Enbridge Pipelines (Lakehead) L.L.C.
Environment Department
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Superior, WI 54880
Tel 715 398 4754

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ENBRIDGE

April 29, 2016

Carrie Stoltz
Wisconsin Department of Natural Resources
107 Sutliff Avenue
Rhinelander WI 54501

Re: Annual System O&M and Groundwater Monitoring Report 2015
Enbridge Line 14, Milepost 85 Leaksite
Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Dear Ms. Stoltz:

Enclosed is one copy of the *Annual System O&M and Groundwater Monitoring Report 2015* for Enbridge's MP 85 Reichel Road Leaksite in Rusk County, WI. The objectives of this report continue to be to provide a summary of the groundwater monitoring, remediation system operation and other activities from 2015 and to provide a work plan for quarterly groundwater monitoring and system operation activities for 2016.

The SVE system at the Site was shut off in early 2015 and has not operated since that time. Select air-sparging points were reactivated in June 2015 and operated through the rest of the year. We continue sampling of select monitoring wells on a quarterly basis and will continue through 2016. Benzene concentrations in groundwater from site monitoring wells range from non-detect to 39.1 ppb, down from a high of 80.2 ppb in 2014, and 156 ppb in 2013. The groundwater gradient remains consistent trending to the southeast. We plan to continue running the limited sparge points until mid-2016 when those will be shut off as well. Also, redevelopment of the wells that periodically show product will occur in early 2016.

If you have any questions please feel free to call me at (715) 398-4754.

Sincerely,
Enbridge Energy LP

Karl F. Beaster, P.G.
Sr. Environmental Analyst

Enclosure

cc: Jon Aspie; Barr Engineering

Annual System Operation and Monitoring and Groundwater Monitoring Report 2015

Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Prepared for
Enbridge Energy, Limited Partnership

April 2016

BARR

Annual System Operation and Monitoring and Groundwater Monitoring Report 2015

Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Prepared for
Enbridge Energy, Limited Partnership

April 2016

BARR

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Minneapolis, MN 55435-4803
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Annual System Operation and Monitoring and Groundwater Monitoring Report 2015

Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin
April 2016

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resourceful. naturally.
engineering and environmental consultants

BARR

Technical Memorandum

To: Karl Beaster, Enbridge Energy Limited Partnership
From: Jon Aspie, P.G.
Subject: DRAFT MP85 System O&M and Groundwater Monitoring Annual Report 2015
WDNR BRRTS # 02-55-548746
Date: April 22, 2016
Project: 49550029.06

This Technical Memorandum presents a discussion of remediation progress and system operation at the Enbridge Energy (Enbridge) Line 14 MP-85, Exeland, Wisconsin leaksite (Site) through December 31, 2015. Attached are Wisconsin Department of Natural Resources (WDNR) Forms 4400-194, supporting tables, charts, and figures for annual reporting of remediation system operation in accordance with Wisconsin Administrative Code NR 724.

Summary of System Operations and Operational Changes

The air sparge (AS) and soil vapor extraction (SVE) system began operation in January 2008. The system was operated continuously for the most part except for power outages, requirements for maintenance, and landowner requests for shutdowns during holiday or vacation stays. Shutdowns were usually on the order of days to several weeks. A longer planned shutdown of the system was conducted from August 15, 2011 to January 8, 2012 to evaluate the dynamics of the dissolved phase plume in groundwater when the system was not operational. The system was then operated continuously for the most part until May 9, 2013, when the system was shut down in accordance with the *MP85 System Shutdown Work Plan,* dated April 2013, and approved by the WDNR. The system was restarted on February 26, 2014 and operated continuously until approximately March 1, 2015, when the system shut down due to unknown reasons. Shut down of the SVE system was planned for early 2015, and the system was not restarted. Select air sparging points were restarted on June 10, 2015 and operated through the remainder of 2015.

The SVE system was operated using 12 extraction points – SVE points SVE-1 through SVE-10, RW-1, and RW-3. Monitoring well MW-33 was connected to the SVE system and used as a SVE extraction point during the second half of 2014 and continued till the SVE system shut down in March 2015.

Total volatile organic compounds (VOC) and benzene concentrations in the SVE emissions have remained below levels where permitting or treatment would be required since the catalytic oxidation emission treatment system was removed in May 2009. The fresh air dilution valve was closed on September 11, 2009, and has remained closed since that time. Monthly sampling of SVE emissions has been conducted when the system has been operated to monitor that concentrations remain below regulatory levels and to evaluate system operation. Monitoring and sampling of SVE emissions has been conducted in accordance with WDNR guidelines.

The source area AS system is composed of seven AS points– AS points AS-1 through AS-7. The configuration of the AS system was changed on June 11, 2014. Sparge point AS-1 was taken offline and deep piezometer MW-7D was added as an AS point in place of AS-1. MW-7D is located in the area of the hydrocarbon plume with the highest concentration of residual hydrocarbons and air sparging was added to enhance remediation efforts. Sparging at MW-7D began on December 11, 2014. Following the AS system restart in June 2014, sparging was conducted continually at point MW-7D along with one to four other points. Sparging was conducted variably at some combination of points AS-3, AS-4, AS-5, and AS-7, based on field screening, observation of product in wells, and/or groundwater sampling results. Points that were operated were evaluated on a monthly basis.

The airflow to the each of the AS points is manually adjusted during site visits. Airflow was measured at approximately 4 to 5 standard cubic feet per minute (scfm) per point for each AS point and at approximately 20 scfm for MW-7D. The AS system was manually shut off for approximately 15 minutes during each site visit (conducted at monthly intervals) to allow the aquifer formation to collapse and potentially close any preferential airflow pathways that may have formed from long term sparge pressure. The AS system was then restarted and readjusted for airflow and/or pressure at each point. The on/off action of the system is meant to allow better dispersal of airflow over time throughout the aquifer formation, instead of along limited preferential airflow pathways that may have developed through continual pressure.

The downgradient supplemental AS system was manually shut off on March 24, 2009. Concentrations of dissolved phase hydrocarbons were less than detection limits in samples collected from wells located within, and up gradient of, the operational area of the supplemental sparge system at that time.

Free Product and Recovery

Free product had historically been observed in wells RW-1, RW-2, RW-3, MW-7, and MW-11 (Table 2), with anomalous observations of product in MW-2 in fall 2009. Water and product levels were measured on a quarterly basis in RW-1 and RW-3 when the SVE system was operating as these wells are used as SVE points. Water and product levels are otherwise measured at monthly intervals.

During 2015, product was not observed in RW-2, MW-2, MW-7, or MW-11. Product was observed in the second half of 2015 at wells RW-1 and RW-3 after the SVE system was shut down. These two wells were used as SVE points. Trace amounts of product were observed in RW-1 from July 2015 to December 2015 with a maximum reported thickness of 0.05 feet observed in August 2015. Product was observed at RW-3 from June 2015 to December 2015 at a thickness ranging from less than 0.02 feet to 0.20 feet. For October 2015, free product was not documented on the field notes for RW-3, however, oil sludge was observed in the bottom of the well. No product was observed at MW-7 in 2015. Water elevations at MW-7 were higher at all times in 2015 than elevations where product has historically been observed. Water elevation, product elevation and product thickness data for wells MW-7, RW-1 and RW-3 are shown on Charts 4, 5 and 6.

All of the wells where product historically had been observed are located within an area effectively influenced by the SVE system, as negative pressure was measured at all these wells. Additionally, free product had historically been removed from the wells (other than RW-1 and RW-2) by bailing or with absorbent pads. For 2015, only absorbent pads were used for product removal from wells RW-1 and RW-2. A total of less than 1 gallon of product was removed during 2015.

Trends in SVE Emissions

The SVE system was put into operation in January 2008. Concentrations of total VOCs (sampled as Total Petroleum Hydrocarbons (TPH)) in SVE emissions declined from a high of 51,000 ppm in March 2008 to less than 1,000 ppm in September 2008 then rebounded and stabilized in the range of approximately 1,400 to 3,400 ppm between October 2008 and December 2009, then declined again too low to non-detectable levels when the system was shut down in May 2013 (Table 6, Chart 2). TPH concentrations were greater than 100 ppm when the system was restarted in February 2014, but remain at non-detectable concentrations through the remainder of 2015.

Total VOC emissions were less than 0.4 pounds per hour during 2015. Benzene concentrations in the SVE emissions were less than detection limits during 2015 (Table 6). Total benzene discharged from the system during 2015 was less than 0.1 pounds. Therefore, emissions stayed well below regulatory levels for total VOC emission rates and total benzene mass in 2015.

Oxygen and carbon dioxide concentrations in the SVE emissions indicate that biodegradation of petroleum compounds is occurring at a rate greater than the mass removal through SVE emissions, based on calculations provided in WDNR guidance documents (WDNR File Ref: 4440, Guidance on Air Sampling and Emission Monitoring at Petroleum Contaminated Soil and Groundwater Remediation Projects).

The mass of VOCs removed by SVE through stack emissions in 2015 was negligible as VOC concentrations were less than detection limits in emission samples (Chart 3, Table 7). The mass of VOCs removed through biodegradation during 2015 was approximately 690 pounds (equivalent to approximately 2 barrels in volume). These volumes are less than previous years (except 2013 during system shutdown) due to the fact that hydrocarbon concentrations were lower in SVE emissions, and the oxygen content in SVE emissions was higher than in the past (indicating a lower biodegradation rate), the SVE system was also operated for only 2 months in 2015.

Trends in Groundwater Quality

Water samples were collected quarterly from select monitoring wells in 2015. Dissolved phase hydrocarbon concentrations declined or remained relatively stable at monitoring wells sampled relative to the concentrations observed in 2014 (Table 1, Chart 1 and 1a). Benzene was not detected in samples collected from well MW-21 in 2015 where low concentrations of benzene were historically detected on occasion in 2011 and 2013.

Benzene isoconcentration maps are presented for each of the quarterly sample rounds in 2015 as Figures 3a-d. The aerial extent of the dissolved phase plume is very similar for each of the four events in 2015. The extent is also generally consistent with extents observed since September 2009, with some fluctuations. While the extent of the plume has remained relatively consistent since 2009, dissolved phase benzene concentrations within the plume have declined by an order of magnitude or more at most wells within the footprint of the plume (Table 1, Chart 1 and 1a). The maximum benzene concentration

detected at any well in 2015 was 39.1 micrograms per liter (ug/l), which is lower than any previous year. This includes samples collected from wells where product has historically been present.

Key Findings

In 2015, the remediation system was operated from January 1 until approximately March 1, 2015. Shut down of the SVE system was planned for early 2015, and the SVE system was not restarted. Select air sparging points were restarted on June 10, 2015 and operated through the remainder of 2015. Following is a summary of system O&M and groundwater monitoring results:

- Product was observed in wells RW-1 and RW-3 in the second half of 2015 with a thickness ranging from trace amounts to less than 0.2 feet, respectively. No product was observed in other wells with historical presence (RW-2, MW-2, MW-7, or MW-11) in 2015. RW-1 and RW-3 have historically been operated as SVE points. The SVE system was not operated from March through December of 2015 and remains off.
- The concentrations of dissolved phase hydrocarbons in groundwater continue to decline as seen in previous years. The maximum benzene concentration detected at the site in 2015 was less than 40 ug/l.
- Monitoring well MW-7D was connected to the AS system to augment active remediation in an area with residual product. Active sparging has been conducted continually at point MW-7D along with alternating operation between points AS-3, AS-4, AS-5, and AS-7 since restarting the AS system in June 2015. These points are in the area with the highest dissolved phase hydrocarbon concentrations.
- Concentrations of VOCs in the SVE emissions remained less than laboratory detection limits in 2015.

Recommended System Operation

The AS system will be operated in 2016 during winter when water levels are lowest and when product may be observed in wells. System O&M and groundwater monitoring site visits will be conducted on a monthly basis while the system is operated. Due to the low to non-detectable VOC concentrations in the SVE emissions, the SVE system will stay shut down in 2016.

Sparging at MW-7D was started in December 2014 as a test to determine if sparging will be effective to remove residual product occasionally observed at MW-7. The AS system will continue to be operated at points MW-7D and other points within the area of the groundwater plume with the highest residual hydrocarbon concentrations until early summer 2016.

Wells where product has historically been observed will be redeveloped in spring 2016 to remove sediment and product residual from the wells and filter pack material. Wells where product has been most persistent have been operated as SVE points in the past (RW-1, RW-3, and MW-7). Product recharges very slowly to these wells and only in trace amounts. This product may not be indicative of the product in the aquifer. Monthly visits will be conducted to evaluate presence and thickness of product in these wells in summer of 2016.

We recommend shutting down the AS system in 2016 and halting all active remediation at the site based on the continually declining VOC concentrations in the dissolved phase plume and very limited amount of product observed in source area wells. However, product observed in wells should continue to be removed to help evaluate recharge rates. Product recharge to wells has been at a maximum of a few ounces per month. Therefore active product recovery does not appear to be needed, necessary, or cost effective. Additionally, VOC concentrations have been relatively low at wells where product has been observed indicating the residual product is not acting as a continuing source of dissolved phase hydrocarbons which would cause an expansion of the plume. No expansion of the dissolved phase plume has been observed during past system shut downs. Analytical groundwater samples will be collected quarterly from select wells as part of remediation monitoring.

If the dissolved phase plume remains stable or continues to decline after system shutdown, and no additional product is observed at the site after system shutdown, a case closure report will be prepared after the appropriate number of quarterly sampling rounds has been conducted in accordance with NR 700.

II. WI DNR Form 4400-194

PURPOSE AND APPLICABILITY OF THIS FORM: Completion of this form is required under s. NR 724.13(e), Wis. Adm. Code. Use of this form is mandatory. Failure to submit this form as require is a violation of s. NR 724.13, Wis. Adm. Code, and is subject to the penalties in s. 144.99, Wis. Stats. This form must be submitted every six months for active soil and groundwater remediation projects and every twelve months for passive (natural attenuation) remediation projects that are regulated under the NR 700 series of Wis. Adm. Code. Specifically, for sites meeting any of the following criteria:

- Soil or groundwater remediation projects that report progress in accordance with s. NR 700.11(1), Wis. Adm. Code.
- Soil or groundwater remediation projects that report progress in accordance with s. NR 724.13(3), Wis. Adm. Code. (Note: s. NR 724.13(3) requires progress reports for operation and maintenance of active systems to be submitted every three months however the Department considers submittal of this form every six months to satisfy the requirements of the rules, unless otherwise directed by the Department on a site specific basis.)
- Soil or groundwater remediation projects that report progress in accordance with s. NR 724.17(3), Wis. Adm. Code. (Note: s. NR 724.17(3) requires progress reports every time that samples are collected however the Department considers submittal of this form every twelve months to satisfy the requirements of the rules for monitoring natural attenuation, unless otherwise directed by the Department on a site specific basis.)

Submittal of this form is not a substitute for reporting required by Department programs such as Wastewater or Air Management. Personally identifiable information on this form is not intended to be used for any other purpose than tracking progress of the remediation by the Bureau for Remediation and Redevelopment.

Please refer to the instructions that are attached to the back of these forms starting on page INS-1. In all cases, when asked to "explain," those explanations are to be included on separate sheets of paper. Explanations must include a title that refers to the page and item number, for example: Page GI-2, C.1 .a.

A. GENERAL INFORMATION:

1. Site name: Enbridge Energy, Limited Partnership, Line 14, MP-85 Crude Oil Release Site
2. Reporting period from: 01/01/15 To 12/31/15 Days in period: 365
3. Regulatory agency (enter DNR, DCOM, DATCP and/or other): DNR
4. DNR issued site number: WDNR BRRTS #02-55-548746
5. State reimbursement fund claim number and fund name (if not applicable, enter NA): NA
6. Site location:
   a. DNR region and county: Rusk
   b. Street address and municipality: 9150 Reichel Road, Bruce, WI 54819
   c. Township, range, section and quarter quarter section: SW ¼ of NW ¼, Section 9, Township 36 N, Range 7 W
7. Responsible party:
   a. Name: Enbridge Energy, Limited Partnership, attn: Karl Beaster
   b. Mailing address: 119 N 25th Street E, Superior, WI 54880
   c. Phone number: 715-398-4754
8. Consultant:
   a. Company name: Barr Engineering Co., attn: Jon Aspie
   b. Mailing address: 325 South Lake Ave, Suite 700, Duluth, MN 55802
   c. Phone number: 218-529-8200
9. Contaminants: Petroleum hydrocarbons related to crude oil.
10. Soil types (USCS or USDA): CL (0-5' bgs), SP - SM (5+ ft bgs)
11. Hydraulic conductivity (cm/sec): 0.04 cm/sec
12. Average linear velocity of groundwater (ft/yr): 146 to 292 ft/yr

GENERAL SITE INFORMATION, CONTINUED

SITE NAME AND REPORTING PERIOD:

Site name: Enbridge Energy, Limited Partnership, Line 14, MP-85 Crude Oil Release Site

Reporting period from: 01/01/15 To: 12/31/15 Days in period: 365

A. GENERAL INFORMATION (CONTINUED):

13. If soil is treated ex situ, is the treatment location off site? (Y/N) If yes, give location: NA

    a. DNR region and county: _____

    b. Township, range, section and quarter quarter section: _____

B. REMEDIATION METHOD: Only submit pages that apply to an individual site. Check all that apply:

- ☐ ___ Groundwater extraction (submit a completed page GW-1).
- ☐ ___ Free product recovery (submit a completed page GW-1).
- ☒ ___ In situ air sparging (submit a completed page GW-2).
- ☐ ___ Groundwater natural attenuation (submit a completed page GW-3).
- ☐ ___ Other groundwater remediation method (submit a completed page GW-4).
- ☒ ___ Soil venting (including soil vapor extraction and bioventing, submit a completed page IS-1).
- ☐ ___ Soil natural attenuation (submit a completed page IS-2).
- ☐ ___ Other in situ soil remediation method (submit a completed page IS-3).
- ☐ ___ Biopiles (submit a completed page ES-1).
- ☐ ___ Landspreading/thinspreading of petroleum contaminated soil (submit a completed page ES-2).
- ☐ ___ Other ex situ soil remediation method (submit a completed page ES-3).

C. GENERAL EFFECTIVENESS EVALUATION FOR ALL ACTIVE SYSTEMS: If the remediation is active (not natural attenuation), complete this subsection.

1. Is the system operating at design rates and specifications? (Y/N): Y

   If the answer is no, explain whether or not modifications are necessary to achieve the goal that was previously established in design.

2. Are modifications to the system warranted to improve effectiveness? (Y/**N**) If yes, explain: N, The groundwater table has risen since the time of the release. An additional air sparge point was added to the system in an area where residual product is occasionally observed to increase active remediation of hydrocarbon mass currently present below the water table.

3. Is natural attenuation an effective low cost option at this time? (**Y**/N): Y

4. Is closure sampling warranted at this time? (Y/N): N

5. Are there any modifications that can be made to the remediation to improve cost effectiveness? (Y/N) If yes, explain: N

D. ECONOMIC AND COST DATA TO DATE:

1. Total investigation costs ($): Costs are not provided at this time.

2. Implementation costs (design, capital and installation costs, excluding investigation costs) ($):NA

3. Total costs during the previous reporting period ($): NA

4. Total costs during this reporting period ($): NA

5. Total anticipated costs for the next reporting period ($): NA

6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? (Y/N) If yes explain: NA

7. If close out is anticipated within 12 months, estimated costs for project closeout ($): NA

GENERAL SITE INFORMATION, CONTINUED

SITE NAME AND REPORTING PERIOD:

Site name: Enbridge Energy, Limited Partnership, Line 14, MP-85 Crude Oil Release Site

Reporting period from: 01/01/15 To: 12/31/15 Days in period: 365

E. NAME(S), SIGNATURE(S) AND DATE OF PERSON(S) SUBMITTING FORM: Legibly print name, date and sign. Only persons qualified to submit reports under ch. NR 712 Wis. Adm. Code are to sign this form.

Registered Professional Engineers:

I (print name) _____, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature, title, P.E. Number and date: _____

Hydrogeologists:

I (print name) _____, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature, title and date: _____

Scientists:

I (print name) _____, hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature, title and date: _____

Professional Seal(s), if applicable:

GENERAL SITE INFORMATION, CONTINUED

SITE NAME AND REPORTING PERIOD:

Site name: Enbridge Energy, Limited Partnership, Line 14, MP-85 Crude Oil Release Site

Reporting period from: 01/01/15 To: 12/31/15 Days in period: 365

E. NAME(S), SIGNATURE(S) AND DATE OF PERSON(S) SUBMITTING FORM: Legibly print name, date and sign. Only persons qualified to submit reports under ch. NR 712 Wis. Adm. Code are to sign this form.

Registered Professional Engineers:

I (print name) _____, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature, title, P.E. Number and date: _____

Hydrogeologists:

I (print name) Jon M. Aspie, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

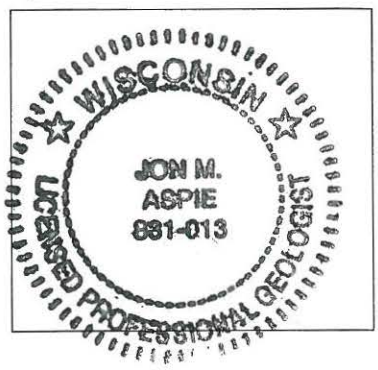
Signature, title and date: Jon Aspie, P.G., Hydrogeologist, 4/21/16

Scientists:

I (print name) _____, hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Signature, title and date: _____

Professional Seal(s), if applicable:



IN SITU AIR SPARGING SYSTEMS

SITE NAME AND REPORTING PERIOD:

Site name: Enbridge Energy, Limited Partnership, Line 14, MP-85 Crude Oil Release Site

Reporting period from: 01/01/15 To: 12/31/15 Days in period: 365

Date that the system was first started up: 3/10/08 (Line 3), 4/1/08 (Lines 1 and 2), 4/8/08 (Source Area)

A. IN SITU AIR SPARGING SYSTEM OPERATION:

1. Number of air injection wells at the site and the number actually in use during the period: A total of 75 sparge points, including 68 points associated with the supplemental sparge system located downgradient of the source area, are present at the site. The source area sparge system contains 7 sparge points operating in conjunction with source area SVE system. Seven dedicated source area sparge points were initially installed in 2008 and were operated cotinually or on a planned rotation from February 26, to June 9 in 2014. Deep monitoring well MW-7D was connected to the sparge system in place of sparge point AS-1 in June 2014 to direct air into the plume and was sparging operational on December 11, 2014. Sparging has been conducted continually at point MW-7D and alternating between AS-3, AS-4, AS-5, and AS-7 since the system was restarted in June 2015, which is in the area with the highest dissolved phase hydrocarbon concentrations.

The supplemental sparge system was not operated during 2015. The supplemental sparge system was manually turned off March 24, 2009 because dissolved phase hydrocarbon concentrations in groundwater were less than detection limits in the area of the supplemental sparge system. The compressor for the supplemental sparge system was removed in September 2012, as no future use of the supplemental sparge system was expected to be conducted.

2. Number of days of operation (only list the number of days the system actually operated, if unknown explain): Supplemental AS System: 0 days / Source Areas AS System: 263 days

3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain: Supplemental AS System: 0% Source Areas AS System: 72%

B. SYSTEM EFFECTIVENESS EVALUATION:

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in B.1.a.

a. Contaminant: Free Product

b. Percent reduction necessary to reach ch. NR 140 ES and PAL: NA

c. Maximum contaminant concentration level in any monitoring well (µg/L): Benzene: 39.1 ug/L at MW-7 in Janurary 2015, during this reporting period.

2. Is there any evidence that air is short circuiting through natural or man-made pathways? (Y/N) If so, explain: N

3. Is the size of the plume increasing, stabilized, or decreasing (if increasing, explain): The aerial size of the plume has stabilized, and the concentrations within the plume were stable or declining in 2015.

C. ADDITIONAL ATTACHMENTS: Attach the following to this form:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Site map with all air injection wells and groundwater monitoring points.
- Graph of contaminant concentrations versus time for the contaminant listed in B.1 .a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- System operational data table.

SOIL VENTING (INCLUDING BOTH SOIL VAPOR EXTRACTION AND BIOVENTING)

SITE NAME AND REPORTING PERIOD:

Site name: Enbridge Energy, Limited Partnership, Line 14, MP-85 Crude Oil Release Site

Reporting period from: 01/01/15 To: 12/31/15 Days in period: 365

Date that the system was first started up: 1/17/08

A. SOIL VENTING SYSTEM OPERATION:

1. Number of air extraction wells available and number of wells actually in use during the period: The SVE system was operated using 12 extraction points – SVE points SVE-1 through SVE-10, RW-1, and RW-3. Monitoring well MW-33 was connected to the SVE system and used as a SVE extraction point during the second half of 2014 and continued till the SVE system shut down in March 2015.

The system was restarted on February 26, 2014 and operated continuously until approximately March 1, 2015, when the system shut down due to unknown reasons. Shut down of the SVE system was planned for early 2015, and the system was not restarted.

2. Number of days of operation (only list the number of days the system actually operated, if unknown explain): 59

3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If less than 80%, explain: 16% (Jan 1 through approximately March 1, 2015, due to system shut down.

4. Average depth to groundwater: 35 feet (in the area of the SVE system)

B. EFFECTIVENESS EVALUATION: [START HERE]

1. Average contaminant removal rate for the entire system (pounds per day): Direct removal via SVE emissions averaged approximately 1 pounds per day during the operational period of January 1 to approximately March 1, 2015 plus an additional average removal of approximately 35 pounds per day due to biodegradation.

2. Average contaminant removal rate per well (pounds per day): 1.0 pounds per day per SVE well by direct removal, plus an additional 6 pounds per day average per well for biodegradation.

3. If the average contaminant removal rate is less than one pound per day for the entire system, or if the average contaminant removal rate per well is less than one tenth of a pound per day, evaluate the following:

a. If contaminants are aerobically biodegradable and confirmation borings have not been drilled in the past year:
   i. Oxygen levels in extracted air (percent): 20.4 to 20.5%
   Methane levels in extracted air (ppm_v) If over 10 ppm_v, explain: N/A
   iii. If methane is not present above 10 ppm_v and if oxygen is greater than 20 percent in extracted air, you should either:
      - Drill confirmation borings during the next reporting period, if the entire site should be considered for closure.
      - Or, perform an in situ respirometry test in a zone of high contamination. Do not perform the test in an air extraction well, use a gas probe or water table well. If a zero order rate of decay based on oxygen depletion is less than 2 mg/kg per day, then you should drill confirmation borings, if the entire site should be considered for closure. If the rate of decay is between 2 and 10 mg/kg, operate for one more reporting period before evaluating further. If the zero order rate of decay is greater than 10 mg/kg total hydrocarbons, continue operating the system in a manner than maximizes aerobic biodegradation.

b. If contaminants are not aerobically biodegradable and confirmation borings have not been recently drilled during the past year, you should drill confirmation borings during the next reporting period if the entire site should be considered for closure.

c. If soil borings were drilled during the past year and soil contamination remains above acceptable levels, explain if the system effectiveness can be increased and/or if other options need to be considered to achieve cleanup criteria.

C. ADDITIONAL ATTACHMENTS: Attach the following to this form:

- Well and soil sample location map indicating all air extraction wells. If forced air injection wells are also in use, identify those wells.
- If water table monitoring wells are present at the site, a map of well locations.
- Time versus vapor phase contaminant concentration graph.
- Time versus cumulative contaminant removal graph.
- Groundwater elevations table, if water table wells are present at the site; also list screen lengths and elevations. Table of soil contaminant chemistry data.
- Soil gas data, if gas probes are used to monitor subsurface conditions in locations other than where air is extracted. System operational data table.

III. Figures

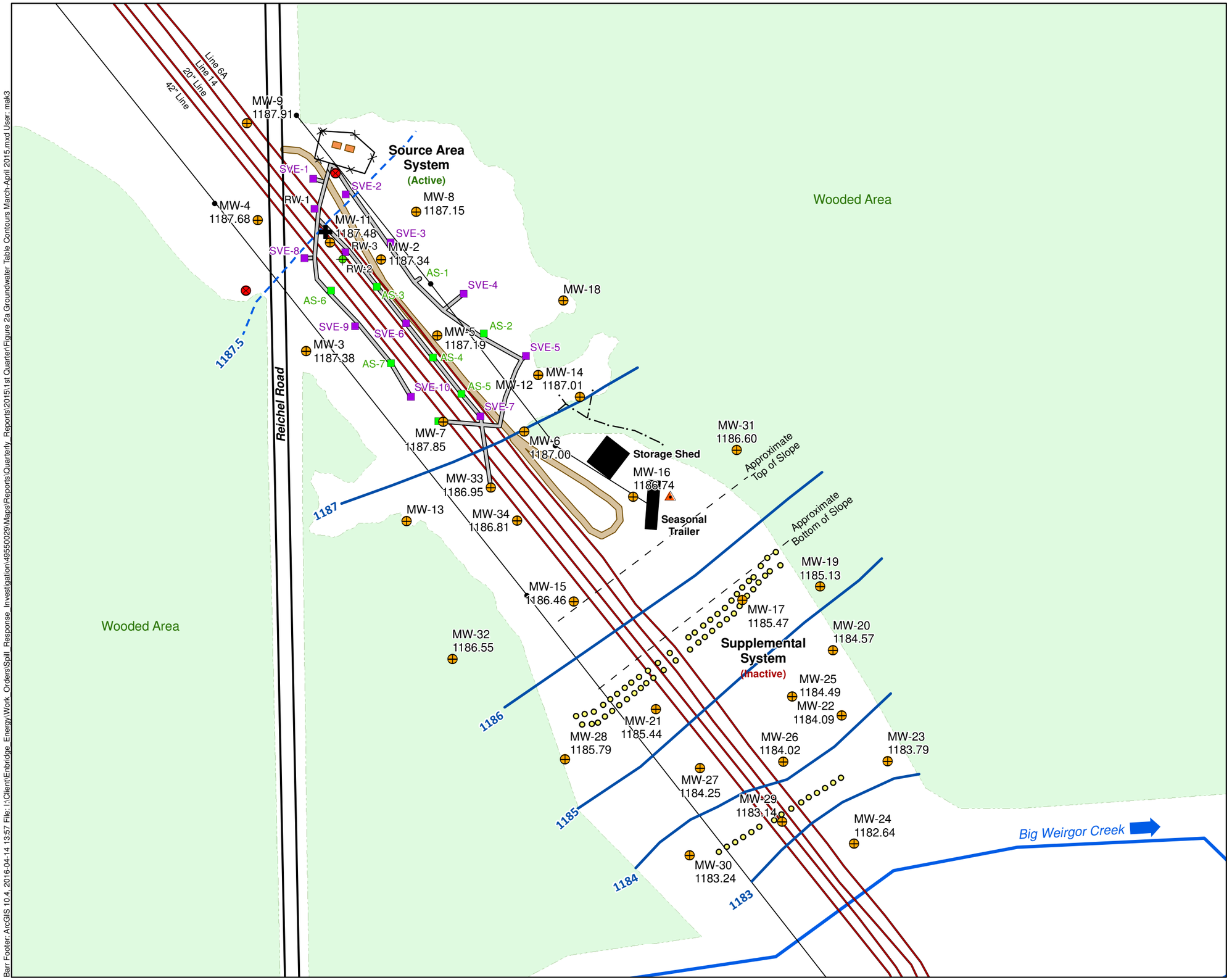
Barr Footer: Date: 6/3/2008 1:04:50 PM File: I:\Client\Enbridge\Work_Orders\Spill_Release\Line14\Maps\Reports\RI_Report\Figure 1 Site Location Map.mxd User: arm2

Release Location: NW 1/4, Section 9
Township 36 N, Range 7 W

2,000 0 2,000
Feet

Figure 1

SITE LOCATION MAP
Enbridge Energy, Limited Partnership
Line 14, MP-85 Crude Oil Release Site
Rusk County, Wisconsin



Groundwater Table Contours

Release Location

Monitoring Wells

Abandoned Monitoring Wells

Recovery Wells

Supplemental Sparge Wells

Residential Well

Source Area Sparge Wells

SVE Points

Fence

Ravine

Approximate Pipeline Locations

Overhead Powerlines and Poles

Remediation System Sheds

SVE / AS Trench

Driveway

Structures

Approximate River Flow Direction

1186.25 Water Elevation in Well

* Free Product Present

DRAFT

N

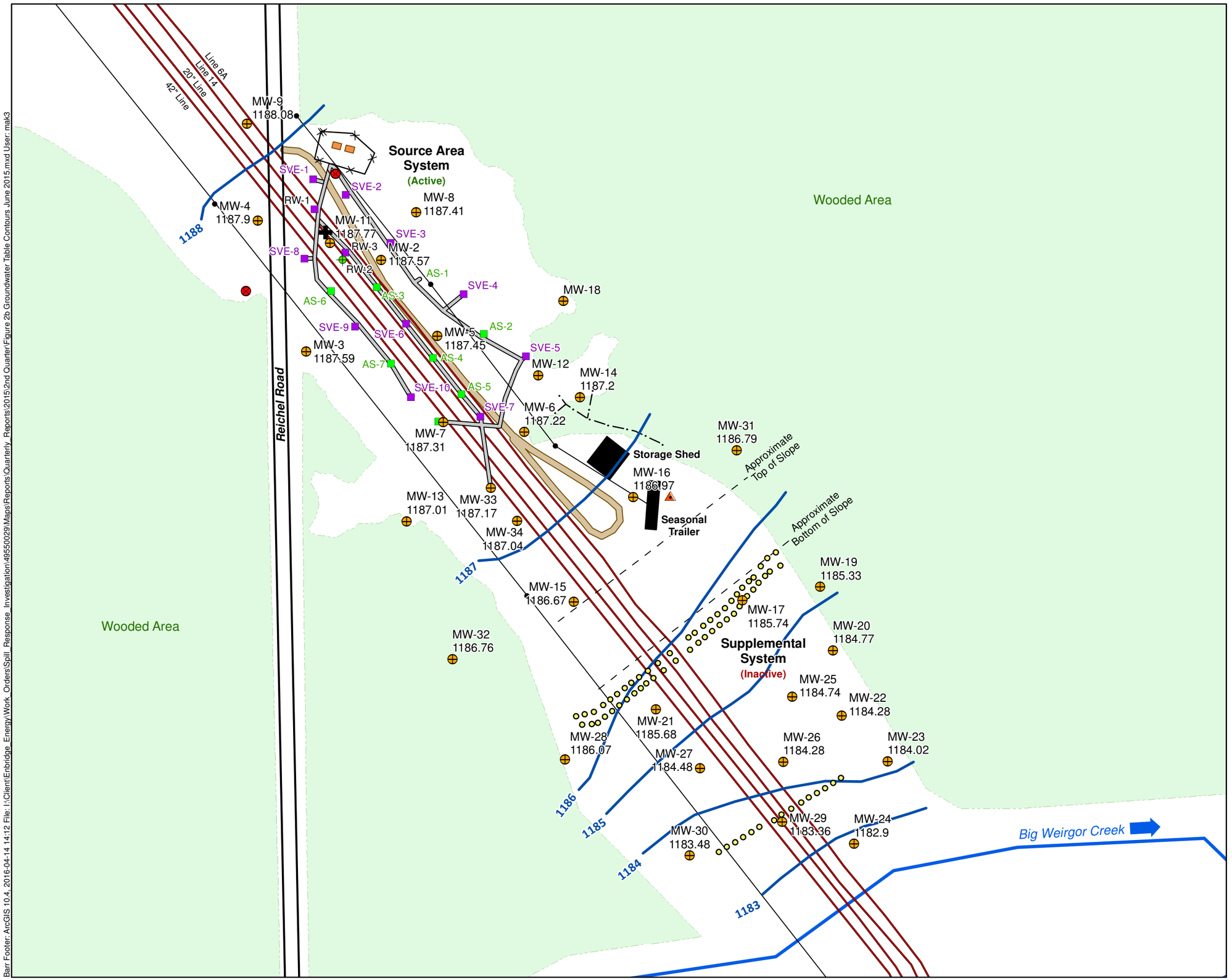
150 0 150

Feet

BARR

Figure 2a

GROUNDWATER TABLE CONTOURS
March/April 2015
Enbridge Energy, Limited Partnership
Line 14, MP 85 Crude Oil Release Site
Rusk County, Wisconsin



Groundwater Table Contours
Release Location
Monitoring Wells
Abandoned Monitoring Wells
Recovery Wells
Supplemental Sparge Wells
Residential Well
Source Area Sparge Wells
SVE Points
Fence
Ravine
Approximate Pipeline Locations
Overhead Powerlines and Poles
Remediation System Sheds
SVE / AS Trench
Driveway
Structures
Approximate River Flow Direction
1186.25 Water Elevation in Well
* Free Product Present

DRAFT

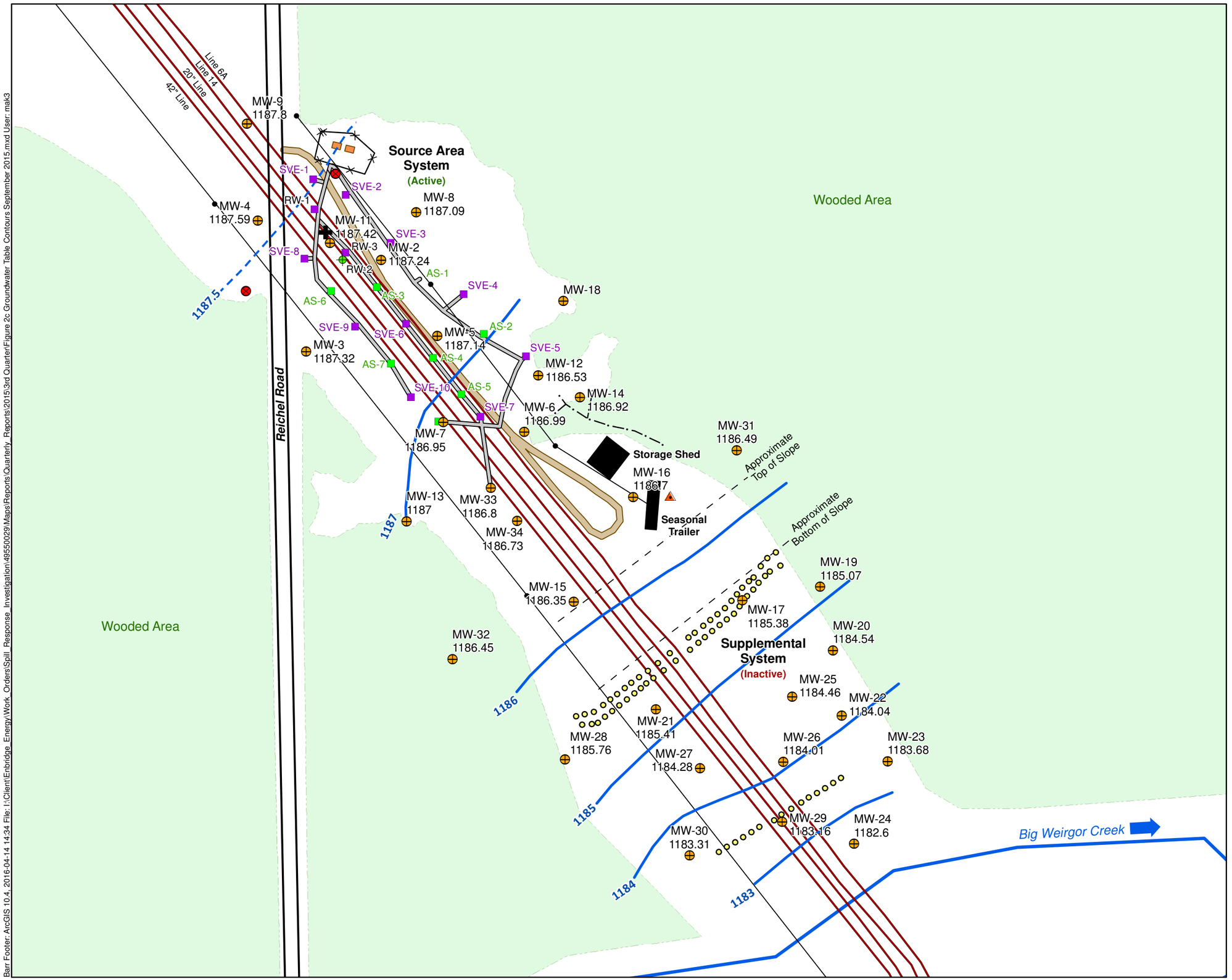
N

150 0 150
Feet

BARR

Figure 2b

GROUNDWATER TABLE CONTOURS
June 2015
Enbridge Energy, Limited Partnership
Line 14, MP 85 Crude Oil Release Site
Rusk County, Wisconsin



Groundwater Table Contours
Release Location
Monitoring Wells
Abandoned Monitoring Wells
Recovery Wells
Supplemental Sparge Wells
Residential Well
Source Area Sparge Wells
SVE Points
Fence
Ravine
Approximate Pipeline Locations
Overhead Powerlines and Poles
Remediation System Sheds
SVE / AS Trench
Driveway
Structures
Approximate River Flow Direction
1186.25 Water Elevation in Well
* Free Product Present

DRAFT

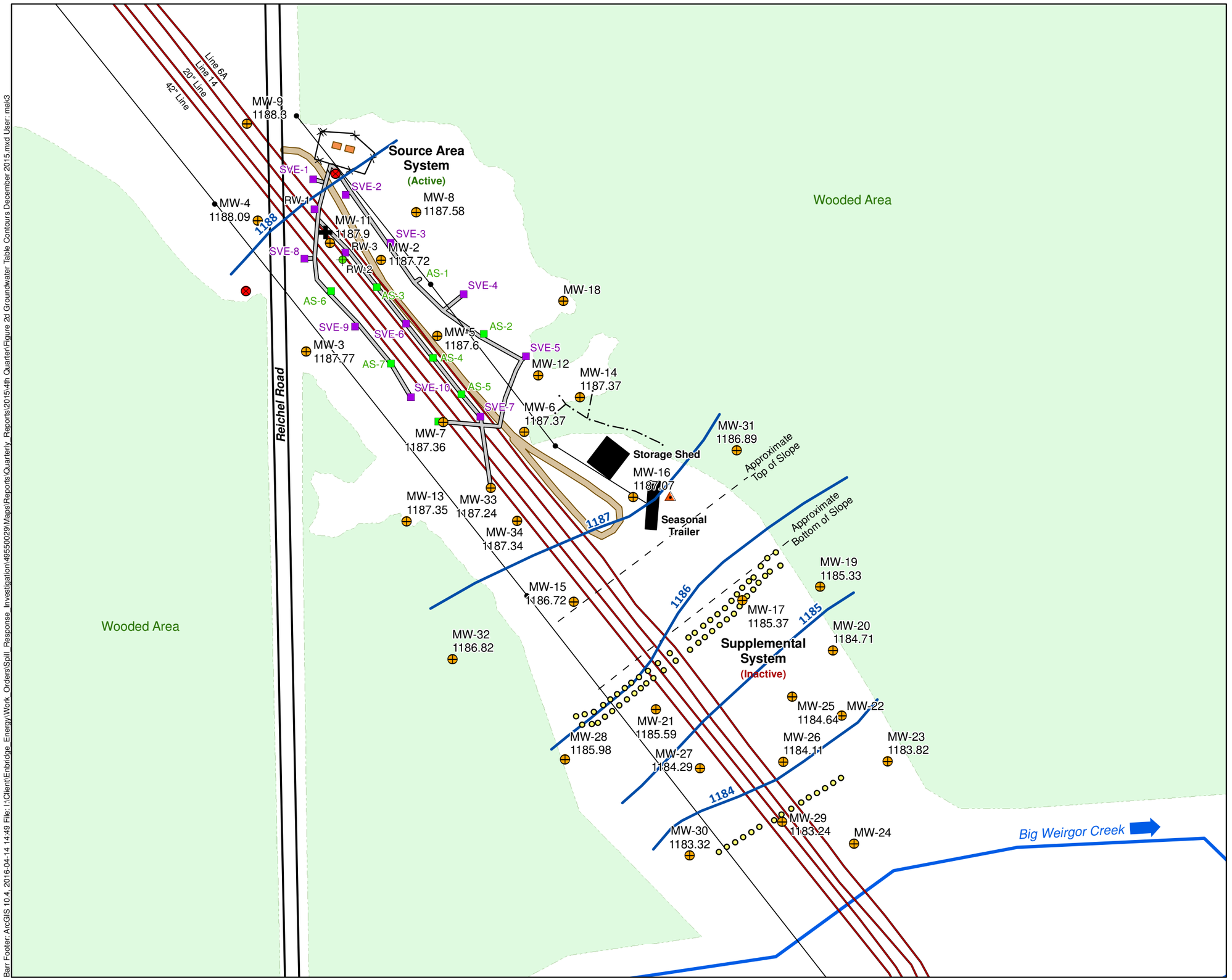
N

150 0 150
Feet

BARR

Figure 2c

GROUNDWATER TABLE CONTOURS
September 2015
Enbridge Energy, Limited Partnership
Line 14, MP 85 Crude Oil Release Site
Rusk County, Wisconsin



Groundwater Table Contours
Release Location
Monitoring Wells
Abandoned Monitoring Wells
Recovery Wells
Supplemental Sparge Wells
Residential Well
Source Area Sparge Wells
SVE Points
Fence
Ravine
Approximate Pipeline Locations
Overhead Powerlines and Poles
Remediation System Sheds
SVE / AS Trench
Driveway
Structures
Approximate River Flow Direction
1186.25 Water Elevation in Well
* Free Product Present

