Special Cost Number 0891204109MIC006
Specific Location - Location from a known stationing on a Route Sheet 13838+04 - Location is 4890' D/S of C/L of Coon Creek Rd.			Route Sheet Number C-427
Quarter	Section 11	Township 5N	Range 13E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-837-1
Property Owner's Name and Address Depauw Katherine Katherine Depauw 2402 Queen Dr 2402 Queen Dr (586) 784-9363		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Ground Disturbance from Vehicles and Equipment. Severe rutting do to wet conditions and ground thaw. Tenant will need to retil and will be compensated. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Three tight fit sleeves with two over sleeves was installed for a total of 21.2'.	
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Jeske Michael F(R) Fleming Ronald W(L) WPS LB-32 Longitudinal Butt Weld - Losiniecki David A(R) Morang Daniel R(L) WPS UF-60 Uphand Fillet Weld - Jeske Michael F(R) Morang Daniel R(L)	

WPS UF-60 Uphand Fillet Weld - Losiniecki David A(R) Fleming Ronald W(L) WPS UF-49 Uphand Fillet Weld - Jeske Michael F(R) Morang Daniel R(L) WPS UF-49 Uphand Fillet Weld - Losiniecki David A(R) Fleming Ronald W(L)
Welding Inspector Name Pfinde
NDE Personnel Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape; Densotherm	Type and Length of Repair Coating Densotherm - 35'
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) -1.117	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 03/23/2010	

Enbridge Energy Company Corrosion Inspection Report
--

EEC Report Number: BC2010-016 Report Date: 03/23/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 727.66	Tract No. M-837-1	Stationing 13838+04
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Peat & Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1383794.01	Reported Grade Depth or RPR .95
Corrosion Type External	Max Depth .221	Anomaly Size .7	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
 Comments
 Extensive Corrosion was found, Please see NDE report.

Existing Coating is : Polyken Tape;Densotherm
 Condition of Coating : Pipe was recoated
 Comments : C/L of recoat is 13838+14
 New Coating is : Densotherm Coating Length is : 35'

Pipe to Soil Potential : -1.117
 Comments :

Condition of Inside of Pipe : Steel not exposed
 Comments : See NDE Report.

Inspected By : John Parks Date Inspected: 03/12/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 03/23/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-018
Report Date: 03/27/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 02/22/2010	Date Repaired 03/02/2010	Report Date 03/27/2010
Pipe Line Location - Pump Station or Milepost 735.55	Line No. 6B	Line Size 30	Special Cost Number AFE0891204109 MIC006
Specific Location - Location from a known stationing on a Route Sheet 14254+33 - Location is 89' U/S of C/L of Andrews rd.			Route Sheet Number C-429
Quarter	Section 12	Township 5N	Range 14E
Meridian/County 34	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-844-2
Property Owner's Name and Address Rumenapp Frank Etal Frank Rumenapp, Etal 60700 New Haven Rd 60700 New Haven Rd (586) 727-6497		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor rutting and ground disturbance due to vehicles and equipment. Damage to Work Area: General ground disturbance and possible crop damage. area is very soft due to heavy rain.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 1 tight fit sleeve was installed on mainline for total of 8'
Welding Procedure or Procedures with Welder Name(s) WPS UF-49 Uphand Fillet Weld - Jeske Michael F(R) Fleming Ronald W(L) WPS UF-49 Uphand Fillet Weld - Morang Daniel R(R) Losiniecki David A(L) WPS LB-32 Longitudinal Butt Weld - Jeske Michael F(R)

Morang Daniel R(R) Fleming Ronald W(L) Losiniecki David A(L)
Welding Inspector Name P-Finde
NDE Personnel Joshua Rogstad; Rory Siltala; Heidi Warnke; Larry Kennedy

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 62'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.129	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 03/27/2010
--	---

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-018 Report Date: 03/27/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 735.55	Tract No. M-844-2	Stationing 14254+33
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Peat & Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1425395.83	Reported Grade Depth or RPR .98
Corrosion Type External	Max Depth .195	Anomaly Size 1.7	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments
Extensive corrosion found, see NDE report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of recoat is 14254+25.
New Coating is : Densotherm Coating Length is : 62'

Pipe to Soil Potential : -1.129
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Rogstad,Sitala,Warnke,Kennedy Date Inspected: 03/09/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 03/27/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-019
 Report Date: 04/08/2010
 Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/29/2010	Date Repaired 03/31/2010	Report Date 04/08/2010
Pipe Line Location - Pump Station or Milepost 737.32	Line No. 6B	Line Size 30	Special Cost Number 0891204109.MIC006
Specific Location - Location from a known stationing on a Route Sheet 14347+86 - Location of C/L of recoat is 1040' U/S of C/L of Bauman Road.			Route Sheet Number C-429
Quarter	Section 08	Township 5N	Range 15E
Tract No. M-846-1	Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.
Property Owner's Name and Address Loehnis Almer Almer & Gadys Loehnis 9922 Meskill Road 9922 Meskill Road (586) 779-2980 Almer		Property Tenant's Name and Address Walter Bruno	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Rutting and ground disturbance from equipment. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Pipe was blasted and recoated	
Welding Procedure or Procedures with Welder Name(s)	
Welding Inspector Name	
NDE Personnel Rory Siltala; Joshua Rogstad; Gerald Barras	

General Condition of Line (See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 44'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.313	Type of Sleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 04/08/2010
--	---

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-019 Report Date: 04/08/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 737.32	Tract No. M-846-1	Stationing 14347+86
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1434766.20	Reported Grade Depth or RPR 1.13
Corrosion Type External	Max Depth .154	Anomaly Size .7	

Part B - Inspection Results

Condition of Outside of Pipe

Minor Corrosion. No repair sleeve or pipe replacement required.

Comments

See NDE Report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of Recoat is 14347+86.

New Coating is : Densotherm

Coating Length is : 44'

Pipe to Soil Potential : -1.313

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Sitala/Rogstad/Barras

Date Inspected: 04/05/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

04/08/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-020
Report Date: 04/10/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/17/2010	Date Repaired 03/25/2010	Report Date 04/10/2010
Pipe Line Location - Pump Station or Milepost 741.37	Line No. 6B	Line Size 30	Special Cost Number 0891204109.MIC006
Specific Location - Location from a known stationing on a Route Sheet 14561+64 - Location is 1221' D/S of C/L of Palms Road.			Route Sheet Number C-430
Quarter	Section 13	Township 5N	Range 15E
Tract No. M-850-7A			
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	GPS Location GPS Reading N. W. E.
Property Owner's Name and Address Otsikita Council Of Girl Scouts Otsikita Council Of Girl Scouts 42804 Garfield Road # 366 42804 Garfield Road # 366 (810) 977-8310		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Rutting from Equipment and Vehicles. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 5.42' of Tight fit sleeve was installed to 6B Mainline.	
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Kennedy Mike(R) Julian Dave(L) WPS UF-49 Uphand Fillet Weld - Kennedy Mike(R) Julian Dave(L)	
Welding Inspector Name Pfinde	
NDE Personnel	

Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) SCC (Stress Crack Corrosion)	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 44'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.4	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
---	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
---	----------------------	------	------

Report Completed by and Signature Justin Anderson	Date Entered on System Drawings By Tech. Services 04/10/2010
---	--

Enbridge Energy Company Corrosion Inspection Report
--

EEC Report Number: BC2010-020 Report Date: 04/10/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 741.37	Tract No. M-850-7A	Stationing 14561+64
Purpose of Excavation Corrosion Tool Anamoly		Soil Type Clay	Terrain Type Flat

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1456125.28	Reported Grade Depth or RPR 1.1
Corrosion Type SCC (Stress Crack Corrosion)	Max Depth .115	Anomaly Size .1	

Part B - Inspection Results

Condition of Outside of Pipe
 SCC (Stress Crack Corrosion)
 Comments
 Girth Weld Cracking found, See NDE Report.