DRAFT

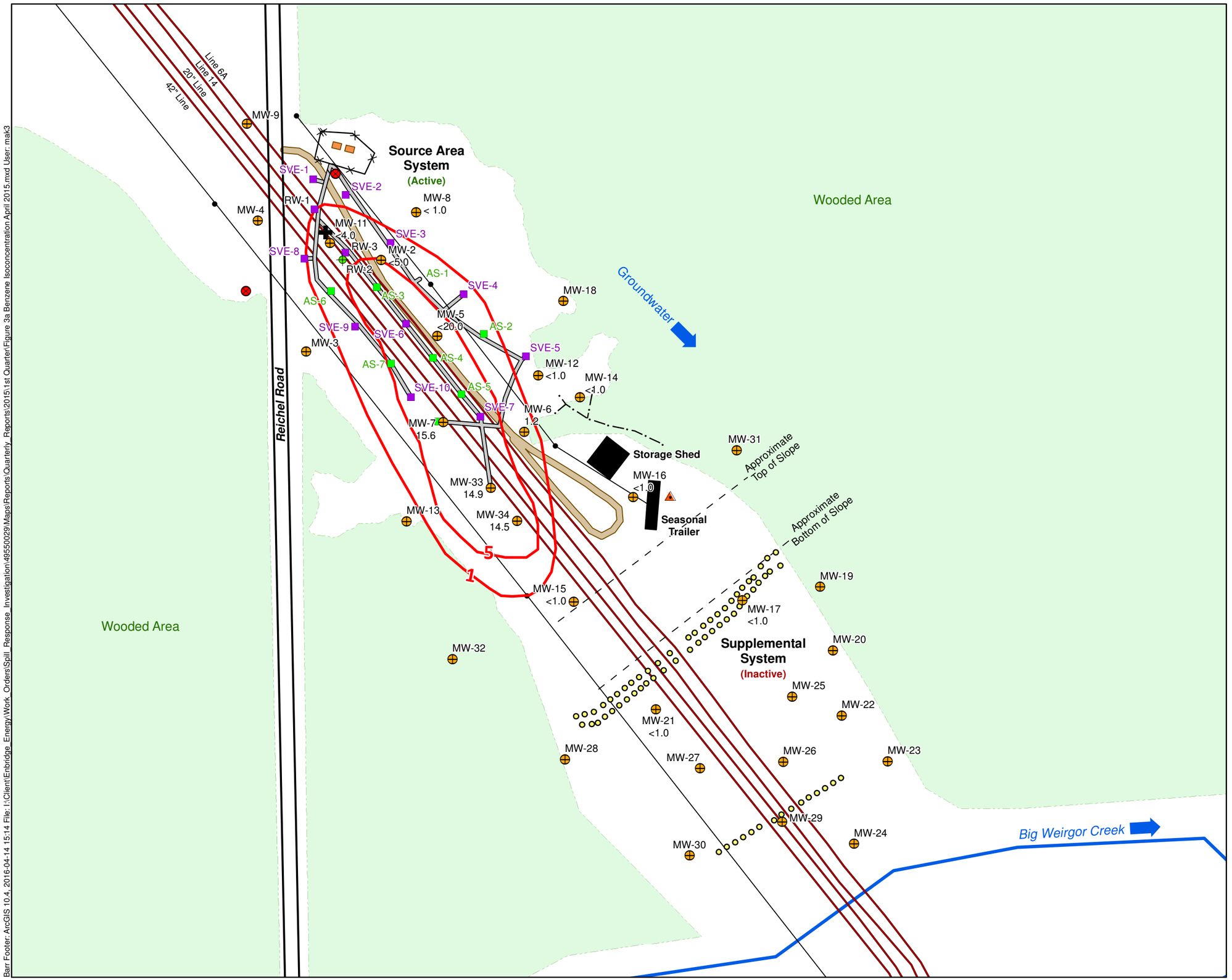
N

150 0 150
Feet

BARR

Figure 2d

GROUNDWATER TABLE CONTOURS
December 2015
Enbridge Energy, Limited Partnership
Line 14, MP 85 Crude Oil Release Site
Rusk County, Wisconsin



Benzene Isoconcentration Contours Micrograms per Liter (ug/L)

Release Location

Monitoring Wells

Abandoned Monitoring Wells

Recovery Wells

Supplemental Sparge Wells

Residential Well

Source Area Sparge Wells

SVE Points

Fence

Ravine

Approximate Pipeline Location

SVE / AS Trench

Remediation System Sheds

Driveway

Structures

Approximate Groundwater and River Flow Direction

680 Benzene Concentration in Water Sample from Well (ug/L)

< 1 Concentration Less than Indicated Method Detection Limit (ug/L)

*FP Free Product Present

DRAFT

N

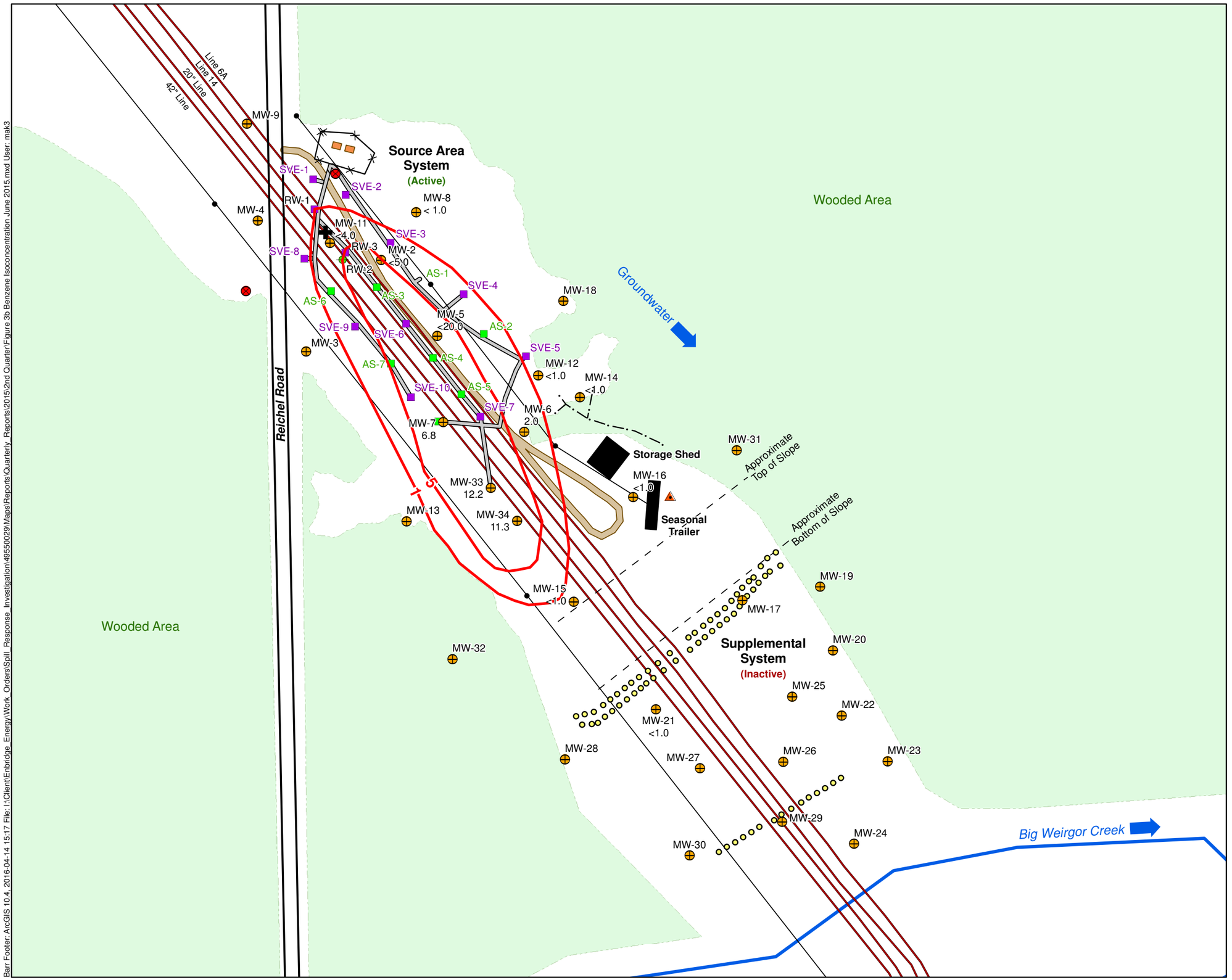
150 0 150

Feet

BARR

Figure 3a

BENZENE ISOCONCENTRATION
April 2015
Enbridge Energy, Limited Partnership
Line 14, MP 85 Crude Oil Release Site
Rusk County, Wisconsin



Benzene Isoconcentration Contours Micrograms per Liter (ug/L)

Release Location

Monitoring Wells

Abandoned Monitoring Wells

Recovery Wells

Supplemental Sparge Wells

Residential Well

Source Area Sparge Wells

SVE Points

Fence

Ravine

SVE / AS

Approximate Pipeline Location

Remediation System Sheds

Driveway

Structures

Approximate Groundwater and River Flow Direction

680 Benzene Concentration in Water Sample from Well (ug/L)

< 1 Concentration Less than Indicated Method Detection Limit (ug/L)

*FP Free Product Present

DRAFT

N

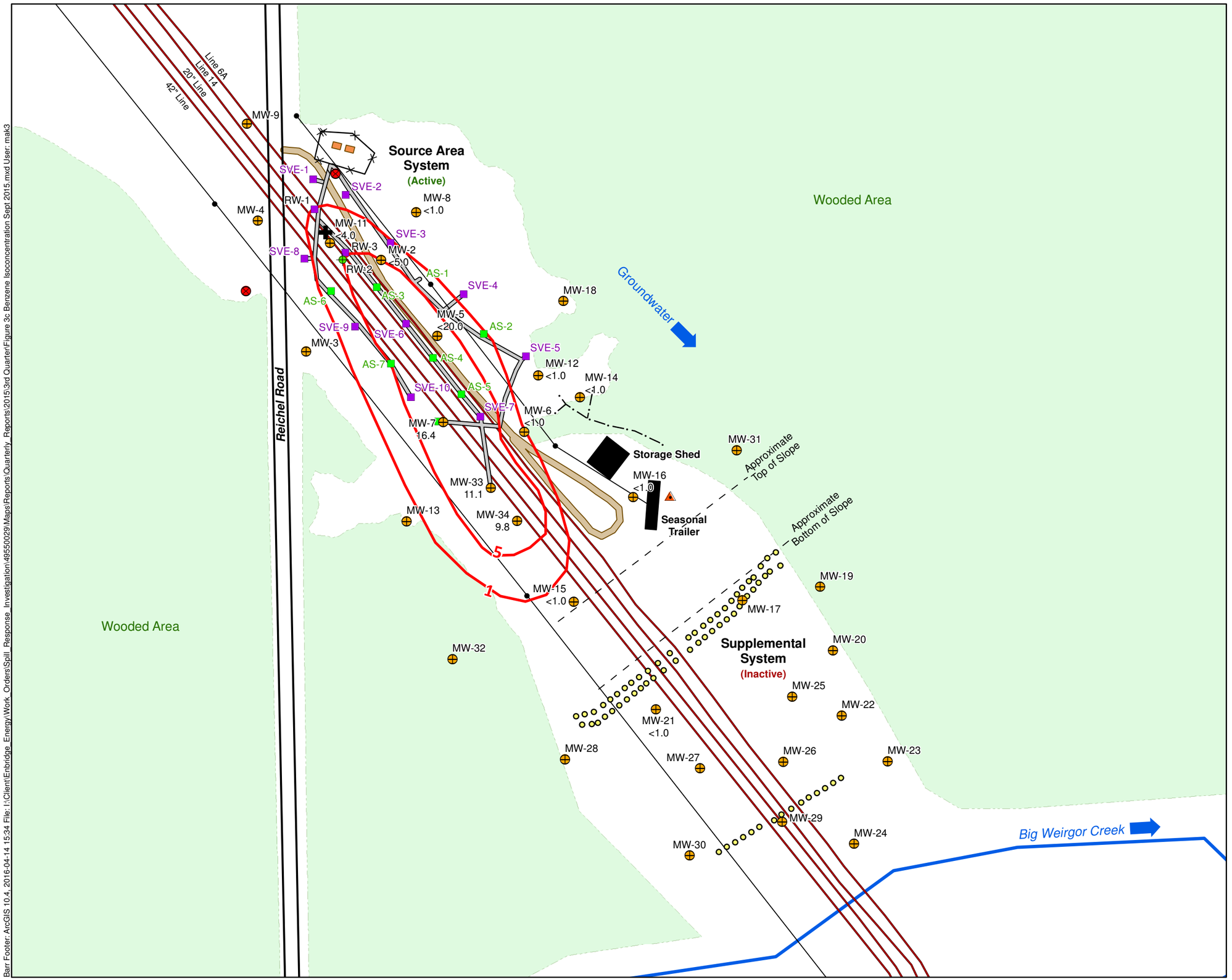
150 0 150

Feet

BARR

Figure 3b

BENZENE ISOCONCENTRATION
June 2015
Enbridge Energy, Limited Partnership
Line 14, MP 85 Crude Oil Release Site
Rusk County, Wisconsin



Barr Footer: ArcGIS 10.4, 2016-04-14 15:34 File: I:\Client\Enbridge_Energy\Work_Orders\Spill_Response_Investigation\49550029\Maps\Reports\Quarterly_Reports\2015\3rd Quarter\Figure 3c Benzene Isoconcentration Sept 2015.mxd User: mak3

- Benzene Isoconcentration Contours Micrograms per Liter (ug/L)
- Release Location
- Monitoring Wells
- Abandoned Monitoring Wells
- Recovery Wells
- Supplemental Sparge Wells
- Residential Well
- Source Area Sparge Wells
- SVE Points
- Fence
- Ravine
- SVE / AS
- Approximate Pipeline Location
- Remediation System Sheds
- Driveway
- Structures
- Approximate Groundwater and River Flow Direction
- 680 — Benzene Concentration in Water Sample from Well (ug/L)
- < 1 — Concentration Less than Indicated Method Detection Limit (ug/L)
- *FP — Free Product Present

DRAFT

N

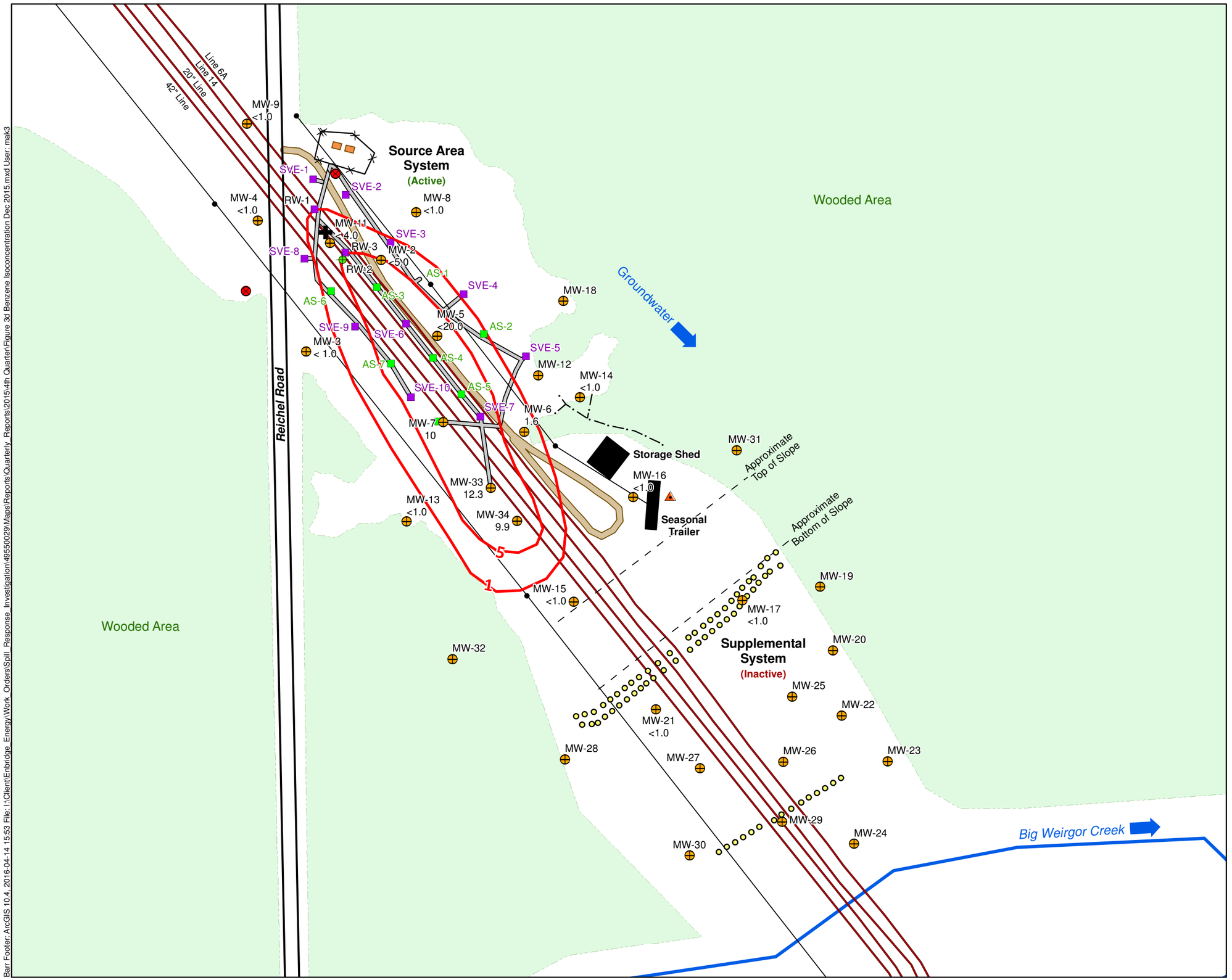
150 0 150

Feet

BARR

Figure 3c

BENZENE ISOCONCENTRATION
Sept 2015
Enbridge Energy, Limited Partnership
Line 14, MP 85 Crude Oil Release Site
Rusk County, Wisconsin



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Benzene Isoconcentration Contours Micrograms per Liter (ug/L)

Release Location

Monitoring Wells

Abandoned Monitoring Wells

Recovery Wells

Supplemental Sparge Wells

Residential Well

Source Area Sparge Wells

SVE Points

Fence

Ravine

SVE / AS

Approximate Pipeline Location

Remediation System Sheds

Driveway

Structures

Approximate Groundwater and River Flow Direction

680 Benzene Concentration in Water Sample from Well (ug/L)

< 1 Concentration Less than Indicated Method Detection Limit (ug/L)

*FP Free Product Present

DRAFT

N

150 0 150

Feet

BARR

Figure 3d

BENZENE ISOCONCENTRATION
December 2015
Enbridge Energy, Limited Partnership
Line 14, MP 85 Crude Oil Release Site
Rusk County, Wisconsin

IV. Charts

Chart 1
Benzene Concentration vs Time
Wells Where Maximum Concentrations Exceeded 1,000 ug/l
Enbridge Energy Limited Parternship - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

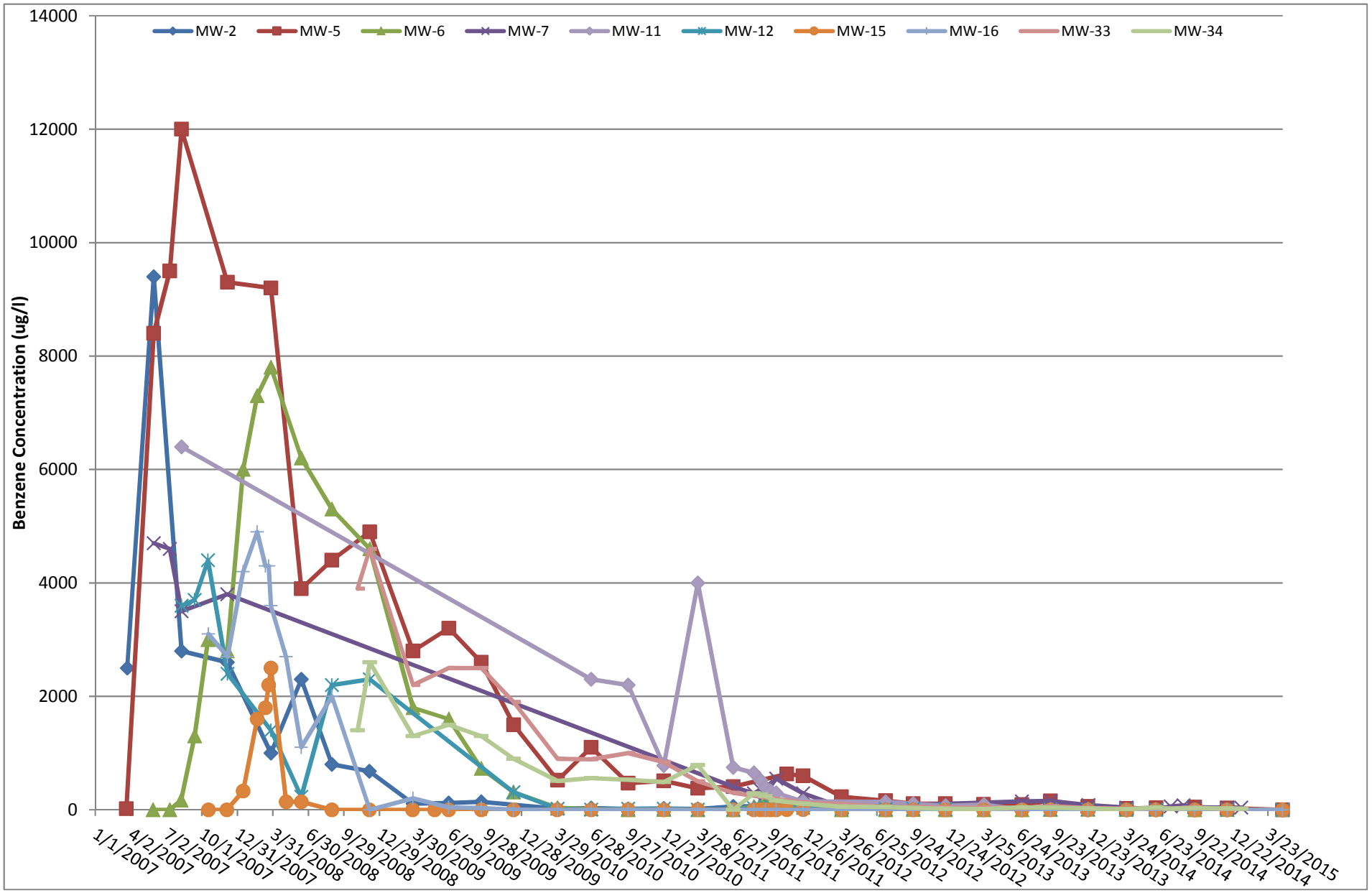


Chart 1a
Benzene Concentrations vs Time
Wells from Chart 1 Displaying Data starting in 2010
Enbridge Energy Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

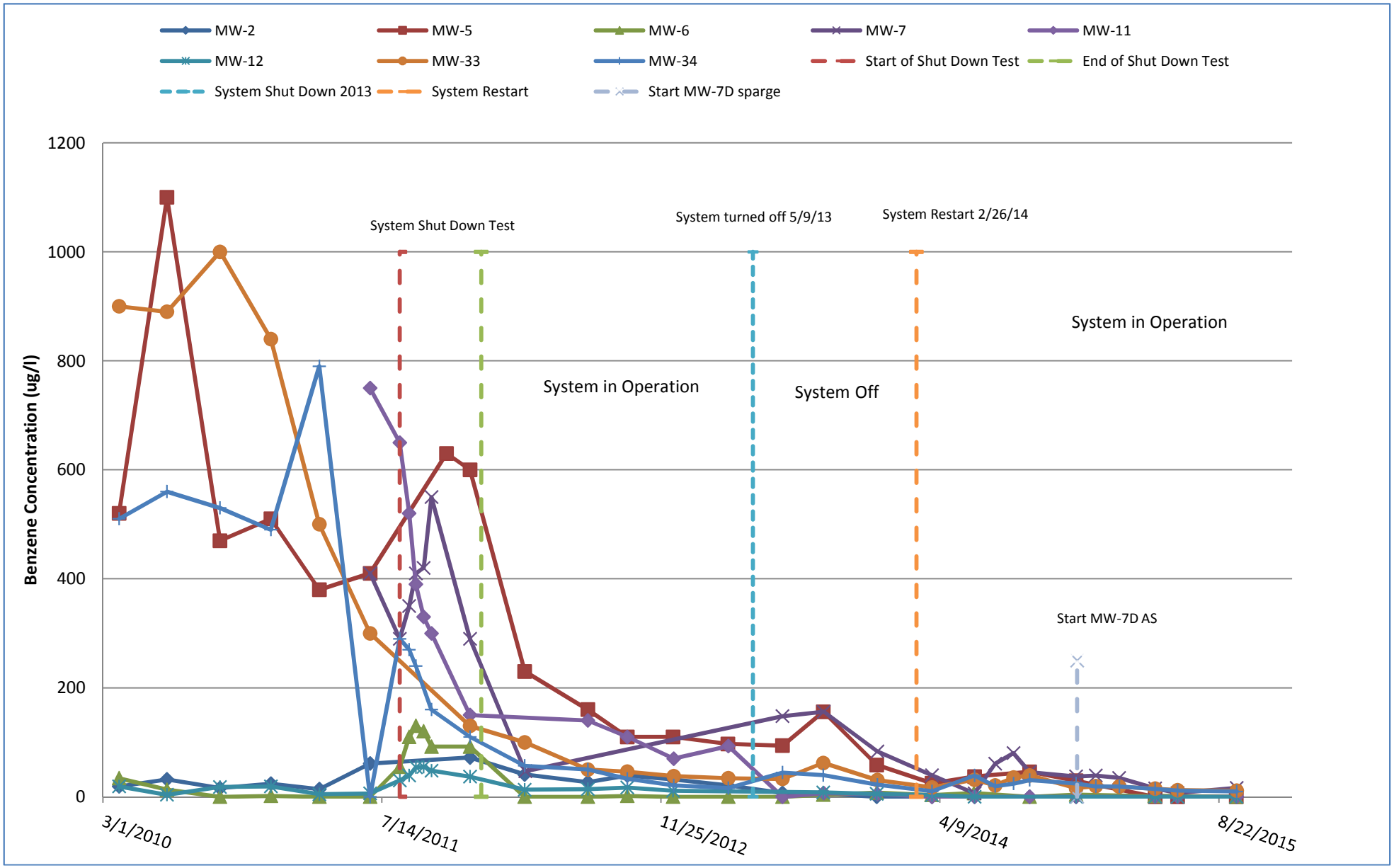


Chart 1b
Benzene Concentrations vs Time
Wells from Chart 1 Displaying Data for Recent 2 Years
Enbridge Energy Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

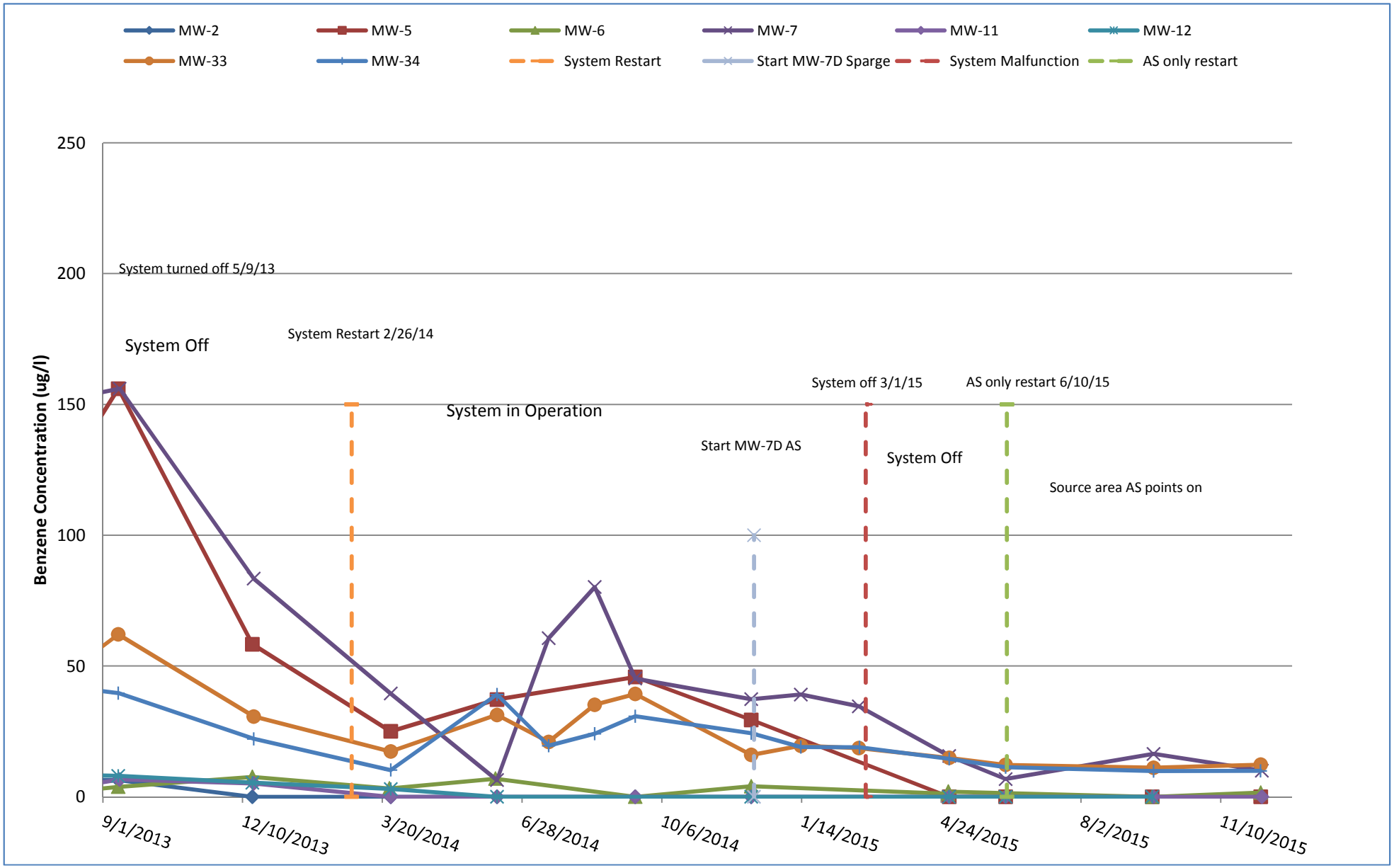
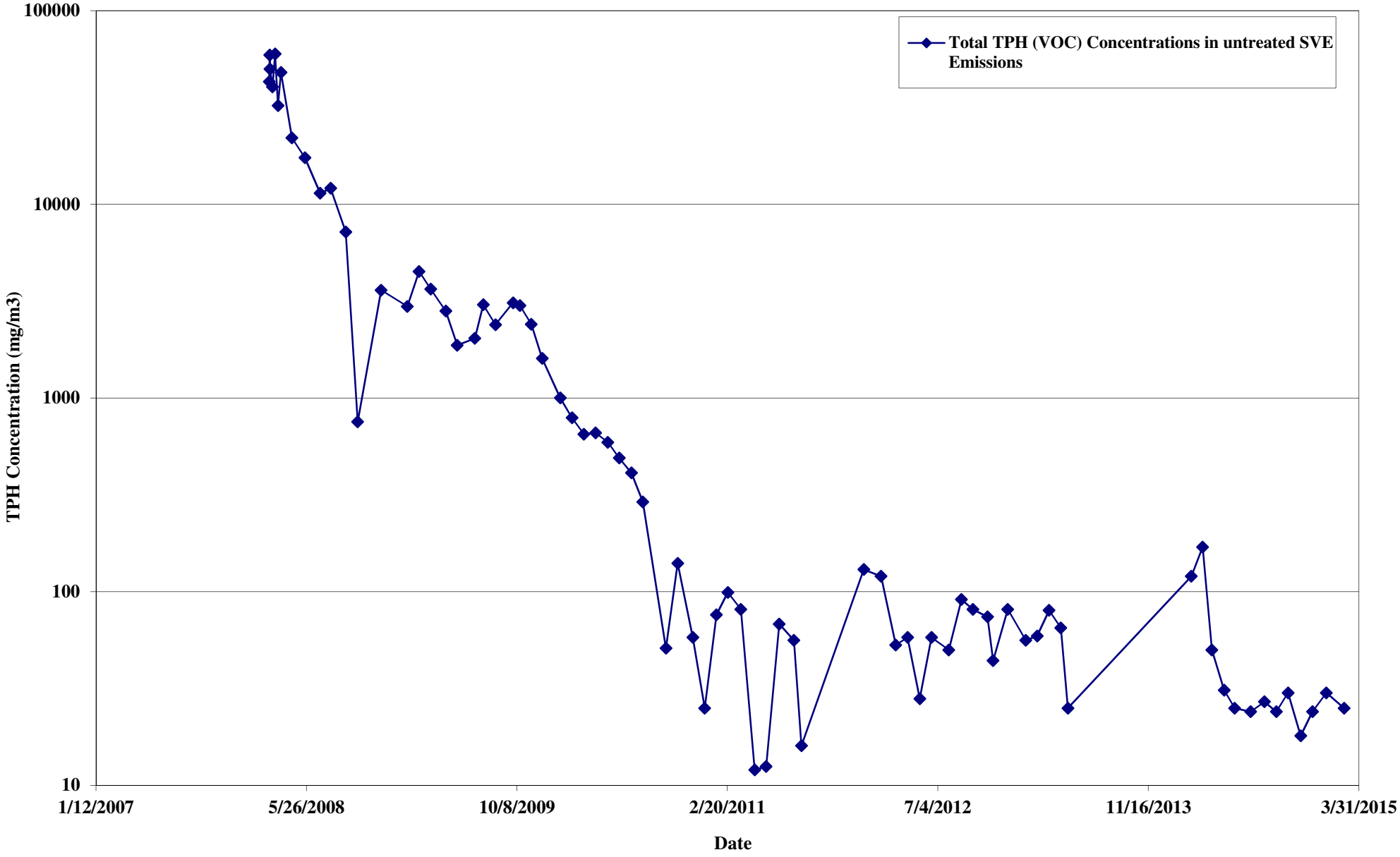


Chart 2
SVE Emissions Total Petroleum Hydrocarbon Vapor Concentration vs. Time
Logarithmic Scale to Show Low Concentrations
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin



P:\Duluth\49 WI\55\4955029 MP85 Leak Response\WorkFiles\System Operation Data Tables\Emission and Removal rate Calculations_table_graphs.xlsx

Chart 3
Cumulative Hydrocarbon Mass Removal by SVE/AS and Biodegradation
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

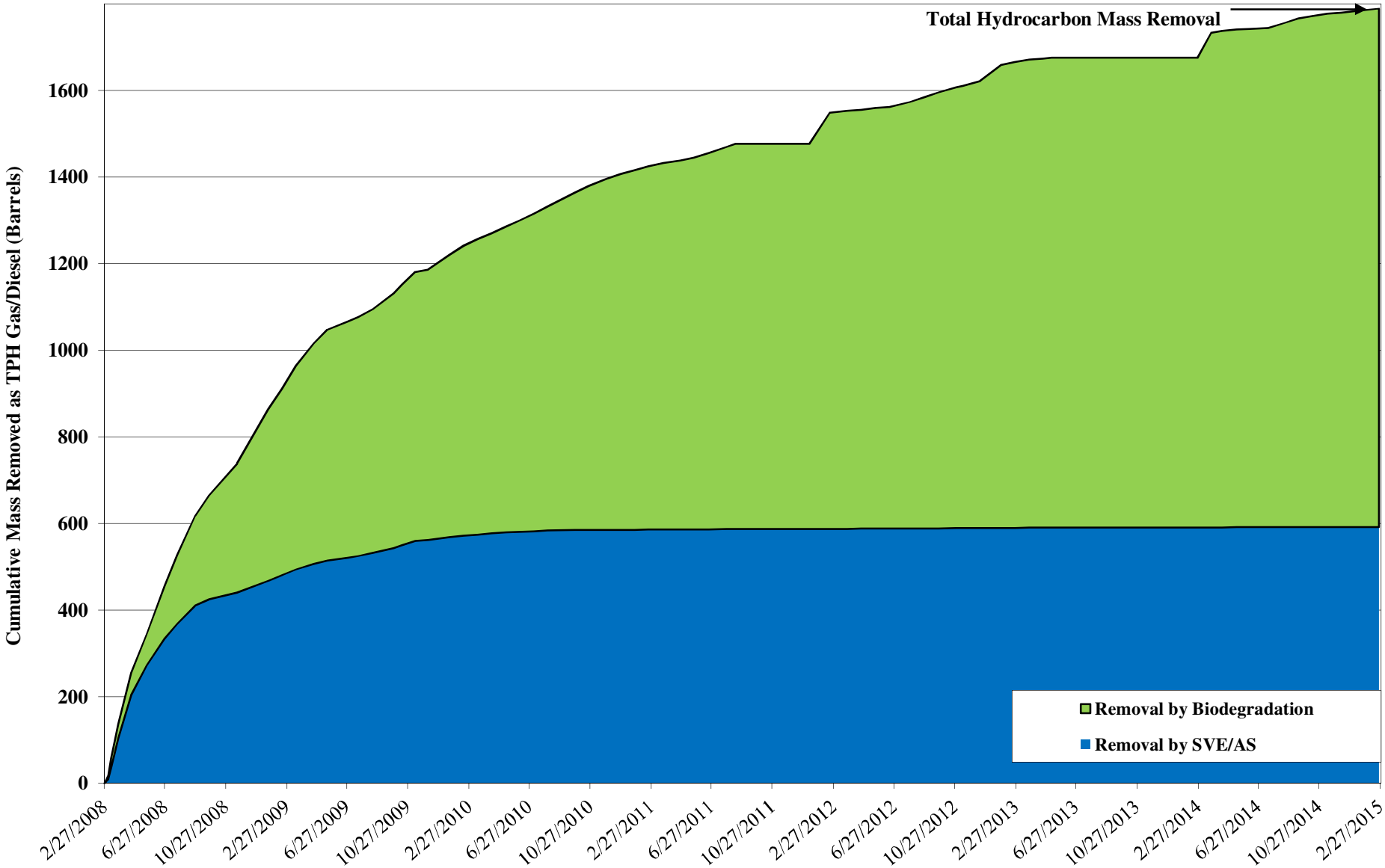


Chart 4
Water and Product Level Hydrograph MW-7
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

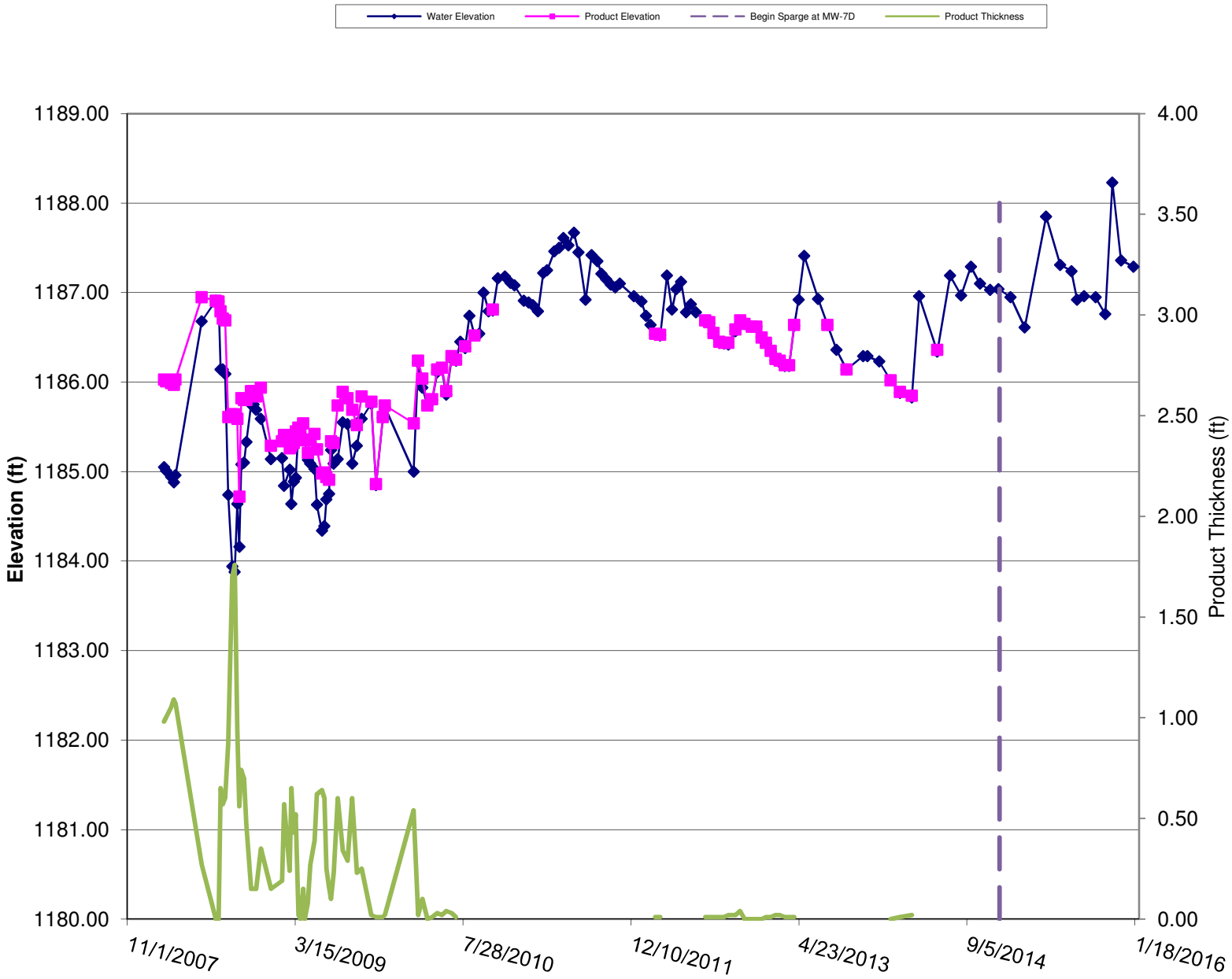


Chart 5
Water and Product Level Hydrograph RW-1
Enbridge Energy Limited Partnership - Line 14 MP 85 Crude Oil Release

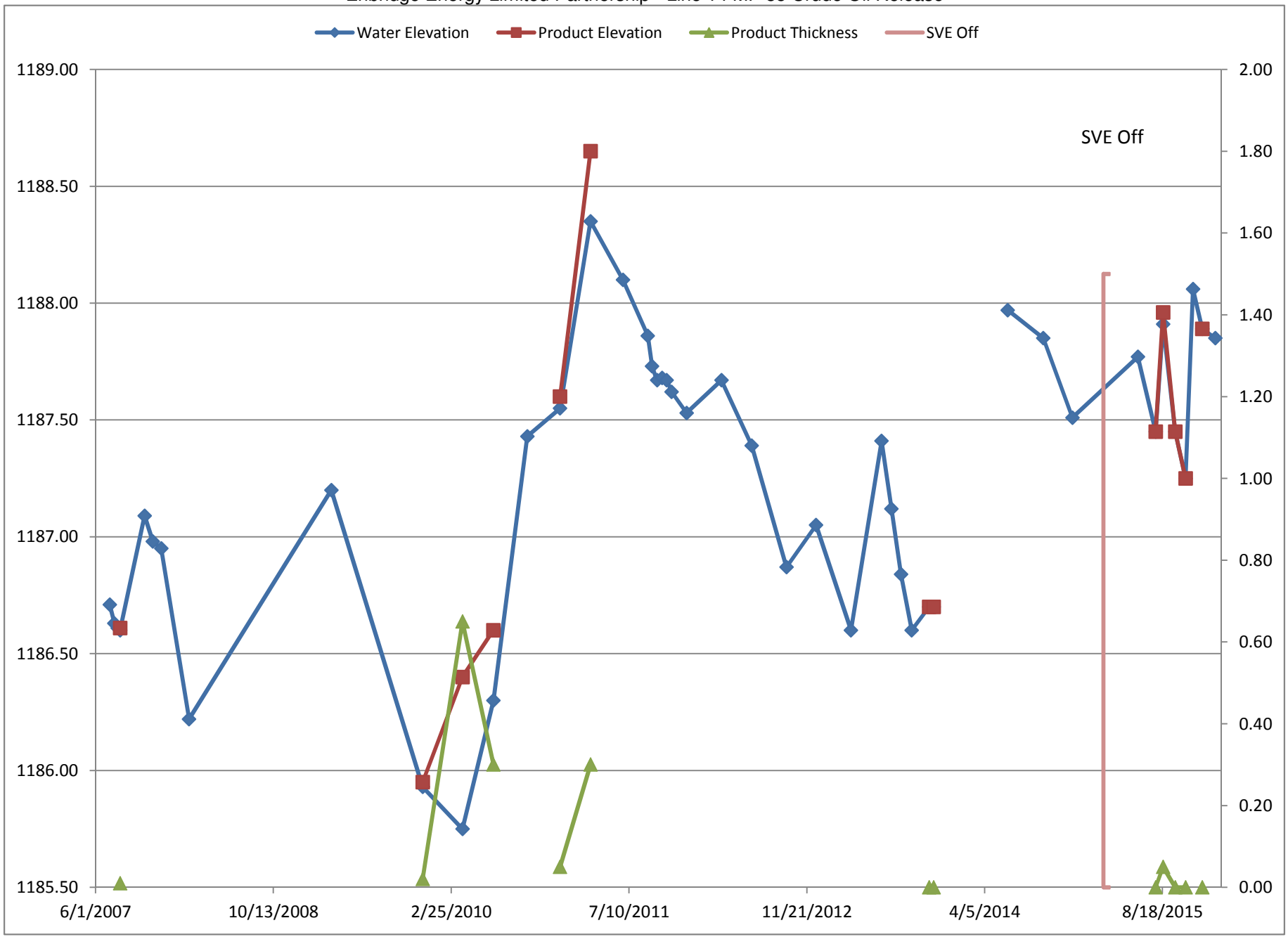
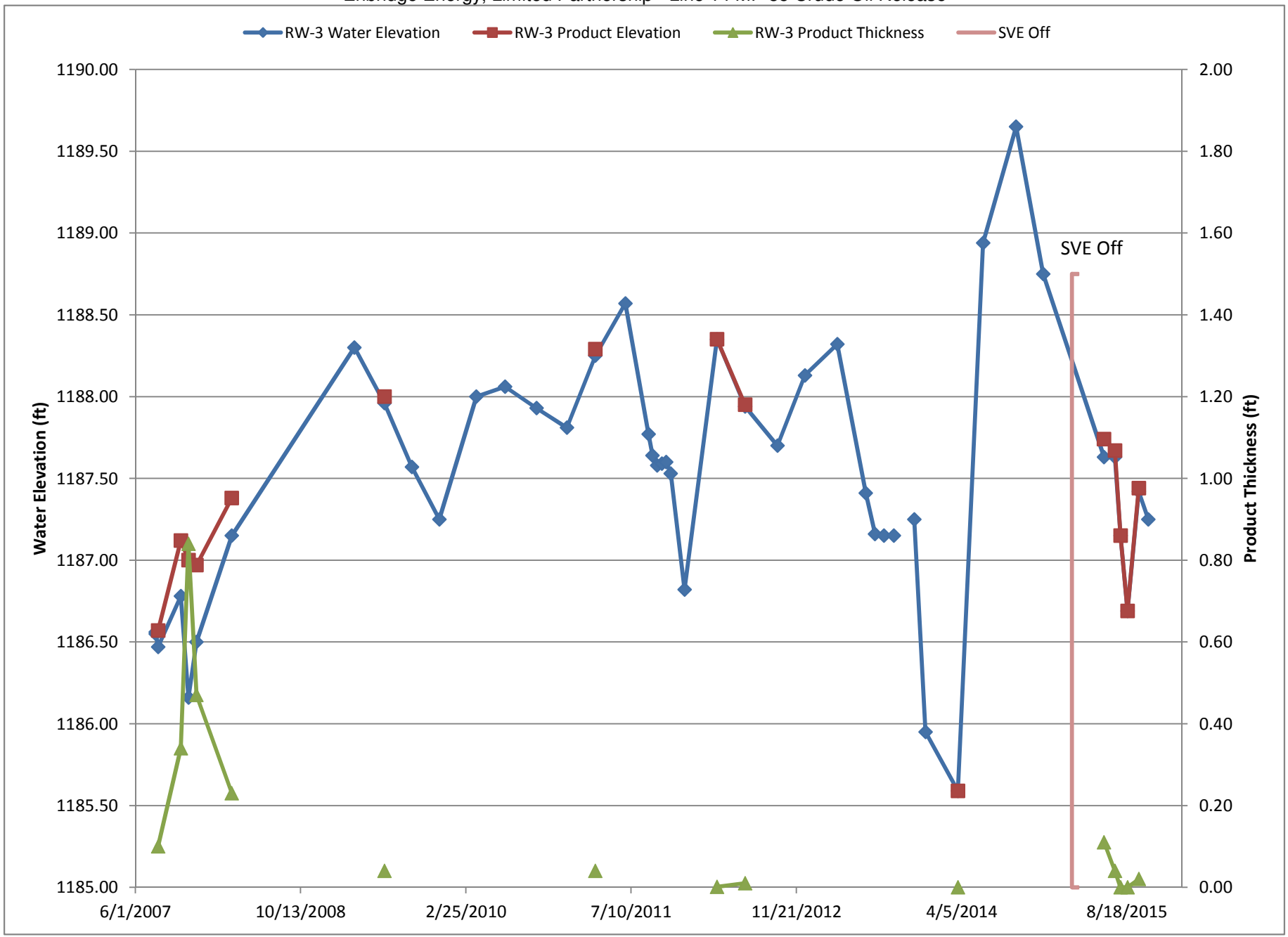


Chart 6
Water and Product Level Hydrograph RW-3
Enbridge Energy, Limited Partnership - Line 14 MP 85 Crude Oil Release



V. Tables

Table 1
Groundwater Analytical Data - TPH and PVOC
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin
(concentrations in ug/L)

Location	Date	Diesel Range Organics	DRO Extended Range C10-C32	Sum of trimethyl-benzenes	Benzene	Ethyl benzene	Naphthalene	Toluene	Xylene m & p	Xylene o-	Xylenes total
WI Public Health Groundwater Preventive Action Limit	**Bold**	--	--	**96 c**	**0.5**	**140**	**8**	**200**	**(4)**	**(4)**	**1000**
WI Public Health Groundwater Enforcement Standards	Underline	--	--	480 c	5	700	40	1000	10000 (4)	10000 (4)	10000 (4)
MW-1	**3/24/2007**	--	<500	ND	**11**	<1.0	<5.0	10	2.1	<1.0	2.1
MW-1	**5/31/2007**	--	<460	ND	**2.2**	<1.0	--	<1.0	--	--	<3.0
MW-1	**8/9/2007**	--	<460	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-1	**12/5/2007**	--	--	ND	**6.7**	<1.0	<5.0	<1.0	--	--	<3.0
MW-1	**3/25/2008**	--	--	ND	**2.2**	<1.0	--	<1.0	--	--	<3.0
MW-1	**6/12/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-2	**3/24/2007**	--	2900	**108**	**2500**	130	**22**	**1800**	450	260	710
MW-2	**5/31/2007**	--	3800	**378**	**9400**	**370**	--	**7100**	--	--	**2200**
MW-2	**8/10/2007**	--	1100	**198**	**2800**	**230**	--	**980**	--	--	**1200**
MW-2	**12/5/2007**	--	--	77	**2600**	**240**	**71**	150	--	--	460
MW-2	**3/26/2008**	--	--	36	**1000**	56	--	130	--	--	130
MW-2	**6/12/2008**	--	--	**216**	**2300**	**140**	--	**800**	--	--	580
MW-2	**8/29/2008**	--	--	**99**	**800**	120	--	120	--	--	190
MW-2	**12/3/2008**	--	--	72	**680**	120	--	120			200
MW-2	**3/25/2009**	--	--	17.5	**110**	31	--	33	--	--	49
MW-2	**6/24/2009**	--	--	93	**120**	110	--	100	--	--	170
MW-2	**9/16/2009**	--	--	34	**140**	40	--	83			90
MW-2	**3/30/2010**	--	--	9.2	**19**	7.8	--	16			30
MW-2	**6/24/2010**	--	--	46	**32**	100	--	3.1			130
MW-2	**9/27/2010**	--	--	19.3	**16**	28	--	<1.0			9.3
MW-2	**12/27/2010**	--	--	25.1	**24**	25	--	<1.0			17
MW-2	**3/24/2011**	--	--	15.1	**14**	7.8	--	<1.0			<3.0
MW-2	**6/23/2011**	--	--	**153**	**61**	130	--	<1.0			130
MW-2	**12/19/2011**	--	--	79	**72**	86	--	<1.0			73
MW-2	**3/26/2012**	--	--	37	**41**	49	--	<1.0			40
MW-2	**7/17/2012**	--	--	**99**	**27**	110	--	<1.0			80
MW-2	**9/26/2012**	--	--	84	**39**	85	--	<1.0			52
MW-2	**12/17/2012**	--	--	42	**32**	57	--	<1.0			36
MW-2	**3/25/2013**	--	--	31	**21**	42	--	<1.0			31
MW-2	**7/1/2013**	--	--	**301**	**7**	**184**	--	<1.0			459
MW-2	**9/12/2013**	--	--	**106**	**6.4**	84	--	<2.5			85.4
MW-2	**12/17/2013**	--	--	50.1	<5.0	48.6	--	<5.0			33.1
MW-2	**3/26/2014**	--	--	25.4	<5.0	45.5	--	<5.0			22.0
MW-2	**6/10/2014**	--	--	**320.6**	<10.0	**421**	--	29.7			**1970**
MW-2	**9/17/2014**	--	--	92.5	<10.0	83.8	--	<10.0			176
MW-2	**12/9/2014**	--	--	49.8	<5.0	39.5	--	<5.0			41.6
MW-2	**4/29/2015**	--	--	37	<5.0	55.4	--	<5.0			36.8
MW-2	**6/9/2015**	--	--	**105.1**	<5.0	75.2	--	<5.0			71.6
MW-2	**9/23/2015**	--	--	**99.2**	<5.0	84.3	--	<5.0			74.2
MW-2	**12/8/2015**	--	--	**167.8**	<5.0	122	--	<5.0	--	--	395
MW-3	**3/22/2007**	--	<500	ND	**7.3**	<1.0	<5.0	5.8	<2.0	<1.0	ND
MW-3	**5/31/2007**	--	<500	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-3	**7/11/2007**	--	<460	ND	**17**	1.3	--	7.4	--	--	<3.0
MW-3	**8/9/2007**	--	<460	ND	**23**	1.3	--	6.1	--	--	<3.0
MW-3	**12/5/2007**	--	--	ND	**1.7**	<1.0	<5.0	<1.0	--	--	<3.0
MW-3	**3/25/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-3	**6/10/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-3	**8/28/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-3	**3/29/2010**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-3	**12/19/2011**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-3	**12/18/2012**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-3	**3/26/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-3	**7/1/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-3	**9/12/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-3	**12/17/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-3	**12/9/2014**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-3	**12/9/2015**	--	--	ND	< 1.0	< 1.0	--	< 1.0	--	--	< 3.0
MW-4	**3/24/2007**	--	<500	4.2	**110**	9.2	<5.0	110	33	8.8	41.8
MW-4	**5/30/2007**	--	<460	8.2	**180**	9.7	--	130	--	--	41
MW-4	**8/10/2007**	--	<460	ND	**7.9**	<1.0	--	2.6	--	--	<3.0
MW-4	**12/5/2007**	--	--	ND	**1.1**	<1.0	<5.0	<1.0	--	--	<3.0
MW-4	**3/24/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-4	**6/10/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-4	**8/28/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-4	**3/29/2010**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-4	**3/26/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-4	**7/1/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-4	**9/12/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-4	**12/17/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-4	**12/9/2014**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-4	**12/9/2015**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-5	**3/22/2007**	--	<500	ND	**17**	<1.0	<5.0	1.5	<2.0	3.3	3.3
MW-5	**5/31/2007**	--	940 *	**215**	**8400**	**230**	--	**4500**	--	--	**1500**
MW-5	**7/11/2007**	--	1500 *	**210**	**9500**	**300**	--	**5900**	--	--	**1800**
MW-5	**8/10/2007**	--	1900	**459**	**12000**	**310**	--	**5600**	--	--	**1800**
MW-5	**12/6/2007**	--	--	**349**	**9300**	**390**	<250	<50	--	--	**1900**
MW-5	**3/26/2008**	--	--	**365**	**9200**	**450**	--	<50	--	--	930

Table 1
Groundwater Analytical Data - TPH and PVOC
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin
(concentrations in ug/L)

Location	Date	Diesel Range Organics	DRO Extended Range C10-C32	Sum of trimethyl-benzenes	Benzene	Ethyl benzene	Naphthalene	Toluene	Xylene m & p	Xylene o-	Xylenes total
WI Public Health Groundwater Preventive Action Limit	**Bold**	--	--	**96 c**	**0.5**	**140**	**8**	**200**	**(4)**	**(4)**	**1000**
WI Public Health Groundwater Enforcement Standards	Underline	--	--	480 c	5	700	40	1000	10000 (4)	10000 (4)	10000 (4)
MW-5	**6/12/2008**	--	--	79	**3900**	110	--	100	--	--	240
MW-5	**8/29/2008**	--	--	**140**	**4400**	97	--	<50	--	--	370
MW-5	**12/4/2008**	--	--	**296**	**4900**	79	--	<50			450
MW-5	**3/25/2009**	--	--	**124**	**2800**	89	--	<20	--	--	230
MW-5	**6/25/2009**	--	--	**240**	**3200**	**270**	--	**390**	--	--	590
MW-5	**9/16/2009**	--	--	**191**	**2600**	**240**	--	56			290
MW-5	**12/8/2009**	--	--	82	**1500**	130	--	<20			130
MW-5	**3/30/2010**	--	--	16.6	**520**	55	--	<1.0			12
MW-5	**6/24/2010**	--	--	**133**	**1100**	**250**	--	15			280
MW-5	**9/27/2010**	--	--	44	**470**	110	--	5.7			46
MW-5	**12/27/2010**	--	--	45.7	**510**	110	--	8			28
MW-5	**3/24/2011**	--	--	50.2	**380**	110	--	6.2			15
MW-5	**6/23/2011**	--	--	41	**410**	93	--	2.7			57
MW-5	**11/7/2011**	--	--	**138**	**630**	**210**	--	9.6			260
MW-5	**12/19/2011**	--	--	**213**	**600**	**250**	--	<5			200
MW-5	**3/26/2012**	--	--	60.3	**230**	**170**	--	<1.0			16
MW-5	**7/17/2012**	--	--	68	**160**	**170**	--	1.6			57
MW-5	**9/26/2012**	--	--	42.7	**110**	110	--	<1.0			20
MW-5	**12/17/2012**	--	--	43.9	**110**	120	--	<1.0			8.6
MW-5	**3/25/2013**	--	--	47.9	**97**	120	--	<1.0			21
MW-5	**7/1/2013**	--	--	76	**93.9**	148	--	<1.0			241
MW-5	**9/12/2013**	--	--	**228.9**	**156**	**260**	--	2.3			613
MW-5	**12/17/2013**	--	--	**121.9**	**58.3**	**179**	--	<20			123
MW-5	**3/26/2014**	--	--	**103.2**	**25.0**	136	--	<20.0			110
MW-5	**6/10/2014**	--	--	90	**37.2**	**144**	--	<1.0			167
MW-5	**9/17/2014**	--	--	**276.4**	**45.8**	**322**	--	<5.0			789
MW-5	**12/9/2014**	--	--	**166.1**	**29.4**	**251**	--	<20.0			498
MW-5	**4/29/2015**	--	--	**208.6**	<20.0	**241**	--	<20.0			298
MW-5	**6/9/2015**	--	--	**205**	<20.0	**274**	--	<20.0			307
MW-5	**9/22/2015**	--	--	**265.9**	<20.0	**244**	--	<20.0			300
MW-5	**12/8/2015**	--	--	**159.7**	<20.0	**167**	--	<20.0	--	--	241
MW-6	**5/29/2007**	--	<500	ND	<1.0	<1.0	<5.0	<1.0	<2.0	<1.0	ND
MW-6	**7/11/2007**	--	<520	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-6	**8/9/2007**	--	<460	4.2	**170**	5.2	--	84	--	--	30
MW-6	**9/13/2007**	--	<460	32	**1300**	37	--	31	--	--	210
MW-6	**10/17/2007**	--	<460	76	**3000**	85	--	<10	--	--	480
MW-6	**12/5/2007**	--	--	55	**2800**	94	<50	<10	--	--	370
MW-6	**1/15/2008**	--	--	56	**6000**	**170**	<50	<10	--	--	500
MW-6	**2/20/2008**	--	--	ND	**7300**	**240**	**66**	<50	--	--	480
MW-6	**3/26/2008**	--	--	ND	**7800**	**200**	--	<50	--	--	490
MW-6	**6/12/2008**	--	--	ND	**6200**	81	--	<50	--	--	200
MW-6	**8/29/2008**	--	--	ND	**5300**	<50	--	<50	--	--	<150
MW-6	**12/4/2008**	--	--	ND	**4600**	<50	--	<50			<150
MW-6	**3/25/2009**	--	--	ND	**1800**	<10	--	<10	--	--	<30
MW-6	**6/25/2009**	--	--	ND	**1600**	11	--	<10	--	--	<30
MW-6	**9/16/2009**	--	--	ND	**730**	7.5	--	<5.0			<15
MW-6	**12/7/2009**	--	--	ND	**310**	2.2	--	<2.0			<6
MW-6	**3/30/2010**	--	--	1.4	**34**	<1.0	--	<1.0			<3.0
MW-6	**6/24/2010**	--	--	1.1	**13**	<1.0	--	<1.0			<3.0
MW-6	**9/27/2010**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-6	**12/27/2010**	--	--	ND	**1.7**	1.4	--	<1.0			<3.0
MW-6	**3/24/2011**	--	--	2.4	<1.0	<1.0	--	<1.0			<3.0
MW-6	**6/23/2011**	--	--	1.1	<1.0	<1.0	--	<1.0			<3.0
MW-6	**8/15/2011**	--	--	<1.0	**55**	<1.0	--	<1.0			<3.0
MW-6	**9/1/2011**	--	--	<1.0	**110**	<1.0	--	<1.0			<3.0
MW-6	**9/13/2011**	--	--	<1.0	**130**	<1.0	--	<1.0			<3.0
MW-6	**9/27/2011**	--	--	1.4	**120**	<1.0	--	<1.0			<3.0
MW-6	**10/11/2011**	--	--	<1.0	**92**	<1.0	--	<1.0			<3.0
MW-6	**12/19/2011**	--	--	<1.0	**92**	<1.0	--	<1.0			<3.0
MW-6	**3/26/2012**	--	--	<1.0	<1.0	<1.0	--	<1.0			<3.0
MW-6	**7/17/2012**	--	--	<1.0	<1.0	<1.0	--	<1.0			<3.0
MW-6	**9/26/2012**	--	--	<1.0	**1.7**	<1.0	--	<1.0			<3.0
MW-6	**12/17/2012**	--	--	<1.0	<1.0	<1.0	--	<1.0			<3.0
MW-6	**3/26/2013**	--	--	<1.0	<1.0	<1.0	--	<1.0			<3.0
MW-6	**7/1/2013**	--	--	<1.0	<1.0	<1.0	--	<1.0			<3.0
MW-6	**9/12/2013**	--	--	<1.0	**3.8**	<1.0	--	<1.0			<3.0
MW-6	**12/17/2013**	--	--	<1.0	**7.6**	<1.0	--	<1.0			<3.0
MW-6	**3/25/2014**	--	--	ND	**3.2**	<1.0	--	<1.0			<3.0
MW-6	**6/9/2014**	--	--	ND	**6.9**	<1.0	--	<1.0			<3.0
MW-6	**9/17/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-6	**12/9/2014**	--	--	3.3	**4.0**	1.4	--	<1.0			6.4
MW-6	**4/29/2015**	--	--	ND	**1.2**	<1.0	--	< 1.0			<3.0
MW-6	**4/29/2015**	--	--	ND	**2.0**	<1.0	--	< 1.0			<3.0
MW-6	**9/22/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-6	**12/8/2015**	--	--	ND	**1.6**	1.3	--	<1.0	--	--	<3.0
MW-7	**5/31/2007**	--	750	85	**4700**	130	**19**	**2900**	490	260	750
MW-7	**7/11/2007**	--	850	**141**	**4600**	**180**	--	**3100**	--	--	**1000**
MW-7	**8/10/2007**	--	1100	**123**	**3500**	**140**	--	**1800**	--	--	750
MW-7	**12/5/2007**	--	--	51	**3800**	**200**	<100	88	--	--	570

Table 1
Groundwater Analytical Data - TPH and PVOC
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin
(concentrations in ug/L)

Location	Date	Diesel Range Organics	DRO Extended Range C10-C32	Sum of trimethyl-benzenes	Benzene	Ethyl benzene	Naphthalene	Toluene	Xylene m & p	Xylene o-	Xylenes total
WI Public Health Groundwater Preventive Action Limit	**Bold**	--	--	**96 c**	**0.5**	**140**	**8**	**200**	**(4)**	**(4)**	**1000**
WI Public Health Groundwater Enforcement Standards	Underline	--	--	480 c	5	700	40	1000	10000 (4)	10000 (4)	10000 (4)
MW-7	**6/23/2011**	--	--	**870**	**410**	**230**	--	160	--	--	790
MW-7	**8/15/2011**	--	--	**124**	**290**	**280**	--	28	--	--	270
MW-7	**9/1/2011**	--	--	**191**	**350**	110	--	30	--	--	330
MW-7	**9/13/2011**	--	--	**214**	**410**	120	--	35	--	--	380
MW-7	**9/27/2011**	--	--	**214**	**420**	120	--	25			370
MW-7	**10/11/2011**	--	--	**249**	**550**	**160**	--	19	--	--	470
MW-7	**12/19/2011**	--	--	**177**	**290**	100	--	<5	--	--	260
MW-7	**3/27/2012**	--	--	**182**	**47**	44	--	5.3			110
MW-7	**7/1/2013**	--	--	**173.9**	**148**	89.4	--	67.4			587
MW-7	**9/13/2013**	--	--	**146.1**	**156**	81.2	--	9.4			442
MW-7	**12/18/2013**	--	--	**145.9**	**83.4**	61.9	--	<1.0			238
MW-7	**3/26/2014**	--	--	82.2	**39.5**	22.0	--	<2.0			61.5
MW-7	**6/10/2014**	--	--	56.2	**6.4**	5.5	--	<2.0			41.9
MW-7	**7/17/2014**	--	--	**111.2**	**60.6**	59.1	--	13.8			399
MW-7	**8/19/2014**	--	--	**137.6**	**80.2**	78.1	--	28.1			513
MW-7	**9/17/2014**	--	--	83.1	**45.2**	59.8	--	2.3			303
MW-7	**12/9/2014**	--	--	85.4	**37.3**	70.0	--	<2.0			238
MW-7	**1/13/2015**	--	--	**132.9**	**39.1**	77.8	--	<1.0			242
MW-7	**2/24/2015**	--	--	**123.3**	**34.6**	67.9	--	<2.0			194
MW-7	**4/29/2015**	--	--	**133.6**	**15.6**	50.3	--	<2.0			126
MW-7	**6/9/2015**	--	--	48.6	**6.8**	25.0	--	<2.0			58.1
MW-7	**9/23/2015**	--	--	**116**	**16.4**	65.8	--	<2.0			133
MW-7	**12/9/2015**	--	--	**71.3**	**10**	39.3	--	<2.0	--	--	84.9
MW-7D	**8/9/2007**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	<2.0	<1.0	ND
MW-7D	**12/4/2007**	--	--	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-7D	**3/24/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-7D	**6/11/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-7D	**8/28/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-7D	**3/29/2010**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-7D	**12/19/2011**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-7D	**3/26/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-7D	**6/10/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-8	**5/30/2007**	--	<500	ND	<1.0	<1.0	<5.0	<1.0	<2.0	<1.0	ND
MW-8	**8/9/2007**	--	<500	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-8	**12/4/2007**	--	--	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-8	**3/25/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-8	**12/3/2008**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-8	**3/29/2010**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-8	**7/1/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-8	**9/12/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-8	**12/17/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-8	**3/26/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-8	**6/10/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-8	**9/17/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-8	**12/9/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-8	**4/29/2015**	--	--	ND	< 1.0	< 1.0	--	< 1.0			< 3.0
MW-8	**6/9/2015**	--	--	ND	< 1.0	< 1.0	--	< 1.0			< 3.0
MW-8	**9/23/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-8	**12/9/2015**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-9	**5/30/2007**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	<2.0	<1.0	ND
MW-9	**8/9/2007**	--	<460	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-9	**12/4/2007**	--	--	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-9	**3/24/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-9	**6/10/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-9	**8/28/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-9	**12/3/2008**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-9	**3/29/2010**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-9	**7/1/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-9	**9/12/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-9	**12/17/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-9	**12/9/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-9	**12/9/2015**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-10	**8/10/2007**	--	<460	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-10	**12/4/2007**	--	--	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-10	**3/24/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-10	**6/10/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-11	**8/10/2007**	--	1700	**269**	**6400**	**320**	--	**4900**	--	--	**1800**
MW-11	**6/24/2010**	--	--	**245**	**2300**	**260**	--	**450**			**1400**
MW-11	**9/27/2010**	--	--	**188**	**2200**	**180**	--	62			**1000**
MW-11	**12/27/2010**	--	--	**256**	**780**	**220**	--	6.8			**1000**
MW-11	**3/24/2011**	--	--	**293**	**4000**	**270**	--	120			**1100**
MW-11	**6/23/2011**	--	--	**271**	**750**	**260**	--	37			**1400**
MW-11	**8/15/2011**	--	--	**251**	**650**	**280**	--	150			**1500**
MW-11	**9/1/2011**	--	--	**290**	**520**	**330**	--	71			**1700**
MW-11	**9/13/2011**	--	--	**369**	**390**	**330**	--	96			**1900**
MW-11	**9/27/2011**	--	--	**382**	**330**	**300**	--	29	--	--	**1700**

Table 1
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Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin
(concentrations in ug/L)

Location	Date	Diesel Range Organics	DRO Extended Range C10-C32	Sum of trimethyl-benzenes	Benzene	Ethyl benzene	Naphthalene	Toluene	Xylene m & p	Xylene o-	Xylenes total
WI Public Health Groundwater Preventive Action Limit	**Bold**	--	--	**96 c**	**0.5**	**140**	**8**	**200**	**(4)**	**(4)**	**1000**
WI Public Health Groundwater Enforcement Standards	Underline	--	--	480 c	5	700	40	1000	10000 (4)	10000 (4)	10000 (4)
MW-11	**10/11/2011**	--	--	**420**	**300**	**310**	--	12			**1600**
MW-11	**12/19/2011**	--	--	**378**	**150**	**230**	--	6			**1100**
MW-11	**7/17/2012**	--	--	**390**	**140**	**220**	--	17			**1200**
MW-11	**9/26/2012**	--	--	**347**	**110**	**170**	--	2.1			700
MW-11	**12/18/2012**	--	--	**197**	**70**	120	--	1.1			490
MW-11	**3/26/2013**	--	--	**267**	**93**	**180**	--	2			770
MW-11	**7/1/2013**	--	--	**312.2**	<10	**375**	--	<10			**2140**
MW-11	**9/13/2013**	--	--	**241.5**	**6.6**	**153**	--	<4			752
MW-11	**12/18/2013**	--	--	**321.9**	**5.1**	**171**	--	5.5			**1100**
MW-11	**3/26/2014**	--	--	**238.6**	<4.0	138	--	7.3			857
MW-11	**6/10/2014**	--	--	**255.8**	<10.0	**358**	--	<10.0			**2040**
MW-11	**9/17/2014**	--	--	**289**	<10.0	**314**	--	<10.0			**1940**
MW-11	**12/9/2014**	--	--	**274.7**	<4.0	**273**	--	<4.0			**1520**
MW-11	**4/29/2015**	--	--	**285**	<4.0	**294**	--	<4.0			**1570**
MW-11	**6/9/2015**	--	--	**357.7**	<4.0	**393**	--	4.7			**2100**
MW-11	**9/23/2015**	--	--	**262.4**	<4.0	**221**	--	<4.0			**1180**
MW-11	**12/9/2015**	--	--	**320.7**	< 4.0	**226**	--	6.7	--	--	**1310**
MW-12	**8/10/2007**	--	530	**120**	**3600**	130	**22**	**1600**	960	430	**1390**
MW-12	**9/13/2007**	--	<460	**161**	**3700**	**200**	--	**300**	--	--	970
MW-12	**10/17/2007**	--	480	**194**	**4400**	**230**	--	**500**	--	--	**1200**
MW-12	**12/6/2007**	--	--	**101**	**2400**	**150**	<100	**230**	--	--	610
MW-12	**3/26/2008**	--	--	23	**1400**	68	--	170	--	--	170
MW-12	**6/12/2008**	--	--	13.7	**230**	14	--	87	--	--	48
MW-12	**8/29/2008**	--	--	**195**	**2200**	**150**	--	**710**	--	--	480
MW-12	**12/4/2008**	--	--	**289**	**2300**	**220**	--	**850**			730
MW-12	**12/7/2009**	--	--	**165**	**310**	83	--	**250**			450
MW-12	**3/30/2010**	--	--	19.1	**19**	7.3	--	3.3			38
MW-12	**6/24/2010**	--	--	9.9	**3.8**	2.0	--	<1.0			19
MW-12	**9/27/2010**	--	--	74	**18**	12	--	2.8			120
MW-12	**12/27/2010**	--	--	81	**19**	13	--	<1.0			91
MW-12	**3/24/2011**	--	--	28.3	**4.8**	3.9	--	<1.0			27
MW-12	**6/23/2011**	--	--	17.3	**6.2**	2.0	--	<1.0			20
MW-12	**8/15/2011**	--	--	50	**30**	6.9	--	<1.0			46
MW-12	**9/1/2011**	--	--	69	**39**	8.3	--	<1.0			62
MW-12	**9/13/2011**	--	--	**111**	**54**	13.0	--	<1.0			88
MW-12	**9/27/2011**	--	--	**125**	**55**	14.0	--	<1.0			93
MW-12	**10/11/2011**	--	--	**97**	**48**	12.0	--	<1.0			77
MW-12	**12/19/2011**	--	--	85	**37**	11.0	--	<1.0			56
MW-12	**3/26/2012**	--	--	39	**13**	6.1	--	<1.0			26
MW-12	**7/17/2012**	--	--	52	**14**	8.8	--	<1.0			30
MW-12	**9/26/2012**	--	--	**100**	**17**	13.0	--	<1.0			53
MW-12	**12/17/2012**	--	--	67	**11**	8.9	--	<1.0			35
MW-12	**9/12/2013**	--	--	55.7	**8**	6.3	--	<1.0			20.9
MW-12	**12/17/2013**	--	--	20	**5.4**	2.7	--	<1.0			6.5
MW-12	**3/26/2014**	--	--	16.9	**3.0**	2.2	--	<1.0			6.2
MW-12	**6/10/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-12	**12/9/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-12	**4/29/2015**	--	--	2.2	<1.0	<1.0	--	<1.0			<3.0
MW-12	**6/9/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-12	**9/22/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-13	**8/9/2007**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	<2.0	<1.0	ND
MW-13	**9/13/2007**	--	<460	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-13	**10/17/2007**	--	<460	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-13	**12/4/2007**	--	--	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-13	**1/15/2008**	--	--	ND	**1.3**	<1.0	<5.0	<1.0	--	--	<3.0
MW-13	**2/20/2008**	--	--	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-13	**3/25/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-13	**12/3/2008**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-13	**3/29/2010**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-13	**12/19/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-13	**3/26/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-13	**7/1/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-13	**9/12/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-13	**12/17/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-13	**12/9/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-13	**12/8/2015**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-14	**8/9/2007**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	<2.0	<1.0	ND
MW-14	**9/13/2007**	--	<460	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-14	**10/17/2007**	--	<460	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-14	**12/4/2007**	--	--	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-14	**1/15/2008**	--	--	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-14	**2/20/2008**	--	--	ND	**2**	<1.0	<5.0	<1.0	--	--	<3.0
MW-14	**3/25/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-14	**6/10/2008**	--	--	ND	**95**	4.5	--	<1.0	--	--	18
MW-14	**7/24/2008**	--	--	ND	**150**	7.4	--	<1.0	--	--	41
MW-14	**8/28/2008**	--	--	1.3	**120**	4.6	--	<1.0	--	--	32
MW-14	**12/3/2008**	--	--	ND	**42**	<1.0	--	<1.0			<3.0
MW-14	**3/25/2009**	--	--	1.1	**4.8**	<1.0	--	<1.0	--	--	<3.0

Table 1
Groundwater Analytical Data - TPH and PVOC
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin
(concentrations in ug/L)

Location	Date	Diesel Range Organics	DRO Extended Range C10-C32	Sum of trimethyl-benzenes	Benzene	Ethyl benzene	Naphthalene	Toluene	Xylene m & p	Xylene o-	Xylenes total
WI Public Health Groundwater Preventive Action Limit	**Bold**	--	--	**96 c**	**0.5**	**140**	**8**	**200**	**(4)**	**(4)**	**1000**
WI Public Health Groundwater Enforcement Standards	Underline	--	--	480 c	5	700	40	1000	10000 (4)	10000 (4)	10000 (4)
MW-14	**6/24/2009**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-14	**9/16/2009**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**9/27/2010**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**12/27/2010**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**3/24/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**6/23/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**12/19/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**3/26/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**7/17/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**9/26/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**12/17/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**3/26/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**7/1/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**9/12/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**12/17/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**3/26/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**6/10/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**9/17/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**12/9/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**4/29/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**6/9/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**9/23/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-14	**12/8/2015**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-15	**10/18/2007**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	<2.0	<1.0	ND
MW-15	**12/4/2007**	--	--	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-15	**1/15/2008**	--	--	ND	**330**	<1.0	<5.0	<1.0	--	--	7.5
MW-15	**2/20/2008**	--	--	ND	**1600**	<10	6.1	<10	--	--	<30
MW-15	**3/12/2008**	--	<460	ND	**1800**	<10	<50	<10	--	--	<30
MW-15	**3/20/2008**	--	<460	11	**2200**	<10	<50	<10	--	--	<30
MW-15	**3/26/2008**	--	--	ND	**2500**	12	--	<10	--	--	<30
MW-15	**5/4/2008**	--	--	ND	**140**	<1.0	--	<1.0	--	--	<3.0
MW-15	**6/12/2008**	--	--	ND	**140**	<1.0	--	<1.0	--	--	<3.0
MW-15	**8/29/2008**	--	--	3	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-15	**12/3/2008**	--	--	1.5	<1.0	<1.0	--	<1.0			<3.0
MW-15	**3/24/2009**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-15	**5/19/2009**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-15	**6/24/2009**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-15	**9/16/2009**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**12/7/2009**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**3/29/2010**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**6/24/2010**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**9/27/2010**	--	--	ND	**2.5**	<1.0	--	<1.0			<3.0
MW-15	**12/27/2010**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**3/24/2011**	--	--	ND	**1.9**	<1.0	--	<1.0			<3.0
MW-15	**6/23/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**8/15/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**9/1/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**9/13/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**9/27/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**10/11/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**11/7/2011**	--	--	ND	**1.2**	<1.0	--	<1.0			<3.0
MW-15	**12/19/2011**	--	--	ND	**2.2**	<1.0	--	<1.0			<3.0
MW-15	**3/26/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**7/17/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**9/26/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**12/17/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**3/25/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**7/1/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**9/12/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**12/17/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**3/26/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**6/9/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**9/17/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**12/8/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**4/29/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**6/9/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**9/22/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15	**12/8/2015**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-15D	**3/25/2008**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-15D	**6/11/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-15D	**8/28/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-15D	**3/29/2010**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-15D	**12/19/2011**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-15D	**12/17/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-15D	**12/8/2014**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-15D	**4/29/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-15D	**12/8/2015**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-16	**10/18/2007**	--	490	75	**3100**	76	**11**	19 *	330	250	580

Table 1
Groundwater Analytical Data - TPH and PVOC
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin
(concentrations in ug/L)

Location	Date	Diesel Range Organics	DRO Extended Range C10-C32	Sum of trimethyl-benzenes	Benzene	Ethyl benzene	Naphthalene	Toluene	Xylene m & p	Xylene o-	Xylenes total
WI Public Health Groundwater Preventive Action Limit	**Bold**	--	--	**96 c**	**0.5**	**140**	**8**	**200**	**(4)**	**(4)**	**1000**
WI Public Health Groundwater Enforcement Standards	Underline	--	--	480 c	5	700	40	1000	10000 (4)	10000 (4)	10000 (4)
MW-16	**12/6/2007**	--	--	44	**2700**	95	<100	<20	--	--	460
MW-16	**1/15/2008**	--	--	43	**4200**	**160**	<50	<10	--	--	350
MW-16	**2/20/2008**	--	--	16.1	**4900**	**180**	**34**	5.4	--	--	450
MW-16	**3/12/2008**	--	<500	35	**4300**	70	<100	<20	--	--	390
MW-16	**3/20/2008**	--	<460	ND	**4300**	53	<120	<25	--	--	390
MW-16	**3/26/2008**	--	--	ND	**3600**	30	--	<20	--	--	300
MW-16	**5/4/2008**	--	--	ND	**2700**	<5.0	--	<5.0	--	--	250
MW-16	**6/12/2008**	--	--	2.1	**1100**	2.3	--	3.4	--	--	61
MW-16	**8/29/2008**	--	--	ND	**2000**	14	--	11	--	--	47
MW-16	**12/4/2008**	--	--	ND	**2400** *	<20	--	<20			<60
MW-16	**3/25/2009**	--	--	1.8	**200**	<1.0	--	<1.0	--	--	<3.0
MW-16	**6/24/2009**	--	--	2.4	**43**	<1.0	--	<1.0	--	--	<3.0
MW-16	**9/16/2009**	--	--	1.2	**32**	2.7	--	<1.0			<3.0
MW-16	**12/7/2009**	--	--	ND	**3.1**	<1.0	--	<1.0			<3.0
MW-16	**3/30/2010**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**6/24/2010**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**9/27/2010**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**12/27/2010**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**3/24/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**6/23/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**8/15/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**9/13/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**10/11/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**12/19/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**3/26/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**7/17/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**9/26/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**12/17/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**3/25/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**7/1/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**9/12/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**12/17/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**3/25/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**6/9/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**9/17/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**12/9/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**4/29/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**6/9/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**9/22/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-16	**12/8/2015**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**10/18/2007**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	<2.0	<1.0	ND
MW-17	**12/4/2007**	--	--	ND	**27**	1.1	<5.0	<1.0	--	--	4.9
MW-17	**1/15/2008**	--	--	5	**200**	5.4	<5.0	<1.0	--	--	33
MW-17	**2/20/2008**	--	--	4.5	**760**	14	<5.0	<1.0	--	--	48
MW-17	**3/11/2008**	--	<460	1.7	**730**	21	<5.0	<1.0	--	--	50
MW-17	**3/20/2008**	--	<460	ND	**420**	13	<25	<5.0	--	--	30
MW-17	**3/26/2008**	--	--	ND	**29**	1.1	--	<1.0	--	--	<3.0
MW-17	**4/9/2008**	--	--	ND	**950**	2.1	--	<1.0	--	--	42
MW-17	**4/24/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**5/4/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**6/12/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**8/29/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**12/3/2008**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-17	**3/24/2009**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**5/19/2009**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**6/24/2009**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**9/16/2009**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**12/7/2009**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**3/30/2010**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**6/24/2010**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**9/27/2010**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**12/27/2010**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**8/15/2011**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**9/27/2011**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**10/11/2011**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**12/19/2011**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**3/25/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**7/1/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**9/12/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**12/17/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**12/8/2014**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-17	**4/29/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-17	**12/8/2015**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-18	**11/1/2007**	--	<460	ND	<1.0 h	<1.0 h	--	<1.0 h	--	--	<3.0 h
MW-18	**12/5/2007**	--	--	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-18	**3/24/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-18	**12/3/2008**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-18	**3/24/2009**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-18	**6/24/2009**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0

Table 1
Groundwater Analytical Data - TPH and PVOC
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin
(concentrations in ug/L)

Location	Date	Diesel Range Organics	DRO Extended Range C10-C32	Sum of trimethyl-benzenes	Benzene	Ethyl benzene	Naphthalene	Toluene	Xylene m & p	Xylene o-	Xylenes total
WI Public Health Groundwater Preventive Action Limit	**Bold**	--	--	**96 c**	**0.5**	**140**	**8**	**200**	**(4)**	**(4)**	**1000**
WI Public Health Groundwater Enforcement Standards	Underline	--	--	480 c	5	700	40	1000	10000 (4)	10000 (4)	10000 (4)
MW-18	**9/16/2009**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-19	**2/26/2008**	--	--	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-19	**3/11/2008**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-19	**3/20/2008**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-19	**3/24/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-19	**4/9/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-19	**4/24/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-19	**5/3/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-19	**6/11/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-19	**8/28/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-20	**2/29/2008**	--	--	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-20	**3/11/2008**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-20	**3/20/2008**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-20	**3/24/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-21	**2/27/2008**	--	--	ND	**1.7**	<1.0	<5.0	<1.0	--	--	<3.0
MW-21	**3/12/2008**	--	<460	ND	**10**	<1.0	<5.0	<1.0	--	--	<3.0
MW-21	**3/20/2008**	--	<460	ND	**8.2**	<1.0	<5.0	<1.0	--	--	<3.0
MW-21	**3/26/2008**	--	--	ND	**8**	<1.0	--	<1.0	--	--	<3.0
MW-21	**6/12/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-21	**8/29/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-21	**12/3/2008**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**8/15/2011**	--	--	ND	**4.3**	<1.0	--	<1.0			<3.0
MW-21	**9/13/2011**	--	--	ND	**1.2**	<1.0	--	<1.0			<3.0
MW-21	**9/27/2011**	--	--	1.2	**4**	<1.0	--	<1.0			<3.0
MW-21	**10/11/2011**	--	--	ND	**4**	<1.0	--	<1.0			<3.0
MW-21	**11/7/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**12/19/2011**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**3/26/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**7/17/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**9/26/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**12/17/2012**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**3/25/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**7/1/2013**	--	--	ND	**1.9**	<1.0	--	<1.0			<3.0
MW-21	**9/12/2013**	--	--	ND	**5**	<1.0	--	<1.0			<3.0
MW-21	**12/17/2013**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**3/25/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**6/9/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**9/17/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**12/8/2014**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**4/29/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**6/9/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**9/22/2015**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-21	**12/8/2015**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-22	**2/28/2008**	--	--	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-22	**3/11/2008**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-22	**3/20/2008**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-22	**3/24/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-23	**3/25/2008**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-23	**4/8/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-23	**4/23/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-23	**5/3/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-23	**6/11/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-23	**8/28/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-24	**2/26/2008**	--	--	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-24	**3/11/2008**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-24	**3/19/2008**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-24	**3/24/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-24	**4/8/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-24	**4/23/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-24	**5/3/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-24	**6/11/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-24	**8/28/2008**	--	--	ND	<1.0	<1.0	--	1.1	--	--	<3.0
MW-24	**12/3/2008**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-24D	**3/19/2008**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-24D	**3/24/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-24D	**6/11/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-24D	**8/28/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-25	**2/26/2008**	--	--	ND	**41**	1.2	<5.0	<1.0	--	--	5.2
MW-25	**3/12/2008**	--	<500	1.3	**140**	2.9	<5.0	<1.0	--	--	17
MW-25	**3/20/2008**	--	<460	1.5	**120**	3.1	<5.0	<1.0	--	--	19
MW-25	**3/26/2008**	--	--	ND	**93**	2.4	--	<1.0	--	--	14
MW-25	**5/3/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-25	**6/11/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0

Table 1
Groundwater Analytical Data - TPH and PVOC
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin
(concentrations in ug/L)

Location	Date	Diesel Range Organics	DRO Extended Range C10-C32	Sum of trimethyl-benzenes	Benzene	Ethyl benzene	Naphthalene	Toluene	Xylene m & p	Xylene o-	Xylenes total
WI Public Health Groundwater Preventive Action Limit	**Bold**	--	--	**96 c**	**0.5**	**140**	**8**	**200**	**(4)**	**(4)**	**1000**
WI Public Health Groundwater Enforcement Standards	Underline	--	--	480 c	5	700	40	1000	10000 (4)	10000 (4)	10000 (4)
MW-25	**8/29/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-26	**2/28/2008**	<93	--	ND	**26**	<1.0	<5.0	<1.0	--	--	<3.0
MW-26	**3/12/2008**	--	<460	ND	**16**	<1.0	<5.0	<1.0	--	--	<3.0
MW-26	**3/20/2008**	--	<460	ND	**27**	<1.0	<5.0	<1.0	--	--	<3.0
MW-26	**3/26/2008**	--	--	ND	**67**	<1.0	--	<1.0	--	--	4.6
MW-26	**5/4/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-26	**6/12/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-26	**8/29/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-26	**12/3/2008**	--	--	ND	<1.0	<1.0	--	<1.0			<3.0
MW-26	**3/24/2009**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-26	**6/24/2009**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-26	**9/16/2009**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-26	**12/19/2011**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-26	**12/16/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-27	**2/27/2008**	--	--	3.6	**55**	<1.0	<5.0	<1.0	--	--	3.5
MW-27	**3/12/2008**	--	<460	ND	**77**	<1.0	<5.0	<1.0	--	--	4.4
MW-27	**3/20/2008**	--	<460	ND	**57**	<1.0	<5.0	<1.0	--	--	3.3
MW-27	**3/26/2008**	--	--	ND	**40**	<1.0	--	<1.0	--	--	<3.0
MW-27	**6/12/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-27	**8/29/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-27	**11/7/2011**	--	--	ND	**3.5**	<1.0	--	<1.0	--	--	<3.0
MW-27	**12/19/2011**	--	--	ND	**1.4**	<1.0	--	<1.0	--	--	<3.0
MW-27	**3/26/2012**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-27	**7/17/2012**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-27	**9/12/2013**	--	--	ND	**10.7**	<1.0	--	<1.0	--	--	<3.0
MW-27	**12/16/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-28	**3/25/2008**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-28	**4/8/2008**	--	--	ND	**2.2**	<1.0	--	<1.0	--	--	<3.0
MW-28	**4/23/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-28	**5/3/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-28	**6/11/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-28	**8/28/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-28	**12/19/2011**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-28	**9/12/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-28	**12/16/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-29	**2/27/2008**	--	--	ND	**14**	<1.0	<5.0	<1.0	--	--	<3.0
MW-29	**3/12/2008**	--	<460	2.6	**150**	4	<5.0	<1.0	--	--	23
MW-29	**3/19/2008**	--	<460	ND	**2.7**	<1.0	--	<1.0	--	--	<3.0
MW-29	**3/26/2008**	--	--	ND	**1.4**	<1.0	--	<1.0	--	--	<3.0
MW-29	**4/9/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-29	**4/24/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-29	**5/3/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-29	**6/11/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-29	**8/29/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-29	**12/19/2011**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-29	**3/26/2012**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-29	**7/17/2012**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-29	**12/16/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-30	**3/25/2008**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-30	**4/8/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-30	**4/23/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-30	**5/3/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-30	**6/11/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-30	**8/28/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-30	**12/19/2011**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-30	**12/16/2013**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-31	**3/25/2008**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-31	**6/10/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-31	**8/28/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-32	**3/25/2008**	--	<460	ND	<1.0	<1.0	<5.0	<1.0	--	--	<3.0
MW-32	**6/11/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-32	**8/28/2008**	--	--	ND	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-33	**11/3/2008**	--	--	83	**3900**	69	--	**240**			310
MW-33	**12/4/2008**	--	--	20	**4600**	<20	--	<20			200
MW-33	**3/25/2009**	--	--	15	**2200**	13	--	22	--	--	51
MW-33	**6/25/2009**	--	--	28	**2500**	40	--	44	--	--	62
MW-33	**9/16/2009**	--	--	68	**2500**	73	--	53			91
MW-33	**12/8/2009**	--	--	31	**1900**	69	--	99			94
MW-33	**3/30/2010**	--	--	16.7	**900**	30	--	46			34
MW-33	**6/24/2010**	--	--	22	**890**	27	--	23			59
MW-33	**9/27/2010**	--	--	41	**1000**	61	--	7.7			40
MW-33	**12/27/2010**	--	--	67	**840**	70	--	21			59
MW-33	**3/24/2011**	--	--	15.3	**500**	59	--	<5.0			<15