Existing Coating is : Polyken Tape
 Condition of Coating : Pipe was recoated
 Comments : C/L of Recoat is 14561+45.
 New Coating is : Densotherm Coating Length is : 44'

Pipe to Soil Potential : -1.4
 Comments :

Condition of Inside of Pipe : Steel not exposed
 Comments :

Inspected By : Josh Rogstad, Rory Siltala Date Inspected: 03/26/2010

Part C - Signatures

Pipe Line Foreman Justin Anderson	Date 04/10/2010
--------------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-021
Report Date: 04/08/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/24/2010	Date Repaired 03/28/2010	Report Date 04/08/2010
Pipe Line Location - Pump Station or Milepost 743.12	Line No. 6B	Line Size 30	Special Cost Number AFE0891204109.MIC00 6
Specific Location - Location from a known stationing on a Route Sheet 14653+98 - Location was 942' U/S of C/L of Richman Road.			Route Sheet Number C-431
Quarter	Section 07	Township 5N	Range 16E
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-851-5
Property Owner's Name and Address Styma Dennis & Tammy Dennis & Tammy Styma 890 Richman Road 890 Richman Road (810) 367-7075		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Rutting and general ground disturbance from vehicles and equipment. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) One tight fitting sleeve was installed to mainline. Sleeve measured 2.25'.	
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Kennedy Mike(R) Matula Bob(L)	
WPS UF-49 Uphand Fillet Weld - Kennedy Mike(R) Matula Bob(L)	
Welding Inspector Name Pfinde	

NDE Personnel
Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) SCC (Stress Crack Corrosion)	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 44'
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) -1.147	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 04/08/2010
--	---

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-021 Report Date: 04/08/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 743.12	Tract No. M-851-5	Stationing 14653+98
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Sand & Peat	Terrain Type Lowland	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1465398.59	Reported Grade Depth or RPR
Corrosion Type SCC (Stress Crack Corrosion)	Max Depth .110	Anomaly Size .1	

Part B - Inspection Results

Condition of Outside of Pipe
SCC (Stress Crack Corrosion)
Comments
Cracks found in Girth Weld, Sleeve required. See NDE Report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of Recoat is 14654+18.
New Coating is : Densotherm Coating Length is : 44'

Pipe to Soil Potential : -1.147
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Sitala/Rogstad Date Inspected: 03/29/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 04/08/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-022
 Report Date: 03/29/2010
 Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/14/2010	Date Repaired 03/24/2010	Report Date 03/29/2010
Pipe Line Location - Pump Station or Milepost 745.45	Line No. 6B	Line Size 30	Special Cost Number AFE0891204109.MIC00 6
Specific Location - Location from a known stationing on a Route Sheet 14776+97 - Location is 115' D/S of C/L of Wadams Road.			Route Sheet Number C-431
Quarter	Section 10	Township 5N	Range 16E
Tract No. M-854-1			
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
Property Owner's Name and Address Ulrich Ralph F & Karen Ralph F. & Karen Ulrich 6136 Gratiot Avenue 6136 Gratiot Avenue (810) 367-4332		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor ground disturbance to drainage ditch from equipment. Damage to Work Area: Damage to front yard on noted tract.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 1 tight fit sleeve was installed on the mainline. Total sleeve installed was 3'.	
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Julian Dave(R) Kennedy Mike(L)	
WPS UF-49 Uphand Fillet Weld - Julian Dave(R) Kennedy Mike(L)	
Welding Inspector Name Pfinde	

NDE Personnel Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) SCC (Stress Crack Corrosion)	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 42'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.33	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report
--

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 03/29/2010
--	---

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-022 Report Date: 03/29/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 745.45	Tract No. M-854-1	Stationing 14776+97
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Clay	Terrain Type Soil	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1477662.77	Reported Grade Depth or RPR 1.1
Corrosion Type SCC (Stress Crack Corrosion)	Max Depth .158	Anomaly Size 1.8	

Part B - Inspection Results

Condition of Outside of Pipe
SCC (Stress Crack Corrosion)
Comments
Cracking in GW was found, Sleeve required. See NDE report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : Pipe was recoated with Densotherm. C/L of recoat is 14776+80.

New Coating is : Densotherm Coating Length is : 42'

Pipe to Soil Potential : -1.33

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad, Sitala

Date Inspected: 03/25/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 03/29/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-023
Report Date: 03/29/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 02/12/2010	Date Repaired 03/16/2010	Report Date 03/29/2010	
Pipe Line Location - Pump Station or Milepost 745.56; 745.56	Line No. 6B; 6B	Line Size 30; 30	Special Cost Number AFE0891204109.MIC00 6	
Specific Location - Location from a known stationing on a Route Sheet 14782+93; 14783+14 - Location 1 is 711' D/S of C/L of Wadhams Road. Location 2 is 732' D/S of C/L of Wadhams Road.			Route Sheet Number C-431	
Quarter	Section 10	Township 5N	Range 16E	Tract No. M-854-1
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	GPS Location	GPS Reading N. W. E.
Property Owner's Name and Address Ulrich Ralph F & Karen Ralph F. & Karen Ulrich 6136 Gratiot Avenue 6136 Gratiot Avenue (810) 367-4332		Property Tenant's Name and Address		
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Disturbance to driveway, Driveway was restored. Damage to Work Area: Excavation was in the middle of driveway. Driveway was restored back to original state. Finish work will need to be completed in Spring 2010.				

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Two separate tight fit sleeves, (1)- 3.9 ft and (2)- 3.5 ft were installed on mainline. . GPS for D/S sleeve, N: 4748676.30 E: 372954.36 EL: 195.00
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Julian Dave(R) Kennedy Mike(L) WPS LB-32 Longitudinal Butt Weld - Wilson Todd(R)

Matula Bob(L) WPS UF-49 Uphand Fillet Weld - Wilson Todd(R) Matula Bob(L) WPS UF-49 Uphand Fillet Weld - Julian Dave(R) Kennedy Mike(L)
Welding Inspector Name Pfinde
NDE Personnel Joshua Rogstad; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 44'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.36	Type of Sleeve tight fitting
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach		Date Entered on System Drawings By Tech. Services 03/29/2010	

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-023 Report Date: 03/29/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B; 6B - (30; 30)	MilePost/Station 745.56; 745.56	Tract No. M-854-1	Stationing 14782+93; 14783+14
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Sand & Clay	Terrain Type Driveway	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1478275.16	Reported Grade Depth or RPR .93
Corrosion Type External	Max Depth .120	Anomaly Size 21.8	

Part B - Inspection Results

Condition of Outside of Pipe

Extensive Corrosion

Comments

Corrosion and cracking was found, sleeve required See NDE report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : Pipe was recoated with Densotherm. C/L of recoat is 14782+94

New Coating is : Densotherm

Coating Length is : 44'

Pipe to Soil Potential : -1.36

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad,Sitala

Date Inspected: 03/22/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

03/29/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-024
Report Date: 04/05/2010

Report Type: Corrosion Tool Anomaly

Location

Reporting Office Bay City	Date Discovered 02/13/2010	Date Repaired 02/26/2010	Report Date 04/05/2010
Pipe Line Location - Pump Station or Milepost 746.68	Line No. 6B	Line Size 30	Special Cost Number 0891204109.MIC006
Specific Location - Location from a known stationing on a Route Sheet 14842+34 - Location is 92' U/S of C/L of Bartlett Road.			Route Sheet Number C-431
Quarter	Section 03	Township 5N	Range 16E
Tract No. M-854-15A			
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
GPS Reading N. W. E.			
Property Owner's Name and Address Brozo David & Marlene David & Marlene Brozo 474 South Bartlett Road 474 South Bartlett Road (810) 364-5726		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Damages to Road and Driveway, both have been restored. Damage to Work Area: Damages to driveway and septic field was done. Restoration to both impact areas are complete. Further restoration will be needed in Spring 2010.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) One tight fit Sleeve was installed for a total of 2.5'.	
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Christensen Ben(R) Charpentier Cody(L) WPS UF-49 Uphand Fillet Weld - Christensen Ben(R) Charpentier Cody(L)	
Welding Inspector Name Pfinde	

NDE Personnel
Joshua Rogstad; Douglas Sierra

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 42'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.3	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 04/05/2010		

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-024 Report Date: 04/05/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 746.68	Tract No. M-854-15A	Stationing 14842+34
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1484234.10	Reported Grade Depth or RPR 1.1
Corrosion Type External	Max Depth .140	Anomaly Size 2.6	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments
Corrosion found, Sleeve required. See NDE Report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of Recoat is 14842+53
New Coating is : Densotherm Coating Length is : 42'

Pipe to Soil Potential : -1.3
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Rogstad,/Sierra Date Inspected: 03/01/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 04/05/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-025
 Report Date: 04/06/2010
 Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 02/13/2010	Date Repaired 04/24/2010	Report Date 04/06/2010
Pipe Line Location - Pump Station or Milepost 746.69	Line No. 6B	Line Size 30	Special Cost Number AFE0891204109.MIC00 6
Specific Location - Location from a known stationing on a Route Sheet 14842+74 - Location is 52' U/S of C/L of Bartlett Road.			Route Sheet Number C-431
Quarter	Section 03	Township 5N	Range 16E
Tract No. M-854-15A	Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.
GPS Location		GPS Reading N. W. E.	
Property Owner's Name and Address Brozo David & Marlene David & Marlene Brozo 474 South Bartlett Road 474 South Bartlett Road (810) 364-5726		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Damage driveway, do to excavation area. Area of impact was restored. Damage to Work Area: Minor damages to excavation area and driveway. Driveway was restored. Further restoration will be needed in Spring 2010.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Four tight fit and three over sleeves were installed for a total footage of 25.4'
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Charpentier Cody(R) Krause Michael K(R) Christensen Ben(L) Fleming Ronald W(L) WPS UF-49 Uphand Fillet Weld - Charpentier Cody(R)

Krause Michael K(R) Christensen Ben(L) Fleming Ronald W(L)
Welding Inspector Name Pfinde
NDE Personnel Joshua Rogstad; Douglas Sierra

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 64'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.3	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 04/06/2010
--	---

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-025 Report Date: 04/06/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 746.69	Tract No. M-854-15A	Stationing 14842+74
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1484271.22	Reported Grade Depth or RPR .92
Corrosion Type External	Max Depth .130	Anomaly Size 17.2	

Part B - Inspection Results

Condition of Outside of Pipe

Extensive Corrosion

Comments

Extensive Corrosion was found, See NDE report.

Existing Coating is : **Polyken Tape**

Condition of Coating : **Pipe was recoated**

Comments : **C/L of Recoat is 14842+93.**

New Coating is : **Densotherm**

Coating Length is : **64'**

Pipe to Soil Potential : **-1.3**

Comments :

Condition of Inside of Pipe : **Steel not exposed**

Comments :

Inspected By : **John Parks**

Date Inspected: **03/02/2010**

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

04/06/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-068
Report Date: 06/22/2010

Report Type: Test Lead Installation

Location

Reporting Office Bay City	Date Discovered 05/27/2010	Date Repaired 05/27/2010	Report Date 06/22/2010
Pipe Line Location - Pump Station or Milepost 1652.74	Line No. 5	Line Size 30	Special Cost Number 91153SC10113
Specific Location - Location from a known stationing on a Route Sheet 29285+17 - 128 ft US of Munger Rd (29286+45)			Route Sheet Number 327
Quarter	Section 16	Township 13N	Range 6E
Tract No. M7-974			
Meridian/County 28	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
Property Owner's Name and Address Schumacher Lawrence Etal Lawrence Schumacher Etal 1327 Cotter Road 1327 Cotter Road (517) 659-2494		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: planted corn damaged backfill and topsoil complete Damage to Work Area: all back filling and topsoiling complete corn damages need to be taken care of			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Test lead Instalaltion		
Welding Procedure or Procedures with Welder Name(s)		
Welding Inspector Name		
NDE Personnel		
General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating

(See Corrosion Inspection Report) No Corrosion	Coal Tar Enamel	Grey patch & denso mastik - 2-4"x4"
Condition of Trench (dry, wet, etc.) wet	Cathodic Protection Potential (See Corrosion Inspection Report) 1.680 DC .457 volts AC	Type of Sleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified	Individual contacted	Date	Time
----------------------------	----------------------	------	------

Report Completed by and Signature Mike McCamey	Date Entered on System Drawings By Tech. Services 06/22/2010
---	---

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-068 Report Date: 06/22/2010

Part A - General Information Concerning Excavation

Line Number and Size 5 - (30)	MilePost/Station 1652.74	Tract No. M7-974	Stationing 29285+17
Purpose of Excavation Test Lead Installation	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type	Max Depth	Anomaly Size	

Part B - Inspection Results

Condition of Outside of Pipe
No Corrosion
Comments

Existing Coating is : Coal Tar Enamel

Condition of Coating : Satisfactory

Comments :

New Coating is : Grey patch & denso mastik

Coating Length is : 2-4"x4"

Pipe to Soil Potential : 1.680 DC .457 volts AC

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Mike McCamey

Date Inspected: 05/27/2010

Part C - Signatures

Pipe Line Foreman
Mike McCamey

Date
06/22/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-069
Report Date: 06/22/2010

Report Type: Test Lead Installation

Location

Reporting Office Bay City	Date Discovered 05/22/2010	Date Repaired 06/22/2010	Report Date 06/22/2010
Pipe Line Location - Pump Station or Milepost 1653.28	Line No. 5	Line Size 30	Special Cost Number 91153SC10113
Specific Location - Location from a known stationing on a Route Sheet 29313+50 - 248 ft US of Beard Rd (29315+98)			Route Sheet Number 327
Quarter	Section 21	Township 13N	Range 6E
Tract No. M7-970			
Meridian/County 28	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
Property Owner's Name and Address Meyer Gary & Sandra Gary & Sandra Meyer 4701 Glen Eagle Dr 4701 Glen Eagle Dr		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: backfill and topsoil complete			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Test lead Installation		
Welding Procedure or Procedures with Welder Name(s)		
Welding Inspector Name		
NDE Personnel		
General Condition of Line (See Corrosion Inspection Report)	Type of Existing Coating Coal Tar Enamel	Type and Length of Repair Coating Grey patch & denso mastik -

No Corrosion		2-4"x 4"
Condition of Trench (dry, wet, etc.) wet	Cathodic Protection Potential (See Corrosion Inspection Report) 1.655 DC .242 volts AC	Type of Sleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified	Individual contacted	Date	Time
----------------------------	----------------------	------	------

Report Completed by and Signature Mike McCamey	Date Entered on System Drawings By Tech. Services 06/22/2010
---	---

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-069 Report Date: 06/22/2010

Part A - General Information Concerning Excavation

Line Number and Size	MilePost/Station	Tract No.	Stationing
5 - (30)	1653.28	M7-970	29313+50

Purpose of Excavation	Soil Type	Terrain Type
Test Lead Installation	Clay	Cultivated

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
-------------	----------------	-------------	-----------------------------

Corrosion Type	Max Depth	Anomaly Size
----------------	-----------	--------------

Part B - Inspection Results

Condition of Outside of Pipe
No Corrosion
Comments

Existing Coating is : Coal Tar Enamel
Condition of Coating : Satisfactory
Comments :
New Coating is : Grey patch & denso mastik
Coating Length is : 2-4"x 4"

Pipe to Soil Potential : 1.655 DC .242 volts AC
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Mike McCamey Date Inspected: 05/27/2010

Part C - Signatures

Pipe Line Foreman	Date
Mike McCamey	06/22/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-070
Report Date: 06/22/2010

Report Type: Test Lead Installation

Location

Reporting Office Bay City	Date Discovered 06/02/2010	Date Repaired 06/02/2010	Report Date 06/22/2010
Pipe Line Location - Pump Station or Milepost 1656.81	Line No. 5	Line Size 30	Special Cost Number 91153SC10113
Specific Location - Location from a known stationing on a Route Sheet 29500+08 - 145 ft US of N. Block Rd (29501+53)			Route Sheet Number 328
Quarter	Section 02	Township 12N	Range 6E
Tract No. M7-950			
Meridian/County 29	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
Property Owner's Name and Address Palm W L W. L. Palm 4144 Block Road 4144 Block Road		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Damage to soy beans Damage to Work Area: Damage to soy beans backfill and top soil is complete			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Test Lead Installation		
Welding Procedure or Procedures with Welder Name(s)		
Welding Inspector Name		
NDE Personnel		
General Condition of Line (See Corrosion Inspection Report)	Type of Existing Coating Coal Tar Enamel	Type and Length of Repair Coating Grey patch & denso mastik -

No Corrosion		2-4"x4"
Condition of Trench (dry, wet, etc.) wet	Cathodic Protection Potential (See Corrosion Inspection Report) 1.597 DC 250.9milivolts AC	Type of Sleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified	Individual contacted	Date	Time
----------------------------	----------------------	------	------

Report Completed by and Signature Mike McCamey	Date Entered on System Drawings By Tech. Services 06/22/2010
---	---

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-070 Report Date: 06/22/2010

Part A - General Information Concerning Excavation

Line Number and Size 5 - (30)	MilePost/Station 1656.81	Tract No. M7-950	Stationing 29500+08
Purpose of Excavation Test Lead Installation	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type	Max Depth	Anomaly Size	

Part B - Inspection Results

Condition of Outside of Pipe
No Corrosion
Comments

Existing Coating is : **Coal Tar Enamel**
Condition of Coating : **Satisfactory**
Comments :

New Coating is : **Grey patch & denso mastik** Coating Length is : **2-4"x4"**

Pipe to Soil Potential : **1.597 DC 250.9milivolts AC**
Comments :

Condition of Inside of Pipe : **Steel not exposed**
Comments :

Inspected By : **Mike McCamey** Date Inspected: **06/02/2010**

Part C - Signatures

Pipe Line Foreman Mike McCamey	Date 06/22/2010
--	---------------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-071
 Report Date: 06/22/2010
 Report Type: Test Lead Installation