Table 1
Groundwater Analytical Data - TPH and PVOC
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin
(concentrations in ug/L)

Location	Date	Diesel Range Organics	DRO Extended Range C10-C32	Sum of trimethyl-benzenes	Benzene	Ethyl benzene	Naphthalene	Toluene	Xylene m & p	Xylene o-	Xylenes total
WI Public Health Groundwater Preventive Action Limit	**Bold**	--	--	**96 c**	**0.5**	**140**	**8**	**200**	**(4)**	**(4)**	**1000**
WI Public Health Groundwater Enforcement Standards	Underline	--	--	480 c	5	700	40	1000	10000 (4)	10000 (4)	10000 (4)
MW-33	**6/23/2011**	--	--	20.9	**300**	44	--	<1.0			11
MW-33	**12/19/2011**	--	--	32	**130**	51	--	<1.0			21
MW-33	**3/26/2012**	--	--	34	**100**	53	--	<1.0			16
MW-33	**7/17/2012**	--	--	22.9	**50**	33	--	<1.0			7
MW-33	**9/26/2012**	--	--	27.7	**46**	49	--	<1.0			11
MW-33	**12/18/2012**	--	--	24.1	**38**	43	--	<1.0			11
MW-33	**3/26/2013**	--	--	20	**34**	39	--	<1.0			8.7
MW-33	**7/1/2013**	--	--	34.7	**32.9**	42.5	--	<1.0			14
MW-33	**9/12/2013**	--	--	78.7	**62.1**	92.7	--	<1.0			27.7
MW-33	**12/18/2013**	--	--	25.6	**30.7**	58.4	--	<1.0			5.2
MW-33	**3/26/2014**	--	--	17.3	**17.3**	40.6	--	<1.0			<3.0
MW-33	**6/10/2014**	--	--	34.9	**31.3**	73.9	--	<1.0			5.4
MW-33	**7/17/2014**	--	--	44	**21.0**	71.6	--	<1.0			13.3
MW-33	**8/19/2014**	--	--	62.2	**35.2**	93.5	--	<1.0			30.1
MW-33	**9/17/2014**	--	--	78.9	**39.3**	99.5	--	<1.0			24.7
MW-33	**12/9/2014**	--	--	41.6	**16.0**	74.5	--	<1.0			11.9
MW-33	**1/13/2015**	--	--	47.7	**19.5**	80.5	--	<0.50			10.7
MW-33	**2/24/2015**	--	--	33.7	**18.6**	64.4	--	<1.0			5.5
MW-33	**4/29/2015**	--	--	65.3	**14.9**	66.1	--	<1.0			43
MW-33	**6/9/2015**	--	--	56.9	**12.2**	65.3	--	<1.0			12
MW-33	**9/23/2015**	--	--	52.8	**11.1**	70.3	--	<1.0			12.5
MW-33	**12/8/2015**	--	--	59.5	**12.3**	72.7	--	<1.0	--	--	15.4
MW-34	**11/3/2008**	--	--	12.5	**1400**	13	--	26			79
MW-34	**12/4/2008**	--	--	14	**2600**	13	--	18			110
MW-34	**3/25/2009**	--	--	ND	**1300**	5.4	--	<5.0	--	--	<15
MW-34	**6/25/2009**	--	--	10	**1500**	38	--	<10	--	--	30
MW-34	**9/16/2009**	--	--	29	**1300**	56	--	<5.0	--	--	45
MW-34	**12/8/2009**	--	--	14	**900**	54	--	39	--	--	38
MW-34	**3/30/2010**	--	--	9.4	**510**	21	--	6.6	--	--	13
MW-34	**6/24/2010**	--	--	11.4	**560**	26	--	8.0	--	--	<15
MW-34	**9/27/2010**	--	--	21	**530**	42	--	8.2	--	--	32
MW-34	**12/27/2010**	--	--	31	**490**	52	--	6.0	--	--	47
MW-34	**3/24/2011**	--	--	60	**790**	79	--	<5.0	--	--	23
MW-34	**6/23/2011**	--	--	4.3	<1.0	<1.0	--	<1.0	--	--	<3.0
MW-34	**8/15/2011**	--	--	13.6	**290**	40	--	<2.0	--	--	<6.0
MW-34	**9/1/2011**	--	--	14.9	**270**	47	--	<1.0	--	--	3.7
MW-34	**9/13/2011**	--	--	18.1	**240**	49	--	<1.0	--	--	5.7
MW-34	**10/11/2011**	--	--	10.4	**160**	30	--	<1.0	--	--	3.3
MW-34	**12/19/2011**	--	--	12.6	**110**	34	--	<1.0	--	--	8.5
MW-34	**3/26/2012**	--	--	8.7	**57**	26	--	<1.0			4.0
MW-34	**7/17/2012**	--	--	7.7	**50**	33	--	<1.0			7.0
MW-34	**9/26/2012**	--	--	9.6	**33**	28	--	<1.0			<3.0
MW-34	**12/18/2012**	--	--	6.6	**21**	19	--	<1.0			<3.0
MW-34	**3/26/2013**	--	--	4	**16**	16	--	<1.0			<3.0
MW-34	**7/1/2013**	--	--	21.7	**44.5**	42.5	--	<1.0			<3.0
MW-34	**9/12/2013**	--	--	19.1	**39.6**	39.7	--	<1.0			3.7
MW-34	**12/18/2013**	--	--	8.4	**22.1**	25.8	--	<1.0			<3.0
MW-34	**3/26/2014**	--	--	3.9	**10.2**	16.9	--	<1.0			<3.0
MW-34	**6/10/2014**	--	--	25.9	**39.1**	49.6	--	<1.0			<3.0
MW-34	**7/17/2014**	--	--	19.6	**19.5**	41.3	--	<1.0			<3.0
MW-34	**8/19/2014**	--	--	24.6	**24.1**	46.9	--	<1.0			7.0
MW-34	**9/17/2014**	--	--	30.4	**30.8**	58.1	--	<1.0			5.2
MW-34	**12/9/2014**	--	--	25.1	**24.3**	49.7	--	<1.0			4.3
MW-34	**1/13/2015**	--	--	25.6	**19**	51.1	3.8	<0.50			3.2
MW-34	**2/24/2015**	--	--	21.3	**18.9**	41.3	--	<1.0			4
MW-34	**4/29/2015**	--	--	27	**14.5**	30.2	--	<1.0			19.2
MW-34	**6/9/2015**	--	--	24.4	**11.3**	45.9	--	<1.0			3.4
MW-34	**9/23/2015**	--	--	33.5	**9.8**	48	--	<1.0			5.1
MW-34	**12/8/2015**	--	--	34.1	**9.9**	53.6	--	<1.0	--	--	6

--	No criteria/not analyzed.
*	Estimated value, QA/QC criteria not met.
ND	Not detected.
(4)	Xylene includes meta-, ortho-, and para-xylene combined. The preventive action limit has been set at a concentration that is intended to address taste and odor concerns associated with this substance.
c	The listed criteria is for 1,2,4- and 1,3,5- Trimethylbenzenes combined.
h	EPA recommended sample preservation, extraction or analysis holding time was exceeded, or temperature exceedance, results can be considered potentially biased low.

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-1	3/24/2007	1226.68	1227.69	1190.69	1180.69	41.09			1186.60	
MW-1	4/2/2007	1226.68	1227.69	1190.69	1180.69	40.57			1187.12	
MW-1	4/17/2007	1226.68	1227.69	1190.69	1180.69	40.86			1186.83	
MW-1	5/29/2007	1226.68	1227.69	1190.69	1180.69	40.96			1186.73	
MW-1	6/12/2007	1226.68	1227.69	1190.69	1180.69	40.96			1186.73	
MW-1	6/21/2007	1226.68	1227.69	1190.69	1180.69	41.05			1186.64	
MW-1	7/2/2007	1226.68	1227.69	1190.69	1180.69	41.20			1186.49	
MW-1	7/11/2007	1226.68	1227.69	1190.69	1180.69	41.22			1186.47	
MW-1	7/24/2007	1226.68	1227.69	1190.69	1180.69	41.26			1186.43	
MW-1	8/2/2007	1226.68	1227.69	1190.69	1180.69	41.27			1186.42	
MW-1	8/9/2007	1226.68	1227.69	1190.69	1180.69	41.33			1186.36	
MW-1	10/17/2007	1226.68	1227.69	1190.69	1180.69	40.86			1186.83	
MW-1	11/9/2007	1226.68	1227.69	1190.69	1180.69	40.93			1186.76	
MW-1	12/3/2007	1226.68	1227.69	1190.69	1180.69	40.96			1186.73	
MW-1	1/14/2008	1226.68	1227.69	1190.69	1180.69	41.30			1186.39	
MW-1	2/19/2008	1226.68	1227.69	1190.69	1180.69	41.45			1186.24	
MW-1	03/24/2008	1226.68	1227.69	1190.69	1180.69	41.50			1186.19	
MW-1	04/01/2008	1226.68	1227.69	1190.69	1180.69	41.43			1186.26	
MW-1	06/10/2008	1226.68	1227.69	1190.69	1180.69	40.41			1187.28	
MW-1	Abandoned									
MW-2	3/24/2007	1225.61	1227.77	1191.77	1181.77	41.35			1186.42	
MW-2	4/2/2007	1225.61	1227.77	1191.77	1181.77	40.79			1186.98	
MW-2	4/17/2007	1225.61	1227.77	1191.77	1181.77	41.12			1186.65	
MW-2	5/29/2007	1225.61	1227.77	1191.77	1181.77	41.21			1186.56	
MW-2	6/12/2007	1225.61	1227.77	1191.77	1181.77	41.25			1186.52	
MW-2	6/21/2007	1225.61	1227.77	1191.77	1181.77	41.35			1186.42	
MW-2	7/2/2007	1225.61	1227.77	1191.77	1181.77	41.47			1186.30	
MW-2	7/11/2007	1225.61	1227.77	1191.77	1181.77	41.45			1186.32	
MW-2	7/24/2007	1225.61	1227.77	1191.77	1181.77	41.54			1186.23	
MW-2	8/2/2007	1225.61	1227.77	1191.77	1181.77	41.53			1186.24	
MW-2	8/9/2007	1225.61	1227.77	1191.77	1181.77	41.60			1186.17	
MW-2	10/17/2007	1225.61	1227.77	1191.77	1181.77	41.11			1186.66	
MW-2	11/9/2007	1225.61	1227.77	1191.77	1181.77	41.20			1186.57	
MW-2	12/3/2007	1225.61	1227.77	1191.77	1181.77	41.22			1186.55	
MW-2	1/14/2008	1225.61	1227.77	1191.77	1181.77	41.57			1186.20	
MW-2	2/19/2008	1225.61	1227.77	1191.77	1181.77	41.72			1186.05	
MW-2	03/19/2008	1225.61	1227.77	1191.77	1181.77	41.80			1185.97	
MW-2	03/24/2008	1225.61	1227.77	1191.77	1181.77	41.70			1186.07	
MW-2	04/01/2008	1225.61	1227.77	1191.77	1181.77	41.69			1186.08	
MW-2	06/10/2008	1225.61	1227.77	1191.77	1181.77	40.69			1187.08	
MW-2	08/28/2008	1225.61	1227.77	1191.77	1181.77	41.02			1186.75	
MW-2	12/03/2008	1225.61	1227.77	1191.77	1181.77	40.83			1186.94	
MW-2	03/25/2009	1225.61	1227.77	1191.77	1181.77	41.04			1186.73	
MW-2	03/31/2009	1225.61	1227.77	1191.77	1181.77	41.01			1186.76	
MW-2	04/08/2009	1225.61	1227.77	1191.77	1181.77	41.11			1186.66	
MW-2	04/13/2009	1225.61	1227.77	1191.77	1181.77	41.27			1186.50	
MW-2	05/12/2009	1225.61	1227.77	1191.77	1181.77	41.14			1186.63	
MW-2	05/19/2009	1225.61	1227.77	1191.77	1181.77	41.40			1186.37	
MW-2	6/3/2009	1225.61	1227.77	1191.77	1181.77	41.56			1186.21	
MW-2	6/10/2009	1225.61	1227.77	1191.77	1181.77	41.58			1186.19	
MW-2	6/16/2009	1225.61	1227.77	1191.77	1181.77	41.65			1186.12	
MW-2	6/24/2009	1225.61	1227.77	1191.77	1181.77	41.65			1186.12	
MW-2	6/30/2009	1225.61	1227.77	1191.77	1181.77	41.73			1186.04	
MW-2	7/8/2009	1225.61	1227.77	1191.77	1181.77	41.76			1186.01	
MW-2	7/20/2009	1225.61	1227.77	1191.77	1181.77	41.82			1185.95	
MW-2	8/4/2009	1225.61	1227.77	1191.77	1181.77	41.88			1185.89	
MW-2	8/18/2009	1225.61	1227.77	1191.77	1181.77	41.97			1185.80	
MW-2	9/1/2009	1225.61	1227.77	1191.77	1181.77	41.98			1185.79	
MW-2	9/15/2009	1225.61	1227.77	1191.77	1181.77	42.05			1185.72	
MW-2	9/29/2009	1225.61	1227.77	1191.77	1181.77	42.03			1185.74	
MW-2	10/15/2009	1225.61	1227.77	1191.77	1181.77	40.25	39.09	1.16	1187.52	1188.68
MW-2	10/28/2009	1225.61	1227.77	1191.77	1181.77	41.78	41.76	0.02	1185.99	1186.01
MW-2	11/11/2009	1225.61	1227.77	1191.77	1181.77	40.82			1186.95	
MW-2	12/1/2009	1225.61	1227.77	1191.77	1181.77	41.98			1185.79	
MW-2	12/7/2009	1225.61	1227.77	1191.77	1181.77	42.03	42.00	0.03	1185.74	1185.77
MW-2	12/22/2009	1225.61	1227.77	1191.77	1181.77	42.04			1185.73	
MW-2	1/5/2010	1225.61	1227.77	1191.77	1181.77	41.99			1185.78	
MW-2	1/19/2010	1225.61	1227.77	1191.77	1181.77	42.04			1185.73	
MW-2	2/3/2010	1225.61	1227.77	1191.77	1181.77	42.03			1185.74	
MW-2	2/16/2010	1225.61	1227.77	1191.77	1181.77	42.05			1185.72	
MW-2	3/3/2010	1225.61	1227.77	1191.77	1181.77	42.06			1185.71	
MW-2	3/16/2010	1225.61	1227.77	1191.77	1181.77	41.32			1186.45	
MW-2	3/30/2010	1225.61	1227.77	1191.77	1181.77	41.55			1186.22	
MW-2	4/13/2010	1225.61	1227.77	1191.77	1181.77	41.79			1185.98	
MW-2	4/27/2010	1225.61	1227.77	1191.77	1181.77	41.74			1186.03	
MW-2	5/12/2010	1225.61	1227.77	1191.77	1181.77	41.72			1186.05	
MW-2	5/26/2010	1225.61	1227.77	1191.77	1181.77	41.68			1186.09	
MW-2	6/8/2010	1225.61	1227.77	1191.77	1181.77	41.72			1186.05	
MW-2	6/24/2010	1225.61	1227.77	1191.77	1181.77	41.35			1186.42	
MW-2	7/7/2010	1225.61	1227.77	1191.77	1181.77	41.40			1186.37	
MW-2	7/20/2010	1225.61	1227.77	1191.77	1181.77	41.10			1186.67	
MW-2	8/3/2010	1225.61	1227.77	1191.77	1181.77	41.15			1186.62	
MW-2	8/16/2010	1225.61	1227.77	1191.77	1181.77	40.80			1186.97	
MW-2	8/31/2010	1225.61	1227.77	1191.77	1181.77	41.00			1186.77	
MW-2	9/14/2010	1225.61	1227.77	1191.77	1181.77	41.00			1186.77	
MW-2	9/27/2010	1225.61	1227.77	1191.77	1181.77	40.40			1187.37	
MW-2	10/12/2010	1225.61	1227.77	1191.77	1181.77	40.65			1187.12	
MW-2	10/25/2010	1225.61	1227.77	1191.77	1181.77	40.61			1187.16	
MW-2	11/9/2010	1225.61	1227.77	1191.77	1181.77	40.39			1187.38	
MW-2	11/30/2010	1225.61	1227.77	1191.77	1181.77	40.37			1187.40	
MW-2	12/16/2010	1225.61	1227.77	1191.77	1181.77	40.37			1187.40	
MW-2	12/28/2010	1225.61	1227.77	1191.77	1181.77	40.44			1187.33	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-2	1/25/2011	1225.61	1227.77	1191.77	1181.77	40.58			1187.19	
MW-2	2/8/2011	1225.61	1227.77	1191.77	1181.77	40.62			1187.15	
MW-2	2/21/2011	1225.61	1227.77	1191.77	1181.77	40.65			1187.12	
MW-2	3/8/2011	1225.61	1227.77	1191.77	1181.77	40.76			1187.01	
MW-2	3/24/2011	1225.61	1227.77	1191.77	1181.77	40.34			1187.43	
MW-2	4/4/2011	1225.61	1227.77	1191.77	1181.77	40.40			1187.37	
MW-2	4/26/2011	1225.61	1227.77	1191.77	1181.77	40.10			1187.67	
MW-2	5/10/2011	1225.61	1227.77	1191.77	1181.77	39.95			1187.82	
MW-2	5/23/2011	1225.61	1227.77	1191.77	1181.77	39.98			1187.79	
MW-2	6/7/2011	1225.61	1227.77	1191.77	1181.77	39.93			1187.84	
MW-2	6/23/2011	1225.61	1227.77	1191.77	1181.77	39.89			1187.88	
MW-2	7/7/2011	1225.61	1227.77	1191.77	1181.77	40.13			1187.64	
MW-2	7/28/2011	1225.61	1227.77	1191.77	1181.77	40.21			1187.56	
MW-2	8/15/2011	1225.61	1227.77	1191.77	1181.77	40.03			1187.74	
MW-2	10/11/2011	1225.61	1227.77	1191.77	1181.77	40.31			1187.46	
MW-2	10/24/2011	1225.61	1227.77	1191.77	1181.77	40.32			1187.45	
MW-2	11/7/2011	1225.61	1227.77	1191.77	1181.77	40.30			1187.47	
MW-2	12/19/2011	1225.61	1227.77	1191.77	1181.77	40.45			1187.32	
MW-2	1/10/2012	1225.61	1227.77	1191.77	1181.77	40.49			1187.28	
MW-2	1/24/2012	1225.61	1227.77	1191.77	1181.77	40.78			1186.99	
MW-2	2/6/2012	1225.61	1227.77	1191.77	1181.77	40.84			1186.93	
MW-2	2/20/2012	1225.61	1227.77	1191.77	1181.77	40.93			1186.84	
MW-2	3/6/2012	1225.61	1227.77	1191.77	1181.77	40.99			1186.78	
MW-2	3/26/2012	1225.61	1227.77	1191.77	1181.77	40.40			1187.37	
MW-2	4/10/2012	1225.61	1227.77	1191.77	1181.77	40.69			1187.08	
MW-2	4/23/2012	1225.61	1227.77	1191.77	1181.77	40.50			1187.27	
MW-2	5/7/2012	1225.61	1227.77	1191.77	1181.77	40.44			1187.33	
MW-2	5/22/2012	1225.61	1227.77	1191.77	1181.77	40.67			1187.10	
MW-2	6/5/2012	1225.61	1227.77	1191.77	1181.77	40.64			1187.13	
MW-2	6/20/2012	1225.61	1227.77	1191.77	1181.77	40.62			1187.15	
MW-2	7/18/2012	1225.61	1227.77	1191.77	1181.77	40.85			1186.92	
MW-2	7/30/2012	1225.61	1227.77	1191.77	1181.77	40.79			1186.98	
MW-2	8/12/2012	1225.61	1227.77	1191.77	1181.77	40.99			1186.78	
MW-2	8/29/2012	1225.61	1227.77	1191.77	1181.77	41.08			1186.69	
MW-2	9/12/2012	1225.61	1227.77	1191.77	1181.77	41.10			1186.67	
MW-2	9/25/2012	1225.61	1227.77	1191.77	1181.77	41.08			1186.69	
MW-2	10/16/2012	1225.61	1227.77	1191.77	1181.77	40.96			1186.81	
MW-2	10/30/2012	1225.61	1227.77	1191.77	1181.77	40.83			1186.94	
MW-2	11/12/2012	1225.61	1227.77	1191.77	1181.77	40.88			1186.89	
MW-2	12/4/2012	1225.61	1227.77	1191.77	1181.77	40.93			1186.84	
MW-2	12/17/2012	1225.61	1227.77	1191.77	1181.77	40.92			1186.85	
MW-2	1/2/2013	1225.61	1227.77	1191.77	1181.77	41.02			1186.75	
MW-2	1/15/2013	1225.61	1227.77	1191.77	1181.77	41.10			1186.67	
MW-2	1/29/2013	1225.61	1227.77	1191.77	1181.77	41.20			1186.57	
MW-2	2/12/2013	1225.61	1227.77	1191.77	1181.77	41.24			1186.53	
MW-2	2/25/2013	1225.61	1227.77	1191.77	1181.77	41.31			1186.46	
MW-2	3/12/2013	1225.61	1227.77	1191.77	1181.77	41.32			1186.45	
MW-2	3/25/2013	1225.61	1227.77	1191.77	1181.77	41.37			1186.40	
MW-2	4/9/2013	1225.61	1227.77	1191.77	1181.77	40.97			1186.80	
MW-2	4/22/2013	1225.61	1227.77	1191.77	1181.77	40.66			1187.11	
MW-2	5/9/2013	1225.61	1227.77	1191.77	1181.77	40.09			1187.68	
MW-2	6/19/2013	1225.61	1227.77	1191.77	1181.77	40.58			1187.19	
MW-2	7/17/2013	1225.61	1227.77	1191.77	1181.77	40.87			1186.90	
MW-2	8/13/2013	1225.61	1227.77	1191.77	1181.77	44.25			1183.52	
MW-2	9/12/2013	1225.61	1227.77	1191.77	1181.77	41.38			1186.39	
MW-2	10/31/2013	1225.61	1227.77	1191.77	1181.77	41.26			1186.51	
MW-2	11/13/2013	1225.61	1227.77	1191.77	1181.77	41.26			1186.51	
MW-2	12/17/2013	1225.61	1227.77	1191.77	1181.77	41.28			1186.49	
MW-2	1/21/2014	1225.61	1227.77	1191.77	1181.77	41.51			1186.26	
MW-2	2/18/2014	1225.61	1227.77	1191.77	1181.77	41.62			1186.15	
MW-2	3/25/2014	1225.61	1227.77	1191.77	1181.77	41.78			1185.99	
MW-2	4/16/2014	1225.61	1227.77	1191.77	1181.77	40.66			1187.11	
MW-2	6/9/2014	1225.61	1227.77	1191.77	1181.77	40.09			1187.68	
MW-2	7/17/2014	1225.61	1227.77	1191.77	1181.77	40.39			1187.38	
MW-2	8/19/2014	1225.61	1227.77	1191.77	1181.77	40.55			1187.22	
MW-2	9/17/2014	1225.61	1227.77	1191.77	1181.77	40.22			1187.55	
MW-2	10/14/2014	1225.61	1227.77	1191.77	1181.77	40.39			1187.38	
MW-2	11/13/2014	1225.61	1227.77	1191.77	1181.77	40.45			1187.32	
MW-2	12/8/2014	1225.61	1227.77	1191.77	1181.77	40.59			1187.18	
MW-2	1/13/2015	1225.61	1227.77	1191.77	1181.77	39.45			1188.32	
MW-2	2/24/2015	1225.61	1227.77	1191.77	1181.77	40.89			1186.88	
MW-2	4/29/2015	1225.61	1227.77	1191.77	1181.77	40.43			1187.34	
MW-2	6/10/2015	1225.61	1227.77	1191.77	1181.77	40.20			1187.57	
MW-2	7/13/2015	1225.61	1227.77	1191.77	1181.77	40.28			1187.49	
MW-2	7/30/2015	1225.61	1227.77	1191.77	1181.77	40.60			1187.17	
MW-2	8/20/2015	1225.61	1227.77	1191.77	1181.77	40.58			1187.19	
MW-2	9/23/2015	1225.61	1227.77	1191.77	1181.77	40.53			1187.24	
MW-2	10/22/2015	1225.61	1227.77	1191.77	1181.77	40.77			1187.00	
MW-2	11/12/2015	1225.61	1227.77	1191.77	1181.77	40.30			1187.47	
MW-2	12/8/2015	1225.61	1227.77	1191.77	1181.77	40.05			1187.72	
MW-2	1/14/2016	1225.61	1227.77	1191.77	1181.77	40.18			1187.59	
MW-3	3/24/2007	1224.58	1226.74	1189.74	1179.74	40.31			1186.43	
MW-3	4/2/2007	1224.58	1226.74	1189.74	1179.74	39.77			1186.97	
MW-3	4/17/2007	1224.58	1226.74	1189.74	1179.74	40.04			1186.70	
MW-3	5/29/2007	1224.58	1226.74	1189.74	1179.74	40.16			1186.58	
MW-3	6/12/2007	1224.58	1226.74	1189.74	1179.74	40.15			1186.59	
MW-3	6/21/2007	1224.58	1226.74	1189.74	1179.74	40.23			1186.51	
MW-3	7/2/2007	1224.58	1226.74	1189.74	1179.74	40.38			1186.36	
MW-3	7/11/2007	1224.58	1226.74	1189.74	1179.74	40.40			1186.34	
MW-3	7/24/2007	1224.58	1226.74	1189.74	1179.74	40.43			1186.31	
MW-3	8/2/2007	1224.58	1226.74	1189.74	1179.74	40.45			1186.29	
MW-3	8/9/2007	1224.58	1226.74	1189.74	1179.74	40.51			1186.23	
MW-3	10/17/2007	1224.58	1226.74	1189.74	1179.74	39.98			1186.76	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-3	11/9/2007	1224.58	1226.74	1189.74	1179.74	40.11			1186.63	
MW-3	12/3/2007	1224.58	1226.74	1189.74	1179.74	40.14			1186.60	
MW-3	1/14/2008	1224.58	1226.74	1189.74	1179.74	40.49			1186.25	
MW-3	2/19/2008	1224.58	1226.74	1189.74	1179.74	40.63			1186.11	
MW-3	03/11/2008	1224.58	1226.74	1189.74	1179.74	40.70			1186.04	
MW-3	03/19/2008	1224.58	1226.74	1189.74	1179.74	40.73			1186.01	
MW-3	03/24/2008	1224.58	1226.74	1189.74	1179.74	40.70			1186.04	
MW-3	04/01/2008	1224.58	1226.74	1189.74	1179.74	40.61			1186.13	
MW-3	06/10/2008	1224.58	1226.74	1189.74	1179.74	39.60			1187.14	
MW-3	08/28/2008	1224.58	1226.74	1189.74	1179.74	39.90			1186.84	
MW-3	12/03/2008	1224.58	1226.74	1189.74	1179.74	39.74			1187.00	
MW-3	03/25/2009	1224.58	1226.74	1189.74	1179.74	39.99			1186.75	
MW-3	03/31/2009	1224.58	1226.74	1189.74	1179.74	39.97			1186.77	
MW-3	04/08/2009	1224.58	1226.74	1189.74	1179.74	40.10			1186.64	
MW-3	04/13/2009	1224.58	1226.74	1189.74	1179.74	40.35			1186.39	
MW-3	05/12/2009	1224.58	1226.74	1189.74	1179.74	40.13			1186.61	
MW-3	05/19/2009	1224.58	1226.74	1189.74	1179.74	40.32			1186.42	
MW-3	6/3/2009	1224.58	1226.74	1189.74	1179.74	40.49			1186.25	
MW-3	6/10/2009	1224.58	1226.74	1189.74	1179.74	40.44			1186.30	
MW-3	6/16/2009	1224.58	1226.74	1189.74	1179.74	40.57			1186.17	
MW-3	6/24/2009	1224.58	1226.74	1189.74	1179.74	40.57			1186.17	
MW-3	6/30/2009	1224.58	1226.74	1189.74	1179.74	40.68			1186.06	
MW-3	7/8/2009	1224.58	1226.74	1189.74	1179.74	40.75			1185.99	
MW-3	07/20/2009	1224.58	1226.74	1189.74	1179.74	40.81			1185.93	
MW-3	08/04/2009	1224.58	1226.74	1189.74	1179.74	40.76			1185.98	
MW-3	8/18/2009	1224.58	1226.74	1189.74	1179.74	40.84			1185.90	
MW-3	9/1/2009	1224.58	1226.74	1189.74	1179.74	40.83			1185.91	
MW-3	9/15/2009	1224.58	1226.74	1189.74	1179.74	40.97			1185.77	
MW-3	9/29/2009	1224.58	1226.74	1189.74	1179.74	40.98			1185.76	
MW-3	10/28/2009	1224.58	1226.74	1189.74	1179.74	40.71			1186.03	
MW-3	11/11/2009	1224.58	1226.74	1189.74	1179.74	39.72			1187.02	
MW-3	12/1/2009	1224.58	1226.74	1189.74	1179.74	39.95			1186.79	
MW-3	12/7/2009	1224.58	1226.74	1189.74	1179.74	40.97			1185.77	
MW-3	12/22/2009	1224.58	1226.74	1189.74	1179.74	40.99			1185.75	
MW-3	1/5/2010	1224.58	1226.74	1189.74	1179.74	40.94			1185.80	
MW-3	1/19/2010	1224.58	1226.74	1189.74	1179.74	41.00			1185.74	
MW-3	2/3/2010	1224.58	1226.74	1189.74	1179.74	40.98			1185.76	
MW-3	2/16/2010	1224.58	1226.74	1189.74	1179.74	40.97			1185.77	
MW-3	3/3/2010	1224.58	1226.74	1189.74	1179.74	41.00			1185.74	
MW-3	3/16/2010	1224.58	1226.74	1189.74	1179.74	40.26			1186.48	
MW-3	3/29/2010	1224.58	1226.74	1189.74	1179.74	40.43			1186.31	
MW-3	4/13/2010	1224.58	1226.74	1189.74	1179.74	40.68			1186.06	
MW-3	4/27/2010	1224.58	1226.74	1189.74	1179.74	40.65			1186.09	
MW-3	5/12/2010	1224.58	1226.74	1189.74	1179.74	40.65			1186.09	
MW-3	5/26/2010	1224.58	1226.74	1189.74	1179.74	40.61			1186.13	
MW-3	6/8/2010	1224.58	1226.74	1189.74	1179.74	40.70			1186.04	
MW-3	6/24/2010	1224.58	1226.74	1189.74	1179.74	40.28			1186.46	
MW-3	7/7/2010	1224.58	1226.74	1189.74	1179.74	40.32			1186.42	
MW-3	7/20/2010	1224.58	1226.74	1189.74	1179.74	40.40			1186.34	
MW-3	8/3/2010	1224.58	1226.74	1189.74	1179.74	40.45			1186.29	
MW-3	8/16/2010	1224.58	1226.74	1189.74	1179.74	40.20			1186.54	
MW-3	8/31/2010	1224.58	1226.74	1189.74	1179.74	40.45			1186.29	
MW-3	9/14/2010	1224.58	1226.74	1189.74	1179.74	40.47			1186.27	
MW-3	9/27/2010	1224.58	1226.74	1189.74	1179.74	39.32			1187.42	
MW-3	10/12/2010	1224.58	1226.74	1189.74	1179.74	39.57			1187.17	
MW-3	10/25/2010	1224.58	1226.74	1189.74	1179.74	38.25			1188.49	
MW-3	11/9/2010	1224.58	1226.74	1189.74	1179.74	38.02			1188.72	
MW-3	11/30/2010	1224.58	1226.74	1189.74	1179.74	38.00			1188.74	
MW-3	12/16/2010	1224.58	1226.74	1189.74	1179.74	39.28			1187.46	
MW-3	12/28/2010	1224.58	1226.74	1189.74	1179.74	39.36			1187.38	
MW-3	1/25/2011	1224.58	1226.74	1189.74	1179.74	39.48			1187.26	
MW-3	2/8/2011	1224.58	1226.74	1189.74	1179.74	39.57			1187.17	
MW-3	2/21/2011	1224.58	1226.74	1189.74	1179.74	39.60			1187.14	
MW-3	3/8/2011	1224.58	1226.74	1189.74	1179.74	39.68			1187.06	
MW-3	3/24/2011	1224.58	1226.74	1189.74	1179.74	39.29			1187.45	
MW-3	4/4/2011	1224.58	1226.74	1189.74	1179.74	39.30			1187.44	
MW-3	5/10/2011	1224.58	1226.74	1189.74	1179.74	38.85			1187.89	
MW-3	5/23/2011	1224.58	1226.74	1189.74	1179.74	38.22			1188.52	
MW-3	6/7/2011	1224.58	1226.74	1189.74	1179.74	38.80			1187.94	
MW-3	6/23/2011	1224.58	1226.74	1189.74	1179.74	38.76			1187.98	
MW-3	7/7/2011	1224.58	1226.74	1189.74	1179.74	39.02			1187.72	
MW-3	7/28/2011	1224.58	1226.74	1189.74	1179.74	39.13			1187.61	
MW-3	8/15/2011	1224.58	1226.74	1189.74	1179.74	39.25			1187.49	
MW-3	10/11/2011	1224.58	1226.74	1189.74	1179.74	39.22			1187.52	
MW-3	12/19/2011	1224.58	1226.74	1189.74	1179.74	39.50			1187.24	
MW-3	1/10/2012	1224.58	1226.74	1189.74	1179.74	39.53			1187.21	
MW-3	1/24/2012	1224.58	1226.74	1189.74	1179.74	39.69			1187.05	
MW-3	2/6/2012	1224.58	1226.74	1189.74	1179.74	39.78			1186.96	
MW-3	2/20/2012	1224.58	1226.74	1189.74	1179.74	39.88			1186.86	
MW-3	3/6/2012	1224.58	1226.74	1189.74	1179.74	39.82			1186.92	
MW-3	3/26/2012	1224.58	1226.74	1189.74	1179.74	39.26			1187.48	
MW-3	4/10/2012	1224.58	1226.74	1189.74	1179.74	39.55			1187.19	
MW-3	4/23/2012	1224.58	1226.74	1189.74	1179.74	39.35			1187.39	
MW-3	5/7/2012	1224.58	1226.74	1189.74	1179.74	39.26			1187.48	
MW-3	5/22/2012	1224.58	1226.74	1189.74	1179.74	39.42			1187.32	
MW-3	6/5/2012	1224.58	1226.74	1189.74	1179.74	39.42			1187.32	
MW-3	6/19/2012	1224.58	1226.74	1189.74	1179.74	39.50			1187.24	
MW-3	7/18/2012	1224.58	1226.74	1189.74	1179.74	38.74			1188.00	
MW-3	7/30/2012	1224.58	1226.74	1189.74	1179.74	39.75			1186.99	
MW-3	8/12/2012	1224.58	1226.74	1189.74	1179.74	39.86			1186.88	
MW-3	8/29/2012	1224.58	1226.74	1189.74	1179.74	38.64			1188.10	
MW-3	9/12/2012	1224.58	1226.74	1189.74	1179.74	38.65			1188.09	
MW-3	9/25/2012	1224.58	1226.74	1189.74	1179.74	40.00			1186.74	
MW-3	10/16/2012	1224.58	1226.74	1189.74	1179.74	39.79			1186.95	
MW-3	10/30/2012	1224.58	1226.74	1189.74	1179.74	39.75			1186.99	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-3	11/12/2012	1224.58	1226.74	1189.74	1179.74	39.78			1186.96	
MW-3	12/4/2012	1224.58	1226.74	1189.74	1179.74	39.84			1186.90	
MW-3	12/17/2012	1224.58	1226.74	1189.74	1179.74	39.83			1186.91	
MW-3	1/2/2013	1224.58	1226.74	1189.74	1179.74	39.88			1186.86	
MW-3	1/15/2013	1224.58	1226.74	1189.74	1179.74	39.93			1186.81	
MW-3	1/29/2013	1224.58	1226.74	1189.74	1179.74	40.00			1186.74	
MW-3	2/12/2013	1224.58	1226.74	1189.74	1179.74	40.17			1186.57	
MW-3	2/25/2013	1224.58	1226.74	1189.74	1179.74	40.22			1186.52	
MW-3	3/25/2013	1224.58	1226.74	1189.74	1179.74	40.30			1186.44	
MW-3	4/9/2013	1224.58	1226.74	1189.74	1179.74	39.93			1186.81	
MW-3	4/22/2013	1224.58	1226.74	1189.74	1179.74	39.61			1187.13	
MW-3	5/9/2013	1224.58	1226.74	1189.74	1179.74	39.07			1187.67	
MW-3	6/19/2013	1224.58	1226.74	1189.74	1179.74	39.41			1187.33	
MW-3	7/17/2013	1224.58	1226.74	1189.74	1179.74	39.78			1186.96	
MW-3	9/12/2013	1224.58	1226.74	1189.74	1179.74	40.28			1186.46	
MW-3	10/31/2013	1224.58	1226.74	1189.74	1179.74	40.38			1186.36	
MW-3	11/13/2013	1224.58	1226.74	1189.74	1179.74	40.38			1186.36	
MW-3	12/17/2013	1224.58	1226.74	1189.74	1179.74	40.26			1186.48	
MW-3	2/18/2014	1224.58	1226.74	1189.74	1179.74	40.60			1186.14	
MW-3	3/25/2014	1224.58	1226.74	1189.74	1179.74	40.69			1186.05	
MW-3	4/16/2014	1224.58	1226.74	1189.74	1179.74	39.72			1187.02	
MW-3	6/9/2014	1224.58	1226.74	1189.74	1179.74	38.99			1187.75	
MW-3	7/17/2014	1224.58	1226.74	1189.74	1179.74	39.15			1187.59	
MW-3	8/19/2014	1224.58	1226.74	1189.74	1179.74	39.47			1187.27	
MW-3	9/17/2014	1224.58	1226.74	1189.74	1179.74	39.09			1187.65	
MW-3	10/14/2014	1224.58	1226.74	1189.74	1179.74	39.21			1187.53	
MW-3	11/13/2014	1224.58	1226.74	1189.74	1179.74	39.26			1187.48	
MW-3	12/8/2014	1224.58	1226.74	1189.74	1179.74	39.48			1187.26	
MW-3	1/13/2015	1224.58	1226.74	1189.74	1179.74	39.45			1187.29	
MW-3	2/24/2015	1224.58	1226.74	1189.74	1179.74	39.58			1187.16	
MW-3	4/29/2015	1224.58	1226.74	1189.74	1179.74	39.36			1187.38	
MW-3	6/10/2015	1224.58	1226.74	1189.74	1179.74	39.15			1187.59	
MW-3	7/13/2015	1224.58	1226.74	1189.74	1179.74	39.10			1187.64	
MW-3	7/30/2015	1224.58	1226.74	1189.74	1179.74	39.46			1187.28	
MW-3	8/20/2015	1224.58	1226.74	1189.74	1179.74	39.48			1187.26	
MW-3	9/23/2015	1224.58	1226.74	1189.74	1179.74	39.42			1187.32	
MW-3	10/22/2015	1224.58	1226.74	1189.74	1179.74	39.68			1187.06	
MW-3	11/12/2015	1224.58	1226.74	1189.74	1179.74	39.21			1187.53	
MW-3	12/8/2015	1224.58	1226.74	1189.74	1179.74	38.97			1187.77	
MW-3	1/14/2016	1224.58	1226.74	1189.74	1179.74	39.09			1187.65	
MW-4	3/24/2007	1222.86	1225.37	1188.37	1178.37	38.68			1186.69	
MW-4	4/2/2007	1222.86	1225.37	1188.37	1178.37	38.17			1187.20	
MW-4	4/17/2007	1222.86	1225.37	1188.37	1178.37	38.44			1186.93	
MW-4	5/29/2007	1222.86	1225.37	1188.37	1178.37	38.55			1186.82	
MW-4	6/12/2007	1222.86	1225.37	1188.37	1178.37	38.52			1186.85	
MW-4	6/21/2007	1222.86	1225.37	1188.37	1178.37	38.65			1186.72	
MW-4	7/2/2007	1222.86	1225.37	1188.37	1178.37	38.81			1186.56	
MW-4	7/11/2007	1222.86	1225.37	1188.37	1178.37	38.79			1186.58	
MW-4	7/24/2007	1222.86	1225.37	1188.37	1178.37	38.85			1186.52	
MW-4	8/2/2007	1222.86	1225.37	1188.37	1178.37	38.85			1186.52	
MW-4	8/9/2007	1222.86	1225.37	1188.37	1178.37	38.92			1186.45	
MW-4	10/17/2007	1222.86	1225.37	1188.37	1178.37	38.44			1186.93	
MW-4	11/9/2007	1222.86	1225.37	1188.37	1178.37	38.51			1186.86	
MW-4	12/3/2007	1222.86	1225.37	1188.37	1178.37	38.54			1186.83	
MW-4	1/14/2008	1222.86	1225.37	1188.37	1178.37	38.85			1186.52	
MW-4	2/19/2008	1222.86	1225.37	1188.37	1178.37	39.03			1186.34	
MW-4	03/24/2008	1222.86	1225.37	1188.37	1178.37	39.11			1186.26	
MW-4	04/01/2008	1222.86	1225.37	1188.37	1178.37	39.05			1186.32	
MW-4	06/10/2008	1222.86	1225.37	1188.37	1178.37	37.99			1187.38	
MW-4	08/28/2008	1222.86	1225.37	1188.37	1178.37	38.27			1187.10	
MW-4	12/03/2008	1222.86	1225.37	1188.37	1178.37	36.16			1189.21	
MW-4	03/25/2009	1222.86	1225.37	1188.37	1178.37	38.41			1186.96	
MW-4	06/24/2009	1222.86	1225.37	1188.37	1178.37	38.96			1186.41	
MW-4	09/15/2009	1222.86	1225.37	1188.37	1178.37	39.37			1186.00	
MW-4	12/7/2009	1222.86	1225.37	1188.37	1178.37	39.35			1186.02	
MW-4	3/29/2010	1222.86	1225.37	1188.37	1178.37	38.84			1186.53	
MW-4	12/28/2010	1222.86	1225.37	1188.37	1178.37	37.69			1187.68	
MW-4	3/24/2011	1222.86	1225.37	1188.37	1178.37	37.70			1187.67	
MW-4	6/23/2011	1222.86	1225.37	1188.37	1178.37	37.18			1188.19	
MW-4	10/11/2011	1222.86	1225.37	1188.37	1178.37	37.56			1187.81	
MW-4	12/19/2011	1222.86	1225.37	1188.37	1178.37	37.85			1187.52	
MW-4	3/26/2012	1222.86	1225.37	1188.37	1178.37	37.62			1187.75	
MW-4	6/19/2012	1222.86	1225.37	1188.37	1178.37	37.86			1187.51	
MW-4	9/25/2012	1222.86	1225.37	1188.37	1178.37	38.38			1186.99	
MW-4	12/17/2012	1222.86	1225.37	1188.37	1178.37	38.21			1187.16	
MW-4	3/25/2013	1222.86	1225.37	1188.37	1178.37	38.77			1186.60	
MW-4	6/19/2013	1222.86	1225.37	1188.37	1178.37	37.75			1187.62	
MW-4	9/12/2013	1222.86	1225.37	1188.37	1178.37	38.63			1186.74	
MW-4	12/17/2013	1222.86	1225.37	1188.37	1178.37	38.63			1186.74	
MW-4	3/25/2014	1222.86	1225.37	1188.37	1178.37	39.08			1186.29	
MW-4	6/9/2014	1222.86	1225.37	1188.37	1178.37	37.33			1188.04	
MW-4	9/17/2014	1222.86	1225.37	1188.37	1178.37	37.47			1187.90	
MW-4	12/8/2014	1222.86	1225.37	1188.37	1178.37	37.86			1187.51	
MW-4	4/29/2015	1222.86	1225.37	1188.37	1178.37	37.69			1187.68	
MW-4	6/10/2015	1222.86	1225.37	1188.37	1178.37	37.47			1187.90	
MW-4	9/23/2015	1222.86	1225.37	1188.37	1178.37	37.78			1187.59	
MW-4	12/8/2015	1222.86	1225.37	1188.37	1178.37	37.28			1188.09	
MW-5	3/24/2007	1224.68	1226.96	1189.96	1179.96	40.69			1186.27	
MW-5	4/2/2007	1224.68	1226.96	1189.96	1179.96	40.11			1186.85	
MW-5	4/17/2007	1224.68	1226.96	1189.96	1179.96	40.38			1186.58	
MW-5	5/29/2007	1224.68	1226.96	1189.96	1179.96	40.49			1186.47	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-5	6/12/2007	1224.68	1226.96	1189.96	1179.96	40.51			1186.45	
MW-5	6/21/2007	1224.68	1226.96	1189.96	1179.96	40.60			1186.36	
MW-5	7/2/2007	1224.68	1226.96	1189.96	1179.96	40.76			1186.20	
MW-5	7/11/2007	1224.68	1226.96	1189.96	1179.96	40.75			1186.21	
MW-5	7/24/2007	1224.68	1226.96	1189.96	1179.96	40.82			1186.14	
MW-5	8/2/2007	1224.68	1226.96	1189.96	1179.96	40.80			1186.16	
MW-5	8/9/2007	1224.68	1226.96	1189.96	1179.96	40.87			1186.09	
MW-5	10/17/2007	1224.68	1226.96	1189.96	1179.96	40.34			1186.62	
MW-5	11/9/2007	1224.68	1226.96	1189.96	1179.96	40.47			1186.49	
MW-5	12/3/2007	1224.68	1226.96	1189.96	1179.96	40.50			1186.46	
MW-5	1/14/2008	1224.68	1226.96	1189.96	1179.96	40.85			1186.11	
MW-5	2/19/2008	1224.68	1226.96	1189.96	1179.96	41.00			1185.96	
MW-5	03/24/2008	1224.68	1226.96	1189.96	1179.96	40.99			1185.97	
MW-5	04/01/2008	1224.68	1226.96	1189.96	1179.96	40.96			1186.00	
MW-5	06/10/2008	1224.68	1226.96	1189.96	1179.96	39.96			1187.00	
MW-5	08/28/2008	1224.68	1226.96	1189.96	1179.96	40.30			1186.66	
MW-5	12/03/2008	1224.68	1226.96	1189.96	1179.96	40.12			1186.84	
MW-5	03/25/2009	1224.68	1226.96	1189.96	1179.96	40.52			1186.44	
MW-5	03/31/2009	1224.68	1226.96	1189.96	1179.96	40.48			1186.48	
MW-5	04/08/2009	1224.68	1226.96	1189.96	1179.96	40.45			1186.51	
MW-5	04/13/2009	1224.68	1226.96	1189.96	1179.96	40.66			1186.30	
MW-5	05/12/2009	1224.68	1226.96	1189.96	1179.96	40.49			1186.47	
MW-5	05/19/2009	1224.68	1226.96	1189.96	1179.96	40.66			1186.30	
MW-5	6/3/2009	1224.68	1226.96	1189.96	1179.96	40.85			1186.11	
MW-5	6/10/2009	1224.68	1226.96	1189.96	1179.96	40.85			1186.11	
MW-5	6/16/2009	1224.68	1226.96	1189.96	1179.96	40.93			1186.03	
MW-5	6/24/2009	1224.68	1226.96	1189.96	1179.96	40.94			1186.02	
MW-5	6/30/2009	1224.68	1226.96	1189.96	1179.96	41.00			1185.96	
MW-5	7/8/2009	1224.68	1226.96	1189.96	1179.96	41.03			1185.93	
MW-5	7/20/2009	1224.68	1226.96	1189.96	1179.96	41.17			1185.79	
MW-5	8/4/2009	1224.68	1226.96	1189.96	1179.96	41.13			1185.83	
MW-5	8/18/2009	1224.68	1226.96	1189.96	1179.96	41.25			1185.71	
MW-5	9/1/2009	1224.68	1226.96	1189.96	1179.96	41.25			1185.71	
MW-5	9/15/2009	1224.68	1226.96	1189.96	1179.96	41.34			1185.62	
MW-5	9/29/2009	1224.68	1226.96	1189.96	1179.96	41.32			1185.64	
MW-5	10/28/2009	1224.68	1226.96	1189.96	1179.96	41.05			1185.91	
MW-5	11/11/2009	1224.68	1226.96	1189.96	1179.96	41.11			1185.85	
MW-5	12/1/2009	1224.68	1226.96	1189.96	1179.96	41.23			1185.73	
MW-5	12/7/2009	1224.68	1226.96	1189.96	1179.96	41.31			1185.65	
MW-5	12/22/2009	1224.68	1226.96	1189.96	1179.96	41.29			1185.67	
MW-5	1/5/2010	1224.68	1226.96	1189.96	1179.96	41.24			1185.72	
MW-5	1/19/2010	1224.68	1226.96	1189.96	1179.96	41.27			1185.69	
MW-5	2/3/2010	1224.68	1226.96	1189.96	1179.96	41.30			1185.66	
MW-5	2/16/2010	1224.68	1226.96	1189.96	1179.96	41.32			1185.64	
MW-5	3/3/2010	1224.68	1226.96	1189.96	1179.96	41.35			1185.61	
MW-5	3/16/2010	1224.68	1226.96	1189.96	1179.96	40.55			1186.41	
MW-5	3/30/2010	1224.68	1226.96	1189.96	1179.96	40.85			1186.11	
MW-5	4/13/2010	1224.68	1226.96	1189.96	1179.96	41.08			1185.88	
MW-5	4/27/2010	1224.68	1226.96	1189.96	1179.96	41.05			1185.91	
MW-5	5/12/2010	1224.68	1226.96	1189.96	1179.96	40.98			1185.98	
MW-5	5/26/2010	1224.68	1226.96	1189.96	1179.96	40.93			1186.03	
MW-5	6/8/2010	1224.68	1226.96	1189.96	1179.96	41.00			1185.96	
MW-5	6/24/2010	1224.68	1226.96	1189.96	1179.96	40.62			1186.34	
MW-5	7/7/2010	1224.68	1226.96	1189.96	1179.96	40.68			1186.28	
MW-5	7/20/2010	1224.68	1226.96	1189.96	1179.96	40.38			1186.58	
MW-5	8/3/2010	1224.68	1226.96	1189.96	1179.96	40.43			1186.53	
MW-5	8/16/2010	1224.68	1226.96	1189.96	1179.96	40.06			1186.90	
MW-5	8/31/2010	1224.68	1226.96	1189.96	1179.96	40.27			1186.69	
MW-5	9/14/2010	1224.68	1226.96	1189.96	1179.96	40.30			1186.66	
MW-5	9/27/2010	1224.68	1226.96	1189.96	1179.96	39.69			1187.27	
MW-5	10/12/2010	1224.68	1226.96	1189.96	1179.96	39.95			1187.01	
MW-5	10/25/2010	1224.68	1226.96	1189.96	1179.96	39.90			1187.06	
MW-5	11/9/2010	1224.68	1226.96	1189.96	1179.96	39.68			1187.28	
MW-5	11/30/2010	1224.68	1226.96	1189.96	1179.96	39.67			1187.29	
MW-5	12/16/2010	1224.68	1226.96	1189.96	1179.96	39.70			1187.26	
MW-5	12/28/2010	1224.68	1226.96	1189.96	1179.96	39.78			1187.18	
MW-5	1/25/2011	1224.68	1226.96	1189.96	1179.96	39.90			1187.06	
MW-5	2/8/2011	1224.68	1226.96	1189.96	1179.96	39.95			1187.01	
MW-5	2/21/2011	1224.68	1226.96	1189.96	1179.96	39.96			1187.00	
MW-5	3/8/2011	1224.68	1226.96	1189.96	1179.96	40.07			1186.89	
MW-5	3/24/2011	1224.68	1226.96	1189.96	1179.96	39.68			1187.28	
MW-5	4/4/2011	1224.68	1226.96	1189.96	1179.96	39.70			1187.26	
MW-5	4/26/2011	1224.68	1226.96	1189.96	1179.96	39.39			1187.57	
MW-5	5/10/2011	1224.68	1226.96	1189.96	1179.96	39.29			1187.67	
MW-5	5/23/2011	1224.68	1226.96	1189.96	1179.96	39.25			1187.71	
MW-5	6/7/2011	1224.68	1226.96	1189.96	1179.96	39.23			1187.73	
MW-5	6/23/2011	1224.68	1226.96	1189.96	1179.96	39.16			1187.80	
MW-5	7/7/2011	1224.68	1226.96	1189.96	1179.96	39.47			1187.49	
MW-5	7/28/2011	1224.68	1226.96	1189.96	1179.96	39.49			1187.47	
MW-5	8/15/2011	1224.68	1226.96	1189.96	1179.96	39.43			1187.53	
MW-5	10/11/2011	1224.68	1226.96	1189.96	1179.96	39.62			1187.34	
MW-5	10/24/2011	1224.68	1226.96	1189.96	1179.96	39.62			1187.34	
MW-5	12/19/2011	1224.68	1226.96	1189.96	1179.96	39.88			1187.08	
MW-5	1/10/2012	1224.68	1226.96	1189.96	1179.96	39.92			1187.04	
MW-5	1/24/2012	1224.68	1226.96	1189.96	1179.96	40.08			1186.88	
MW-5	2/6/2012	1224.68	1226.96	1189.96	1179.96	40.12			1186.84	
MW-5	2/20/2012	1224.68	1226.96	1189.96	1179.96	40.22			1186.74	
MW-5	3/6/2012	1224.68	1226.96	1189.96	1179.96	40.30			1186.66	
MW-5	3/26/2012	1224.68	1226.96	1189.96	1179.96	39.70			1187.26	
MW-5	4/10/2012	1224.68	1226.96	1189.96	1179.96	39.98			1186.98	
MW-5	4/23/2012	1224.68	1226.96	1189.96	1179.96	39.78			1187.18	
MW-5	5/7/2012	1224.68	1226.96	1189.96	1179.96	39.69			1187.27	
MW-5	5/22/2012	1224.68	1226.96	1189.96	1179.96	39.91			1187.05	
MW-5	6/5/2012	1224.68	1226.96	1189.96	1179.96	39.93			1187.03	
MW-5	6/20/2012	1224.68	1226.96	1189.96	1179.96	39.98			1186.98	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-5	7/18/2012	1224.68	1226.96	1189.96	1179.96	40.14			1186.82	
MW-5	7/30/2012	1224.68	1226.96	1189.96	1179.96	40.09			1186.87	
MW-5	8/12/2012	1224.68	1226.96	1189.96	1179.96	40.20			1186.76	
MW-5	8/29/2012	1224.68	1226.96	1189.96	1179.96	40.37			1186.59	
MW-5	9/12/2012	1224.68	1226.96	1189.96	1179.96	40.39			1186.57	
MW-5	9/25/2012	1224.68	1226.96	1189.96	1179.96	40.38			1186.58	
MW-5	10/16/2012	1224.68	1226.96	1189.96	1179.96	40.21			1186.75	
MW-5	10/30/2012	1224.68	1226.96	1189.96	1179.96	40.13			1186.83	
MW-5	11/12/2012	1224.68	1226.96	1189.96	1179.96	40.15			1186.81	
MW-5	12/4/2012	1224.68	1226.96	1189.96	1179.96	40.28			1186.68	
MW-5	12/17/2012	1224.68	1226.96	1189.96	1179.96	40.37			1186.59	
MW-5	1/2/2013	1224.68	1226.96	1189.96	1179.96	40.32			1186.64	
MW-5	1/15/2013	1224.68	1226.96	1189.96	1179.96	40.40			1186.56	
MW-5	1/29/2013	1224.68	1226.96	1189.96	1179.96	40.48			1186.48	
MW-5	2/12/2013	1224.68	1226.96	1189.96	1179.96	40.54			1186.42	
MW-5	2/25/2013	1224.68	1226.96	1189.96	1179.96	40.60			1186.36	
MW-5	3/12/2013	1224.68	1226.96	1189.96	1179.96	40.69			1186.27	
MW-5	3/25/2013	1224.68	1226.96	1189.96	1179.96	40.66			1186.30	
MW-5	4/9/2013	1224.68	1226.96	1189.96	1179.96	40.25			1186.71	
MW-5	4/22/2013	1224.68	1226.96	1189.96	1179.96	39.93			1187.03	
MW-5	5/9/2013	1224.68	1226.96	1189.96	1179.96	39.38			1187.58	
MW-5	6/19/2013	1224.68	1226.96	1189.96	1179.96	39.90			1187.06	
MW-5	7/17/2013	1224.68	1226.96	1189.96	1179.96	40.18			1186.78	
MW-5	8/13/2013	1224.68	1226.96	1189.96	1179.96	41.37			1185.59	
MW-5	9/12/2013	1224.68	1226.96	1189.96	1179.96	40.68			1186.28	
MW-5	10/31/2013	1224.68	1226.96	1189.96	1179.96	40.56			1186.40	
MW-5	11/13/2013	1224.68	1226.96	1189.96	1179.96	40.56			1186.40	
MW-5	12/17/2013	1224.68	1226.96	1189.96	1179.96	40.67			1186.29	
MW-5	1/21/2014	1224.68	1226.96	1189.96	1179.96	40.78			1186.18	
MW-5	2/18/2014	1224.68	1226.96	1189.96	1179.96	40.98			1185.98	
MW-5	3/25/2014	1224.68	1226.96	1189.96	1179.96	41.06			1185.90	
MW-5	4/16/2014	1224.68	1226.96	1189.96	1179.96	38.94			1188.02	
MW-5	6/9/2014	1224.68	1226.96	1189.96	1179.96	39.40			1187.56	
MW-5	7/17/2014	1224.68	1226.96	1189.96	1179.96	39.68			1187.28	
MW-5	8/19/2014	1224.68	1226.96	1189.96	1179.96	39.85			1187.11	
MW-5	9/17/2014	1224.68	1226.96	1189.96	1179.96	39.51			1187.45	
MW-5	10/14/2014	1224.68	1226.96	1189.96	1179.96	39.69			1187.27	
MW-5	11/13/2014	1224.68	1226.96	1189.96	1179.96	39.75			1187.21	
MW-5	12/8/2014	1224.68	1226.96	1189.96	1179.96	39.89			1187.07	
MW-5	1/13/2015	1224.68	1226.96	1189.96	1179.96	39.85			1187.11	
MW-5	2/24/2015	1224.68	1226.96	1189.96	1179.96	40.16			1186.80	
MW-5	4/29/2015	1224.68	1226.96	1189.96	1179.96	39.77			1187.19	
MW-5	6/10/2015	1224.68	1226.96	1189.96	1179.96	39.51			1187.45	
MW-5	7/13/2015	1224.68	1226.96	1189.96	1179.96	39.55			1187.41	
MW-5	7/30/2015	1224.68	1226.96	1189.96	1179.96	39.89			1187.07	
MW-5	8/20/2015	1224.68	1226.96	1189.96	1179.96	39.88			1187.08	
MW-5	9/23/2015	1224.68	1226.96	1189.96	1179.96	39.82			1187.14	
MW-5	10/22/2015	1224.68	1226.96	1189.96	1179.96	40.09			1186.87	
MW-5	11/12/2015	1224.68	1226.96	1189.96	1179.96	39.58			1187.38	
MW-5	12/8/2015	1224.68	1226.96	1189.96	1179.96	39.36			1187.60	
MW-5	1/14/2016	1224.68	1226.96	1189.96	1179.96	39.48			1187.48	
MW-6	5/29/2007	1223.53	1225.19	1191.19	1181.19	38.85			1186.34	
MW-6	6/12/2007	1223.53	1225.19	1191.19	1181.19	38.88			1186.31	
MW-6	6/21/2007	1223.53	1225.19	1191.19	1181.19	38.97			1186.22	
MW-6	7/2/2007	1223.53	1225.19	1191.19	1181.19	39.11			1186.08	
MW-6	7/11/2007	1223.53	1225.19	1191.19	1181.19	39.13			1186.06	
MW-6	7/24/2007	1223.53	1225.19	1191.19	1181.19	39.17			1186.02	
MW-6	8/2/2007	1223.53	1225.19	1191.19	1181.19	39.17			1186.02	
MW-6	8/9/2007	1223.53	1225.19	1191.19	1181.19	39.23			1185.96	
MW-6	10/17/2007	1223.53	1225.19	1191.19	1181.19	38.74			1186.45	
MW-6	11/9/2007	1223.53	1225.19	1191.19	1181.19	38.83			1186.36	
MW-6	12/3/2007	1223.53	1225.19	1191.19	1181.19	38.86			1186.33	
MW-6	1/14/2008	1223.53	1225.19	1191.19	1181.19	39.22			1185.97	
MW-6	2/19/2008	1223.53	1225.19	1191.19	1181.19	39.39			1185.80	
MW-6	03/24/2008	1223.53	1225.19	1191.19	1181.19	39.40			1185.79	
MW-6	04/01/2008	1223.53	1225.19	1191.19	1181.19	39.33			1185.86	
MW-6	06/10/2008	1223.53	1225.19	1191.19	1181.19	38.35			1186.84	
MW-6	08/28/2008	1223.53	1225.19	1191.19	1181.19	38.73			1186.46	
MW-6	12/03/2008	1223.53	1225.19	1191.19	1181.19	38.62			1186.57	
MW-6	03/25/2009	1223.53	1225.19	1191.19	1181.19	38.72			1186.47	
MW-6	03/31/2009	1223.53	1225.19	1191.19	1181.19	38.88			1186.31	
MW-6	04/08/2009	1223.53	1225.19	1191.19	1181.19	38.84			1186.35	
MW-6	04/13/2009	1223.53	1225.19	1191.19	1181.19	39.04			1186.15	
MW-6	05/12/2009	1223.53	1225.19	1191.19	1181.19	39.03			1186.16	
MW-6	05/19/2009	1223.53	1225.19	1191.19	1181.19	39.09			1186.10	
MW-6	6/3/2009	1223.53	1225.19	1191.19	1181.19	39.28			1185.91	
MW-6	6/10/2009	1223.53	1225.19	1191.19	1181.19	39.25			1185.94	
MW-6	6/16/2009	1223.53	1225.19	1191.19	1181.19	39.33			1185.86	
MW-6	6/24/2009	1223.53	1225.19	1191.19	1181.19	39.35			1185.84	
MW-6	6/30/2009	1223.53	1225.19	1191.19	1181.19	39.41			1185.78	
MW-6	7/8/2009	1223.53	1225.19	1191.19	1181.19	39.44			1185.75	
MW-6	7/20/2009	1223.53	1225.19	1191.19	1181.19	39.58			1185.61	
MW-6	8/4/2009	1223.53	1225.19	1191.19	1181.19	39.52			1185.67	
MW-6	8/18/2009	1223.53	1225.19	1191.19	1181.19	39.61			1185.58	
MW-6	9/1/2009	1223.53	1225.19	1191.19	1181.19	39.62			1185.57	
MW-6	9/15/2009	1223.53	1225.19	1191.19	1181.19	39.73			1185.46	
MW-6	9/29/2009	1223.53	1225.19	1191.19	1181.19	39.71			1185.48	
MW-6	10/28/2009	1223.53	1225.19	1191.19	1181.19	39.43			1185.76	
MW-6	11/11/2009	1223.53	1225.19	1191.19	1181.19	39.49			1185.70	
MW-6	12/1/2009	1223.53	1225.19	1191.19	1181.19	39.65			1185.54	
MW-6	12/7/2009	1223.53	1225.19	1191.19	1181.19	39.72			1185.47	
MW-6	12/22/2009	1223.53	1225.19	1191.19	1181.19	39.72			1185.47	
MW-6	1/5/2010	1223.53	1225.19	1191.19	1181.19	39.68			1185.51	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-6	1/19/2010	1223.53	1225.19	1191.19	1181.19	39.73			1185.46	
MW-6	2/3/2010	1223.53	1225.19	1191.19	1181.19	39.72			1185.47	
MW-6	2/16/2010	1223.53	1225.19	1191.19	1181.19	39.73			1185.46	
MW-6	3/3/2010	1223.53	1225.19	1191.19	1181.19	39.72			1185.47	
MW-6	3/16/2010	1223.53	1225.19	1191.19	1181.19	38.91			1186.28	
MW-6	3/30/2010	1223.53	1225.19	1191.19	1181.19	39.26			1185.93	
MW-6	4/13/2010	1223.53	1225.19	1191.19	1181.19	39.49			1185.70	
MW-6	4/27/2010	1223.53	1225.19	1191.19	1181.19	39.46			1185.73	
MW-6	5/12/2010	1223.53	1225.19	1191.19	1181.19	39.40			1185.79	
MW-6	5/26/2010	1223.53	1225.19	1191.19	1181.19	39.36			1185.83	
MW-6	6/8/2010	1223.53	1225.19	1191.19	1181.19	39.41			1185.78	
MW-6	6/24/2010	1223.53	1225.19	1191.19	1181.19	39.02			1186.17	
MW-6	7/7/2010	1223.53	1225.19	1191.19	1181.19	39.06			1186.13	
MW-6	7/20/2010	1223.53	1225.19	1191.19	1181.19	38.81			1186.38	
MW-6	8/3/2010	1223.53	1225.19	1191.19	1181.19	38.83			1186.36	
MW-6	8/16/2010	1223.53	1225.19	1191.19	1181.19	38.46			1186.73	
MW-6	8/31/2010	1223.53	1225.19	1191.19	1181.19	38.71			1186.48	
MW-6	9/14/2010	1223.53	1225.19	1191.19	1181.19	38.73			1186.46	
MW-6	9/27/2010	1223.53	1225.19	1191.19	1181.19	38.13			1187.06	
MW-6	10/12/2010	1223.53	1225.19	1191.19	1181.19	38.40			1186.79	
MW-6	10/25/2010	1223.53	1225.19	1191.19	1181.19	38.33			1186.86	
MW-6	11/9/2010	1223.53	1225.19	1191.19	1181.19	38.13			1187.06	
MW-6	11/30/2010	1223.53	1225.19	1191.19	1181.19	38.11			1187.08	
MW-6	12/16/2010	1223.53	1225.19	1191.19	1181.19	38.17			1187.02	
MW-6	12/28/2010	1223.53	1225.19	1191.19	1181.19	38.15			1187.04	
MW-6	1/25/2011	1223.53	1225.19	1191.19	1181.19	38.36			1186.83	
MW-6	2/8/2011	1223.53	1225.19	1191.19	1181.19	38.43			1186.76	
MW-6	2/21/2011	1223.53	1225.19	1191.19	1181.19	38.45			1186.74	
MW-6	3/8/2011	1223.53	1225.19	1191.19	1181.19	38.53			1186.66	
MW-6	3/24/2011	1223.53	1225.19	1191.19	1181.19	38.03			1187.16	
MW-6	4/4/2011	1223.53	1225.19	1191.19	1181.19	38.00			1187.19	
MW-6	4/26/2011	1223.53	1225.19	1191.19	1181.19	37.82			1187.37	
MW-6	5/10/2011	1223.53	1225.19	1191.19	1181.19	37.77			1187.42	
MW-6	5/23/2011	1223.53	1225.19	1191.19	1181.19	37.68			1187.51	
MW-6	6/7/2011	1223.53	1225.19	1191.19	1181.19	37.72			1187.47	
MW-6	6/23/2011	1223.53	1225.19	1191.19	1181.19	37.67			1187.52	
MW-6	7/7/2011	1223.53	1225.19	1191.19	1181.19	37.95			1187.24	
MW-6	7/28/2011	1223.53	1225.19	1191.19	1181.19	37.27			1187.92	
MW-6	8/15/2011	1223.53	1225.19	1191.19	1181.19	37.81			1187.38	
MW-6	9/1/2011	1223.53	1225.19	1191.19	1181.19	37.90			1187.29	
MW-6	9/13/2011	1223.53	1225.19	1191.19	1181.19	38.06			1187.13	
MW-6	9/27/2011	1223.53	1225.19	1191.19	1181.19	38.11			1187.08	
MW-6	10/11/2011	1223.53	1225.19	1191.19	1181.19	38.06			1187.13	
MW-6	12/19/2011	1223.53	1225.19	1191.19	1181.19	38.32			1186.87	
MW-6	1/10/2012	1223.53	1225.19	1191.19	1181.19	38.36			1186.83	
MW-6	1/24/2012	1223.53	1225.19	1191.19	1181.19	38.50			1186.69	
MW-6	2/6/2012	1223.53	1225.19	1191.19	1181.19	38.57			1186.62	
MW-6	2/20/2012	1223.53	1225.19	1191.19	1181.19	38.68			1186.51	
MW-6	3/6/2012	1223.53	1225.19	1191.19	1181.19	38.92			1186.27	
MW-6	3/26/2012	1223.53	1225.19	1191.19	1181.19	38.12			1187.07	
MW-6	4/10/2012	1223.53	1225.19	1191.19	1181.19	38.45			1186.74	
MW-6	4/23/2012	1223.53	1225.19	1191.19	1181.19	38.25			1186.94	
MW-6	5/7/2012	1223.53	1225.19	1191.19	1181.19	38.12			1187.07	
MW-6	5/22/2012	1223.53	1225.19	1191.19	1181.19	38.42			1186.77	
MW-6	6/5/2012	1223.53	1225.19	1191.19	1181.19	38.38			1186.81	
MW-6	6/19/2012	1223.53	1225.19	1191.19	1181.19	38.31			1186.88	
MW-6	7/18/2012	1223.53	1225.19	1191.19	1181.19	38.52			1186.67	
MW-6	7/30/2012	1223.53	1225.19	1191.19	1181.19	38.57			1186.62	
MW-6	8/12/2012	1223.53	1225.19	1191.19	1181.19	38.71			1186.48	
MW-6	8/29/2012	1223.53	1225.19	1191.19	1181.19	38.80			1186.39	
MW-6	9/12/2012	1223.53	1225.19	1191.19	1181.19	38.82			1186.37	
MW-6	9/25/2012	1223.53	1225.19	1191.19	1181.19	38.85			1186.34	
MW-6	10/16/2012	1223.53	1225.19	1191.19	1181.19	38.65			1186.54	
MW-6	10/30/2012	1223.53	1225.19	1191.19	1181.19	38.54			1186.65	
MW-6	11/12/2012	1223.53	1225.19	1191.19	1181.19	38.56			1186.63	
MW-6	12/4/2012	1223.53	1225.19	1191.19	1181.19	38.62			1186.57	
MW-6	12/17/2012	1223.53	1225.19	1191.19	1181.19	38.59			1186.60	
MW-6	1/2/2013	1223.53	1225.19	1191.19	1181.19	38.74			1186.45	
MW-6	1/15/2013	1223.53	1225.19	1191.19	1181.19	38.80			1186.39	
MW-6	1/29/2013	1223.53	1225.19	1191.19	1181.19	38.90			1186.29	
MW-6	2/12/2013	1223.53	1225.19	1191.19	1181.19	38.94			1186.25	
MW-6	2/25/2013	1223.53	1225.19	1191.19	1181.19	39.00			1186.19	
MW-6	3/12/2013	1223.53	1225.19	1191.19	1181.19	39.09			1186.10	
MW-6	3/25/2013	1223.53	1225.19	1191.19	1181.19	39.05			1186.14	
MW-6	4/9/2013	1223.53	1225.19	1191.19	1181.19	38.60			1186.59	
MW-6	4/22/2013	1223.53	1225.19	1191.19	1181.19	38.31			1186.88	
MW-6	5/9/2013	1223.53	1225.19	1191.19	1181.19	37.71			1187.48	
MW-6	6/19/2013	1223.53	1225.19	1191.19	1181.19	38.24			1186.95	
MW-6	7/17/2013	1223.53	1225.19	1191.19	1181.19	38.61			1186.58	
MW-6	8/13/2013	1223.53	1225.19	1191.19	1181.19	38.90			1186.29	
MW-6	9/12/2013	1223.53	1225.19	1191.19	1181.19	39.11			1186.08	
MW-6	10/31/2013	1223.53	1225.19	1191.19	1181.19	38.45			1186.74	
MW-6	11/13/2013	1223.53	1225.19	1191.19	1181.19	38.95			1186.24	
MW-6	12/17/2013	1223.53	1225.19	1191.19	1181.19	39.07			1186.12	
MW-6	1/21/2014	1223.53	1225.19	1191.19	1181.19	39.19			1186.00	
MW-6	2/18/2014	1223.53	1225.19	1191.19	1181.19	39.40			1185.79	
MW-6	3/25/2014	1223.53	1225.19	1191.19	1181.19	39.43			1185.76	
MW-6	4/16/2014	1223.53	1225.19	1191.19	1181.19	38.32			1186.87	
MW-6	6/9/2014	1223.53	1225.19	1191.19	1181.19	37.82			1187.37	
MW-6	7/17/2014	1223.53	1225.19	1191.19	1181.19	38.12			1187.07	
MW-6	8/19/2014	1223.53	1225.19	1191.19	1181.19	38.28			1186.91	
MW-6	9/17/2014	1223.53	1225.19	1191.19	1181.19	37.96			1187.23	
MW-6	10/14/2014	1223.53	1225.19	1191.19	1181.19	38.18			1187.01	
MW-6	11/13/2014	1223.53	1225.19	1191.19	1181.19	38.24			1186.95	
MW-6	12/8/2014	1223.53	1225.19	1191.19	1181.19	38.31			1186.88	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-6	1/13/2015	1223.53	1225.19	1191.19	1181.19	38.28			1186.91	
MW-6	2/24/2015	1223.53	1225.19	1191.19	1181.19	38.60			1186.59	
MW-6	4/29/2015	1223.53	1225.19	1191.19	1181.19	38.19			1187.00	
MW-6	6/10/2015	1223.53	1225.19	1191.19	1181.19	37.97			1187.22	
MW-6	7/13/2015	1223.53	1225.19	1191.19	1181.19	38.00			1187.19	
MW-6	7/30/2015	1223.53	1225.19	1191.19	1181.19	38.35			1186.84	
MW-6	8/20/2015	1223.53	1225.19	1191.19	1181.19	38.29			1186.90	
MW-6	9/23/2015	1223.53	1225.19	1191.19	1181.19	38.20			1186.99	
MW-6	10/22/2015	1223.53	1225.19	1191.19	1181.19	38.50			1186.69	
MW-6	11/12/2015	1223.53	1225.19	1191.19	1181.19	37.95			1187.24	
MW-6	12/8/2015	1223.53	1225.19	1191.19	1181.19	37.82			1187.37	
MW-6	1/14/2016	1223.53	1225.19	1191.19	1181.19	37.97			1187.22	
MW-7	6/12/2007	1223.77	1225.94	1189.94	1179.94	39.59			1186.35	
MW-7	6/21/2007	1223.77	1225.94	1189.94	1179.94	39.67			1186.27	
MW-7	7/2/2007	1223.77	1225.94	1189.94	1179.94	39.82			1186.12	
MW-7	7/11/2007	1223.77	1225.94	1189.94	1179.94	39.83			1186.11	
MW-7	7/24/2007	1223.77	1225.94	1189.94	1179.94	39.89			1186.05	
MW-7	8/2/2007	1223.77	1225.94	1189.94	1179.94	39.88			1186.06	
MW-7	8/9/2007	1223.77	1225.94	1189.94	1179.94	39.94			1186.00	
MW-7	10/17/2007	1223.77	1225.94	1189.94	1179.94	39.41			1186.53	
MW-7	11/9/2007	1223.77	1225.94	1189.94	1179.94	39.54			1186.40	
MW-7	12/3/2007	1223.77	1225.94	1189.94	1179.94	39.56			1186.38	
MW-7	1/14/2008	1223.77	1225.94	1189.94	1179.94	39.92			1186.02	
MW-7	2/19/2008	1223.77	1225.94	1189.94	1179.94	40.89	39.91	0.98	1185.05	1186.03
MW-7	2/25/2008	1223.77	1225.94	1189.94	1179.94	40.93	39.93	1.00	1185.01	1186.01
MW-7	3/11/2008	1223.77	1225.94	1189.94	1179.94	41.00	39.95	1.05	1184.94	1185.99
MW-7	3/19/2008	1223.77	1225.94	1189.94	1179.94	41.06	39.97	1.09	1184.88	1185.97
MW-7	3/24/2008	1223.77	1225.94	1189.94	1179.94	40.98	39.91	1.07	1184.96	1186.03
MW-7	6/10/2008	1223.77	1225.94	1189.94	1179.94	39.26	38.99	0.27	1186.68	1186.95
MW-7	7/22/2008	1223.77	1225.94	1189.94	1179.94	39.03	39.03	0.00	1186.91	1186.91
MW-7	7/30/2008	1223.77	1225.94	1189.94	1179.94	39.04	39.04	0.00	1186.90	1186.90
MW-7	8/5/2008	1223.77	1225.94	1189.94	1179.94	39.80	39.15	0.65	1186.14	1186.79
MW-7	8/12/2008	1223.77	1225.94	1189.94	1179.94	39.80	39.23	0.57	1186.14	1186.71
MW-7	8/19/2008	1223.77	1225.94	1189.94	1179.94	39.85	39.25	0.60	1186.09	1186.69
MW-7	8/28/2008	1223.77	1225.94	1189.94	1179.94	41.20	40.33	0.87	1184.74	1185.61
MW-7	9/9/2008	1223.77	1225.94	1189.94	1179.94	42.00	40.30	1.70	1183.94	1185.64
MW-7	9/16/2008	1223.77	1225.94	1189.94	1179.94	42.06	40.30	1.76	1183.88	1185.64
MW-7	9/24/2008	1223.77	1225.94	1189.94	1179.94	41.30	40.35	0.95	1184.64	1185.59
MW-7	9/30/2008	1223.77	1225.94	1189.94	1179.94	41.78	41.22	0.56	1184.16	1184.72
MW-7	10/6/2008	1223.77	1225.94	1189.94	1179.94	40.86	40.12	0.74	1185.08	1185.82
MW-7	10/14/2008	1223.77	1225.94	1189.94	1179.94	40.84	40.14	0.70	1185.10	1185.80
MW-7	10/21/2008	1223.77	1225.94	1189.94	1179.94	40.61	40.14	0.47	1185.33	1185.80
MW-7	11/4/2008	1223.77	1225.94	1189.94	1179.94	40.19	40.04	0.15	1185.75	1185.90
MW-7	11/11/2008	1223.77	1225.94	1189.94	1179.94	40.19	40.04	0.15	1185.75	1185.90
MW-7	11/19/2008	1223.77	1225.94	1189.94	1179.94	40.25	40.10	0.15	1185.69	1185.84
MW-7	12/3/2008	1223.77	1225.94	1189.94	1179.94	40.35	40.00	0.35	1185.59	1185.94
MW-7	1/2/2009	1223.77	1225.94	1189.94	1179.94	40.80	40.65	0.15	1185.14	1185.29
MW-7	2/4/2009	1223.77	1225.94	1189.94	1179.94	40.79	40.60	0.19	1185.15	1185.34
MW-7	2/10/2009	1223.77	1225.94	1189.94	1179.94	41.10	40.53	0.57	1184.84	1185.41
MW-7	2/27/2009	1223.77	1225.94	1189.94	1179.94	40.92	40.68	0.24	1185.02	1185.26
MW-7	3/4/2009	1223.77	1225.94	1189.94	1179.94	41.30	40.65	0.65	1184.64	1185.29
MW-7	3/11/2009	1223.77	1225.94	1189.94	1179.94	41.05	40.62	0.43	1184.89	1185.32
MW-7	3/17/2009	1223.77	1225.94	1189.94	1179.94	41.01	40.49	0.52	1184.93	1185.45
MW-7	3/25/2009	1223.77	1225.94	1189.94	1179.94	40.47	40.45	0.02	1185.47	1185.49
MW-7	3/31/2009	1223.77	1225.94	1189.94	1179.94	40.52	40.52	0.00	1185.42	1185.42
MW-7	4/8/2009	1223.77	1225.94	1189.94	1179.94	40.55	40.40	0.15	1185.39	1185.54
MW-7	4/13/2009	1223.77	1225.94	1189.94	1179.94	40.59	40.59	0.00	1185.35	1185.35
MW-7	4/22/2009	1223.77	1225.94	1189.94	1179.94	40.81	40.73	0.08	1185.13	1185.21
MW-7	4/29/2009	1223.77	1225.94	1189.94	1179.94	40.85	40.58	0.27	1185.09	1185.36
MW-7	5/12/2009	1223.77	1225.94	1189.94	1179.94	40.91	40.52	0.39	1185.03	1185.42
MW-7	5/19/2009	1223.77	1225.94	1189.94	1179.94	41.31	40.69	0.62	1184.63	1185.25
MW-7	6/3/2009	1223.77	1225.94	1189.94	1179.94	41.60	40.96	0.64	1184.34	1184.98
MW-7	6/10/2009	1223.77	1225.94	1189.94	1179.94	41.55	40.95	0.60	1184.39	1184.99
MW-7	6/16/2009	1223.77	1225.94	1189.94	1179.94	41.25	41.00	0.25	1184.69	1184.94
MW-7	6/24/2009	1223.77	1225.94	1189.94	1179.94	41.19	41.03	0.16	1184.75	1184.91
MW-7	6/30/2009	1223.77	1225.94	1189.94	1179.94	40.70	40.60	0.10	1185.24	1185.34
MW-7	7/8/2009	1223.77	1225.94	1189.94	1179.94	40.85	40.62	0.23	1185.09	1185.32
MW-7	7/20/2009	1223.77	1225.94	1189.94	1179.94	40.80	40.20	0.60	1185.14	1185.74
MW-7	8/4/2009	1223.77	1225.94	1189.94	1179.94	40.39	40.05	0.34	1185.55	1185.89
MW-7	8/18/2009	1223.77	1225.94	1189.94	1179.94	40.41	40.12	0.29	1185.53	1185.82
MW-7	9/1/2009	1223.77	1225.94	1189.94	1179.94	40.85	40.25	0.60	1185.09	1185.69
MW-7	9/15/2009	1223.77	1225.94	1189.94	1179.94	40.65	40.42	0.23	1185.29	1185.52
MW-7	9/29/2009	1223.77	1225.94	1189.94	1179.94	40.35	40.10	0.25	1185.59	1185.84
MW-7	10/28/2009	1223.77	1225.94	1189.94	1179.94	40.18	40.16	0.02	1185.76	1185.78
MW-7	11/11/2009	1223.77	1225.94	1189.94	1179.94	41.09	41.08	0.01	1184.85	1184.86
MW-7	12/1/2009	1223.77	1225.94	1189.94	1179.94	40.34	40.33	0.01	1185.60	1185.61
MW-7	12/7/2009	1223.77	1225.94	1189.94	1179.94	40.22	40.20	0.02	1185.72	1185.74
MW-7	3/3/2010	1223.77	1225.94	1189.94	1179.94	40.94	40.40	0.54	1185.00	1185.54
MW-7	3/16/2010	1223.77	1225.94	1189.94	1179.94	39.72	39.70	0.02	1186.22	1186.24
MW-7	3/29/2010	1223.77	1225.94	1189.94	1179.94	40.00	39.90	0.10	1185.94	1186.04
MW-7	4/13/2010	1223.77	1225.94	1189.94	1179.94	40.20	40.20	0.00	1185.74	1185.74
MW-7	4/27/2010	1223.77	1225.94	1189.94	1179.94	40.14	40.13	0.01	1185.80	1185.81
MW-7	5/12/2010	1223.77	1225.94	1189.94	1179.94	39.83	39.80	0.03	1186.11	1186.14
MW-7	5/26/2010	1223.77	1225.94	1189.94	1179.94	39.80	39.78	0.02	1186.14	1186.16
MW-7	6/8/2010	1223.77	1225.94	1189.94	1179.94	40.08	40.04	0.04	1185.86	1185.90
MW-7	6/24/2010	1223.77	1225.94	1189.94	1179.94	39.68	39.65	0.03	1186.26	1186.29
MW-7	7/7/2010	1223.77	1225.94	1189.94	1179.94	39.70	39.69	0.01	1186.24	1186.25
MW-7	7/20/2010	1223.77	1225.94	1189.94	1179.94	39.49			1186.45	
MW-7	8/3/2010	1223.77	1225.94	1189.94	1179.94	39.56	39.54	0.02	1186.38	1186.40
MW-7	8/16/2010	1223.77	1225.94	1189.94	1179.94	39.20			1186.74	
MW-7	8/31/2010	1223.77	1225.94	1189.94	1179.94	39.42	39.42	0.00	1186.52	1186.52
MW-7	9/14/2010	1223.77	1225.94	1189.94	1179.94	39.40			1186.54	
MW-7	9/27/2010	1223.77	1225.94	1189.94	1179.94	38.94			1187.00	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-7	10/12/2010	1223.77	1225.94	1189.94	1179.94	39.15			1186.79	
MW-7	10/25/2010	1223.77	1225.94	1189.94	1179.94	39.14	39.13	0.01	1186.80	1186.81
MW-7	11/9/2010	1223.77	1225.94	1189.94	1179.94	38.78			1187.16	
MW-7	11/30/2010	1223.77	1225.94	1189.94	1179.94	38.76			1187.18	
MW-7	12/16/2010	1223.77	1225.94	1189.94	1179.94	38.83			1187.11	
MW-7	12/28/2010	1223.77	1225.94	1189.94	1179.94	38.86			1187.08	
MW-7	1/25/2011	1223.77	1225.94	1189.94	1179.94	39.03			1186.91	
MW-7	2/8/2011	1223.77	1225.94	1189.94	1179.94	39.05			1186.89	
MW-7	2/21/2011	1223.77	1225.94	1189.94	1179.94	39.08			1186.86	
MW-7	3/8/2011	1223.77	1225.94	1189.94	1179.94	39.15			1186.79	
MW-7	3/24/2011	1223.77	1225.94	1189.94	1179.94	38.72			1187.22	
MW-7	4/4/2011	1223.77	1225.94	1189.94	1179.94	38.69			1187.25	
MW-7	4/26/2011	1223.77	1225.94	1189.94	1179.94	38.48			1187.46	
MW-7	5/10/2011	1223.77	1225.94	1189.94	1179.94	38.44			1187.50	
MW-7	5/23/2011	1223.77	1225.94	1189.94	1179.94	38.33			1187.61	
MW-7	6/7/2011	1223.77	1225.94	1189.94	1179.94	38.41			1187.53	
MW-7	6/23/2011	1223.77	1225.94	1189.94	1179.94	38.27			1187.67	
MW-7	7/7/2011	1223.77	1225.94	1189.94	1179.94	38.49			1187.45	
MW-7	7/28/2011	1223.77	1225.94	1189.94	1179.94	39.02			1186.92	
MW-7	8/15/2011	1223.77	1225.94	1189.94	1179.94	38.52			1187.42	
MW-7	9/1/2011	1223.77	1225.94	1189.94	1179.94	38.59			1187.35	
MW-7	9/13/2011	1223.77	1225.94	1189.94	1179.94	38.73			1187.21	
MW-7	9/27/2011	1223.77	1225.94	1189.94	1179.94	38.79			1187.15	
MW-7	10/11/2011	1223.77	1225.94	1189.94	1179.94	38.85			1187.09	
MW-7	10/24/2011	1223.77	1225.94	1189.94	1179.94	38.88			1187.06	
MW-7	11/7/2011	1223.77	1225.94	1189.94	1179.94	38.84			1187.10	
MW-7	12/19/2011	1223.77	1225.94	1189.94	1179.94	38.98			1186.96	
MW-7	1/10/2012	1223.77	1225.94	1189.94	1179.94	39.04			1186.90	
MW-7	1/24/2012	1223.77	1225.94	1189.94	1179.94	39.20		trace	1186.74	
MW-7	2/6/2012	1223.77	1225.94	1189.94	1179.94	39.30			1186.64	
MW-7	2/20/2012	1223.77	1225.94	1189.94	1179.94	39.41	39.40	0.01	1186.53	1186.54
MW-7	3/6/2012	1223.77	1225.94	1189.94	1179.94	39.42	39.41	0.01	1186.52	1186.53
MW-7	3/26/2012	1223.77	1225.94	1189.94	1179.94	38.75			1187.19	
MW-7	4/10/2012	1223.77	1225.94	1189.94	1179.94	39.13			1186.81	
MW-7	4/23/2012	1223.77	1225.94	1189.94	1179.94	38.90			1187.04	
MW-7	5/7/2012	1223.77	1225.94	1189.94	1179.94	38.82			1187.12	
MW-7	5/22/2012	1223.77	1225.94	1189.94	1179.94	39.16			1186.78	
MW-7	6/5/2012	1223.77	1225.94	1189.94	1179.94	39.07			1186.87	
MW-7	6/20/2012	1223.77	1225.94	1189.94	1179.94	39.16			1186.78	
MW-7	7/18/2012	1223.77	1225.94	1189.94	1179.94	39.26	39.25	0.01	1186.68	1186.69
MW-7	7/30/2012	1223.77	1225.94	1189.94	1179.94	39.28	39.27	0.01	1186.66	1186.67
MW-7	8/12/2012	1223.77	1225.94	1189.94	1179.94	39.40	39.39	0.01	1186.54	1186.55
MW-7	8/29/2012	1223.77	1225.94	1189.94	1179.94	39.50	39.49	0.01	1186.44	1186.45
MW-7	9/12/2012	1223.77	1225.94	1189.94	1179.94	39.51	39.50	0.01	1186.43	1186.44
MW-7	9/25/2012	1223.77	1225.94	1189.94	1179.94	39.52	39.50	0.02	1186.42	1186.44
MW-7	10/16/2012	1223.77	1225.94	1189.94	1179.94	39.37	39.35	0.02	1186.57	1186.59
MW-7	10/30/2012	1223.77	1225.94	1189.94	1179.94	39.29	39.25	0.04	1186.65	1186.69
MW-7	11/12/2012	1223.77	1225.94	1189.94	1179.94	39.29	39.29	trace	1186.65	1186.65
MW-7	12/4/2012	1223.77	1225.94	1189.94	1179.94	39.32	39.32	trace	1186.62	1186.62
MW-7	12/17/2012	1223.77	1225.94	1189.94	1179.94	39.32	39.32	trace	1186.62	1186.62
MW-7	1/2/2013	1223.77	1225.94	1189.94	1179.94	39.44	39.44	trace	1186.50	1186.50
MW-7	1/15/2013	1223.77	1225.94	1189.94	1179.94	39.51	39.50	0.01	1186.43	1186.44
MW-7	1/29/2013	1223.77	1225.94	1189.94	1179.94	39.60	39.59	0.01	1186.34	1186.35
MW-7	2/12/2013	1223.77	1225.94	1189.94	1179.94	39.70	39.68	0.02	1186.24	1186.26
MW-7	2/25/2013	1223.77	1225.94	1189.94	1179.94	39.72	39.70	0.02	1186.22	1186.24
MW-7	3/12/2013	1223.77	1225.94	1189.94	1179.94	39.76	39.75	0.01	1186.18	1186.19
MW-7	3/25/2013	1223.77	1225.94	1189.94	1179.94	39.76	39.75	0.01	1186.18	1186.19
MW-7	4/9/2013	1223.77	1225.94	1189.94	1179.94	39.31	39.30	0.01	1186.63	1186.64
MW-7	4/22/2013	1223.77	1225.94	1189.94	1179.94	39.02			1186.92	
MW-7	5/9/2013	1223.77	1225.94	1189.94	1179.94	38.53			1187.41	
MW-7	6/19/2013	1223.77	1225.94	1189.94	1179.94	39.01			1186.93	
MW-7	7/17/2013	1223.77	1225.94	1189.94	1179.94	39.30	39.30	trace	1186.64	1186.64
MW-7	8/13/2013	1223.77	1225.94	1189.94	1179.94	39.58			1186.36	
MW-7	9/12/2013	1223.77	1225.94	1189.94	1179.94	39.80	39.80	trace	1186.14	1186.14
MW-7	10/31/2013	1223.77	1225.94	1189.94	1179.94	39.65			1186.29	
MW-7	11/13/2013	1223.77	1225.94	1189.94	1179.94	39.65			1186.29	
MW-7	12/18/2013	1223.77	1225.94	1189.94	1179.94	39.71			1186.23	
MW-7	1/21/2014	1223.77	1225.94	1189.94	1179.94	39.92	39.92	trace	1186.02	1186.02
MW-7	2/18/2014	1223.77	1225.94	1189.94	1179.94	40.06	40.05	0.01	1185.88	1185.89
MW-7	3/25/2014	1223.77	1225.94	1189.94	1179.94	40.11	40.09	0.02	1185.83	1185.85
MW-7	4/16/2014	1223.77	1225.94	1189.94	1179.94	38.98	38.98		1186.96	
MW-7	6/9/2014	1223.77	1225.94	1189.94	1179.94	39.60	39.58	0.02	1186.34	1186.36
MW-7	7/17/2014	1223.77	1225.94	1189.94	1179.94	38.75			1187.19	
MW-7	8/19/2014	1223.77	1225.94	1189.94	1179.94	38.97			1186.97	
MW-7	9/17/2014	1223.77	1225.94	1189.94	1179.94	38.65			1187.29	
MW-7	10/14/2014	1223.77	1225.94	1189.94	1179.94	38.84			1187.10	
MW-7	11/13/2014	1223.77	1225.94	1189.94	1179.94	38.91			1187.03	
MW-7	12/8/2014	1223.77	1225.94	1189.94	1179.94	38.90			1187.04	
MW-7	1/13/2015	1223.77	1225.94	1189.94	1179.94	38.99			1186.95	
MW-7	2/24/2015	1223.77	1225.94	1189.94	1179.94	39.33			1186.61	
MW-7	4/29/2015	1223.77	1225.94	1189.94	1179.94	38.09			1187.85	
MW-7	6/10/2015	1223.77	1225.94	1189.94	1179.94	38.63			1187.31	
MW-7	7/13/2015	1223.77	1225.94	1189.94	1179.94	38.70			1187.24	
MW-7	7/30/2015	1223.77	1225.94	1189.94	1179.94	39.02			1186.92	
MW-7	8/20/2015	1223.77	1225.94	1189.94	1179.94	38.98			1186.96	
MW-7	9/23/2015	1223.77	1225.94	1189.94	1179.94	38.99			1186.95	
MW-7	10/22/2015	1223.77	1225.94	1189.94	1179.94	39.18			1186.76	
MW-7	11/12/2015	1223.77	1225.94	1189.94	1179.94	37.71			1188.23	
MW-7	12/8/2015	1223.77	1225.94	1189.94	1179.94	38.58			1187.36	
MW-7	1/14/2016	1223.77	1225.94	1189.94	1179.94	38.65			1187.29	
MW-7	1/14/2016	1223.77	1225.94	1189.94	1179.94	38.65			1187.29	
MW-7D	6/12/2007	1223.77	1226.04	1160.04	1155.04	39.54			1186.50	
MW-7D	6/21/2007	1223.77	1226.04	1160.04	1155.04	39.63			1186.41	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-7D	7/2/2007	1223.77	1226.04	1160.04	1155.04	39.77			1186.27	
MW-7D	7/24/2007	1223.77	1226.04	1160.04	1155.04	39.85			1186.19	
MW-7D	8/2/2007	1223.77	1226.04	1160.04	1155.04	39.85			1186.19	
MW-7D	8/9/2007	1223.77	1226.04	1160.04	1155.04	39.90			1186.14	
MW-7D	10/17/2007	1223.77	1226.04	1160.04	1155.04	39.40			1186.64	
MW-7D	11/9/2007	1223.77	1226.04	1160.04	1155.04	39.50			1186.54	
MW-7D	12/3/2007	1223.77	1226.04	1160.04	1155.04	39.51			1186.53	
MW-7D	1/14/2008	1223.77	1226.04	1160.04	1155.04	39.87			1186.17	
MW-7D	2/19/2008	1223.77	1226.04	1160.04	1155.04	40.00			1186.04	
MW-7D	03/11/2008	1223.77	1226.04	1160.04	1155.04	40.08			1185.96	
MW-7D	03/19/2008	1223.77	1226.04	1160.04	1155.04	40.12			1185.92	
MW-7D	03/24/2008	1223.77	1226.04	1160.04	1155.04	40.08			1185.96	
MW-7D	04/01/2008	1223.77	1226.04	1160.04	1155.04	40.00			1186.04	
MW-7D	06/10/2008	1223.77	1226.04	1160.04	1155.04	38.85			1187.19	
MW-7D	08/28/2008	1223.77	1226.04	1160.04	1155.04	39.33			1186.71	
MW-7D	03/25/2009	1223.77	1226.04	1160.04	1155.04	39.45			1186.59	
MW-7D	06/24/2009	1223.77	1226.04	1160.04	1155.04	40.00			1186.04	
MW-7D	9/15/2009	1223.77	1226.04	1160.04	1155.04	40.39			1185.65	
MW-7D	12/7/2009	1223.77	1226.04	1160.04	1155.04	40.37			1185.67	
MW-7D	3/29/2010	1223.77	1226.04	1160.04	1155.04	39.90			1186.14	
MW-7D	6/24/2010	1223.77	1226.04	1160.04	1155.04	39.65			1186.39	
MW-7D	9/27/2010	1223.77	1226.04	1160.04	1155.04	38.90			1187.14	
MW-7D	12/28/2010	1223.77	1226.04	1160.04	1155.04	38.81			1187.23	
MW-7D	3/24/2011	1223.77	1226.04	1160.04	1155.04	38.73			1187.31	
MW-7D	6/23/2011	1223.77	1226.04	1160.04	1155.04	38.28			1187.76	
MW-7D	10/11/2011	1223.77	1226.04	1160.04	1155.04	38.70			1187.34	
MW-7D	12/19/2011	1223.77	1226.04	1160.04	1155.04	38.96			1187.08	
MW-7D	3/26/2012	1223.77	1226.04	1160.04	1155.04	38.69			1187.35	
MW-7D	6/19/2012	1223.77	1226.04	1160.04	1155.04	39.03			1187.01	
MW-7D	9/25/2012	1223.77	1226.04	1160.04	1155.04	39.48			1186.56	
MW-7D	12/17/2012	1223.77	1226.04	1160.04	1155.04	39.34			1186.70	
MW-7D	3/25/2013	1223.77	1226.04	1160.04	1155.04	39.73			1186.31	
MW-7D	6/19/2013	1223.77	1226.04	1160.04	1155.04	38.91			1187.13	
MW-7D	9/12/2013	1223.77	1226.04	1160.04	1155.04	39.80			1186.24	
MW-7D	12/18/2013	1223.77	1226.04	1160.04	1155.04	39.70			1186.34	
MW-7D	3/25/2014	1223.77	1226.04	1160.04	1155.04	40.01			1186.03	
MW-7D	6/9/2014	1223.77	1226.04	1160.04	1155.04	38.47			1187.57	
MW-7D	12/8/2015	1223.77	1226.04	1160.04	1155.04	Sparge			#VALUE!	
MW-8	6/12/2007	1226.17	1227.68	1191.68	1181.68	41.04			1186.64	
MW-8	6/21/2007	1226.17	1227.68	1191.68	1181.68	41.12			1186.56	
MW-8	7/2/2007	1226.17	1227.68	1191.68	1181.68	41.28			1186.40	
MW-8	7/11/2007	1226.17	1227.68	1191.68	1181.68	41.28			1186.40	
MW-8	7/24/2007	1226.17	1227.68	1191.68	1181.68	41.33			1186.35	
MW-8	8/2/2007	1226.17	1227.68	1191.68	1181.68	41.36			1186.32	
MW-8	8/9/2007	1226.17	1227.68	1191.68	1181.68	41.40			1186.28	
MW-8	10/17/2007	1226.17	1227.68	1191.68	1181.68	40.92			1186.76	
MW-8	11/9/2007	1226.17	1227.68	1191.68	1181.68	41.01			1186.67	
MW-8	12/3/2007	1226.17	1227.68	1191.68	1181.68	41.04			1186.64	
MW-8	1/14/2008	1226.17	1227.68	1191.68	1181.68	41.38			1186.30	
MW-8	2/19/2008	1226.17	1227.68	1191.68	1181.68	41.58			1186.10	
MW-8	03/11/2008	1226.17	1227.68	1191.68	1181.68	41.65			1186.03	
MW-8	03/19/2008	1226.17	1227.68	1191.68	1181.68	41.66			1186.02	
MW-8	03/24/2008	1226.17	1227.68	1191.68	1181.68	41.61			1186.07	
MW-8	04/01/2008	1226.17	1227.68	1191.68	1181.68	41.52			1186.16	
MW-8	06/10/2008	1226.17	1227.68	1191.68	1181.68	40.51			1187.17	
MW-8	08/28/2008	1226.17	1227.68	1191.68	1181.68	40.84			1186.84	
MW-8	12/03/2008	1226.17	1227.68	1191.68	1181.68	40.63			1187.05	
MW-8	03/25/2009	1226.17	1227.68	1191.68	1181.68	41.97			1185.71	
MW-8	06/24/2009	1226.17	1227.68	1191.68	1181.68	41.47			1186.21	
MW-8	9/15/2009	1226.17	1227.68	1191.68	1181.68	41.87			1185.81	
MW-8	12/7/2009	1226.17	1227.68	1191.68	1181.68	41.88			1185.80	
MW-8	3/29/2010	1226.17	1227.68	1191.68	1181.68	41.32			1186.36	
MW-8	6/24/2010	1226.17	1227.68	1191.68	1181.68	41.14			1186.54	
MW-8	9/27/2010	1226.17	1227.68	1191.68	1181.68	40.25			1187.43	
MW-8	12/28/2010	1226.17	1227.68	1191.68	1181.68	40.30			1187.38	
MW-8	3/24/2011	1226.17	1227.68	1191.68	1181.68	40.21			1187.47	
MW-8	6/23/2011	1226.17	1227.68	1191.68	1181.68	39.73			1187.95	
MW-8	10/11/2011	1226.17	1227.68	1191.68	1181.68	40.21			1187.47	
MW-8	12/19/2011	1226.17	1227.68	1191.68	1181.68	40.60			1187.08	
MW-8	3/26/2012	1226.17	1227.68	1191.68	1181.68	40.23			1187.45	
MW-8	6/19/2012	1226.17	1227.68	1191.68	1181.68	40.01			1187.67	
MW-8	9/25/2012	1226.17	1227.68	1191.68	1181.68	40.99			1186.69	
MW-8	12/17/2012	1226.17	1227.68	1191.68	1181.68	40.81			1186.87	
MW-8	3/25/2013	1226.17	1227.68	1191.68	1181.68	41.18			1186.50	
MW-8	6/19/2013	1226.17	1227.68	1191.68	1181.68	40.46			1187.22	
MW-8	9/12/2013	1226.17	1227.68	1191.68	1181.68	41.30			1186.38	
MW-8	12/17/2013	1226.17	1227.68	1191.68	1181.68	41.25			1186.43	
MW-8	3/25/2014	1226.17	1227.68	1191.68	1181.68	41.79			1185.89	
MW-8	6/9/2014	1226.17	1227.68	1191.68	1181.68	40.20			1187.48	
MW-8	9/17/2014	1226.17	1227.68	1191.68	1181.68	40.22			1187.46	
MW-8	12/8/2014	1226.17	1227.68	1191.68	1181.68	40.59			1187.09	
MW-8	4/29/2015	1226.17	1227.68	1191.68	1181.68	40.53			1187.15	
MW-8	6/10/2015	1226.17	1227.68	1191.68	1181.68	40.27			1187.41	
MW-8	9/23/2015	1226.17	1227.68	1191.68	1181.68	40.59			1187.09	
MW-8	12/8/2015	1226.17	1227.68	1191.68	1181.68	40.10			1187.58	
MW-9	6/12/2007	1224.09	1225.67	1190.67	1180.67	38.66			1187.01	
MW-9	6/21/2007	1224.09	1225.67	1190.67	1180.67	38.76			1186.91	
MW-9	7/2/2007	1224.09	1225.67	1190.67	1180.67	38.91			1186.76	
MW-9	7/11/2007	1224.09	1225.67	1190.67	1180.67	38.90			1186.77	
MW-9	7/24/2007	1224.09	1225.67	1190.67	1180.67	38.96			1186.71	
MW-9	8/2/2007	1224.09	1225.67	1190.67	1180.67	38.93			1186.74	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-9	8/9/2007	1224.09	1225.67	1190.67	1180.67	39.03			1186.64	
MW-9	10/17/2007	1224.09	1225.67	1190.67	1180.67	38.56			1187.11	
MW-9	11/9/2007	1224.09	1225.67	1190.67	1180.67	38.65			1187.02	
MW-9	12/3/2007	1224.09	1225.67	1190.67	1180.67	38.65			1187.02	
MW-9	1/14/2008	1224.09	1225.67	1190.67	1180.67	38.95			1186.72	
MW-9	2/19/2008	1224.09	1225.67	1190.67	1180.67	39.13			1186.54	
MW-9	03/11/2008	1224.09	1225.67	1190.67	1180.67	39.22			1186.45	
MW-9	03/19/2008	1224.09	1225.67	1190.67	1180.67	39.24			1186.43	
MW-9	03/24/2008	1224.09	1225.67	1190.67	1180.67	39.21			1186.46	
MW-9	04/01/2008	1224.09	1225.67	1190.67	1180.67	39.16			1186.51	
MW-9	06/10/2008	1224.09	1225.67	1190.67	1180.67	38.12			1187.55	
MW-9	08/28/2008	1224.09	1225.67	1190.67	1180.67	38.37			1187.30	
MW-9	12/03/2008	1224.09	1225.67	1190.67	1180.67	38.29			1187.38	
MW-9	03/25/2009	1224.09	1225.67	1190.67	1180.67	39.52			1186.15	
MW-9	9/15/2009	1224.09	1225.67	1190.67	1180.67	39.48			1186.19	
MW-9	12/7/2009	1224.09	1225.67	1190.67	1180.67	39.47			1186.20	
MW-9	12/22/2009	1224.09	1225.67	1190.67	1180.67	39.49			1186.18	
MW-9	3/29/2010	1224.09	1225.67	1190.67	1180.67	38.99			1186.68	
MW-9	4/13/2010	1224.09	1225.67	1190.67	1180.67	39.20			1186.47	
MW-9	4/27/2010	1224.09	1225.67	1190.67	1180.67	39.15			1186.52	
MW-9	5/12/2010	1224.09	1225.67	1190.67	1180.67	39.18			1186.49	
MW-9	5/26/2010	1224.09	1225.67	1190.67	1180.67	39.14			1186.53	
MW-9	6/8/2010	1224.09	1225.67	1190.67	1180.67	39.26			1186.41	
MW-9	6/24/2010	1224.09	1225.67	1190.67	1180.67	38.81			1186.86	
MW-9	7/7/2010	1224.09	1225.67	1190.67	1180.67	38.86			1186.81	
MW-9	9/27/2010	1224.09	1225.67	1190.67	1180.67	37.81			1187.86	
MW-9	12/28/2010	1224.09	1225.67	1190.67	1180.67	37.73			1187.94	
MW-9	3/24/2011	1224.09	1225.67	1190.67	1180.67	37.78			1187.89	
MW-9	6/23/2011	1224.09	1225.67	1190.67	1180.67	37.20			1188.47	
MW-9	10/11/2011	1224.09	1225.67	1190.67	1180.67	37.61			1188.06	
MW-9	12/19/2011	1224.09	1225.67	1190.67	1180.67	37.93			1187.74	
MW-9	1/10/2012	1224.09	1225.67	1190.67	1180.67	39.96			1185.71	
MW-9	3/26/2012	1224.09	1225.67	1190.67	1180.67	37.73			1187.94	
MW-9	6/19/2012	1224.09	1225.67	1190.67	1180.67	37.93			1187.74	
MW-9	9/25/2012	1224.09	1225.67	1190.67	1180.67	38.44			1187.23	
MW-9	12/17/2012	1224.09	1225.67	1190.67	1180.67	38.30			1187.37	
MW-9	3/25/2013	1224.09	1225.67	1190.67	1180.67	38.79			1186.88	
MW-9	6/19/2013	1224.09	1225.67	1190.67	1180.67	37.86			1187.81	
MW-9	9/12/2013	1224.09	1225.67	1190.67	1180.67	38.72			1186.95	
MW-9	12/17/2013	1224.09	1225.67	1190.67	1180.67	38.75			1186.92	
MW-9	3/25/2014	1224.09	1225.67	1190.67	1180.67	39.12			1186.55	
MW-9	6/9/2014	1224.09	1225.67	1190.67	1180.67	37.43			1188.24	
MW-9	9/17/2014	1224.09	1225.67	1190.67	1180.67	37.52			1188.15	
MW-9	12/8/2014	1224.09	1225.67	1190.67	1180.67	37.95			1187.72	
MW-9	1/13/2015	1224.09	1225.67	1190.67	1180.67	NC				
MW-9	2/24/2015	1224.09	1225.67	1190.67	1180.67	NC				
MW-9	4/29/2015	1224.09	1225.67	1190.67	1180.67	37.76			1187.91	
MW-9	6/10/2015	1224.09	1225.67	1190.67	1180.67	37.59			1188.08	
MW-9	7/13/2015	1224.09	1225.67	1190.67	1180.67	NC				
MW-9	7/30/2015	1224.09	1225.67	1190.67	1180.67	NC				
MW-9	8/20/2015	1224.09	1225.67	1190.67	1180.67	NC				
MW-9	9/23/2015	1224.09	1225.67	1190.67	1180.67	37.87			1187.80	
MW-9	10/22/2015	1224.09	1225.67	1190.67	1180.67	38.09			1187.58	
MW-9	11/12/2015	1224.09	1225.67	1190.67	1180.67	NC				
MW-9	12/8/2015	1224.09	1225.67	1190.67	1180.67	37.37			1188.30	
MW-9	1/14/2016	1224.09	1225.67	1190.67	1180.67	NC				
MW-10	5/29/2007	1223.52	1225.30	1186.80	1176.80	38.50			1186.80	
MW-10	6/12/2007	1223.52	1225.30	1186.80	1176.80	38.50			1186.80	
MW-10	6/21/2007	1223.52	1225.30	1186.80	1176.80	38.59			1186.71	
MW-10	7/2/2007	1223.52	1225.30	1186.80	1176.80	38.76			1186.54	
MW-10	7/11/2007	1223.52	1225.30	1186.80	1176.80	38.74			1186.56	
MW-10	7/24/2007	1223.52	1225.30	1186.80	1176.80	38.81			1186.49	
MW-10	8/2/2007	1223.52	1225.30	1186.80	1176.80	38.82			1186.48	
MW-10	8/9/2007	1223.52	1225.30	1186.80	1176.80	38.86			1186.44	
MW-10	10/17/2007	1223.52	1225.30	1186.80	1176.80	38.39			1186.91	
MW-10	11/9/2007	1223.52	1225.30	1186.80	1176.80	38.48			1186.82	
MW-10	12/3/2007	1223.52	1225.30	1186.80	1176.80	38.48			1186.82	
MW-10	1/14/2008	1223.52	1225.30	1186.80	1176.80	38.80			1186.50	
MW-10	2/19/2008	1223.52	1225.30	1186.80	1176.80	38.98			1186.32	
MW-10	03/24/2008	1223.52	1225.30	1186.80	1176.80	39.06			1186.24	
MW-10	04/01/2008	1223.52	1225.30	1186.80	1176.80	39.01			1186.29	
MW-10	06/10/2008	1223.52	1225.30	1186.80	1176.80	37.95			1187.35	
MW-10	Abandoned									
MW-11	6/21/2007	1224.81	1226.87	1190.87	1180.87	40.36			1186.51	
MW-11	7/11/2007	1224.81	1226.87	1190.87	1180.87	40.50			1186.37	
MW-11	8/2/2007	1224.81	1226.87	1190.87	1180.87	40.58			1186.29	
MW-11	10/17/2007	1224.81	1226.87	1190.87	1180.87	40.28	40.08	0.20	1186.59	1186.79
MW-11	12/3/2007	1224.81	1226.87	1190.87	1180.87	40.56	40.19	0.37	1186.31	1186.68
MW-11	1/14/2008	1224.81	1226.87	1190.87	1180.87	41.28	40.47	0.81	1185.59	1186.40
MW-11	03/11/2008	1224.81	1226.87	1190.87	1180.87	41.60	40.63	0.97	1185.27	1186.24
MW-11	03/24/2008	1224.81	1226.87	1190.87	1180.87	41.58	40.56	1.02	1185.29	1186.31
MW-11	04/01/2008	1224.81	1226.87	1190.87	1180.87	40.73	40.70	0.03	1186.14	1186.17
MW-11	04/08/2008	1224.81	1226.87	1190.87	1180.87	40.24	40.24	0.00	1186.63	1186.63
MW-11	04/23/2008	1224.81	1226.87	1190.87	1180.87	39.77	39.77	0.00	1187.10	1187.10
MW-11	05/03/2008	1224.81	1226.87	1190.87	1180.87	39.66	39.66	0.00	1187.21	1187.21
MW-11	06/10/2008	1224.81	1226.87	1190.87	1180.87	39.69	39.67	0.02	1187.18	1187.20
MW-11	07/22/2008	1224.81	1226.87	1190.87	1180.87	39.89	39.89	0.00	1186.98	1186.98
MW-11	07/30/2008	1224.81	1226.87	1190.87	1180.87	39.81	39.81	0.00	1187.06	1187.06
MW-11	08/05/2008	1224.81	1226.87	1190.87	1180.87	39.88	39.88	0.00	1186.99	1186.99
MW-11	08/12/2008	1224.81	1226.87	1190.87	1180.87	39.90	39.89	0.01	1186.97	1186.98
MW-11	08/19/2008	1224.81	1226.87	1190.87	1180.87	39.92	39.92	0.00	1186.95	1186.95
MW-11	08/27/2008	1224.81	1226.87	1190.87	1180.87	39.92	39.92	0.00	1186.95	1186.95