Location

Reporting Office Bay City	Date Discovered 06/03/2010	Date Repaired 06/03/2010	Report Date 06/22/2010
Pipe Line Location - Pump Station or Milepost 1690.98	Line No. 5	Line Size 30	Special Cost Number 91153SC10113
Specific Location - Location from a known stationing on a Route Sheet 31304+24 - 100 ft DS of Hwy 90 (31303+24)			Route Sheet Number 334
Quarter	Section 03	Township 9N	Range 11E
Tract No. M7-351			
Meridian/County 31	Province/State MI	Lat & Long Location Lat. Long.	GPS Location GPS Reading N. W. E.
Property Owner's Name and Address Bates & Blumerich Bates & Blumerich 6672 Lake Pleasant Road 6672 Lake Pleasant Road		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: corn was damaged topsoil and backfill complete Damage to Work Area: Damage to corn backfill and topsoil complete			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Test lead Installation
Welding Procedure or Procedures with Welder Name(s)
Welding Inspector Name
NDE Personnel

General Condition of Line (See Corrosion Inspection Report)	Type of Existing Coating Coal Tar Enamel	Type and Length of Repair Coating Grey patch & denso mastik - 2-
--	---	---

No Corrosion		4"x4"
Condition of Trench (dry, wet, etc.) dry	Cathodic Protection Potential (See Corrosion Inspection Report) 1.530 DC .46 milivoltsAC	Type of Sleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified	Individual contacted	Date	Time
----------------------------	----------------------	------	------

Report Completed by and Signature Mike McCamey	Date Entered on System Drawings By Tech. Services 06/22/2010
---	---

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-071 Report Date: 06/22/2010

Part A - General Information Concerning Excavation

Line Number and Size	MilePost/Station	Tract No.	Stationing
5 - (30)	1690.98	M7-351	31304+24

Purpose of Excavation	Soil Type	Terrain Type
Test Lead Installation	Clay	Cultivated

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
-------------	----------------	-------------	-----------------------------

Corrosion Type	Max Depth	Anomaly Size
----------------	-----------	--------------

Part B - Inspection Results

Condition of Outside of Pipe
No Corrosion
Comments

Existing Coating is : **Coal Tar Enamel**
Condition of Coating : **Satisfactory**
Comments :
New Coating is : **Grey patch & denso mastik** Coating Length is : **2- 4"x4"**

Pipe to Soil Potential : **1.530 DC .46 milivoltsAC**
Comments :

Condition of Inside of Pipe : **Steel not exposed**
Comments :

Inspected By : **Mike McCamey** Date Inspected: **06/03/2010**

Part C - Signatures

Pipe Line Foreman	Date
Mike McCamey	06/22/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-072
Report Date: 06/22/2010

Report Type: Test Lead Installation

Location

Reporting Office Bay City	Date Discovered 06/03/2010	Date Repaired 06/03/2010	Report Date 06/22/2010
Pipe Line Location - Pump Station or Milepost 1700.05	Line No. 5	Line Size 30	Special Cost Number 91153SC10113
Specific Location - Location from a known stationing on a Route Sheet 31782+84 - 149 ft US of Road at 31784+33			Route Sheet Number 335
Quarter	Section 26	Township 9N	Range 12E
Tract No. M7-309			
Meridian/County 31	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
Property Owner's Name and Address Powell William A & Marie William A. & Marie Powell 4579 Brown City Road 4579 Brown City Road (313) 346-3215		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: no crops tack marks from excavator on plowing in wire Damage to Work Area: backfill and topsoil complete			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Test Lead Installation		
Welding Procedure or Procedures with Welder Name(s)		
Welding Inspector Name		
NDE Personnel		
General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating

(See Corrosion Inspection Report) No Corrosion	Coal Tar Enamel	Grey patch & denso mastik - 2-4"x4"
Condition of Trench (dry, wet, etc.) wet	Cathodic Protection Potential (See Corrosion Inspection Report) 1.302 DC .14 milivolts AC	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		Hydrotest Number	
Remarks:			
Government Agency Notified Yes	Individual contacted	Date	Time
Report Completed by and Signature Mike McCamey		Date Entered on System Drawings By Tech. Services 06/22/2010	

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-072 Report Date: 06/22/2010

Part A - General Information Concerning Excavation

Line Number and Size 5 - (30)	MilePost/Station 1700.05	Tract No. M7-309	Stationing 31782+84
Purpose of Excavation Test Lead Installation	Soil Type Clay	Terrain Type Cultivated	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage	Reported Grade Depth or RPR
Corrosion Type	Max Depth	Anomaly Size	

Part B - Inspection Results

Condition of Outside of Pipe

No Corrosion

Comments

Existing Coating is : Coal Tar Enamel

Condition of Coating : Satisfactory

Comments :

New Coating is : Grey patch & denso mastik

Coating Length is : 2-4"x4"

Pipe to Soil Potential : 1.302 DC .14 milivolts AC

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Mike McCamey

Date Inspected: 06/03/2010

Part C - Signatures

Pipe Line Foreman Mike McCamey	Date 06/22/2010
-----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-073
 Report Date: 06/07/2010
 Report Type: Corrosion Tool Anomaly

Location

Reporting Office Bay City	Date Discovered 01/29/2010	Date Repaired 03/13/2010	Report Date 06/07/2010
Pipe Line Location - Pump Station or Milepost 637.02	Line No. 6B	Line Size 30	Special Cost Number AFE0891204109INC00 6
Specific Location - Location from a known stationing on a Route Sheet 9051+90 - Location is 285' D/S of the centerline of Territorial Road (9049+05)			Route Sheet Number C-409
Quarter	Section 06	Township 1S	Range 1W
Tract No. M-755-2			
Meridian/County 38	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
Property Owner's Name and Address Scarborough Janice Janice Scarborough 4310 W Territorial Rd 4310 W Territorial Rd		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: we used existing driveway Damage to Work Area: Job site was in landowners field, grass			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) 11 tight fitting sleeves and 10 oversleeves were installed. Total length of 79.18' from U/S end of sleeve to D/S end
Welding Procedure or Procedures with Welder Name(s) WPS UF-49 Uphand Fillet Weld - Matula Bob(R) Kennedy Mike(L) WPS LB-32 Longitudinal Butt Weld - Matula Bob(R) Jeske Michael F(L) WPS UF-60 Uphand Fillet Weld - Matula Bob(R)

Jeske Michael F(L)
 WPS LB-32 Longitudinal Butt Weld - Julian Dave(R)
 Wilson Todd(L)
 WPS UF-60 Uphand Fillet Weld - Julian Dave(R)
 Wilson Todd(L)
 WPS LB-32 Longitudinal Butt Weld - (R)
 Kennedy Mike(L)
 WPS UF-60 Uphand Fillet Weld - (R)
 Kennedy Mike(L)
 WPS LB-32 Longitudinal Butt Weld - Fleming Ronald W(R)
 Losiniecki David A(L)
 WPS UF-60 Uphand Fillet Weld - Fleming Ronald W(R)
 Losiniecki David A(L)
 WPS LB-32 Longitudinal Butt Weld - Payae Juan(R)
 Carrera Mario(L)
 WPS UF-60 Uphand Fillet Weld - Payae Juan(R)
 Carrera Mario(L)
 WPS UF-49 Uphand Fillet Weld - Fleming Ronald W(R)
 Losiniecki David A(L)

Welding Inspector Name
 PFinde

NDE Personnel
 Mat Kilpela; Larry Kennedy; Chad Nelson; Mark Schumann; Heidi Warnke

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 86'
Condition of Trench (dry, wet, etc.) Flat, wet bottom, clay	Cathodic Protection Potential (See Corrosion Inspection Report) -1.49	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Jonathan Young		Date Entered on System Drawings By Tech. Services 06/07/2010	

Enbridge Energy Company Corrosion Inspection Report
--

EEC Report Number: BC2010-073 Report Date: 06/07/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 637.02	Tract No. M-755-2	Stationing 9051+90
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. 14	Log Footage 905149.45	Reported Grade Depth or RPR 44%
Corrosion Type External	Max Depth .117	Anomaly Size 3.2"	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
 Comments
 extensive corrosion found, sleeve required, see NDE report

Existing Coating is : Polyken Tape
 Condition of Coating : Pipe was recoated
 Comments : Centerline of coating is 9051+88
 New Coating is : Densotherm Coating Length is : 86'

Pipe to Soil Potential : -1.49
 Comments : Taken as soon as pipe was daylighted

Condition of Inside of Pipe : Steel not exposed
 Comments : Not exposed

Inspected By : Schumann, Warnke, Kennedy, Nelson, Kilpela Date Inspected: 03/21/2010

Part C - Signatures

Pipe Line Foreman Jonathan Young	Date 06/07/2010
-------------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-074
 Report Date: 06/07/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 04/14/2010	Date Repaired 04/21/2010	Report Date 06/07/2010
Pipe Line Location - Pump Station or Milepost 669.20	Line No. 6B	Line Size 30	Special Cost Number 1091204123
Specific Location - Location from a known stationing on a Route Sheet 10750+97 - Location is 551 ft U/S of centerline of Oak Grove Road (10756+48)			Route Sheet Number C-416
Quarter	Section 23	Township 3N	Range 4E
Tract No. M-783-4			
Meridian/County 40	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
Property Owner's Name and Address Earl William D William D Earl 1907 Oak Grove Road 1907 Oak Grove Road (517) 546-2635		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: No damages, work done in landowners grass, we will reseed work area Damage to Work Area: Damages were to landowners grass in field			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Pipe was sand blasted and recoated	
Welding Procedure or Procedures with Welder Name(s)	
Welding Inspector Name	
NDE Personnel Douglas Sierra; Chad Nelson; Gerald Barras; Mat Kilpela	

General Condition of Line (See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 43'
Condition of Trench (dry, wet, etc.) Dry sand bottom	Cathodic Protection Potential (See Corrosion Inspection Report) -1.227	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Jonathan Young	Date Entered on System Drawings By Tech. Services 06/07/2010		

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-074 Report Date: 06/07/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 669.20	Tract No. M-783-4	Stationing 10750+97
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Sand	Terrain Type Wooded	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1075097.91	Reported Grade Depth or RPR 65%
Corrosion Type External	Max Depth .175	Anomaly Size 1.3 in	

Part B - Inspection Results

Condition of Outside of Pipe

Minor Corrosion. No repair sleeve or pipe replacement required.

Comments

Some small pits but determined as a recoat

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : Centerline of coating is 10750+97

New Coating is : Densotherm

Coating Length is : 43'

Pipe to Soil Potential : -1.227

Comments : Taken the moment the pipe was daylighted

Condition of Inside of Pipe : Steel not exposed

Comments : not exposed

Inspected By : Sierra, Kilpela, Nelson, Barras

Date Inspected: 04/20/2010

Part C - Signatures

Pipe Line Foreman Jonathan Young	Date 06/07/2010
-------------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-075
 Report Date: 06/07/2010
 Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 02/07/2010	Date Repaired 04/21/2010	Report Date 06/07/2010
Pipe Line Location - Pump Station or Milepost 669.34	Line No. 6B	Line Size 30	Special Cost Number AFE0891204109MIC00 6
Specific Location - Location from a known stationing on a Route Sheet 10758+25 - Location is 177.22' D/S of the centerline of Oak Grove road (10756+48)			Route Sheet Number C-416
Quarter	Section 13	Township 3N	Range 4E
Tract No. M-784-6			
Meridian/County 40	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
Property Owner's Name and Address Oak Grove Investments LLC Oak Grove Investments LLC 11750 Highland Rd 11750 Highland Rd Suite 100		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: none Damage to Work Area: Work done in tall grass on ROW			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Pipe was blasted and recoated
Welding Procedure or Procedures with Welder Name(s)
Welding Inspector Name
NDE Personnel Doug Gronewold; Daniel Hauch; Larry Kennedy; Douglas Sierra

General Condition of Line (See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 43.5'
Condition of Trench (dry, wet, etc.) Flat, dry bottom, clay	Cathodic Protection Potential (See Corrosion Inspection Report) -1.20	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		Hydrotest Number	
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Jonathan Young		Date Entered on System Drawings By Tech. Services 06/07/2010	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-075 Report Date: 06/07/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 669.34	Tract No. M-784-6	Stationing 10758+25
Purpose of Excavation Corrosion Tool Anamoly		Soil Type Clay	Terrain Type Flat

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1075805.69	Reported Grade Depth or RPR 51%
Corrosion Type External	Max Depth .125	Anomaly Size 5.9"	

Part B - Inspection Results

Condition of Outside of Pipe
 Minor Corrosion. No repair sleeve or pipe replacement required.
 Comments
 Some corrosion, otherwise not all that bad

Existing Coating is : Polyken Tape
 Condition of Coating : Pipe was recoated
 Comments : Centerline of recoat is 10758+25
 New Coating is : Densotherm Coating Length is : 43.5'

Pipe to Soil Potential : -1.20
 Comments : Taken when pipe was daylighted

Condition of Inside of Pipe : Steel not exposed
 Comments : Not exposed

Inspected By : Gronewold, Kennedy, hauch, Sierra Date Inspected: 04/15/2010

Part C - Signatures

Pipe Line Foreman Jonathan Young	Date 06/07/2010
-------------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-001
 Report Date: 02/08/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 03/26/2010	Date Repaired 01/30/2010	Report Date 02/08/2010
Pipe Line Location - Pump Station or Milepost 750.22	Line No. 6B	Line Size 30	Special Cost Number 891204109MIC006
Specific Location - Location from a known stationing on a Route Sheet 15029+19 - Location was 1172' D/S of C/L of Michigan Ave.			Route Sheet Number C-432
Quarter	Section 06	Township 5N	Range 17E
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-858-4
Property Owner's Name and Address Haas Investment Inc Haas Investment, Inc. 6960 Orchard Lake Road, Suite 300 6960 Orchard Lake Road (248) 855-9292		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: General Ground Disturbance. Area may need further restoration in spring of 2010 Damage to Work Area: General Ground Disturbance			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) RECOAT only.		
Welding Procedure or Procedures with Welder Name(s)		
Welding Inspector Name		
NDE Personnel		
General Condition of Line	Type of Existing Coating	Type and Length of Repair Coating

(See Corrosion Inspection Report) Minor Corrosion. No repair sleeve or pipe replacement required.	Polyken Tape	Densotherm - 41'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -.800	Type of Sleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No		Hydrotest Number	
Remarks:			
Government Agency Notified	Individual contacted	Date	Time
Report Completed by and Signature Mick J Collier		Date Entered on System Drawings By Tech. Services 02/08/2010	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-001 Report Date: 02/08/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 750.22	Tract No. M-858-4	Stationing 15029+19
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Sand & Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. N/A	Log Footage 1502919.96	Reported Grade Depth or RPR 1.13 RPR
Corrosion Type External	Max Depth .059	Anomaly Size 3.4	

Part B - Inspection Results

Condition of Outside of Pipe

Minor Corrosion. No repair sleeve or pipe replacement required.

Comments

Minor corrosion found. All corrosion was within tolerable limits. Sleeve not required. See NDE Report

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of Recoat is 15029+19

New Coating is : Densotherm

Coating Length is : 41'

Pipe to Soil Potential : -.800

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Joshua Rettig

Date Inspected: 01/28/2010

Part C - Signatures

Pipe Line Foreman

Date

Mick J Collier

02/08/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-002
Report Date: 02/11/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 01/26/2010	Date Repaired 01/30/2010	Report Date 02/11/2010
Pipe Line Location - Pump Station or Milepost 750.31	Line No. 6B	Line Size 30	Special Cost Number 0891204109MIC006
Specific Location - Location from a known stationing on a Route Sheet 15033+85 - Location was 1735' U/S of C/L of Huron Blvd.			Route Sheet Number C-432
Quarter	Section 06	Township 5N	Range 17E
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-858-4
Property Owner's Name and Address Haas Investment Inc Haas Investment, Inc. 6960 Orchard Lake Road, Suite 300 6960 Orchard Lake Road (248) 855-9292		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Damage was to some rutting and disturbance of the ground cover. Further restoration may be needed in the spring of 2010 Damage to Work Area: General ground disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) A 5.62 ft tight fit sleeve was installed
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Mccamey Michael D(R) Kennedy Mike(L) WPS UF-49 Uphand Fillet Weld - Mccamey Michael D(R) Kennedy Mike(L) WPS UF-49 Uphand Fillet Weld - Matula Robert(R) Kennedy Mike(L)

Welding Inspector Name Pfinde
NDE Personnel Joshua Rettig; Russell Thomas; Rory Siltala

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 43'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -.900	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
---	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
---	----------------------	------	------

Report Completed by and Signature Mick J Collier	Date Entered on System Drawings By Tech. Services 02/11/2010
--	--

Enbridge Energy Company Corrosion Inspection Report
--

EEC Report Number: BC2010-002 Report Date: 02/11/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 750.31	Tract No. M-858-4	Stationing 15033+85
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Peat & Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No. N/A	Log Footage 1503354.06	Reported Grade Depth or RPR 0.91 RPR
Corrosion Type External	Max Depth .116	Anomaly Size 4.6	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
 Comments
 Extensive external corrsion was found. Sleeve required see NDE report

Existing Coating is : Polyken Tape
 Condition of Coating : Pipe was recoated
 Comments : Centerline of the recoat was 15033+74
 New Coating is : Densotherm Coating Length is : 43'

Pipe to Soil Potential : -.900
 Comments :

Condition of Inside of Pipe : Steel not exposed
 Comments :

Inspected By : Joshua Rettig Date Inspected: 01/28/2010

Part C - Signatures

Pipe Line Foreman Mick J Collier	Date 02/11/2010
-------------------------------------	--------------------

Weld Record BC2010-002

PLM Report:  BC2010-002

Welding Procedure

WPS LB-32 Longitudinal Butt Weld

Memo:

Instructions

- 1) Selected Weld Procedure on the Left.
 - 2) Click on the Icon next to the Left Side label. Select the welder from the list. If the weld not on the list, then use the "Add" button to create a welder record for the welder for that procedure.
 - 3) Repeat step 2 for the Right Side welder.
- *Note: Right and Left are determined by looking down stream.