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-11	08/28/2008	1224.81	1226.87	1190.87	1180.87	40.00	40.00	0.00	1186.87	1186.87
MW-11	09/09/2008	1224.81	1226.87	1190.87	1180.87	40.04	40.02	0.02	1186.83	1186.85
MW-11	09/16/2008	1224.81	1226.87	1190.87	1180.87	40.05	40.03	0.02	1186.82	1186.84
MW-11	09/24/2008	1224.81	1226.87	1190.87	1180.87	40.05	40.03	0.02	1186.82	1186.84
MW-11	09/30/2008	1224.81	1226.87	1190.87	1180.87	40.01	40.01	0.00	1186.86	1186.86
MW-11	10/06/2008	1224.81	1226.87	1190.87	1180.87	39.93	39.93	0.00	1186.94	1186.94
MW-11	10/14/2008	1224.81	1226.87	1190.87	1180.87	39.90	39.90	0.00	1186.97	1186.97
MW-11	10/21/2008	1224.81	1226.87	1190.87	1180.87	39.82	39.80	0.02	1187.05	1187.07
MW-11	11/04/2008	1224.81	1226.87	1190.87	1180.87	39.74	39.68	0.06	1187.13	1187.19
MW-11	11/11/2008	1224.81	1226.87	1190.87	1180.87	39.75	39.65	0.10	1187.12	1187.22
MW-11	11/19/2008	1224.81	1226.87	1190.87	1180.87	39.72	39.68	0.04	1187.15	1187.19
MW-11	12/03/2008	1224.81	1226.87	1190.87	1180.87	40.36	39.72	0.64	1186.51	1187.15
MW-11	01/02/2009	1224.81	1226.87	1190.87	1180.87	40.02	39.97	0.05	1186.85	1186.90
MW-11	02/04/2009	1224.81	1226.87	1190.87	1180.87	40.11			1186.76	
MW-11	02/10/2009	1224.81	1226.87	1190.87	1180.87	40.12			1186.75	
MW-11	02/17/2009	1224.81	1226.87	1190.87	1180.87	40.14	40.13	0.01	1186.73	1186.74
MW-11	02/27/2009	1224.81	1226.87	1190.87	1180.87	40.12	40.11	0.01	1186.75	1186.76
MW-11	03/04/2009	1224.81	1226.87	1190.87	1180.87	40.24	40.22	0.02	1186.63	1186.65
MW-11	03/11/2009	1224.81	1226.87	1190.87	1180.87	40.21			1186.66	
MW-11	03/17/2009	1224.81	1226.87	1190.87	1180.87	40.12			1186.75	
MW-11	03/24/2009	1224.81	1226.87	1190.87	1180.87	39.95			1186.92	
MW-11	03/31/2009	1224.81	1226.87	1190.87	1180.87	40.01			1186.86	
MW-11	04/08/2009	1224.81	1226.87	1190.87	1180.87	40.11			1186.76	
MW-11	04/13/2009	1224.81	1226.87	1190.87	1180.87	40.04			1186.83	
MW-11	05/12/2009	1224.81	1226.87	1190.87	1180.87	40.16			1186.71	
MW-11	05/19/2009	1224.81	1226.87	1190.87	1180.87	40.41			1186.46	
MW-11	6/3/2009	1224.81	1226.87	1190.87	1180.87	40.52	40.50	0.02	1186.35	1186.37
MW-11	6/10/2009	1224.81	1226.87	1190.87	1180.87	40.51	40.49	0.02	1186.36	1186.38
MW-11	6/16/2009	1224.81	1226.87	1190.87	1180.87	40.62	40.61	0.01	1186.25	1186.26
MW-11	6/24/2009	1224.81	1226.87	1190.87	1180.87	40.65	40.64	0.01	1186.22	1186.23
MW-11	6/30/2009	1224.81	1226.87	1190.87	1180.87	40.28	40.26	0.02	1186.59	1186.61
MW-11	07/20/2009	1224.81	1226.87	1190.87	1180.87	40.86	40.20	0.66	1186.01	1186.67
MW-11	8/18/2009	1224.81	1226.87	1190.87	1180.87	40.90	40.88	0.02	1185.97	1185.99
MW-11	9/15/2009	1224.81	1226.87	1190.87	1180.87	41.03	40.99	0.04	1185.84	1185.88
MW-11	10/28/2009	1224.81	1226.87	1190.87	1180.87	40.75			1186.12	
MW-11	11/11/2009	1224.81	1226.87	1190.87	1180.87	40.77			1186.10	
MW-11	12/1/2009	1224.81	1226.87	1190.87	1180.87	40.94			1185.93	
MW-11	12/7/2009	1224.81	1226.87	1190.87	1180.87	40.98			1185.89	
MW-11	12/22/2009	1224.81	1226.87	1190.87	1180.87	40.99			1185.88	
MW-11	1/5/2010	1224.81	1226.87	1190.87	1180.87	41.99			1184.88	
MW-11	1/19/2010	1224.81	1226.87	1190.87	1180.87	42.01			1184.86	
MW-11	2/3/2010	1224.81	1226.87	1190.87	1180.87	41.00			1185.87	
MW-11	2/16/2010	1224.81	1226.87	1190.87	1180.87	41.02	41.01	0.01	1185.85	1185.86
MW-11	3/3/2010	1224.81	1226.87	1190.87	1180.87	41.01			1185.86	
MW-11	3/16/2010	1224.81	1226.87	1190.87	1180.87	40.28			1186.59	
MW-11	03/29/2010	1224.81	1226.87	1190.87	1180.87	40.50	40.50	0.01	1186.37	1186.38
MW-11	4/13/2010	1224.81	1226.87	1190.87	1180.87	40.74	40.72	0.02	1186.13	1186.15
MW-11	4/27/2010	1224.81	1226.87	1190.87	1180.87	40.72			1186.15	
MW-11	5/12/2010	1224.81	1226.87	1190.87	1180.87	40.65			1186.22	
MW-11	5/26/2010	1224.81	1226.87	1190.87	1180.87	40.60	40.60	0.00	1186.27	1186.27
MW-11	6/8/2010	1224.81	1226.87	1190.87	1180.87	40.72	40.72	0.00	1186.15	1186.15
MW-11	6/24/2010	1224.81	1226.87	1190.87	1180.87	40.28			1186.59	
MW-11	7/7/2010	1224.81	1226.87	1190.87	1180.87	40.34			1186.53	
MW-11	7/20/2010	1224.81	1226.87	1190.87	1180.87	40.06			1186.81	
MW-11	8/3/2010	1224.81	1226.87	1190.87	1180.87	40.11			1186.76	
MW-11	8/16/2010	1224.81	1226.87	1190.87	1180.87	39.77			1187.10	
MW-11	8/31/2010	1224.81	1226.87	1190.87	1180.87	39.99			1186.88	
MW-11	9/14/2010	1224.81	1226.87	1190.87	1180.87	40.01			1186.86	
MW-11	9/27/2010	1224.81	1226.87	1190.87	1180.87	39.48			1187.39	
MW-11	10/12/2010	1224.81	1226.87	1190.87	1180.87	39.76			1187.11	
MW-11	10/25/2010	1224.81	1226.87	1190.87	1180.87	39.70			1187.17	
MW-11	11/9/2010	1224.81	1226.87	1190.87	1180.87	39.30			1187.57	
MW-11	11/30/2010	1224.81	1226.87	1190.87	1180.87	39.29			1187.58	
MW-11	12/16/2010	1224.81	1226.87	1190.87	1180.87	39.36			1187.51	
MW-11	12/28/2010	1224.81	1226.87	1190.87	1180.87	39.37			1187.50	
MW-11	1/25/2011	1224.81	1226.87	1190.87	1180.87	39.52			1187.35	
MW-11	2/8/2011	1224.81	1226.87	1190.87	1180.87	39.60			1187.27	
MW-11	2/21/2011	1224.81	1226.87	1190.87	1180.87	39.62			1187.25	
MW-11	3/8/2011	1224.81	1226.87	1190.87	1180.87	39.72			1187.15	
MW-11	3/24/2011	1224.81	1226.87	1190.87	1180.87	39.32			1187.55	
MW-11	4/4/2011	1224.81	1226.87	1190.87	1180.87	39.30			1187.57	
MW-11	4/26/2011	1224.81	1226.87	1190.87	1180.87	39.02			1187.85	
MW-11	5/10/2011	1224.81	1226.87	1190.87	1180.87	38.89			1187.98	
MW-11	5/23/2011	1224.81	1226.87	1190.87	1180.87	38.93			1187.94	
MW-11	6/7/2011	1224.81	1226.87	1190.87	1180.87	38.85			1188.02	
MW-11	6/23/2011	1224.81	1226.87	1190.87	1180.87	38.82			1188.05	
MW-11	7/7/2011	1224.81	1226.87	1190.87	1180.87	39.08			1187.79	
MW-11	7/28/2011	1224.81	1226.87	1190.87	1180.87	39.14			1187.73	
MW-11	8/15/2011	1224.81	1226.87	1190.87	1180.87	39.00			1187.87	
MW-11	9/1/2011	1224.81	1226.87	1190.87	1180.87	39.04			1187.83	
MW-11	9/13/2011	1224.81	1226.87	1190.87	1180.87	39.18			1187.69	
MW-11	9/27/2011	1224.81	1226.87	1190.87	1180.87	39.26			1187.61	
MW-11	10/11/2011	1224.81	1226.87	1190.87	1180.87	39.25			1187.62	
MW-11	11/7/2011	1224.81	1226.87	1190.87	1180.87	39.30			1187.57	
MW-11	12/19/2011	1224.81	1226.87	1190.87	1180.87	39.40			1187.47	
MW-11	1/10/2012	1224.81	1226.87	1190.87	1180.87	39.44			1187.43	
MW-11	1/24/2012	1224.81	1226.87	1190.87	1180.87	39.69			1187.18	
MW-11	2/6/2012	1224.81	1226.87	1190.87	1180.87	39.79			1187.08	
MW-11	2/20/2012	1224.81	1226.87	1190.87	1180.87	39.90			1186.97	
MW-11	3/6/2012	1224.81	1226.87	1190.87	1180.87	39.40		trace	1187.47	
MW-11	4/10/2012	1224.81	1226.87	1190.87	1180.87	39.65			1187.22	
MW-11	5/7/2012	1224.81	1226.87	1190.87	1180.87	39.37			1187.50	
MW-11	6/5/2012	1224.81	1226.87	1190.87	1180.87	39.59			1187.28	
MW-11	6/19/2012	1224.81	1226.87	1190.87	1180.87	39.54			1187.33	
MW-11	7/18/2012	1224.81	1226.87	1190.87	1180.87	39.80			1187.07	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-11	8/12/2012	1224.81	1226.87	1190.87	1180.87	39.92			1186.95	
MW-11	9/12/2012	1224.81	1226.87	1190.87	1180.87	40.01			1186.86	
MW-11	9/25/2012	1224.81	1226.87	1190.87	1180.87	40.04			1186.83	
MW-11	10/16/2012	1224.81	1226.87	1190.87	1180.87	39.90			1186.97	
MW-11	11/12/2012	1224.81	1226.87	1190.87	1180.87	39.81			1187.06	
MW-11	12/4/2012	1224.81	1226.87	1190.87	1180.87	39.89			1186.98	
MW-11	12/17/2012	1224.81	1226.87	1190.87	1180.87	39.85			1187.02	
MW-11	1/2/2013	1224.81	1226.87	1190.87	1180.87	39.90			1186.97	
MW-11	1/15/2013	1224.81	1226.87	1190.87	1180.87	40.03			1186.84	
MW-11	1/29/2013	1224.81	1226.87	1190.87	1180.87	40.11			1186.76	
MW-11	2/12/2013	1224.81	1226.87	1190.87	1180.87	40.19			1186.68	
MW-11	2/25/2013	1224.81	1226.87	1190.87	1180.87	40.25			1186.62	
MW-11	3/12/2013	1224.81	1226.87	1190.87	1180.87	40.30			1186.57	
MW-11	3/25/2013	1224.81	1226.87	1190.87	1180.87	40.31			1186.56	
MW-11	4/9/2013	1224.81	1226.87	1190.87	1180.87	39.89			1186.98	
MW-11	4/22/2013	1224.81	1226.87	1190.87	1180.87	39.58			1187.29	
MW-11	5/9/2013	1224.81	1226.87	1190.87	1180.87	39.03			1187.84	
MW-11	6/19/2013	1224.81	1226.87	1190.87	1180.87	39.48			1187.39	
MW-11	7/17/2013	1224.81	1226.87	1190.87	1180.87	39.79			1187.08	
MW-11	8/13/2013	1224.81	1226.87	1190.87	1180.87	40.10			1186.77	
MW-11	9/12/2013	1224.81	1226.87	1190.87	1180.87	40.32			1186.55	
MW-11	10/31/2013	1224.81	1226.87	1190.87	1180.87	40.20			1186.67	
MW-11	11/13/2013	1224.81	1226.87	1190.87	1180.87	40.20			1186.67	
MW-11	12/18/2013	1224.81	1226.87	1190.87	1180.87	40.23			1186.64	
MW-11	1/21/2014	1224.81	1226.87	1190.87	1180.87	40.47			1186.40	
MW-11	2/18/2014	1224.81	1226.87	1190.87	1180.87	40.62			1186.25	
MW-11	3/25/2014	1224.81	1226.87	1190.87	1180.87	40.71			1186.16	
MW-11	4/16/2014	1224.81	1226.87	1190.87	1180.87	39.62			1187.25	
MW-11	6/9/2014	1224.81	1226.87	1190.87	1180.87	39.00			1187.87	
MW-11	7/17/2014	1224.81	1226.87	1190.87	1180.87	39.25			1187.62	
MW-11	8/19/2014	1224.81	1226.87	1190.87	1180.87	39.15			1187.72	
MW-11	9/17/2014	1224.81	1226.87	1190.87	1180.87	39.12			1187.75	
MW-11	10/14/2014	1224.81	1226.87	1190.87	1180.87	39.30			1187.57	
MW-11	11/13/2014	1224.81	1226.87	1190.87	1180.87	39.37			1187.50	
MW-11	12/8/2014	1224.81	1226.87	1190.87	1180.87	39.44			1187.43	
MW-11	1/13/2015	1224.81	1226.87	1190.87	1180.87	39.50			1187.37	
MW-11	2/24/2015	1224.81	1226.87	1190.87	1180.87	39.82			1187.05	
MW-11	4/29/2015	1224.81	1226.87	1190.87	1180.87	39.39			1187.48	
MW-11	6/10/2015	1224.81	1226.87	1190.87	1180.87	39.10			1187.77	
MW-11	7/13/2015	1224.81	1226.87	1190.87	1180.87	39.19			1187.68	
MW-11	7/30/2015	1224.81	1226.87	1190.87	1180.87	39.00			1187.87	
MW-11	8/20/2015	1224.81	1226.87	1190.87	1180.87	39.50			1187.37	
MW-11	9/23/2015	1224.81	1226.87	1190.87	1180.87	39.45			1187.42	
MW-11	10/22/2015	1224.81	1226.87	1190.87	1180.87	39.67			1187.20	
MW-11	11/12/2015	1224.81	1226.87	1190.87	1180.87	39.21			1187.66	
MW-11	12/8/2015	1224.81	1226.87	1190.87	1180.87	38.97			1187.90	
MW-11	1/14/2016	1224.81	1226.87	1190.87	1180.87	39.09			1187.78	
MW-12	7/25/2007	1223.28	1225.71	1189.71	1179.71	39.52			1186.19	
MW-12	8/2/2007	1223.28	1225.71	1189.71	1179.71	39.53			1186.18	
MW-12	8/9/2007	1223.28	1225.71	1189.71	1179.71	39.58			1186.13	
MW-12	10/17/2007	1223.28	1225.71	1189.71	1179.71	39.09			1186.62	
MW-12	11/9/2007	1223.28	1225.71	1189.71	1179.71	39.20			1186.51	
MW-12	12/3/2007	1223.28	1225.71	1189.71	1179.71	39.21			1186.50	
MW-12	1/14/2008	1223.28	1225.71	1189.71	1179.71	39.58			1186.13	
MW-12	2/19/2008	1223.28	1225.71	1189.71	1179.71	39.82			1185.89	
MW-12	03/24/2008	1223.28	1225.71	1189.71	1179.71	39.85			1185.86	
MW-12	04/01/2008	1223.28	1225.71	1189.71	1179.71	39.82			1185.89	
MW-12	06/10/2008	1223.28	1225.71	1189.71	1179.71	38.81			1186.90	
MW-12	08/28/2008	1223.28	1225.71	1189.71	1179.71	39.18			1186.53	
MW-12	12/03/2008	1223.28	1225.71	1189.71	1179.71	39.10			1186.61	
MW-12	03/25/2009	1223.28	1225.71	1189.71	1179.71	39.24			1186.47	
MW-12	03/31/2009	1223.28	1225.71	1189.71	1179.71	38.29			1187.42	
MW-12	04/08/2009	1223.28	1225.71	1189.71	1179.71	39.31			1186.40	
MW-12	04/13/2009	1223.28	1225.71	1189.71	1179.71	39.50			1186.21	
MW-12	05/12/2009	1223.28	1225.71	1189.71	1179.71	39.38			1186.33	
MW-12	05/19/2009	1223.28	1225.71	1189.71	1179.71	39.60			1186.11	
MW-12	6/3/2009	1223.28	1225.71	1189.71	1179.71	39.73			1185.98	
MW-12	6/10/2009	1223.28	1225.71	1189.71	1179.71	39.69			1186.02	
MW-12	6/16/2009	1223.28	1225.71	1189.71	1179.71	39.82			1185.89	
MW-12	6/24/2009	1223.28	1225.71	1189.71	1179.71	39.82			1185.89	
MW-12	6/30/2009	1223.28	1225.71	1189.71	1179.71	39.91			1185.80	
MW-12	7/8/2009	1223.28	1225.71	1189.71	1179.71	39.94			1185.77	
MW-12	7/20/2009	1223.28	1225.71	1189.71	1179.71	40.01			1185.70	
MW-12	8/4/2009	1223.28	1225.71	1189.71	1179.71	39.99			1185.72	
MW-12	8/18/2009	1223.28	1225.71	1189.71	1179.71	40.08			1185.63	
MW-12	9/1/2009	1223.28	1225.71	1189.71	1179.71	40.06			1185.65	
MW-12	9/15/2009	1223.28	1225.71	1189.71	1179.71	40.19			1185.52	
MW-12	9/29/2009	1223.28	1225.71	1189.71	1179.71	40.20			1185.51	
MW-12	10/28/2009	1223.28	1225.71	1189.71	1179.71	39.92			1185.79	
MW-12	11/11/2009	1223.28	1225.71	1189.71	1179.71	39.97			1185.74	
MW-12	12/1/2009	1223.28	1225.71	1189.71	1179.71	40.11			1185.60	
MW-12	12/7/2009	1223.28	1225.71	1189.71	1179.71	40.20			1185.51	
MW-12	12/22/2009	1223.28	1225.71	1189.71	1179.71	40.20			1185.51	
MW-12	1/5/2010	1223.28	1225.71	1189.71	1179.71	40.18			1185.53	
MW-12	2/3/2010	1223.28	1225.71	1189.71	1179.71	40.19			1185.52	
MW-12	2/16/2010	1223.28	1225.71	1189.71	1179.71	40.22			1185.49	
MW-12	3/3/2010	1223.28	1225.71	1189.71	1179.71	40.30			1185.41	
MW-12	3/16/2010	1223.28	1225.71	1189.71	1179.71	39.09			1186.62	
MW-12	3/30/2010	1223.28	1225.71	1189.71	1179.71	39.73			1185.98	
MW-12	4/13/2010	1223.28	1225.71	1189.71	1179.71	39.98			1185.73	
MW-12	4/27/2010	1223.28	1225.71	1189.71	1179.71	39.95			1185.76	
MW-12	5/12/2010	1223.28	1225.71	1189.71	1179.71	39.91			1185.80	
MW-12	5/26/2010	1223.28	1225.71	1189.71	1179.71	39.87			1185.84	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-12	6/8/2010	1223.28	1225.71	1189.71	1179.71	39.26			1186.45	
MW-12	6/24/2010	1223.28	1225.71	1189.71	1179.71	39.58			1186.13	
MW-12	7/7/2010	1223.28	1225.71	1189.71	1179.71	39.64			1186.07	
MW-12	7/20/2010	1223.28	1225.71	1189.71	1179.71	39.31			1186.40	
MW-12	8/3/2010	1223.28	1225.71	1189.71	1179.71	39.35			1186.36	
MW-12	8/16/2010	1223.28	1225.71	1189.71	1179.71	39.01			1186.70	
MW-12	8/31/2010	1223.28	1225.71	1189.71	1179.71	39.18			1186.53	
MW-12	9/14/2010	1223.28	1225.71	1189.71	1179.71	39.20			1186.51	
MW-12	9/27/2010	1223.28	1225.71	1189.71	1179.71	38.61			1187.10	
MW-12	10/12/2010	1223.28	1225.71	1189.71	1179.71	38.88			1186.83	
MW-12	10/25/2010	1223.28	1225.71	1189.71	1179.71	38.81			1186.90	
MW-12	11/19/2010	1223.28	1225.71	1189.71	1179.71	38.60			1187.11	
MW-12	11/30/2010	1223.28	1225.71	1189.71	1179.71	38.58			1187.13	
MW-12	12/16/2010	1223.28	1225.71	1189.71	1179.71	38.68			1187.03	
MW-12	12/28/2010	1223.28	1225.71	1189.71	1179.71	38.71			1187.00	
MW-12	1/25/2011	1223.28	1225.71	1189.71	1179.71	38.86			1186.85	
MW-12	2/8/2011	1223.28	1225.71	1189.71	1179.71	38.88			1186.83	
MW-12	2/21/2011	1223.28	1225.71	1189.71	1179.71	38.90			1186.81	
MW-12	3/24/2011	1223.28	1225.71	1189.71	1179.71	38.77			1186.94	
MW-12	4/4/2011	1223.28	1225.71	1189.71	1179.71	38.75			1186.96	
MW-12	4/26/2011	1223.28	1225.71	1189.71	1179.71	38.51			1187.20	
MW-12	5/10/2011	1223.28	1225.71	1189.71	1179.71	38.48			1187.23	
MW-12	5/23/2011	1223.28	1225.71	1189.71	1179.71	38.38			1187.33	
MW-12	6/7/2011	1223.28	1225.71	1189.71	1179.71	38.42			1187.29	
MW-12	6/23/2011	1223.28	1225.71	1189.71	1179.71	38.28			1187.43	
MW-12	7/7/2011	1223.28	1225.71	1189.71	1179.71	38.54			1187.17	
MW-12	8/15/2011	1223.28	1225.71	1189.71	1179.71	38.45			1187.26	
MW-12	9/1/2011	1223.28	1225.71	1189.71	1179.71	38.54			1187.17	
MW-12	9/13/2011	1223.28	1225.71	1189.71	1179.71	38.71			1187.00	
MW-12	9/27/2011	1223.28	1225.71	1189.71	1179.71	38.76			1186.95	
MW-12	10/11/2011	1223.28	1225.71	1189.71	1179.71	38.73			1186.98	
MW-12	12/19/2011	1223.28	1225.71	1189.71	1179.71	39.01			1186.70	
MW-12	1/10/2012	1223.28	1225.71	1189.71	1179.71	39.07			1186.64	
MW-12	1/24/2012	1223.28	1225.71	1189.71	1179.71	39.18			1186.53	
MW-12	2/6/2012	1223.28	1225.71	1189.71	1179.71	39.25			1186.46	
MW-12	2/20/2012	1223.28	1225.71	1189.71	1179.71	39.37			1186.34	
MW-12	3/6/2012	1223.28	1225.71	1189.71	1179.71	39.41			1186.30	
MW-12	3/26/2012	1223.28	1225.71	1189.71	1179.71	38.81			1186.90	
MW-12	4/10/2012	1223.28	1225.71	1189.71	1179.71	39.10			1186.61	
MW-12	4/23/2012	1223.28	1225.71	1189.71	1179.71	38.90			1186.81	
MW-12	5/7/2012	1223.28	1225.71	1189.71	1179.71	38.90			1186.81	
MW-12	5/22/2012	1223.28	1225.71	1189.71	1179.71	38.50			1187.21	
MW-12	6/5/2012	1223.28	1225.71	1189.71	1179.71	38.35			1187.36	
MW-12	6/19/2012	1223.28	1225.71	1189.71	1179.71	38.98			1186.73	
MW-12	7/18/2012	1223.28	1225.71	1189.71	1179.71	39.22			1186.49	
MW-12	7/30/2012	1223.28	1225.71	1189.71	1179.71	39.25			1186.46	
MW-12	8/12/2012	1223.28	1225.71	1189.71	1179.71	39.38			1186.33	
MW-12	8/29/2012	1223.28	1225.71	1189.71	1179.71	39.52			1186.19	
MW-12	9/12/2012	1223.28	1225.71	1189.71	1179.71	39.55			1186.16	
MW-12	9/25/2012	1223.28	1225.71	1189.71	1179.71	39.52			1186.19	
MW-12	10/16/2012	1223.28	1225.71	1189.71	1179.71	39.30			1186.41	
MW-12	10/30/2012	1223.28	1225.71	1189.71	1179.71	39.22			1186.49	
MW-12	11/12/2012	1223.28	1225.71	1189.71	1179.71	39.25			1186.46	
MW-12	12/4/2012	1223.28	1225.71	1189.71	1179.71	39.30			1186.41	
MW-12	12/17/2012	1223.28	1225.71	1189.71	1179.71	39.28			1186.43	
MW-12	1/2/2013	1223.28	1225.71	1189.71	1179.71	39.40			1186.31	
MW-12	1/29/2013	1223.28	1225.71	1189.71	1179.71	39.51			1186.20	
MW-12	2/12/2013	1223.28	1225.71	1189.71	1179.71	39.62			1186.09	
MW-12	2/25/2013	1223.28	1225.71	1189.71	1179.71	39.78			1185.93	
MW-12	3/12/2013	1223.28	1225.71	1189.71	1179.71	39.73			1185.98	
MW-12	3/25/2013	1223.28	1225.71	1189.71	1179.71	39.73			1185.98	
MW-12	4/9/2013	1223.28	1225.71	1189.71	1179.71	39.30			1186.41	
MW-12	4/22/2013	1223.28	1225.71	1189.71	1179.71	39.00			1186.71	
MW-12	5/9/2013	1223.28	1225.71	1189.71	1179.71	38.48			1187.23	
MW-12	6/19/2013	1223.28	1225.71	1189.71	1179.71	38.93			1186.78	
MW-12	7/17/2013	1223.28	1225.71	1189.71	1179.71	39.29			1186.42	
MW-12	8/13/2013	1223.28	1225.71	1189.71	1179.71	39.58			1186.13	
MW-12	9/12/2013	1223.28	1225.71	1189.71	1179.71	39.80			1185.91	
MW-12	10/31/2013	1223.28	1225.71	1189.71	1179.71	39.91			1185.80	
MW-12	11/13/2013	1223.28	1225.71	1189.71	1179.71	39.91			1185.80	
MW-12	12/17/2013	1223.28	1225.71	1189.71	1179.71	39.75			1185.96	
MW-12	1/21/2014	1223.28	1225.71	1189.71	1179.71	39.12			1186.59	
MW-12	2/18/2014	1223.28	1225.71	1189.71	1179.71	40.12			1185.59	
MW-12	3/25/2014	1223.28	1225.71	1189.71	1179.71	40.23			1185.48	
MW-12	4/16/2014	1223.28	1225.71	1189.71	1179.71	39.10			1186.61	
MW-12	6/9/2014	1223.28	1225.71	1189.71	1179.71	38.60			1187.11	
MW-12	7/17/2014	1223.28	1225.71	1189.71	1179.71	38.89			1186.82	
MW-12	8/19/2014	1223.28	1225.71	1189.71	1179.71	39.86			1185.85	
MW-12	9/17/2014	1223.28	1225.71	1189.71	1179.71	38.72			1186.99	
MW-12	10/14/2014	1223.28	1225.71	1189.71	1179.71	38.48			1187.23	
MW-12	11/13/2014	1223.28	1225.71	1189.71	1179.71	38.52			1187.19	
MW-12	12/8/2014	1223.28	1225.71	1189.71	1179.71	39.10			1186.61	
MW-12	1/13/2015	1223.28	1225.71	1189.71	1179.71	39.08			1186.63	
MW-12	2/24/2015	1223.28	1225.71	1189.71	1179.71	39.48			1186.23	
MW-12	4/29/2015	1223.28	1225.71	1189.71	1179.71	39.08			1186.63	
MW-12	6/10/2015	1223.28	1225.71	1189.71	1179.71	38.82			1186.89	
MW-12	7/13/2015	1223.28	1225.71	1189.71	1179.71	38.38			1187.33	
MW-12	7/30/2015	1223.28	1225.71	1189.71	1179.71	39.26			1186.45	
MW-12	8/20/2015	1223.28	1225.71	1189.71	1179.71	39.30			1186.41	
MW-12	9/23/2015	1223.28	1225.71	1189.71	1179.71	39.18			1186.53	
MW-12	10/22/2015	1223.28	1225.71	1189.71	1179.71	NC				
MW-12	11/12/2015	1223.28	1225.71	1189.71	1179.71	NC				
MW-12	12/8/2015	1223.28	1225.71	1189.71	1179.71	dry @ 7'				
MW-12	1/14/2016	1223.28	1225.71	1189.71	1179.71	NC				