Left Side: 

Kennedy Mike

Right Side: 

Mccamey Michael D

Weld Record BC2010-002

PLM Report:  BC2010-002

Welding Procedure

WPS UF-49 Uphand Fillet Weld

Memo:

Instructions

- 1) Selected Weld Procedure on the Left.
- 2) Click on the Icon next to the Left Side label. Select the welder from the list. If the weld not on the list, then use the "Add" button to create a welder record for the welder for that procedure.
- 3) Repeat step 2 for the Right Side welder.

*Note: Right and Left are determined by looking down stream.



Left Side: 

Kennedy Mike

Right Side: 

Matula Robert

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-003
Report Date: 02/25/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 01/29/2010	Date Repaired 02/08/2010	Report Date 02/25/2010
Pipe Line Location - Pump Station or Milepost 749.97	Line No. 6B	Line Size 30	Special Cost Number 0891204109MIC006
Specific Location - Location from a known stationing on a Route Sheet 15015+71 - Location was 176' U/S from C/L of Michigan Ave.			Route Sheet Number C-432
Quarter	Section 06	Township 5N	Range 17E
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-857-3
Property Owner's Name and Address Ross Memorial Bible Church Ross Memorial Bible Church 2865 Maywood Drive 2865 Maywood Drive (810) 985-5982		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor ground disturbance due to vehicles and equipment. Damage to Work Area: General Ground Disturbance			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Two tight fit sleeves and one oversleeve were installed. Total of nine ft of Sleeve was installed.
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Kennedy Mike(R) Wilson Todd(L) WPS LB-32 Longitudinal Butt Weld - Julian Dave(R) Matula Bob(L) WPS UF-49 Uphand Fillet Weld - Julian Dave(R) Matula Bob(L) WPS UF-49 Uphand Fillet Weld - Julian Dave(R)

Matula Bob(L) WPS UF-60 Uphand Fillet Weld - Kennedy Mike(R) Wilson Todd(L)
Welding Inspector Name Pfinde
NDE Personnel Joshua Rettig; Russell Thomas

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 11.5'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.19	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records)	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Mick J Collier	Date Entered on System Drawings By Tech. Services 02/25/2010		

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-003 Report Date: 02/25/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 749.97	Tract No. M-857-3	Stationing 15015+71
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Peat & Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1501567.64	Reported Grade Depth or RPR 0.94
Corrosion Type External	Max Depth .153	Anomaly Size 1.9"	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments
Corrosion was identified and Sleeve installed. See NDE Report

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : Densotherm coating was applied. C/L of coating is 15015+63
New Coating is : Densotherm Coating Length is : 11.5'

Pipe to Soil Potential : -1.19
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments : See NDE Report

Inspected By : Josh Rettig Date Inspected: 02/03/2010

Part C - Signatures

Pipe Line Foreman Mick J Collier	Date 02/25/2010
-------------------------------------	--------------------

Weld Record BC2010-003

PLM Report:  BC2010-003

Welding Procedure

WPS LB-32 Longitudinal Butt Weld

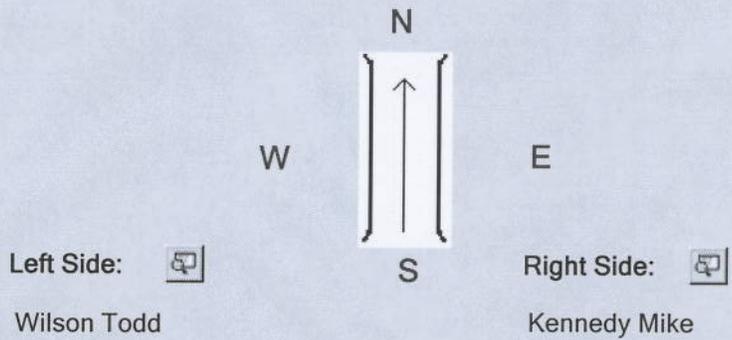
Memo:

Instructions

- 1) Selected Weld Procedure on the Left.
- 2) Click on the Icon next to the Left Side label. Select the welder from the list. If the weld not on the list, then use the "Add" button to create a welder record for the welder for that procedure.
- 3) Repeat step 2 for the Right Side welder.

*Note: Right and Left are determined by looking down stream.

Flow Direction:



Weld Record BC2010-003

PLM Report:  BC2010-003

Welding Procedure

WPS LB-32 Longitudinal Butt Weld

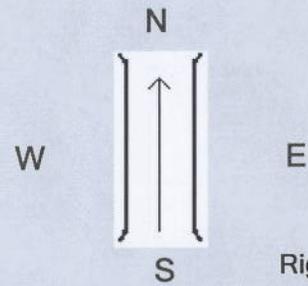
Memo:

Instructions

- 1) Selected Weld Procedure on the Left.
- 2) Click on the Icon next to the Left Side label. Select the welder from the list. If the weld not on the list, then use the "Add" button to create a welder record for the welder for that procedure.
- 3) Repeat step 2 for the Right Side welder.

*Note: Right and Left are determined by looking down stream.

Flow Direction:



Left Side: 

Matula Bob

Right Side: 

Julian Dave

Weld Record BC2010-003

PLM Report:  BC2010-003

Welding Procedure

WPS UF-49 Uphand Fillet Weld

Memo:

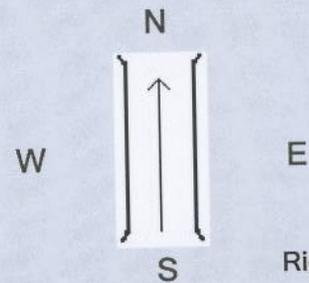
D/S

Instructions

- 1) Selected Weld Procedure on the Left.
- 2) Click on the Icon next to the Left Side label. Select the welder from the list. If the weld not on the list, then use the "Add" button to create a welder record for the welder for that procedure.
- 3) Repeat step 2 for the Right Side welder.

*Note: Right and Left are determined by looking down stream.

Flow Direction:



Left Side: 

Matula Bob

Right Side: 

Julian Dave

Weld Record BC2010-003

PLM Report:  BC2010-003

Welding Procedure

WPS UF-60 Uphand Fillet Weld

Memo:

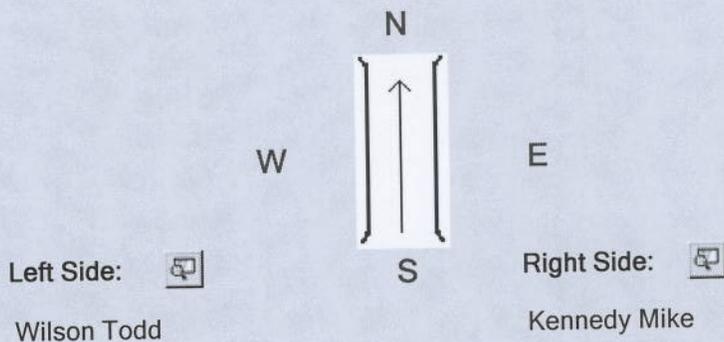
U/S and D/S

Instructions

- 1) Selected Weld Procedure on the Left.
- 2) Click on the Icon next to the Left Side label. Select the welder from the list. If the weld not on the list, then use the "Add" button to create a welder record for the welder for that procedure.
- 3) Repeat step 2 for the Right Side welder.

*Note: Right and Left are determined by looking down stream.

Flow Direction:



Julian Dave(L) WPS UF-60 Uphand Fillet Weld - Kennedy Mike(R) Julian Dave(L) WPS UF-49 Uphand Fillet Weld - Matula Bob(R) Wilson Todd(L)
Welding Inspector Name PFinde
NDE Personnel Joshua Rettig; Rory Siltala; Russell Thomas

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 60'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.122	Type of Sleeve tight fitting w/oversleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Mick J Collier		Date Entered on System Drawings By Tech. Services 02/26/2010	

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-005 Report Date: 02/26/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 750.07	Tract No. M-858-2	Stationing 15021+13
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Peat & Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1502096.57	Reported Grade Depth or RPR 0.99
Corrosion Type External	Max Depth .190	Anomaly Size 7.8"	

Part B - Inspection Results

Condition of Outside of Pipe

Extensive Corrosion

Comments

Extensive external corrosion was found. Please see NDE report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : Pipe was blasted after sleeves were installed and recoated with Densotherm. C/L of recoat is 15021+11.

New Coating is : Densotherm

Coating Length is : 60'

Pipe to Soil Potential : -1.122

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Josh Rettig

Date Inspected: 01/30/2010

Part C - Signatures

Pipe Line Foreman

Mick J Collier

Date

02/26/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-006 Report Date: 02/27/2010 Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 01/29/2010	Date Repaired 02/15/2010	Report Date 02/27/2010
Pipe Line Location - Pump Station or Milepost 749.91	Line No. 6B	Line Size 30	Special Cost Number 0891204109MIC006
Specific Location - Location from a known stationing on a Route Sheet 15012+82 - Location is located 279' D/S of C/L of State Highway M-29.			Route Sheet Number C-432
Quarter	Section 06	Township 5N	Range 17E
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-857-3A
Property Owner's Name and Address Sanderson John John & Katherine Sanderson 4065 Rabidue Road 4065 Rabidue Road (810) 324-6016		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: General ground disturbance due to vehicles and equipment. Damage to Work Area: General Ground Disturbance to a grassy area			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Three tight and two over sleeves were installed. Total Sleeve length was 21.2 ft.
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Wilson Todd(R) Kennedy Mike(L) WPS LB-32 Longitudinal Butt Weld - Matula Robert(R) Julian Dave(L) WPS UF-49 Uphand Fillet Weld - Matula Robert(R) Kennedy Mike(L)

WPS UF-49 Uphand Fillet Weld - Wilson Todd(R) Julian Dave(L) WPS UF-60 Uphand Fillet Weld - Matula Bob(R) Julian Dave(L) WPS UF-60 Uphand Fillet Weld - Wilson Todd(R) Kennedy Mike(L)
Welding Inspector Name Pfinde
NDE Personnel Joshua Rogstad; Rory Siltala; Russell Thomas; Douglas Sierra

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 50'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.115	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records)	Hydrotest Number		
Remarks:			
Government Agency Notified	Individual contacted	Date	Time
Report Completed by and Signature Mick J Collier	Date Entered on System Drawings By Tech. Services 02/27/2010		

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-006 Report Date: 02/27/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 749.91	Tract No. M-857-3A	Stationing 15012+82
Purpose of Excavation Corrosion Tool Anamoly	Soil Type Peat & Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1501274.72	Reported Grade Depth or RPR .99
Corrosion Type External	Max Depth .89	Anomaly Size 5.5	

Part B - Inspection Results

Condition of Outside of Pipe

Extensive Corrosion

Comments

External Corrosion was found. See NDE Report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : Pipe was recoated with Densotherm. C/L of coating is 15012+91

New Coating is : Densotherm

Coating Length is : 50'

Pipe to Soil Potential : -1.115

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Josh Rodstad

Date Inspected: 02/10/2010

Part C - Signatures

Pipe Line Foreman

Mick J Collier

Date

02/27/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-007

Report Date: 03/04/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 02/01/2010	Date Repaired 02/19/2010	Report Date 03/04/2010
Pipe Line Location - Pump Station or Milepost 750.04	Line No. 6B	Line Size 30	Special Cost Number 0891204109MIC006
Specific Location - Location from a known stationing on a Route Sheet 15019+28 - Location was 181' D/S of Michigan Ave. C/L			Route Sheet Number C-432
Quarter	Section 05	Township 5N	Range 17E
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-858-1
Property Owner's Name and Address Campbell & Shaw Steel Campbell & Shaw Steel, Inc. 1705 Michigan Avenue 1705 Michigan Avenue (810) 364-5100		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor rutting from vehicles and equipment. May need further restoration in the spring of 2010 Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) Nine Tight fit Sleeves and nine over sleeves were installed. Total sleeve installed was 36.4'
Welding Procedure or Procedures with Welder Name(s) WPS UF-49 Uphand Fillet Weld - Wilson Todd(R) Jeske Michael F(L) WPS LB-32 Longitudinal Butt Weld - Christensen Ben(R) Charpentier Cody(L) WPS UF-60 Uphand Fillet Weld - Christensen Ben(R) Charpentier Cody(L)

WPS UF-60 Uphand Fillet Weld - Matula Robert(R)
 Krause Michael K(L)
 WPS LB-32 Longitudinal Butt Weld - Fleming Ronald W(R)
 Jeske Michael F(L)
 WPS UF-60 Uphand Fillet Weld - Fleming Ronald W(R)
 Jeske Michael F(L)
 WPS LB-32 Longitudinal Butt Weld - Matula Bob(R)
 Kennedy Mike(L)
 WPS UF-60 Uphand Fillet Weld - Matula Bob(R)
 Kennedy Mike(L)
 WPS LB-32 Longitudinal Butt Weld - Matula Bob(R)
 Krause Michael K(L)
 WPS LB-32 Longitudinal Butt Weld - Wilson Todd(R)
 Julian Dave(L)
 WPS UF-60 Uphand Fillet Weld - Wilson Todd(R)
 Julian Dave(L)

Welding Inspector Name
 Josh Rodstad

NDE Personnel
 Rory Siltala; Joshua Rogstad

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 65'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.109	Type of Sleeve tight fitting w/oversleeve
LPL Personnel must also complete a Corrosion Inspection Report		

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number		
Remarks:			
Government Agency Notified No	Individual contacted	Date	Time
Report Completed by and Signature Mick J Collier	Date Entered on System Drawings By Tech. Services 03/04/2010		

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-007 Report Date: 03/04/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 750.04	Tract No. M-858-1	Stationing 15019+28
Purpose of Excavation Corrosion Tool Anamoly		Soil Type Peat & Clay	Terrain Type Flat

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1501906.39	Reported Grade Depth or RPR
Corrosion Type External	Max Depth .135		Anomaly Size 5.5

Part B - Inspection Results

Condition of Outside of Pipe

Extensive Corrosion

Comments

Extensive External corrosion was found. See NDE report.

Existing Coating is : Polyken Tape

Condition of Coating : Pipe was recoated

Comments : C/L of recoat is 15019+38

New Coating is : Densotherm

Coating Length is : 65'

Pipe to Soil Potential : -1.109

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments : Not exposed, See NDE Report.

Inspected By : John Parks

Date Inspected: 02/23/2010

Part C - Signatures

Pipe Line Foreman

Mick J Collier

Date

03/04/2010

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-008

Report Date: 03/08/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 02/02/2010	Date Repaired 02/17/2010	Report Date 03/08/2010
Pipe Line Location - Pump Station or Milepost 749.02	Line No. 6B	Line Size 30	Special Cost Number 0891204109.MIC006
Specific Location - Location from a known stationing on a Route Sheet 14965+62 - 182' D/S from C/L of Range Road.			Route Sheet Number C-432
Quarter	Section 06	Township 5N	Range 17E
Tract No. M-857-1			
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	GPS Location
		GPS Reading N. W. E.	
Property Owner's Name and Address Viking Real Estate Enterprises Viking Real Estate Enterprises 58021 Gratiot 58021 Gratiot (586) 749-8593 Ron Acciavatti		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: General Ground disturbance. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) One tight sleeve was installed, total of 8'.
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Kennedy Mike(R) Julian Dave(L) WPS UF-49 Uphand Fillet Weld - Kennedy Mike(R) Julian Dave(L)
Welding Inspector Name Pfinde
NDE Personnel

Joshua Rogstad; Rory Siltala; Douglas Sierra; Russell Thomas

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 49'
Condition of Trench (dry, wet, etc.) Dry	Cathodic Protection Potential (See Corrosion Inspection Report) -1.4	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 03/08/2010
--	---

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-008 Report Date: 03/08/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 749.02	Tract No. M-857-1	Stationing 14965+62
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Peat & Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1496522.83	Reported Grade Depth or RPR 1.07
Corrosion Type External	Max Depth .166	Anomaly Size 1.8"	

Part B - Inspection Results

Condition of Outside of Pipe
Extensive Corrosion
Comments
Extensive corrosion was found. See NDE Report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : C/L of recoat is 14965+47
New Coating is : Densotherm Coating Length is : 49'

Pipe to Soil Potential : -1.4
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments : Not exposed, See NDE report.