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-13	7/25/2007	1222.71	1224.67	1189.17	1179.17	38.62			1186.05	
MW-13	8/2/2007	1222.71	1224.67	1189.17	1179.17	38.62			1186.05	
MW-13	8/9/2007	1222.71	1224.67	1189.17	1179.17	38.66			1186.01	
MW-13	10/17/2007	1222.71	1224.67	1189.17	1179.17	38.21			1186.46	
MW-13	11/9/2007	1222.71	1224.67	1189.17	1179.17	38.32			1186.35	
MW-13	12/3/2007	1222.71	1224.67	1189.17	1179.17	38.30			1186.37	
MW-13	1/14/2008	1222.71	1224.67	1189.17	1179.17	38.63			1186.04	
MW-13	2/19/2008	1222.71	1224.67	1189.17	1179.17	38.84			1185.83	
MW-13	03/11/2008	1222.71	1224.67	1189.17	1179.17	38.89			1185.78	
MW-13	03/19/2008	1222.71	1224.67	1189.17	1179.17	38.93			1185.74	
MW-13	03/24/2008	1222.71	1224.67	1189.17	1179.17	38.90			1185.77	
MW-13	04/01/2008	1222.71	1224.67	1189.17	1179.17	38.82			1185.85	
MW-13	06/10/2008	1222.71	1224.67	1189.17	1179.17	37.80			1186.87	
MW-13	08/28/2008	1222.71	1224.67	1189.17	1179.17	38.18			1186.49	
MW-13	12/03/2008	1222.71	1224.67	1189.17	1179.17	37.97			1186.70	
MW-13	03/25/2009	1222.71	1224.67	1189.17	1179.17	38.19			1186.48	
MW-13	06/24/2009	1222.71	1224.67	1189.17	1179.17	38.78			1185.89	
MW-13	9/15/2009	1222.71	1224.67	1189.17	1179.17	39.18			1185.49	
MW-13	12/7/2009	1222.71	1224.67	1189.17	1179.17	39.18			1185.49	
MW-13	3/29/2010	1222.71	1224.67	1189.17	1179.17	38.64			1186.03	
MW-13	6/24/2010	1222.71	1224.67	1189.17	1179.17	38.46			1186.21	
MW-13	9/27/2010	1222.71	1224.67	1189.17	1179.17	37.57			1187.10	
MW-13	12/28/2010	1222.71	1224.67	1189.17	1179.17	37.64			1187.03	
MW-13	3/24/2011	1222.71	1224.67	1189.17	1179.17	37.54			1187.13	
MW-13	6/23/2011	1222.71	1224.67	1189.17	1179.17	37.03			1187.64	
MW-13	10/11/2011	1222.71	1224.67	1189.17	1179.17	37.50			1187.17	
MW-13	12/19/2011	1222.71	1224.67	1189.17	1179.17	37.80			1186.87	
MW-13	3/26/2012	1222.71	1224.67	1189.17	1179.17	37.49			1187.18	
MW-13	6/19/2012	1222.71	1224.67	1189.17	1179.17	37.72			1186.95	
MW-13	9/25/2012	1222.71	1224.67	1189.17	1179.17	38.28			1186.39	
MW-13	12/17/2012	1222.71	1224.67	1189.17	1179.17	38.03			1186.64	
MW-13	3/25/2013	1222.71	1224.67	1189.17	1179.17	38.51			1186.16	
MW-13	6/19/2013	1222.71	1224.67	1189.17	1179.17	37.71			1186.96	
MW-13	9/12/2013	1222.71	1224.67	1189.17	1179.17	38.22			1186.45	
MW-13	12/17/2013	1222.71	1224.67	1189.17	1179.17	38.45			1186.22	
MW-13	3/25/2014	1222.71	1224.67	1189.17	1179.17	38.86			1185.81	
MW-13	6/9/2014	1222.71	1224.67	1189.17	1179.17	37.25			1187.42	
MW-13	9/17/2014	1222.71	1224.67	1189.17	1179.17	37.38			1187.29	
MW-13	12/8/2014	1222.71	1224.67	1189.17	1179.17	37.76			1186.91	
MW-13	4/29/2015	1222.71	1224.67	1189.17	1179.17	40.85			1183.82	
MW-13	6/10/2015	1222.71	1224.67	1189.17	1179.17	37.66			1187.01	
MW-13	9/23/2015	1222.71	1224.67	1189.17	1179.17	37.67			1187.00	
MW-13	12/8/2015	1222.71	1224.67	1189.17	1179.17	37.32			1187.35	
MW-14	7/25/2007	1222.93	1225.20	1189.70	1179.70	39.21			1185.99	
MW-14	8/2/2007	1222.93	1225.20	1189.70	1179.70	39.22			1185.98	
MW-14	8/9/2007	1222.93	1225.20	1189.70	1179.70	39.28			1185.92	
MW-14	10/17/2007	1222.93	1225.20	1189.70	1179.70	38.79			1186.41	
MW-14	11/9/2007	1222.93	1225.20	1189.70	1179.70	38.87			1186.33	
MW-14	12/3/2007	1222.93	1225.20	1189.70	1179.70	38.90			1186.30	
MW-14	1/14/2008	1222.93	1225.20	1189.70	1179.70	39.26			1185.94	
MW-14	2/19/2008	1222.93	1225.20	1189.70	1179.70	39.40			1185.80	
MW-14	03/11/2008	1222.93	1225.20	1189.70	1179.70	39.45			1185.75	
MW-14	03/19/2008	1222.93	1225.20	1189.70	1179.70	39.49			1185.71	
MW-14	03/24/2008	1222.93	1225.20	1189.70	1179.70	39.46			1185.74	
MW-14	04/01/2008	1222.93	1225.20	1189.70	1179.70	39.37			1185.83	
MW-14	06/10/2008	1222.93	1225.20	1189.70	1179.70	38.37			1186.83	
MW-14	08/28/2008	1222.93	1225.20	1189.70	1179.70	38.75			1186.45	
MW-14	12/03/2008	1222.93	1225.20	1189.70	1179.70	38.53			1186.67	
MW-14	03/25/2009	1222.93	1225.20	1189.70	1179.70	38.86			1186.34	
MW-14	06/24/2009	1222.93	1225.20	1189.70	1179.70	39.36			1185.84	
MW-14	9/15/2009	1222.93	1225.20	1189.70	1179.70	39.75			1185.45	
MW-14	12/7/2009	1222.93	1225.20	1189.70	1179.70	39.72			1185.48	
MW-14	3/29/2010	1222.93	1225.20	1189.70	1179.70	39.18			1186.02	
MW-14	6/24/2010	1222.93	1225.20	1189.70	1179.70	39.10			1186.10	
MW-14	9/27/2010	1222.93	1225.20	1189.70	1179.70	38.18			1187.02	
MW-14	12/28/2010	1222.93	1225.20	1189.70	1179.70	38.17			1187.03	
MW-14	3/24/2011	1222.93	1225.20	1189.70	1179.70	38.13			1187.07	
MW-14	6/23/2011	1222.93	1225.20	1189.70	1179.70	37.65			1187.55	
MW-14	10/11/2011	1222.93	1225.20	1189.70	1179.70	38.06			1187.14	
MW-14	12/19/2011	1222.93	1225.20	1189.70	1179.70	38.29			1186.91	
MW-14	3/26/2012	1222.93	1225.20	1189.70	1179.70	38.12			1187.08	
MW-14	6/19/2012	1222.93	1225.20	1189.70	1179.70	38.33			1186.87	
MW-14	9/25/2012	1222.93	1225.20	1189.70	1179.70	38.85			1186.35	
MW-14	12/17/2012	1222.93	1225.20	1189.70	1179.70	38.59			1186.61	
MW-14	3/25/2013	1222.93	1225.20	1189.70	1179.70	39.06			1186.14	
MW-14	6/19/2013	1222.93	1225.20	1189.70	1179.70	38.30			1186.90	
MW-14	9/12/2013	1222.93	1225.20	1189.70	1179.70	39.11			1186.09	
MW-14	12/17/2013	1222.93	1225.20	1189.70	1179.70	39.07			1186.13	
MW-14	3/25/2014	1222.93	1225.20	1189.70	1179.70	39.45			1185.75	
MW-14	6/9/2014	1222.93	1225.20	1189.70	1179.70	37.82			1187.38	
MW-14	9/17/2014	1222.93	1225.20	1189.70	1179.70	37.99			1187.21	
MW-14	12/8/2014	1222.93	1225.20	1189.70	1179.70	38.32			1186.88	
MW-14	4/29/2015	1222.93	1225.20	1189.70	1179.70	38.19			1187.01	
MW-14	6/10/2015	1222.93	1225.20	1189.70	1179.70	38.00			1187.20	
MW-14	9/23/2015	1222.93	1225.20	1189.70	1179.70	38.28			1186.92	
MW-14	12/8/2015	1222.93	1225.20	1189.70	1179.70	37.83			1187.37	
MW-15	10/17/2007	1220.34	1222.53	1188.03	1178.03	36.56			1185.97	
MW-15	11/9/2007	1220.34	1222.53	1188.03	1178.03	36.67			1185.86	
MW-15	12/3/2007	1220.34	1222.53	1188.03	1178.03	36.70			1185.83	
MW-15	1/14/2008	1220.34	1222.53	1188.03	1178.03	37.04			1185.49	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-15	2/19/2008	1220.34	1222.53	1188.03	1178.03	37.20			1185.33	
MW-15	03/11/2008	1220.34	1222.53	1188.03	1178.03	37.24			1185.29	
MW-15	03/19/2008	1220.34	1222.53	1188.03	1178.03	37.27			1185.26	
MW-15	03/24/2008	1220.34	1222.53	1188.03	1178.03	37.23			1185.30	
MW-15	04/01/2008	1220.34	1222.53	1188.03	1178.03	37.11			1185.42	
MW-15	05/03/2008	1220.34	1222.53	1188.03	1178.03	36.07			1186.46	
MW-15	06/10/2008	1220.34	1222.53	1188.03	1178.03	35.51			1187.02	
MW-15	08/28/2008	1220.34	1222.53	1188.03	1178.03	36.61			1185.92	
MW-15	12/03/2008	1220.34	1222.53	1188.03	1178.03	36.34			1186.19	
MW-15	03/25/2009	1220.34	1222.53	1188.03	1178.03	36.68			1185.85	
MW-15	03/31/2009	1220.34	1222.53	1188.03	1178.03	36.61			1185.92	
MW-15	04/08/2009	1220.34	1222.53	1188.03	1178.03	36.65			1185.88	
MW-15	04/13/2009	1220.34	1222.53	1188.03	1178.03	36.76			1185.77	
MW-15	05/12/2009	1220.34	1222.53	1188.03	1178.03	36.87			1185.66	
MW-15	05/19/2009	1220.34	1222.53	1188.03	1178.03	36.90			1185.63	
MW-15	6/3/2009	1220.34	1222.53	1188.03	1178.03	37.10			1185.43	
MW-15	6/10/2009	1220.34	1222.53	1188.03	1178.03	37.01			1185.52	
MW-15	6/16/2009	1220.34	1222.53	1188.03	1178.03	37.17			1185.36	
MW-15	6/24/2009	1220.34	1222.53	1188.03	1178.03	37.19			1185.34	
MW-15	6/30/2009	1220.34	1222.53	1188.03	1178.03	37.25			1185.28	
MW-15	7/8/2009	1220.34	1222.53	1188.03	1178.03	37.34			1185.19	
MW-15	7/20/2009	1220.34	1222.53	1188.03	1178.03	37.39			1185.14	
MW-15	8/4/2009	1220.34	1222.53	1188.03	1178.03	37.34			1185.19	
MW-15	8/18/2009	1220.34	1222.53	1188.03	1178.03	37.47			1185.06	
MW-15	9/1/2009	1220.34	1222.53	1188.03	1178.03	37.46			1185.07	
MW-15	9/15/2009	1220.34	1222.53	1188.03	1178.03	37.55			1184.98	
MW-15	9/29/2009	1220.34	1222.53	1188.03	1178.03	37.56			1184.97	
MW-15	10/28/2009	1220.34	1222.53	1188.03	1178.03	37.22			1185.31	
MW-15	11/11/2009	1220.34	1222.53	1188.03	1178.03	37.34			1185.19	
MW-15	12/1/2009	1220.34	1222.53	1188.03	1178.03	37.43			1185.10	
MW-15	12/7/2009	1220.34	1222.53	1188.03	1178.03	37.52			1185.01	
MW-15	12/22/2009	1220.34	1222.53	1188.03	1178.03	37.64			1184.89	
MW-15	1/5/2010	1220.34	1222.53	1188.03	1178.03	37.50			1185.03	
MW-15	1/19/2010	1220.34	1222.53	1188.03	1178.03	37.54			1184.99	
MW-15	2/3/2010	1220.34	1222.53	1188.03	1178.03	37.55			1184.98	
MW-15	2/16/2010	1220.34	1222.53	1188.03	1178.03	37.55			1184.98	
MW-15	3/3/2010	1220.34	1222.53	1188.03	1178.03	37.57			1184.96	
MW-15	3/16/2010	1220.34	1222.53	1188.03	1178.03	36.55			1185.98	
MW-15	3/29/2010	1220.34	1222.53	1188.03	1178.03	37.00			1185.53	
MW-15	4/13/2010	1220.34	1222.53	1188.03	1178.03	37.25			1185.28	
MW-15	4/27/2010	1220.34	1222.53	1188.03	1178.03	37.23			1185.30	
MW-15	5/12/2010	1220.34	1222.53	1188.03	1178.03	37.20			1185.33	
MW-15	5/26/2010	1220.34	1222.53	1188.03	1178.03	37.15			1185.38	
MW-15	6/8/2010	1220.34	1222.53	1188.03	1178.03	37.25			1185.28	
MW-15	6/24/2010	1220.34	1222.53	1188.03	1178.03	36.81			1185.72	
MW-15	7/7/2010	1220.34	1222.53	1188.03	1178.03	36.85			1185.68	
MW-15	7/20/2010	1220.34	1222.53	1188.03	1178.03	36.63			1185.90	
MW-15	8/3/2010	1220.34	1222.53	1188.03	1178.03	36.70			1185.83	
MW-15	8/16/2010	1220.34	1222.53	1188.03	1178.03	36.21			1186.32	
MW-15	8/31/2010	1220.34	1222.53	1188.03	1178.03	36.61			1185.92	
MW-15	9/14/2010	1220.34	1222.53	1188.03	1178.03	36.63			1185.90	
MW-15	9/27/2010	1220.34	1222.53	1188.03	1178.03	35.94			1186.59	
MW-15	10/12/2010	1220.34	1222.53	1188.03	1178.03	36.33			1186.20	
MW-15	10/25/2010	1220.34	1222.53	1188.03	1178.03	36.25			1186.28	
MW-15	11/19/2010	1220.34	1222.53	1188.03	1178.03	36.03			1186.50	
MW-15	11/30/2010	1220.34	1222.53	1188.03	1178.03	36.02			1186.51	
MW-15	12/16/2010	1220.34	1222.53	1188.03	1178.03	36.12			1186.41	
MW-15	12/28/2010	1220.34	1222.53	1188.03	1178.03	36.16			1186.37	
MW-15	1/25/2011	1220.34	1222.53	1188.03	1178.03	36.28			1186.25	
MW-15	2/8/2011	1220.34	1222.53	1188.03	1178.03	36.35			1186.18	
MW-15	2/21/2011	1220.34	1222.53	1188.03	1178.03	36.37			1186.16	
MW-15	3/8/2011	1220.34	1222.53	1188.03	1178.03	36.45			1186.08	
MW-15	3/24/2011	1220.34	1222.53	1188.03	1178.03	35.95			1186.58	
MW-15	4/4/2011	1220.34	1222.53	1188.03	1178.03	36.01			1186.52	
MW-15	4/26/2011	1220.34	1222.53	1188.03	1178.03	35.72			1186.81	
MW-15	5/10/2011	1220.34	1222.53	1188.03	1178.03	35.69			1186.84	
MW-15	5/23/2011	1220.34	1222.53	1188.03	1178.03	35.51			1187.02	
MW-15	6/7/2011	1220.34	1222.53	1188.03	1178.03	35.65			1186.88	
MW-15	6/23/2011	1220.34	1222.53	1188.03	1178.03	35.53			1187.00	
MW-15	7/7/2011	1220.34	1222.53	1188.03	1178.03	35.83			1186.70	
MW-15	7/28/2011	1220.34	1222.53	1188.03	1178.03	35.92			1186.61	
MW-15	8/15/2011	1220.34	1222.53	1188.03	1178.03	35.77			1186.76	
MW-15	9/1/2011	1220.34	1222.53	1188.03	1178.03	35.84			1186.69	
MW-15	9/13/2011	1220.34	1222.53	1188.03	1178.03	36.03			1186.50	
MW-15	9/27/2011	1220.34	1222.53	1188.03	1178.03	36.06			1186.47	
MW-15	10/11/2011	1220.34	1222.53	1188.03	1178.03	36.00			1186.53	
MW-15	12/19/2011	1220.34	1222.53	1188.03	1178.03	36.18			1186.35	
MW-15	1/10/2012	1220.34	1222.53	1188.03	1178.03	36.25			1186.28	
MW-15	1/24/2012	1220.34	1222.53	1188.03	1178.03	36.39			1186.14	
MW-15	2/6/2012	1220.34	1222.53	1188.03	1178.03	36.45			1186.08	
MW-15	2/20/2012	1220.34	1222.53	1188.03	1178.03	36.58			1185.95	
MW-15	3/6/2012	1220.34	1222.53	1188.03	1178.03	36.59			1185.94	
MW-15	3/26/2012	1220.34	1222.53	1188.03	1178.03	35.97			1186.56	
MW-15	4/10/2012	1220.34	1222.53	1188.03	1178.03	36.30			1186.23	
MW-15	4/23/2012	1220.34	1222.53	1188.03	1178.03	36.09			1186.44	
MW-15	5/7/2012	1220.34	1222.53	1188.03	1178.03	36.02			1186.51	
MW-15	5/22/2012	1220.34	1222.53	1188.03	1178.03	36.32			1186.21	
MW-15	6/5/2012	1220.34	1222.53	1188.03	1178.03	36.26			1186.27	
MW-15	6/19/2012	1220.34	1222.53	1188.03	1178.03	36.17			1186.36	
MW-15	7/18/2012	1220.34	1222.53	1188.03	1178.03	36.50			1186.03	
MW-15	7/30/2012	1220.34	1222.53	1188.03	1178.03	36.48			1186.05	
MW-15	8/12/2012	1220.34	1222.53	1188.03	1178.03	36.62			1185.91	
MW-15	8/29/2012	1220.34	1222.53	1188.03	1178.03	36.72			1185.81	
MW-15	9/12/2012	1220.34	1222.53	1188.03	1178.03	36.73			1185.80	
MW-15	9/25/2012	1220.34	1222.53	1188.03	1178.03	36.72			1185.81	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-15	10/16/2012	1220.34	1222.53	1188.03	1178.03	36.50			1186.03	
MW-15	10/30/2012	1220.34	1222.53	1188.03	1178.03	36.39			1186.14	
MW-15	11/12/2012	1220.34	1222.53	1188.03	1178.03	36.40			1186.13	
MW-15	12/4/2012	1220.34	1222.53	1188.03	1178.03	36.45			1186.08	
MW-15	12/17/2012	1220.34	1222.53	1188.03	1178.03	36.42			1186.11	
MW-15	1/2/2013	1220.34	1222.53	1188.03	1178.03	36.59			1185.94	
MW-15	1/15/2013	1220.34	1222.53	1188.03	1178.03	36.65			1185.88	
MW-15	1/29/2013	1220.34	1222.53	1188.03	1178.03	36.73			1185.80	
MW-15	2/12/2013	1220.34	1222.53	1188.03	1178.03	36.79			1185.74	
MW-15	2/25/2013	1220.34	1222.53	1188.03	1178.03	36.85			1185.68	
MW-15	3/12/2013	1220.34	1222.53	1188.03	1178.03	36.90			1185.63	
MW-15	3/25/2013	1220.34	1222.53	1188.03	1178.03	36.90			1185.63	
MW-15	4/9/2013	1220.34	1222.53	1188.03	1178.03	36.34			1186.19	
MW-15	4/22/2013	1220.34	1222.53	1188.03	1178.03	36.09			1186.44	
MW-15	5/9/2013	1220.34	1222.53	1188.03	1178.03	35.48			1187.05	
MW-15	6/19/2013	1220.34	1222.53	1188.03	1178.03	36.25			1186.28	
MW-15	7/17/2013	1220.34	1222.53	1188.03	1178.03	36.54			1185.99	
MW-15	8/13/2013	1220.34	1222.53	1188.03	1178.03	37.20			1185.33	
MW-15	9/12/2013	1220.34	1222.53	1188.03	1178.03	37.00			1185.53	
MW-15	10/31/2013	1220.34	1222.53	1188.03	1178.03	36.80			1185.73	
MW-15	11/13/2013	1220.34	1222.53	1188.03	1178.03	36.80			1185.73	
MW-15	12/17/2013	1220.34	1222.53	1188.03	1178.03	36.90			1185.63	
MW-15	1/21/2014	1220.34	1222.53	1188.03	1178.03	37.06			1185.47	
MW-15	2/18/2014	1220.34	1222.53	1188.03	1178.03	37.19			1185.34	
MW-15	3/25/2014	1220.34	1222.53	1188.03	1178.03	37.28			1185.25	
MW-15	4/16/2014	1220.34	1222.53	1188.03	1178.03	36.03			1186.50	
MW-15	6/9/2014	1220.34	1222.53	1188.03	1178.03	35.70			1186.83	
MW-15	7/17/2014	1220.34	1222.53	1188.03	1178.03	36.09			1186.44	
MW-15	8/19/2014	1220.34	1222.53	1188.03	1178.03	36.19			1186.34	
MW-15	9/17/2014	1220.34	1222.53	1188.03	1178.03	35.88			1186.65	
MW-15	10/14/2014	1220.34	1222.53	1188.03	1178.03	36.06			1186.47	
MW-15	11/13/2014	1220.34	1222.53	1188.03	1178.03	36.05			1186.48	
MW-15	12/8/2014	1220.34	1222.53	1188.03	1178.03	36.18			1186.35	
MW-15	1/13/2015	1220.34	1222.53	1188.03	1178.03	36.16			1186.37	
MW-15	2/24/2015	1220.34	1222.53	1188.03	1178.03	36.52			1186.01	
MW-15	4/29/2015	1220.34	1222.53	1188.03	1178.03	36.07			1186.46	
MW-15	6/10/2015	1220.34	1222.53	1188.03	1178.03	35.86			1186.67	
MW-15	7/13/2015	1220.34	1222.53	1188.03	1178.03	35.99			1186.54	
MW-15	7/30/2015	1220.34	1222.53	1188.03	1178.03	36.24			1186.29	
MW-15	8/20/2015	1220.34	1222.53	1188.03	1178.03	36.15			1186.38	
MW-15	9/23/2015	1220.34	1222.53	1188.03	1178.03	36.18			1186.35	
MW-15	10/22/2015	1220.34	1222.53	1188.03	1178.03	36.43			1186.10	
MW-15	11/12/2015	1220.34	1222.53	1188.03	1178.03	35.71			1186.82	
MW-15	12/8/2015	1220.34	1222.53	1188.03	1178.03	35.81			1186.72	
MW-15	1/14/2016	1220.34	1222.53	1188.03	1178.03	35.95			1186.58	
MW-15D	03/24/2008	1221.20	1223.46	1155.96	1150.96	39.00			1184.46	
MW-15D	04/01/2008	1221.20	1223.46	1155.96	1150.96	38.81			1184.65	
MW-15D	06/10/2008	1221.20	1223.46	1155.96	1150.96	37.39			1186.07	
MW-15D	08/28/2008	1221.20	1223.46	1155.96	1150.96	38.40			1185.06	
MW-15D	12/03/2008	1221.20	1223.46	1155.96	1150.96	38.00			1185.46	
MW-15D	03/25/2009	1221.20	1223.46	1155.96	1150.96	38.22			1185.24	
MW-15D	06/24/2009	1221.20	1223.46	1155.96	1150.96	38.91			1184.55	
MW-15D	9/15/2009	1221.20	1223.46	1155.96	1150.96	39.27			1184.19	
MW-15D	12/7/2009	1221.20	1223.46	1155.96	1150.96	39.20			1184.26	
MW-15D	3/29/2010	1221.20	1223.46	1155.96	1150.96	38.66			1184.80	
MW-15D	6/24/2010	1221.20	1223.46	1155.96	1150.96	38.40			1185.06	
MW-15D	9/27/2010	1221.20	1223.46	1155.96	1150.96	37.78			1185.68	
MW-15D	12/28/2010	1221.20	1223.46	1155.96	1150.96	38.06			1185.40	
MW-15D	3/24/2011	1221.20	1223.46	1155.96	1150.96	37.93			1185.53	
MW-15D	6/23/2011	1221.20	1223.46	1155.96	1150.96	37.44			1186.02	
MW-15D	10/11/2011	1221.20	1223.46	1155.96	1150.96	37.89			1185.57	
MW-15D	12/19/2011	1221.20	1223.46	1155.96	1150.96	38.02			1185.44	
MW-15D	3/26/2012	1221.20	1223.46	1155.96	1150.96	37.79			1185.67	
MW-15D	6/19/2012	1221.20	1223.46	1155.96	1150.96	37.97			1185.49	
MW-15D	9/25/2012	1221.20	1223.46	1155.96	1150.96	38.55			1184.91	
MW-15D	12/17/2012	1221.20	1223.46	1155.96	1150.96	38.19			1185.27	
MW-15D	3/25/2013	1221.20	1223.46	1155.96	1150.96	38.65			1184.81	
MW-15D	6/19/2013	1221.20	1223.46	1155.96	1150.96	36.30			1187.16	
MW-15D	9/12/2013	1221.20	1223.46	1155.96	1150.96	38.85			1184.61	
MW-15D	12/17/2013	1221.20	1223.46	1155.96	1150.96	38.70			1184.76	
MW-15D	3/25/2014	1221.20	1223.46	1155.96	1150.96	39.08			1184.38	
MW-15D	6/9/2014	1221.20	1223.46	1155.96	1150.96	37.56			1185.90	
MW-15D	9/17/2014	1221.20	1223.46	1155.96	1150.96	36.80			1186.66	
MW-15D	12/8/2014	1221.20	1223.46	1155.96	1150.96	38.05			1185.41	
MW-15D	4/29/2015	1221.20	1223.46	1155.96	1150.96	37.91			1185.55	
MW-15D	6/10/2015	1221.20	1223.46	1155.96	1150.96	37.69			1185.77	
MW-15D	9/23/2015	1221.20	1223.46	1155.96	1150.96	38.01			1185.45	
MW-15D	12/8/2015	1221.20	1223.46	1155.96	1150.96	37.72			1185.74	
MW-16	10/17/2007	1221.69	1223.42	1188.92	1178.92	37.21			1186.21	
MW-16	11/9/2007	1221.69	1223.42	1188.92	1178.92	37.30			1186.12	
MW-16	12/3/2007	1221.69	1223.42	1188.92	1178.92	37.33			1186.09	
MW-16	1/14/2008	1221.69	1223.42	1188.92	1178.92	37.69			1185.73	
MW-16	2/19/2008	1221.69	1223.42	1188.92	1178.92	37.84			1185.58	
MW-16	03/11/2008	1221.69	1223.42	1188.92	1178.92	37.90			1185.52	
MW-16	03/19/2008	1221.69	1223.42	1188.92	1178.92	37.92			1185.50	
MW-16	03/24/2008	1221.69	1223.42	1188.92	1178.92	37.84			1185.58	
MW-16	04/01/2008	1221.69	1223.42	1188.92	1178.92	37.78			1185.64	
MW-16	05/03/2008	1221.69	1223.42	1188.92	1178.92	36.74			1186.68	
MW-16	06/10/2008	1221.69	1223.42	1188.92	1178.92	36.90			1186.52	
MW-16	08/28/2008	1221.69	1223.42	1188.92	1178.92	37.20			1186.22	
MW-16	12/03/2008	1221.69	1223.42	1188.92	1178.92	37.00			1186.42	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-16	03/25/2009	1221.69	1223.42	1188.92	1178.92	37.11			1186.31	
MW-16	06/24/2009	1221.69	1223.42	1188.92	1178.92	37.81			1185.61	
MW-16	9/15/2009	1221.69	1223.42	1188.92	1178.92	38.18			1185.24	
MW-16	12/7/2009	1221.69	1223.42	1188.92	1178.92	38.15			1185.27	
MW-16	3/30/2010	1221.69	1223.42	1188.92	1178.92	37.62			1185.80	
MW-16	6/24/2010	1221.69	1223.42	1188.92	1178.92	37.47			1185.95	
MW-16	9/27/2010	1221.69	1223.42	1188.92	1178.92	36.59			1186.83	
MW-16	12/28/2010	1221.69	1223.42	1188.92	1178.92	36.69			1186.73	
MW-16	3/24/2011	1221.69	1223.42	1188.92	1178.92	36.58			1186.84	
MW-16	6/23/2011	1221.69	1223.42	1188.92	1178.92	36.09			1187.33	
MW-16	9/1/2011	1221.69	1223.42	1188.92	1178.92	36.41			1187.01	
MW-16	9/13/2011	1221.69	1223.42	1188.92	1178.92	36.58			1186.84	
MW-16	9/27/2011	1221.69	1223.42	1188.92	1178.92	36.60			1186.82	
MW-16	10/11/2011	1221.69	1223.42	1188.92	1178.92	36.56			1186.86	
MW-16	12/19/2011	1221.69	1223.42	1188.92	1178.92	36.79			1186.63	
MW-16	3/26/2012	1221.69	1223.42	1188.92	1178.92	36.59			1186.83	
MW-16	6/19/2012	1221.69	1223.42	1188.92	1178.92	36.80			1186.62	
MW-16	9/25/2012	1221.69	1223.42	1188.92	1178.92	37.32			1186.10	
MW-16	12/17/2012	1221.69	1223.42	1188.92	1178.92	37.04			1186.38	
MW-16	3/25/2013	1221.69	1223.42	1188.92	1178.92	37.51			1185.91	
MW-16	6/19/2013	1221.69	1223.42	1188.92	1178.92	37.76			1185.66	
MW-16	9/12/2013	1221.69	1223.42	1188.92	1178.92	37.58			1185.84	
MW-16	12/17/2013	1221.69	1223.42	1188.92	1178.92	37.50			1185.92	
MW-16	3/25/2014	1221.69	1223.42	1188.92	1178.92	37.89			1185.53	
MW-16	6/9/2014	1221.69	1223.42	1188.92	1178.92	36.30			1187.12	
MW-16	9/17/2014	1221.69	1223.42	1188.92	1178.92	36.45			1186.97	
MW-16	12/8/2014	1221.69	1223.42	1188.92	1178.92	36.82			1186.60	
MW-16	4/29/2015	1221.69	1223.42	1188.92	1178.92	36.68			1186.74	
MW-16	6/10/2015	1221.69	1223.42	1188.92	1178.92	36.45			1186.97	
MW-16	9/23/2015	1221.69	1223.42	1188.92	1178.92	36.72			1186.70	
MW-16	12/8/2015	1221.69	1223.42	1188.92	1178.92	36.35			1187.07	
MW-17	10/17/2007	1188.77	1190.88	1182.38	1172.38	5.66			1185.22	
MW-17	11/9/2007	1188.77	1190.88	1182.38	1172.38	5.99			1184.89	
MW-17	12/3/2007	1188.77	1190.88	1182.38	1172.38	6.20			1184.68	
MW-17	1/14/2008	1188.77	1190.88	1182.38	1172.38	6.48			1184.40	
MW-17	2/19/2008	1188.77	1190.88	1182.38	1172.38	6.45			1184.43	
MW-17	03/11/2008	1188.77	1190.88	1182.38	1172.38	6.46			1184.42	
MW-17	03/19/2008	1188.77	1190.88	1182.38	1172.38	6.38			1184.50	
MW-17	03/24/2008	1188.77	1190.88	1182.38	1172.38	6.33			1184.55	
MW-17	04/01/2008	1188.77	1190.88	1182.38	1172.38	5.56			1185.32	
MW-17	04/08/2008	1188.77	1190.88	1182.38	1172.38	1.40			1189.48	
MW-17	11/19/2008	1188.77	1190.88	1182.38	1172.38	6.45			1184.43	
MW-17	12/03/2008	1188.77	1190.88	1182.38	1172.38	6.26			1184.62	
MW-17	03/25/2009	1188.77	1190.88	1182.38	1172.38	5.23			1185.65	
MW-17	06/24/2009	1188.77	1190.88	1182.38	1172.38	6.41			1184.47	
MW-17	9/15/2009	1188.77	1190.88	1182.38	1172.38	6.65			1184.23	
MW-17	12/7/2009	1188.77	1190.88	1182.38	1172.38	6.58			1184.30	
MW-17	3/30/2010	1188.77	1190.88	1182.38	1172.38	6.11			1184.77	
MW-17	6/24/2010	1188.77	1190.88	1182.38	1172.38	5.57			1185.31	
MW-17	9/27/2010	1188.77	1190.88	1182.38	1172.38	4.98			1185.90	
MW-17	12/28/2010	1188.77	1190.88	1182.38	1172.38	5.69			1185.19	
MW-17	3/24/2011	1188.77	1190.88	1182.38	1172.38	4.40			1186.48	
MW-17	6/23/2011	1188.77	1190.88	1182.38	1172.38	4.69			1186.19	
MW-17	9/1/2011	1188.77	1190.88	1182.38	1172.38	5.60			1185.28	
MW-17	9/13/2011	1188.77	1190.88	1182.38	1172.38	5.81			1185.07	
MW-17	9/27/2011	1188.77	1190.88	1182.38	1172.38	5.78			1185.10	
MW-17	10/11/2011	1188.77	1190.88	1182.38	1172.38	5.73			1185.15	
MW-17	12/19/2011	1188.77	1190.88	1182.38	1172.38	5.73			1185.15	
MW-17	3/26/2012	1188.77	1190.88	1182.38	1172.38	4.78			1186.10	
MW-17	6/19/2012	1188.77	1190.88	1182.38	1172.38	5.78			1185.10	
MW-17	9/25/2012	1188.77	1190.88	1182.38	1172.38	6.22			1184.66	
MW-17	12/17/2012	1188.77	1190.88	1182.38	1172.38	5.88			1185.00	
MW-17	3/25/2013	1188.77	1190.88	1182.38	1172.38	6.23			1184.65	
MW-17	6/19/2013	1188.77	1190.88	1182.38	1172.38	5.79			1185.09	
MW-17	9/12/2013	1188.77	1190.88	1182.38	1172.38	6.43			1184.45	
MW-17	12/17/2013	1188.77	1190.88	1182.38	1172.38	6.20			1184.68	
MW-17	3/25/2014	1188.77	1190.88	1182.38	1172.38	6.59			1184.29	
MW-17	6/9/2014	1188.77	1190.88	1182.38	1172.38	4.90			1185.98	
MW-17	9/17/2014	1188.77	1190.88	1182.38	1172.38	5.38			1185.50	
MW-17	12/8/2014	1188.77	1190.88	1182.38	1172.38	5.55			1185.33	
MW-17	4/29/2015	1188.77	1190.88	1182.38	1172.38	5.41			1185.47	
MW-17	6/10/2015	1188.77	1190.88	1182.38	1172.38	5.14			1185.74	
MW-17	9/23/2015	1188.77	1190.88	1182.38	1172.38	5.50			1185.38	
MW-17	12/8/2015	1188.77	1190.88	1182.38	1172.38	5.51			1185.37	
MW-18	11/1/2007	1225.12	1227.18	1192.18	1182.18	40.66			1186.52	
MW-18	11/9/2007	1225.12	1227.18	1192.18	1182.18	40.71			1186.47	
MW-18	12/3/2007	1225.12	1227.18	1192.18	1182.18	40.74			1186.44	
MW-18	1/14/2008	1225.12	1227.18	1192.18	1182.18	41.08			1186.10	
MW-18	2/19/2008	1225.12	1227.18	1192.18	1182.18	41.25			1185.93	
MW-18	03/19/2008	1225.12	1227.18	1192.18	1182.18	41.33			1185.85	
MW-18	03/24/2008	1225.12	1227.18	1192.18	1182.18	41.29			1185.89	
MW-18	04/01/2008	1225.12	1227.18	1192.18	1182.18	41.20			1185.98	
MW-18	06/10/2008	1225.12	1227.18	1192.18	1182.18	40.19			1186.99	
MW-18	08/28/2008	1225.12	1227.18	1192.18	1182.18	40.55			1186.63	
MW-18	12/03/2008	1225.12	1227.18	1192.18	1182.18	40.45			1186.73	
MW-18	03/25/2009	1225.12	1227.18	1192.18	1182.18	40.62			1186.56	
MW-18	06/24/2009	1225.12	1227.18	1192.18	1182.18	41.17			1186.01	
MW-18	9/15/2009	1225.12	1227.18	1192.18	1182.18	41.55			1185.63	
MW-18	12/7/2009	1225.12	1227.18	1192.18	1182.18	41.58			1185.60	
MW-18	3/29/2010	1225.12	1227.18	1192.18	1182.18	41.00			1186.18	
MW-18	6/24/2010	1225.12	1227.18	1192.18	1182.18	40.84			1186.34	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-18	9/27/2010	1225.12	1227.18	1192.18	1182.18	39.90			1187.28	
MW-18	12/28/2010	1225.12	1227.18	1192.18	1182.18	40.00			1187.18	
MW-18	3/24/2011	1225.12	1227.18	1192.18	1182.18	39.72			1187.46	
MW-18	6/23/2011	1225.12	1227.18	1192.18	1182.18	39.15			1188.03	
MW-18	10/11/2011	1225.12	1227.18	1192.18	1182.18	39.86			1187.32	
MW-18	12/19/2011	1225.12	1227.18	1192.18	1182.18	40.34			1186.84	
MW-18	3/26/2012	1225.12	1227.18	1192.18	1182.18	39.06			1188.12	
MW-18	6/19/2012	1225.12	1227.18	1192.18	1182.18	39.72			1187.46	
MW-18	9/25/2012	1225.12	1227.18	1192.18	1182.18	40.57			1186.61	
MW-18	12/17/2012	1225.12	1227.18	1192.18	1182.18	40.42			1186.76	
MW-18	3/25/2013	1225.12	1227.18	1192.18	1182.18	Dry/Shifted				
MW-18	6/19/2013	1225.12	1227.18	1192.18	1182.18					
MW-18	9/12/2013	1225.12	1227.18	1192.18	1182.18	Dry at 38.50				
MW-18	12/17/2013	1225.12	1227.18	1192.18	1182.18	Dry at 38.70				
RW-1	6/12/2007	1224.98	1227.25	1190.25	1170.25	40.32			1186.93	
RW-1	6/21/2007	1224.98	1227.25	1190.25	1170.25	40.41			1186.84	
RW-1	7/2/2007	1224.98	1227.25	1190.25	1170.25	40.55			1186.70	
RW-1	7/11/2007	1224.98	1227.25	1190.25	1170.25	40.54			1186.71	
RW-1	7/24/2007	1224.98	1227.25	1190.25	1170.25	40.62			1186.63	
RW-1	8/2/2007	1224.98	1227.25	1190.25	1170.25	40.64			1186.61	
RW-1	8/9/2007	1224.98	1227.25	1190.25	1170.25	40.65	40.64	0.01	1186.60	1186.61
RW-1	10/17/2007	1224.98	1227.25	1190.25	1170.25	40.16			1187.09	
RW-1	11/9/2007	1224.98	1227.25	1190.25	1170.25	40.27			1186.98	
RW-1	12/3/2007	1224.98	1227.25	1190.25	1170.25	40.30			1186.95	
RW-1	02/19/2008	1224.98	1227.25	1190.25	1170.25	41.03			1186.22	
RW-1	03/25/2009	1224.98	1227.25	1190.25	1170.25	40.05			1187.20	
RW-1	12/07/2009	1224.98	1227.25	1190.25	1170.25	41.32	41.30	0.02	1185.93	1185.95
RW-1	03/29/2010	1224.98	1227.25	1190.25	1170.25	41.50	40.85	0.65	1185.75	1186.40
RW-1	06/24/2010	1224.98	1227.25	1190.25	1170.25	40.95	40.65	0.30	1186.30	1186.60
RW-1	09/27/2010	1224.98	1227.25	1190.25	1170.25	39.82			1187.43	
RW-1	12/28/2010	1224.98	1227.25	1190.25	1170.25	39.70	39.65	0.05	1187.55	1187.60
RW-1	03/24/2011	1224.98	1227.25	1190.25	1170.25	38.90	38.60	0.30	1188.35	1188.65
RW-1	06/23/2011	1224.98	1227.25	1190.25	1170.25	39.15			1188.10	
RW-1	09/01/2011	1224.98	1227.25	1190.25	1170.25	39.39			1187.86	
RW-1	09/13/2011	1224.98	1227.25	1190.25	1170.25	39.52			1187.73	
RW-1	09/27/2011	1224.98	1227.25	1190.25	1170.25	39.58			1187.67	
RW-1	10/11/2011	1224.98	1227.25	1190.25	1170.25	39.57			1187.68	
RW-1	10/24/2011	1224.98	1227.25	1190.25	1170.25	39.58			1187.67	
RW-1	11/07/2011	1224.98	1227.25	1190.25	1170.25	39.63			1187.62	
RW-1	12/19/2011	1224.98	1227.25	1190.25	1170.25	39.72			1187.53	
RW-1	03/26/2012	1224.98	1227.25	1190.25	1170.25	39.58			1187.67	
RW-1	06/19/2012	1224.98	1227.25	1190.25	1170.25	39.86			1187.39	
RW-1	09/25/2012	1224.98	1227.25	1190.25	1170.25	40.38			1186.87	
RW-1	12/17/2012	1224.98	1227.25	1190.25	1170.25	40.20			1187.05	
RW-1	03/25/2013	1224.98	1227.25	1190.25	1170.25	40.65			1186.60	
RW-1	06/19/2013	1224.98	1227.25	1190.25	1170.25	39.84			1187.41	
RW-1	07/17/2013	1224.98	1227.25	1190.25	1170.25	40.13			1187.12	
RW-1	08/13/2013	1224.98	1227.25	1190.25	1170.25	40.41			1186.84	
RW-1	09/12/2013	1224.98	1227.25	1190.25	1170.25	40.65			1186.60	
RW-1	10/31/2013	1224.98	1227.25	1190.25	1170.25	40.55	40.55	Trace	1186.70	1186.70
RW-1	11/13/2013	1224.98	1227.25	1190.25	1170.25	40.55	40.55	Trace	1186.70	1186.70
RW-1	12/17/2013	1224.98	1227.25	1190.25	1170.25	Dry at 39.30				
RW-1	03/25/2014	1224.98	1227.25	1190.25	1170.25	Dry				
RW-1	06/09/2014	1224.98	1227.25	1190.25	1170.25	39.28			1187.97	
RW-1	09/17/2014	1224.98	1227.25	1190.25	1170.25	39.40			1187.85	
RW-1	12/08/2014	1224.98	1227.25	1190.25	1170.25	39.74			1187.51	
RW-1	06/10/2015	1224.98	1227.25	1190.25	1170.25	39.48			1187.77	
RW-1	07/30/2015	1224.98	1227.25	1190.25	1170.25	39.80		trace	1187.45	1187.45
RW-1	08/20/2015	1224.98	1227.25	1190.25	1170.25	39.34	39.29	0.05	1187.91	1187.96
RW-1	09/23/2015	1224.98	1227.25	1190.25	1170.25	39.80		trace	1187.45	1187.45
RW-1	10/22/2015	1224.98	1227.25	1190.25	1170.25	40.00	40.00	trace	1187.25	1187.25
RW-1	11/12/2015	1224.98	1227.25	1190.25	1170.25	39.19			1188.06	
RW-1	12/08/2015	1224.98	1227.25	1190.25	1170.25	39.36		trace	1187.89	1187.89
RW-1	01/14/2016	1224.98	1227.25	1190.25	1170.25	39.40			1187.85	
RW-1	01/14/2016	1224.98	1227.25	1190.25	1170.25	39.40		trace	1187.85	187.85
RW-2	6/12/2007	1224.63	1226.66	1190.31	1170.31	40.09			1186.57	
RW-2	6/21/2007	1224.63	1226.66	1190.31	1170.31	40.17		0.00	1186.49	
RW-2	6/21/2007	1224.63	1226.66	1190.31	1170.31	40.15	40.14	0.01	1186.51	1186.52
RW-2	7/2/2007	1224.63	1226.66	1190.31	1170.31	40.35	40.28	0.07	1186.31	1186.38
RW-2	7/11/2007	1224.63	1226.66	1190.31	1170.31	40.34	40.29	0.05	1186.32	1186.37
RW-2	7/24/2007	1224.63	1226.66	1190.31	1170.31	40.35	40.33	0.02	1186.31	1186.33
RW-2	8/2/2007	1224.63	1226.66	1190.31	1170.31	40.37	40.36	0.01	1186.29	1186.30
RW-2	8/2/2007	1224.63	1226.66	1190.31	1170.31	40.39	40.35	0.04	1186.27	1186.31
RW-2	8/9/2007	1224.63	1226.66	1190.31	1170.31	40.45	40.38	0.07	1186.21	1186.28
RW-2	10/17/2007	1224.63	1226.66	1190.31	1170.31	39.91	39.89	0.02	1186.75	1186.77
RW-2	11/9/2007	1224.63	1226.66	1190.31	1170.31	40.01			1186.65	
RW-2	12/3/2007	1224.63	1226.66	1190.31	1170.31	40.06	40.03	0.03	1186.60	1186.63
RW-2	1/14/2008	1224.63	1226.66	1190.31	1170.31	40.42	40.36	0.06	1186.24	1186.30
RW-2	2/19/2008	1224.63	1226.66	1190.31	1170.31	40.57	40.51	0.06	1186.09	1186.15
RW-2	03/19/2008	1224.63	1226.66	1190.31	1170.31	40.68	40.65	0.03	1185.98	1186.01
RW-2	04/01/2008	1224.63	1226.66	1190.31	1170.31	40.55	40.49	0.06	1186.11	1186.17
RW-2	04/08/2008	1224.63	1226.66	1190.31	1170.31	40.03	40.03	0.00	1186.63	1186.63
RW-2	04/23/2008	1224.63	1226.66	1190.31	1170.31	39.60	39.58	0.02	1187.06	1187.08
RW-2	05/03/2008	1224.63	1226.66	1190.31	1170.31	39.47	39.47	0.00	1187.19	1187.19
RW-2	06/10/2008	1224.63	1226.66	1190.31	1170.31	39.49			1187.17	
RW-2	07/22/2008	1224.63	1226.66	1190.31	1170.31	39.66	39.66	0.00	1187.00	1187.00
RW-2	07/30/2008	1224.63	1226.66	1190.31	1170.31	39.59	39.59	0.00	1187.07	1187.07
RW-2	08/05/2008	1224.63	1226.66	1190.31	1170.31	39.69	39.69	0.00	1186.97	1186.97
RW-2	08/12/2008	1224.63	1226.66	1190.31	1170.31	39.65	39.65	0.00	1187.01	1187.01
RW-2	08/19/2008	1224.63	1226.66	1190.31	1170.31	39.71	39.71	0.00	1186.95	1186.95
RW-2	08/27/2008	1224.63	1226.66	1190.31	1170.31	39.71	39.71	0.00	1186.95	1186.95