Inspected By : Josh Rodstad Date Inspected: 02/12/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 03/08/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-009

Report Date: 03/10/2010

Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 02/08/2010	Date Repaired 02/17/2010	Report Date 03/10/2010
Pipe Line Location - Pump Station or Milepost 748.16	Line No. 6B	Line Size 30	Special Cost Number 0891204109.MIC006
Specific Location - Location from a known stationing on a Route Sheet 14920+43 - Location was 1426 ft D/S of the C/L of Allen Rd			Route Sheet Number C-432
Quarter	Section 01	Township 5N	Range 16E
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-856-3
Property Owner's Name and Address Sun Pipe Line Sun Pipe Line Attn: Denise Boyle Attn: Denise Boyle 525 Fritztown Rd 610-670-3291 Denise Boyle		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Ground Disturbance do to Vehicles and Equipment. Damage to Work Area: General Ground Disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) One tight fit sleeve was installed for a total footage of 3.8 ft
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Krause Michael K(R) Fleming Ronald W(L) WPS UF-49 Uphand Fillet Weld - Krause Michael K(R) Fleming Ronald W(L)
Welding Inspector Name Pfinde

NDE Personnel Joshua Rogstad; Rory Siltala; Russell Thomas

General Condition of Line (See Corrosion Inspection Report) SCC (Stress Crack Corrosion)	Type of Existing Coating Polyken Tape	Type and Length of Repair Coating Densotherm - 30'
Condition of Trench (dry, wet, etc.) Mostly dry with a little water in the mornings.	Cathodic Protection Potential (See Corrosion Inspection Report) -1.375	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report
--

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number N/A
--	-------------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 03/10/2010
--	---

**Enbridge Energy Company
Corrosion Inspection Report**

EEC Report Number: BC2010-009 Report Date: 03/10/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 748.16	Tract No. M-856-3	Stationing 14920+43
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Peat & Clay	Terrain Type Flat	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1492041.48	Reported Grade Depth or RPR 1.1
Corrosion Type SCC (Stress Crack Corrosion)	Max Depth .129	Anomaly Size 2.5	

Part B - Inspection Results

Condition of Outside of Pipe
SCC (Stress Crack Corrosion)
Comments
Cracking in Girth Weld, See NDE report.

Existing Coating is : Polyken Tape
Condition of Coating : Pipe was recoated
Comments : Pipe was recoating with Densotherm. C/L of coating is 14920+54
New Coating is : Densotherm Coating Length is : 30'

Pipe to Soil Potential : -1.375
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Rogstad/Sitala Date Inspected: 03/01/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 03/10/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-010
 Report Date: 03/13/2010
 Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 02/27/2010	Date Repaired 03/03/2010	Report Date 03/13/2010
Pipe Line Location - Pump Station or Milepost 751.01	Line No. 6B	Line Size 30	Special Cost Number 0891204109MIC006
Specific Location - Location from a known stationing on a Route Sheet 15070+93 - Location is 1973' D/S from C/L of Huron Blvd.			Route Sheet Number C-432
Quarter	Section 32	Township 6N	Range 17E
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	Tract No. M-858-8
Property Owner's Name and Address Marysville City Of City Of Marysville 1111 Delaware 1111 Delaware PO Box 389 (810) 364-6613		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Ground disturbance and rutting from equipment and vehicles. Damage to Work Area: General ground disturbance.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) One tight fit sleeve was installed, total footage was 2'.
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Losiniecki David A(R) Morang Daniel R(L) WPS UF-49 Uphand Fillet Weld - Losiniecki David A(R) Morang Daniel R(L)
Welding Inspector Name Pfinde

NDE Personnel Joshua Rogstad; Douglas Sierra; Rory Siltala; Heidi Warnke

General Condition of Line (See Corrosion Inspection Report) SCC (Stress Crack Corrosion)	Type of Existing Coating Polyken Tape; TapeCoat 20	Type and Length of Repair Coating Densotherm - 17'
Condition of Trench (dry, wet, etc.) Wet and Swampy	Cathodic Protection Potential (See Corrosion Inspection Report) -1.175	Type of Sleeve tight fitting

LPL Personnel must also complete a Corrosion Inspection Report
--

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 03/13/2010
--	---

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-010 Report Date: 03/13/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 751.01	Tract No. M-858-8	Stationing 15070+93
Purpose of Excavation Corrosion Tool Anomaly		Soil Type Wet Peat	Terrain Type Swampy

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1507057.45	Reported Grade Depth or RPR 1.14
Corrosion Type SCC (Stress Crack Corrosion)	Max Depth .128	Anomaly Size 1.2"	

Part B - Inspection Results

Condition of Outside of Pipe
SCC (Stress Crack Corrosion)
Comments
Cracking found in GW 420340 Sleeve required, See NDE report.

Existing Coating is : Polyken Tape;TapeCoat 20
Condition of Coating : Pipe was recoated
Comments : C/L of Recoat is 15070+86
New Coating is : Densotherm Coating Length is : 17'

Pipe to Soil Potential : -1.175
Comments :

Condition of Inside of Pipe : Steel not exposed
Comments :

Inspected By : Rogstad/Sitala Date Inspected: 03/04/2010

Part C - Signatures

Pipe Line Foreman Randy Roach	Date 03/13/2010
----------------------------------	--------------------

Enbridge Energy Company Permanent Repair Report

EEC Report Number: BC2010-011
 Report Date: 03/14/2010
 Report Type: Corrosion Tool Anamoly

Location

Reporting Office Bay City	Date Discovered 02/16/2010	Date Repaired 03/03/2010	Report Date 03/14/2010
Pipe Line Location - Pump Station or Milepost 744.65	Line No. 6B	Line Size 30	Special Cost Number 0891204109MIC006
Specific Location - Location from a known stationing on a Route Sheet 14735+11 - Location was 1147' D/S from C/L of Gratiot Road.			Route Sheet Number C-431
Quarter	Section 09	Township 5N	Range 16E
Tract No. M-853-3			
Meridian/County 32	Province/State MI	Lat & Long Location Lat. Long.	GPS Location GPS Reading N. W. E.
Property Owner's Name and Address Acciavatti Pasquale Pasquale Acciavatti 6425 Gratiot Road 6425 Gratiot Road (810) 367-3572		Property Tenant's Name and Address	
Full Description of Property Damage and any communications with owner or tenant (Attach a sketch if necessary) Damage Accessing: Minor Ground Disturbance. Damage to Work Area: Ground Disturbance to Motorcross track. Will need further restoration in Spring 2010.			

Leak

Describe Specific Nature and Cause of Break or Leak Repair not due to a leak.			
Oil Out of Line - Barrels	Oil Recovered - Barrels	Net Loss - Barrels 0	Crude Type
Batch Number			
Disposition of Lost Oil			
Name and Address of Person Reporting Leak			Was a Report Fee Paid? No

Repair

Nature of Repair & Fitting added to Mainline (Attach sketch - Identify upstream & Pipe Orientation) One tight sleeve and one over sleeve was installed to an existing sleeve with a 4in Riser. Total sleeve installed was 2'.
Welding Procedure or Procedures with Welder Name(s) WPS LB-32 Longitudinal Butt Weld - Fleming Ronald W(R) Jeske Michael F(L) WPS UF-49 Uphand Fillet Weld - Fleming Ronald W(R) Jeske Michael F(L) WPS LB-32 Longitudinal Butt Weld - Charpentier Cody(R)

Christensen Ben(L)
Welding Inspector Name Pfinde
NDE Personnel Russell Thomas; Douglas Sierra; Joshua Rogstad

General Condition of Line (See Corrosion Inspection Report) Extensive Corrosion	Type of Existing Coating Polyken Tape; TapeCoat 20	Type and Length of Repair Coating Densotherm - 12'
Condition of Trench (dry, wet, etc.) Wet	Cathodic Protection Potential (See Corrosion Inspection Report) -1.365	Type of Sleeve tight fitting w/oversleeve

LPL Personnel must also complete a Corrosion Inspection Report

Other

Was there any Stock Pipe Installed? (If yes, attach hydrotest records) No	Hydrotest Number
--	------------------

Remarks:

Government Agency Notified No	Individual contacted	Date	Time
----------------------------------	----------------------	------	------

Report Completed by and Signature Randy Roach	Date Entered on System Drawings By Tech. Services 03/14/2010
--	---

Enbridge Energy Company Corrosion Inspection Report

EEC Report Number: BC2010-011 Report Date: 03/14/2010

Part A - General Information Concerning Excavation

Line Number and Size 6B - (30)	MilePost/Station 744.65	Tract No. M-853-3	Stationing 14735+11
Purpose of Excavation Corrosion Tool Anomaly	Soil Type Peat & Clay	Terrain Type Motocross Track	

Complete These Lines if Excavation is for Instrument Pig Investigation

Type of Pig	Indication No.	Log Footage 1473501.13	Reported Grade Depth or RPR .94
Corrosion Type External	Max Depth .127	Anomaly Size 10.9	

Part B - Inspection Results

Condition of Outside of Pipe

Extensive Corrosion

Comments

Exyernal Corrosion was found, sleeve required, See NDE report.

Existing Coating is : Polyken Tape;TapeCoat 20

Condition of Coating : Pipe was recoated

Comments : C/L of recoat is 14735+09

New Coating is : Densotherm

Coating Length is : 12'

Pipe to Soil Potential : -1.365

Comments :

Condition of Inside of Pipe : Steel not exposed

Comments :

Inspected By : Rogstad/Sierra/Thomas

Date Inspected: 03/08/2010

Part C - Signatures

Pipe Line Foreman

Randy Roach

Date

03/14/2010