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
RW-2	08/28/2008	1224.63	1226.66	1190.31	1170.31	39.93	39.92	0.01	1186.73	1186.74
RW-2	09/09/2008	1224.63	1226.66	1190.31	1170.31	39.83	39.82	0.01	1186.83	1186.84
RW-2	09/16/2008	1224.63	1226.66	1190.31	1170.31	39.80	39.80	0.00	1186.86	1186.86
RW-2	09/24/2008	1224.63	1226.66	1190.31	1170.31	39.85	39.85	0.00	1186.81	1186.81
RW-2	09/30/2008	1224.63	1226.66	1190.31	1170.31	39.76	39.76	0.00	1186.90	1186.90
RW-2	10/06/2008	1224.63	1226.66	1190.31	1170.31	39.70	39.70	0.00	1186.96	1186.96
RW-2	10/14/2008	1224.63	1226.66	1190.31	1170.31	39.68	39.68	0.00	1186.98	1186.98
RW-2	10/21/2008	1224.63	1226.66	1190.31	1170.31	39.61	39.61	0.00	1187.05	1187.05
RW-2	11/04/2008	1224.63	1226.66	1190.31	1170.31	39.49	39.49	0.00	1187.17	1187.17
RW-2	11/11/2008	1224.63	1226.66	1190.31	1170.31	39.47	39.47	0.00	1187.19	1187.19
RW-2	11/19/2008	1224.63	1226.66	1190.31	1170.31	39.52	39.52	0.00	1187.14	1187.14
RW-2	12/03/2008	1224.63	1226.66	1190.31	1170.31	39.55	39.55	0.00	1187.11	1187.11
RW-2	01/02/2009	1224.63	1226.66	1190.31	1170.31	39.88	39.88	0.00	1186.78	1186.78
RW-2	02/04/2009	1224.63	1226.66	1190.31	1170.31	39.92			1186.74	
RW-2	02/10/2009	1224.63	1226.66	1190.31	1170.31	39.98			1186.68	
RW-2	02/17/2009	1224.63	1226.66	1190.31	1170.31	39.96	39.95	0.01	1186.70	1186.71
RW-2	02/27/2009	1224.63	1226.66	1190.31	1170.31	39.95	39.93	0.02	1186.71	1186.73
RW-2	03/04/2009	1224.63	1226.66	1190.31	1170.31	40.04	40.03	0.01	1186.62	1186.63
RW-2	03/11/2009	1224.63	1226.66	1190.31	1170.31	40.07			1186.59	
RW-2	03/17/2009	1224.63	1226.66	1190.31	1170.31	39.94			1186.72	
RW-2	03/25/2009	1224.63	1226.66	1190.31	1170.31	39.81			1186.85	
RW-2	03/31/2009	1224.63	1226.66	1190.31	1170.31	39.91			1186.75	
RW-2	04/08/2009	1224.63	1226.66	1190.31	1170.31	39.96			1186.70	
RW-2	04/13/2009	1224.63	1226.66	1190.31	1170.31	40.04			1186.62	
RW-2	05/12/2009	1224.63	1226.66	1190.31	1170.31	39.98			1186.68	
RW-2	05/19/2009	1224.63	1226.66	1190.31	1170.31	40.12			1186.54	
RW-2	6/3/2009	1224.63	1226.66	1190.31	1170.31	40.37	40.37	0.00	1186.29	1186.29
RW-2	6/10/2009	1224.63	1226.66	1190.31	1170.31	40.39	40.38	0.01	1186.27	1186.28
RW-2	6/16/2009	1224.63	1226.66	1190.31	1170.31	40.45	40.45	0.00	1186.21	1186.21
RW-2	6/24/2009	1224.63	1226.66	1190.31	1170.31	40.47			1186.19	
RW-2	6/30/2009	1224.63	1226.66	1190.31	1170.31	40.50			1186.16	
RW-2	7/8/2009	1224.63	1226.66	1190.31	1170.31	40.54	40.52	0.02	1186.12	1186.14
RW-2	7/20/2009	1224.63	1226.66	1190.31	1170.31	40.70	40.68	0.02	1185.96	1185.98
RW-2	8/4/2009	1224.63	1226.66	1190.31	1170.31	40.65	40.63	0.02	1186.01	1186.03
RW-2	8/18/2009	1224.63	1226.66	1190.31	1170.31	40.72	40.71	0.01	1185.94	1185.95
RW-2	9/15/2009	1224.63	1226.66	1190.31	1170.31	41.13	41.09	0.04	1185.53	1185.57
RW-2	9/29/2009	1224.63	1226.66	1190.31	1170.31	41.11	41.03	0.08	1185.55	1185.63
RW-2	10/15/2009	1224.63	1226.66	1190.31	1170.31	40.92	40.88	0.04	1185.74	1185.78
RW-2	10/28/2009	1224.63	1226.66	1190.31	1170.31	40.62			1186.04	
RW-2	11/11/2009	1224.63	1226.66	1190.31	1170.31	40.59			1186.07	
RW-2	12/1/2009	1224.63	1226.66	1190.31	1170.31	40.85	40.78	0.07	1185.81	1185.88
RW-2	12/7/2009	1224.63	1226.66	1190.31	1170.31	40.85	40.84	0.01	1185.81	1185.82
RW-2	12/22/2009	1224.63	1226.66	1190.31	1170.31	40.85			1185.81	
RW-2	1/5/2010	1224.63	1226.66	1190.31	1170.31	40.80			1185.86	
RW-2	1/19/2010	1224.63	1226.66	1190.31	1170.31	40.80			1185.86	
RW-2	2/3/2010	1224.63	1226.66	1190.31	1170.31	40.81	40.8	0.01	1185.85	1185.86
RW-2	2/16/2010	1224.63	1226.66	1190.31	1170.31	40.82			1185.84	
RW-2	3/3/2010	1224.63	1226.66	1190.31	1170.31	40.83	40.8	0.03	1185.83	1185.86
RW-2	3/16/2010	1224.63	1226.66	1190.31	1170.31	40.10			1186.56	
RW-2	3/29/2010	1224.63	1226.66	1190.31	1170.31	40.30	40.295	0.00	1186.36	1186.37
RW-2	4/13/2010	1224.63	1226.66	1190.31	1170.31	40.55	40.55	0.00	1186.11	1186.11
RW-2	4/27/2010	1224.63	1226.66	1190.31	1170.31	40.25			1186.41	
RW-2	5/12/2010	1224.63	1226.66	1190.31	1170.31	40.45			1186.21	
RW-2	5/26/2010	1224.63	1226.66	1190.31	1170.31	40.41			1186.25	
RW-2	6/8/2010	1224.63	1226.66	1190.31	1170.31	40.50			1186.16	
RW-2	6/24/2010	1224.63	1226.66	1190.31	1170.31	40.11			1186.55	
RW-2	7/7/2010	1224.63	1226.66	1190.31	1170.31	40.16			1186.50	
RW-2	7/20/2010	1224.63	1226.66	1190.31	1170.31	39.84			1186.82	
RW-2	8/3/2010	1224.63	1226.66	1190.31	1170.31	39.89			1186.77	
RW-2	8/16/2010	1224.63	1226.66	1190.31	1170.31	39.58			1187.08	
RW-2	8/31/2010	1224.63	1226.66	1190.31	1170.31	39.80			1186.86	
RW-2	9/14/2010	1224.63	1226.66	1190.31	1170.31	39.83			1186.83	
RW-2	9/27/2010	1224.63	1226.66	1190.31	1170.31	39.25			1187.41	
RW-2	10/12/2010	1224.63	1226.66	1190.31	1170.31	39.48			1187.18	
RW-2	10/25/2010	1224.63	1226.66	1190.31	1170.31	39.42			1187.24	
RW-2	11/9/2010	1224.63	1226.66	1190.31	1170.31	39.12			1187.54	
RW-2	11/30/2010	1224.63	1226.66	1190.31	1170.31	39.10			1187.56	
RW-2	12/16/2010	1224.63	1226.66	1190.31	1170.31	39.62			1187.04	
RW-2	12/28/2010	1224.63	1226.66	1190.31	1170.31	39.23			1187.43	
RW-2	1/25/2011	1224.63	1226.66	1190.31	1170.31	39.25			1187.41	
RW-2	2/8/2011	1224.63	1226.66	1190.31	1170.31	39.42			1187.24	
RW-2	2/21/2011	1224.63	1226.66	1190.31	1170.31	39.44			1187.22	
RW-2	3/8/2011	1224.63	1226.66	1190.31	1170.31	39.55			1187.11	
RW-2	3/24/2011	1224.63	1226.66	1190.31	1170.31	39.20			1187.46	
RW-2	4/4/2011	1224.63	1226.66	1190.31	1170.31	39.14			1187.52	
RW-2	4/26/2011	1224.63	1226.66	1190.31	1170.31	38.85			1187.81	
RW-2	5/10/2011	1224.63	1226.66	1190.31	1170.31	38.65			1188.01	
RW-2	5/23/2011	1224.63	1226.66	1190.31	1170.31	38.65			1188.01	
RW-2	6/7/2011	1224.63	1226.66	1190.31	1170.31	38.68			1187.98	
RW-2	6/23/2011	1224.63	1226.66	1190.31	1170.31	38.70			1187.96	
RW-2	7/7/2011	1224.63	1226.66	1190.31	1170.31	38.95			1187.71	
RW-2	7/28/2011	1224.63	1226.66	1190.31	1170.31	38.95			1187.71	
RW-2	8/15/2011	1224.63	1226.66	1190.31	1170.31	38.82			1187.84	
RW-2	9/1/2011	1224.63	1226.66	1190.31	1170.31	38.91			1187.75	
RW-2	9/13/2011	1224.63	1226.66	1190.31	1170.31	39.05			1187.61	
RW-2	9/27/2011	1224.63	1226.66	1190.31	1170.31	39.12			1187.54	
RW-2	10/11/2011	1224.63	1226.66	1190.31	1170.31	39.09			1187.57	
RW-2	10/24/2011	1224.63	1226.66	1190.31	1170.31	39.10			1187.56	
RW-2	11/7/2011	1224.63	1226.66	1190.31	1170.31	39.15			1187.51	
RW-2	12/19/2011	1224.63	1226.66	1190.31	1170.31	39.30			1187.36	
RW-2	1/10/2012	1224.63	1226.66	1190.31	1170.31	39.35			1187.31	
RW-2	1/24/2012	1224.63	1226.66	1190.31	1170.31	39.55			1187.11	
RW-2	2/6/2012	1224.63	1226.66	1190.31	1170.31	39.61			1187.05	
RW-2	2/20/2012	1224.63	1226.66	1190.31	1170.31	39.72			1186.94	
RW-2	3/6/2012	1224.63	1226.66	1190.31	1170.31	39.80			1186.86	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
RW-2	3/26/2012	1224.63	1226.66	1190.31	1170.31	39.12			1187.54	
RW-2	4/10/2012	1224.63	1226.66	1190.31	1170.31	39.48			1187.18	
RW-2	4/23/2012	1224.63	1226.66	1190.31	1170.31	39.30			1187.36	
RW-2	5/7/2012	1224.63	1226.66	1190.31	1170.31	39.23			1187.43	
RW-2	5/22/2012	1224.63	1226.66	1190.31	1170.31	39.45			1187.21	
RW-2	6/5/2012	1224.63	1226.66	1190.31	1170.31	39.40			1187.26	
RW-2	6/19/2012	1224.63	1226.66	1190.31	1170.31	39.33			1187.33	
RW-2	7/18/2012	1224.63	1226.66	1190.31	1170.31	39.58			1187.08	
RW-2	7/30/2012	1224.63	1226.66	1190.31	1170.31	39.57			1187.09	
RW-2	8/12/2012	1224.63	1226.66	1190.31	1170.31	39.70			1186.96	
RW-2	8/29/2012	1224.63	1226.66	1190.31	1170.31	39.85			1186.81	
RW-2	9/12/2012	1224.63	1226.66	1190.31	1170.31	39.88			1186.78	
RW-2	9/25/2012	1224.63	1226.66	1190.31	1170.31	39.86			1186.80	
RW-2	10/16/2012	1224.63	1226.66	1190.31	1170.31	39.74			1186.92	
RW-2	10/30/2012	1224.63	1226.66	1190.31	1170.31	39.59			1187.07	
RW-2	11/12/2012	1224.63	1226.66	1190.31	1170.31	39.61			1187.05	
RW-2	12/4/2012	1224.63	1226.66	1190.31	1170.31	39.72			1186.94	
RW-2	12/17/2012	1224.63	1226.66	1190.31	1170.31	39.69			1186.97	
RW-2	1/2/2013	1224.63	1226.66	1190.31	1170.31	39.80			1186.86	
RW-2	1/15/2013	1224.63	1226.66	1190.31	1170.31	39.87			1186.79	
RW-2	1/29/2013	1224.63	1226.66	1190.31	1170.31	39.95			1186.71	
RW-2	2/12/2013	1224.63	1226.66	1190.31	1170.31	40.02			1186.64	
RW-2	2/25/2013	1224.63	1226.66	1190.31	1170.31	40.06			1186.60	
RW-2	3/12/2013	1224.63	1226.66	1190.31	1170.31	40.11			1186.55	
RW-2	3/25/2013	1224.63	1226.66	1190.31	1170.31	40.14			1186.52	
RW-2	4/9/2013	1224.63	1226.66	1190.31	1170.31	39.68			1186.98	
RW-2	4/22/2013	1224.63	1226.66	1190.31	1170.31	39.36			1187.30	
RW-2	5/9/2013	1224.63	1226.66	1190.31	1170.31	38.78			1187.88	
RW-2	6/19/2013	1224.63	1226.66	1190.31	1170.31	39.35			1187.31	
RW-2	7/17/2013	1224.63	1226.66	1190.31	1170.31	39.65			1187.01	
RW-2	8/13/2013	1224.63	1226.66	1190.31	1170.31	39.95			1186.71	
RW-2	9/12/2013	1224.63	1226.66	1190.31	1170.31	40.17			1186.49	
RW-2	10/31/2013	1224.63	1226.66	1190.31	1170.31	40.06			1186.60	
RW-2	11/13/2013	1224.63	1226.66	1190.31	1170.31	40.06			1186.60	
RW-2	12/17/2013	1224.63	1226.66	1190.31	1170.31	40.12			1186.54	
RW-2	1/21/2014	1224.63	1226.66	1190.31	1170.31	40.33			1186.33	
RW-2	2/18/2014	1224.63	1226.66	1190.31	1170.31	40.49			1186.17	
RW-2	3/25/2014	1224.63	1226.66	1190.31	1170.31	40.57		trace	1186.09	
RW-2	4/16/2014	1224.63	1226.66	1190.31	1170.31	39.46			1187.20	
RW-2	6/9/2014	1224.63	1226.66	1190.31	1170.31	38.87			1187.79	
RW-2	7/17/2014	1224.63	1226.66	1190.31	1170.31	39.13			1187.53	
RW-2	8/19/2014	1224.63	1226.66	1190.31	1170.31	39.50			1187.16	
RW-2	9/17/2014	1224.63	1226.66	1190.31	1170.31	39.01			1187.65	
RW-2	10/14/2014	1224.63	1226.66	1190.31	1170.31	39.19			1187.47	
RW-2	11/13/2014	1224.63	1226.66	1190.31	1170.31	39.26			1187.40	
RW-2	12/8/2014	1224.63	1226.66	1190.31	1170.31	39.32			1187.34	
RW-2	1/13/2015	1224.63	1226.66	1190.31	1170.31	39.33			1187.33	
RW-2	2/24/2015	1224.63	1226.66	1190.31	1170.31	39.67			1186.99	
RW-2	4/29/2015	1224.63	1226.66	1190.31	1170.31	39.22			1187.44	
RW-2	6/10/2015	1224.63	1226.66	1190.31	1170.31	39.02			1187.64	
RW-2	7/13/2015	1224.63	1226.66	1190.31	1170.31	39.02			1187.64	
RW-2	7/30/2015	1224.63	1226.66	1190.31	1170.31	39.34			1187.32	
RW-2	8/20/2015	1224.63	1226.66	1190.31	1170.31	39.47			1187.19	
RW-2	9/23/2015	1224.63	1226.66	1190.31	1170.31	39.32			1187.34	
RW-2	10/22/2015	1224.63	1226.66	1190.31	1170.31	39.53			1187.13	
RW-2	11/12/2015	1224.63	1226.66	1190.31	1170.31	39.20			1187.46	
RW-2	12/8/2015	1224.63	1226.66	1190.31	1170.31	38.94			1187.72	
RW-2	1/14/2016	1224.63	1226.66	1190.31	1170.31	38.94			1187.72	
RW-3	8/2/2007	1223.83	1226.55	1195.05	1185.05	39.99			1186.56	
RW-3	8/2/2007	1223.83	1226.55	1195.05	1185.05	40.00		film	1186.55	
RW-3	8/9/2007	1223.83	1226.55	1195.05	1185.05	40.08	39.98	0.10	1186.47	1186.57
RW-3	10/17/2007	1223.83	1226.55	1195.05	1185.05	39.77	39.43	0.34	1186.78	1187.12
RW-3	11/9/2007	1223.83	1226.55	1195.05	1185.05	40.39	39.55	0.84	1186.16	1187.00
RW-3	12/3/2007	1223.83	1226.55	1195.05	1185.05	40.05	39.58	0.47	1186.50	1186.97
RW-3	03/19/2008	1223.83	1226.55	1195.05	1185.05	39.40	39.17	0.23	1187.15	1187.38
RW-3	03/25/2009	1223.83	1226.55	1195.05	1185.05	38.25			1188.30	
RW-3	06/24/2009	1223.83	1226.55	1195.05	1185.05	38.59	38.55	0.04	1187.96	1188.00
RW-3	9/15/2009	1223.83	1226.55	1195.05	1185.05	38.98			1187.57	
RW-3	12/7/2009	1223.83	1226.55	1195.05	1185.05	39.30			1187.25	
RW-3	3/29/2010	1223.83	1226.55	1195.05	1185.05	38.55			1188.00	
RW-3	6/24/2010	1223.83	1226.55	1195.05	1185.05	38.49			1188.06	
RW-3	9/27/2010	1223.83	1226.55	1195.05	1185.05	38.62			1187.93	
RW-3	12/28/2010	1223.83	1226.55	1195.05	1185.05	38.74			1187.81	
RW-3	3/24/2011	1223.83	1226.55	1195.05	1185.05	38.30	38.26	0.04	1188.25	1188.29
RW-3	6/23/2011	1223.83	1226.55	1195.05	1185.05	37.98			1188.57	
RW-3	9/1/2011	1223.83	1226.55	1195.05	1185.05	38.78			1187.77	
RW-3	9/13/2011	1223.83	1226.55	1195.05	1185.05	38.91			1187.64	
RW-3	9/27/2011	1223.83	1226.55	1195.05	1185.05	38.97			1187.58	
RW-3	10/11/2011	1223.83	1226.55	1195.05	1185.05	38.96			1187.59	
RW-3	10/24/2011	1223.83	1226.55	1195.05	1185.05	38.95			1187.60	
RW-3	11/7/2011	1223.83	1226.55	1195.05	1185.05	39.02			1187.53	
RW-3	12/19/2011	1223.83	1226.55	1195.05	1185.05	39.73			1186.82	
RW-3	3/26/2012	1223.83	1226.55	1195.05	1185.05	38.20	38.199	0.00	1188.35	1188.35
RW-3	6/19/2012	1223.83	1226.55	1195.05	1185.05	38.61	38.6	0.01	1187.94	1187.95
RW-3	9/25/2012	1223.83	1226.55	1195.05	1185.05	38.85			1187.70	
RW-3	12/17/2012	1223.83	1226.55	1195.05	1185.05	38.42			1188.13	
RW-3	3/25/2013	1223.83	1226.55	1195.05	1185.05	38.23			1188.32	
RW-3	6/19/2013	1223.83	1226.55	1195.05	1185.05	39.14			1187.41	
RW-3	7/17/2013	1223.83	1226.55	1195.05	1185.05	39.39			1187.16	
RW-3	8/13/2013	1223.83	1226.55	1195.05	1185.05	39.40			1187.15	
RW-3	9/12/2013	1223.83	1226.55	1195.05	1185.05	39.40			1187.15	
RW-3	10/31/2013	1223.83	1226.55	1195.05	1185.05	Dry				
RW-3	11/13/2013	1223.83	1226.55	1195.05	1185.05	39.30			1187.25	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
RW-3	12/17/2013	1223.83	1226.55	1195.05	1185.05	40.60			1185.95	
RW-3	3/25/2014	1223.83	1226.55	1195.05	1185.05	40.96		trace	1185.59	1185.59
RW-3	6/9/2014	1223.83	1226.55	1195.05	1185.05	37.61			1188.94	
RW-3	9/17/2014	1223.83	1226.55	1195.05	1185.05	36.90			1189.65	
RW-3	12/8/2014	1223.83	1226.55	1195.05	1185.05	37.80			1188.75	
RW-3	6/10/2015	1223.83	1226.55	1195.05	1185.05	38.92	38.81	0.11	1187.63	1187.74
RW-3	7/13/2015	1223.83	1226.55	1195.05	1185.05	38.92	38.88	0.04	1187.63	1187.67
RW-3	7/30/2015	1223.83	1226.55	1195.05	1185.05	39.40		trace	1187.15	1187.15
RW-3	8/20/2015	1223.83	1226.55	1195.05	1185.05	39.86		trace	1186.69	1186.69
RW-3	9/23/2015	1223.83	1226.55	1195.05	1185.05	39.13	39.11	0.02	1187.42	1187.44
RW-3	10/22/2015	1223.83	1226.55	1195.05	1185.05	39.30			1187.25	
RW-3	11/12/2015	1223.83	1226.55	1195.05	1185.05	38.90	38.88	0.20	1187.65	1187.85
RW-3	12/8/2015	1223.83	1226.55	1195.05	1185.05	38.70	38.72	0.02	1187.85	1187.87
RW-3	1/14/2016	1223.83	1226.55	1195.05	1185.05	39.40			1187.15	
MW-19	02/26/2008	1187.43	1189.75	1183.75	1173.75	5.63			1184.12	
MW-19	03/11/2008	1187.43	1189.75	1183.75	1173.75	8.61			1181.14	
MW-19	03/19/2008	1187.43	1189.75	1183.75	1173.75	5.60			1184.15	
MW-19	03/24/2008	1187.43	1189.75	1183.75	1173.75	5.60			1184.15	
MW-19	04/01/2008	1187.43	1189.75	1183.75	1173.75	5.33			1184.42	
MW-19	04/08/2008	1187.43	1189.75	1183.75	1173.75	4.47			1185.28	
MW-19	04/09/2008	1187.43	1189.75	1183.75	1173.75	3.50			1186.25	
MW-19	04/23/2008	1187.43	1189.75	1183.75	1173.75	4.40			1185.35	
MW-19	05/03/2008	1187.43	1189.75	1183.75	1173.75	4.27			1185.48	
MW-19	06/10/2008	1187.43	1189.75	1183.75	1173.75	4.58			1185.17	
MW-19	08/28/2008	1187.43	1189.75	1183.75	1173.75	5.02			1184.73	
MW-19	12/03/2008	1187.43	1189.75	1183.75	1173.75	5.14			1184.61	
MW-19	03/25/2009	1187.43	1189.75	1183.75	1173.75	4.82			1184.93	
MW-19	06/24/2009	1187.43	1189.75	1183.75	1173.75	5.48			1184.27	
MW-19	9/15/2009	1187.43	1189.75	1183.75	1173.75	5.77			1183.98	
MW-19	12/7/2009	1187.43	1189.75	1183.75	1173.75	5.71			1184.04	
MW-19	3/29/2010	1187.43	1189.75	1183.75	1173.75	5.27			1184.48	
MW-19	6/24/2010	1187.43	1189.75	1183.75	1173.75	4.92			1184.83	
MW-19	9/27/2010	1187.43	1189.75	1183.75	1173.75	4.52			1185.23	
MW-19	12/28/2010	1187.43	1189.75	1183.75	1173.75	4.67			1185.08	
MW-19	3/24/2011	1187.43	1189.75	1183.75	1173.75	4.32			1185.43	
MW-19	6/23/2011	1187.43	1189.75	1183.75	1173.75	4.12			1185.63	
MW-19	10/11/2011	1187.43	1189.75	1183.75	1173.75	4.61			1185.14	
MW-19	12/19/2011	1187.43	1189.75	1183.75	1173.75	4.64			1185.11	
MW-19	3/26/2012	1187.43	1189.75	1183.75	1173.75	4.42			1185.33	
MW-19	6/19/2012	1187.43	1189.75	1183.75	1173.75	4.64			1185.11	
MW-19	9/25/2012	1187.43	1189.75	1183.75	1173.75	5.11			1184.64	
MW-19	12/17/2012	1187.43	1189.75	1183.75	1173.75	4.70			1185.05	
MW-19	3/25/2013	1187.43	1189.75	1183.75	1173.75	5.10			1184.65	
MW-19	6/19/2013	1187.43	1189.75	1183.75	1173.75	4.80			1184.95	
MW-19	9/12/2013	1187.43	1189.75	1183.75	1173.75	5.35			1184.40	
MW-19	12/17/2013	1187.43	1189.75	1183.75	1173.75	5.15			1184.60	
MW-19	3/25/2014	1187.43	1189.75	1183.75	1173.75	5.40			1184.35	
MW-19	6/9/2014	1187.43	1189.75	1183.75	1173.75	4.24			1185.51	
MW-19	9/17/2014	1187.43	1189.75	1183.75	1173.75	4.49			1185.26	
MW-19	4/29/2015	1187.43	1189.75	1183.75	1173.75	4.62			1185.13	
MW-19	6/10/2015	1187.43	1189.75	1183.75	1173.75	4.42			1185.33	
MW-19	9/23/2015	1187.43	1189.75	1183.75	1173.75	4.68			1185.07	
MW-19	12/8/2015	1187.43	1189.75	1183.75	1173.75	4.42			1185.33	
MW-20	2/26/2008	1188.54	1190.76	1184.76	1174.76	7.11			1183.65	
MW-20	03/11/2008	1188.54	1190.76	1184.76	1174.76	7.12			1183.64	
MW-20	03/19/2008	1188.54	1190.76	1184.76	1174.76	7.17			1183.59	
MW-20	03/24/2008	1188.54	1190.76	1184.76	1174.76	7.07			1183.69	
MW-20	04/01/2008	1188.54	1190.76	1184.76	1174.76	6.77			1183.99	
MW-20	04/08/2008	1188.54	1190.76	1184.76	1174.76	5.76			1185.00	
MW-20	04/23/2008	1188.54	1190.76	1184.76	1174.76	5.80			1184.96	
MW-20	06/10/2008	1188.54	1190.76	1184.76	1174.76	6.20			1184.56	
MW-20	08/28/2008	1188.54	1190.76	1184.76	1174.76	6.62			1184.14	
MW-20	12/03/2008	1188.54	1190.76	1184.76	1174.76	9.12			1181.64	
MW-20	03/25/2009	1188.54	1190.76	1184.76	1174.76	6.16			1184.60	
MW-20	06/24/2009	1188.54	1190.76	1184.76	1174.76	7.00			1183.76	
MW-20	9/15/2009	1188.54	1190.76	1184.76	1174.76	7.31			1183.45	
MW-20	12/7/2009	1188.54	1190.76	1184.76	1174.76	7.23			1183.53	
MW-20	3/29/2010	1188.54	1190.76	1184.76	1174.76	6.78			1183.98	
MW-20	6/24/2010	1188.54	1190.76	1184.76	1174.76	6.50			1184.26	
MW-20	9/27/2010	1188.54	1190.76	1184.76	1174.76	6.02			1184.74	
MW-20	12/28/2010	1188.54	1190.76	1184.76	1174.76	6.28			1184.48	
MW-20	3/24/2011	1188.54	1190.76	1184.76	1174.76	5.89			1184.87	
MW-20	6/23/2011	1188.54	1190.76	1184.76	1174.76	5.78			1184.98	
MW-20	10/11/2011	1188.54	1190.76	1184.76	1174.76	6.23			1184.53	
MW-20	12/19/2011	1188.54	1190.76	1184.76	1174.76	6.18			1184.58	
MW-20	3/26/2012	1188.54	1190.76	1184.76	1174.76	5.98			1184.78	
MW-20	6/19/2012	1188.54	1190.76	1184.76	1174.76	6.20			1184.56	
MW-20	9/25/2012	1188.54	1190.76	1184.76	1174.76	6.68			1184.08	
MW-20	12/17/2012	1188.54	1190.76	1184.76	1174.76	6.24			1184.52	
MW-20	3/25/2013	1188.54	1190.76	1184.76	1174.76	6.62			1184.14	
MW-20	6/19/2013	1188.54	1190.76	1184.76	1174.76	6.40			1184.36	
MW-20	9/12/2013	1188.54	1190.76	1184.76	1174.76	6.98			1183.78	
MW-20	12/17/2013	1188.54	1190.76	1184.76	1174.76	6.66			1184.10	
MW-20	3/25/2014	1188.54	1190.76	1184.76	1174.76	6.92			1183.84	
MW-20	6/9/2014	1188.54	1190.76	1184.76	1174.76	5.88			1184.88	
MW-20	9/17/2014	1188.54	1190.76	1184.76	1174.76	6.07			1184.69	
MW-20	12/8/2014	1188.54	1190.76	1184.76	1174.76	6.15			1184.61	
MW-20	4/29/2015	1188.54	1190.76	1184.76	1174.76	6.19			1184.57	
MW-20	6/10/2015	1188.54	1190.76	1184.76	1174.76	5.99			1184.77	
MW-20	9/23/2015	1188.54	1190.76	1184.76	1174.76	6.22			1184.54	
MW-20	12/8/2015	1188.54	1190.76	1184.76	1174.76	6.05			1184.71	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-21	02/27/2008	1189.48	1191.76	1186.26	1176.26	7.17			1184.59	
MW-21	03/11/2008	1189.48	1191.76	1186.26	1176.26	7.14			1184.62	
MW-21	03/19/2008	1189.48	1191.76	1186.26	1176.26	7.14			1184.62	
MW-21	03/24/2008	1189.48	1191.76	1186.26	1176.26	7.07			1184.69	
MW-21	04/01/2008	1189.48	1191.76	1186.26	1176.26	6.88			1184.88	
MW-21	04/08/2008	1189.48	1191.76	1186.26	1176.26	3.17			1188.59	
MW-21	11/19/2008	1189.48	1191.76	1186.26	1176.26	8.42			1183.34	
MW-21	12/03/2008	1189.48	1191.76	1186.26	1176.26	6.58			1185.18	
MW-21	06/24/2009	1189.48	1191.76	1186.26	1176.26	7.34			1184.42	
MW-21	9/15/2009	1189.48	1191.76	1186.26	1176.26	7.61			1184.15	
MW-21	12/7/2009	1189.48	1191.76	1186.26	1176.26	7.58			1184.18	
MW-21	3/29/2010	1189.48	1191.76	1186.26	1176.26	6.97			1184.79	
MW-21	6/24/2010	1189.48	1191.76	1186.26	1176.26	6.73			1185.03	
MW-21	9/27/2010	1189.48	1191.76	1186.26	1176.26	5.75			1186.01	
MW-21	12/28/2010	1189.48	1191.76	1186.26	1176.26	6.60			1185.16	
MW-21	3/24/2011	1189.48	1191.76	1186.26	1176.26	5.75			1186.01	
MW-21	6/23/2011	1189.48	1191.76	1186.26	1176.26	5.93			1185.83	
MW-21	9/1/2011	1189.48	1191.76	1186.26	1176.26	6.28			1185.48	
MW-21	9/13/2011	1189.48	1191.76	1186.26	1176.26	6.49			1185.27	
MW-21	9/27/2011	1189.48	1191.76	1186.26	1176.26	6.44			1185.32	
MW-21	10/11/2011	1189.48	1191.76	1186.26	1176.26	6.37			1185.39	
MW-21	12/19/2011	1189.48	1191.76	1186.26	1176.26	6.39			1185.37	
MW-21	3/26/2012	1189.48	1191.76	1186.26	1176.26	6.07			1185.69	
MW-21	6/19/2012	1189.48	1191.76	1186.26	1176.26	6.39			1185.37	
MW-21	9/25/2012	1189.48	1191.76	1186.26	1176.26	6.93			1184.83	
MW-21	12/17/2012	1189.48	1191.76	1186.26	1176.26	6.53			1185.23	
MW-21	3/25/2013	1189.48	1191.76	1186.26	1176.26	6.96			1184.80	
MW-21	6/19/2013	1189.48	1191.76	1186.26	1176.26	6.60			1185.16	
MW-21	9/12/2013	1189.48	1191.76	1186.26	1176.26	7.23			1184.53	
MW-21	12/17/2013	1189.48	1191.76	1186.26	1176.26	6.95			1184.81	
MW-21	3/25/2014	1189.48	1191.76	1186.26	1176.26	7.25			1184.51	
MW-21	6/9/2014	1189.48	1191.76	1186.26	1176.26	5.95			1185.81	
MW-21	9/17/2014	1189.48	1191.76	1186.26	1176.26	6.26			1185.50	
MW-21	12/8/2014	1189.48	1191.76	1186.26	1176.26	6.45			1185.31	
MW-21	4/29/2015	1189.48	1191.76	1186.26	1176.26	6.32			1185.44	
MW-21	6/10/2015	1189.48	1191.76	1186.26	1176.26	6.08			1185.68	
MW-21	9/23/2015	1189.48	1191.76	1186.26	1176.26	6.35			1185.41	
MW-21	12/8/2015	1189.48	1191.76	1186.26	1176.26	6.17			1185.59	
MW-22	02/28/2008	1188.14	1190.56	1185.56	1175.06	7.05			1183.51	
MW-22	03/11/2008	1188.14	1190.56	1185.56	1175.06	7.19			1183.37	
MW-22	03/19/2008	1188.14	1190.56	1185.56	1175.06	7.03			1183.53	
MW-22	03/24/2008	1188.14	1190.56	1185.56	1175.06	7.06			1183.50	
MW-22	04/01/2008	1188.14	1190.56	1185.56	1175.06	6.76			1183.80	
MW-22	04/23/2008	1188.14	1190.56	1185.56	1175.06	5.85			1184.71	
MW-22	06/10/2008	1188.14	1190.56	1185.56	1175.06	6.17			1184.39	
MW-22	08/28/2008	1188.14	1190.56	1185.56	1175.06	6.78			1183.78	
MW-22	12/03/2008	1188.14	1190.56	1185.56	1175.06	6.19			1184.37	
MW-22	03/25/2009	1188.14	1190.56	1185.56	1175.06	6.02			1184.54	
MW-22	06/24/2009	1188.14	1190.56	1185.56	1175.06	7.14			1183.42	
MW-22	9/15/2009	1188.14	1190.56	1185.56	1175.06	7.47			1183.09	
MW-22	12/7/2009	1188.14	1190.56	1185.56	1175.06	7.35			1183.21	
MW-22	3/29/2010	1188.14	1190.56	1185.56	1175.06	6.94			1183.62	
MW-22	6/24/2010	1188.14	1190.56	1185.56	1175.06	6.60			1183.96	
MW-22	9/27/2010	1188.14	1190.56	1185.56	1175.06	5.45			1185.11	
MW-22	12/28/2010	1188.14	1190.56	1185.56	1175.06	6.51			1184.05	
MW-22	3/24/2011	1188.14	1190.56	1185.56	1175.06	6.11			1184.45	
MW-22	6/23/2011	1188.14	1190.56	1185.56	1175.06	6.10			1184.46	
MW-22	10/11/2011	1188.14	1190.56	1185.56	1175.06	6.51			1184.05	
MW-22	12/19/2011	1188.14	1190.56	1185.56	1175.06	6.41			1184.15	
MW-22	3/26/2012	1188.14	1190.56	1185.56	1175.06	6.23			1184.33	
MW-22	6/19/2012	1188.14	1190.56	1185.56	1175.06	6.47			1184.09	
MW-22	9/25/2012	1188.14	1190.56	1185.56	1175.06	6.96			1183.60	
MW-22	12/17/2012	1188.14	1190.56	1185.56	1175.06	6.45			1184.11	
MW-22	3/25/2013	1188.14	1190.56	1185.56	1175.06	6.88			1183.68	
MW-22	6/19/2013	1188.14	1190.56	1185.56	1175.06	7.70			1182.86	
MW-22	9/12/2013	1188.14	1190.56	1185.56	1175.06	8.28			1182.28	
MW-22	12/16/2013	1188.14	1190.56	1185.56	1175.06	6.92			1183.64	
MW-22	3/25/2014	1188.14	1190.56	1185.56	1175.06	7.22			1183.34	
MW-22	6/9/2014	1188.14	1190.56	1185.56	1175.06	6.15			1184.41	
MW-22	9/17/2014	1188.14	1190.56	1185.56	1175.06	6.40			1184.16	
MW-22	12/8/2014	1188.14	1190.56	1185.56	1175.06	6.45			1184.11	
MW-22	4/29/2015	1188.14	1190.56	1185.56	1175.06	6.47			1184.09	
MW-22	6/10/2015	1188.14	1190.56	1185.56	1175.06	6.28			1184.28	
MW-22	9/23/2015	1188.14	1190.56	1185.56	1175.06	6.52			1184.04	
MW-22	12/8/2015	1188.14	1190.56	1185.56	1175.06	5.06			1185.50	
MW-23	03/24/2008	1187.00	1189.43	1183.93	1173.93	6.30			1183.13	
MW-23	04/01/2008	1187.00	1189.43	1183.93	1173.93	6.11			1183.32	
MW-23	04/08/2008	1187.00	1189.43	1183.93	1173.93	5.00			1184.43	
MW-23	04/09/2008	1187.00	1189.43	1183.93	1173.93	3.09			1186.34	
MW-23	04/23/2008	1187.00	1189.43	1183.93	1173.93	5.14			1184.29	
MW-23	05/03/2008	1187.00	1189.43	1183.93	1173.93	4.95			1184.48	
MW-23	06/10/2008	1187.00	1189.43	1183.93	1173.93	5.42			1184.01	
MW-23	08/28/2008	1187.00	1189.43	1183.93	1173.93	6.04			1183.39	
MW-23	12/03/2008	1187.00	1189.43	1183.93	1173.93	5.49			1183.94	
MW-23	03/25/2009	1187.00	1189.43	1183.93	1173.93	5.32			1184.11	
MW-23	06/24/2009	1187.00	1189.43	1183.93	1173.93	6.50			1182.93	
MW-23	9/15/2009	1187.00	1189.43	1183.93	1173.93	6.81			1182.62	
MW-23	12/7/2009	1187.00	1189.43	1183.93	1173.93	6.70			1182.73	
MW-23	3/29/2010	1187.00	1189.43	1183.93	1173.93	6.25			1183.18	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-23	6/24/2010	1187.00	1189.43	1183.93	1173.93	6.60			1182.83	
MW-23	9/27/2010	1187.00	1189.43	1183.93	1173.93	5.44			1183.99	
MW-23	12/28/2010	1187.00	1189.43	1183.93	1173.93	5.89			1183.54	
MW-23	3/24/2011	1187.00	1189.43	1183.93	1173.93	5.27			1184.16	
MW-23	6/23/2011	1187.00	1189.43	1183.93	1173.93	5.22			1184.21	
MW-23	10/11/2011	1187.00	1189.43	1183.93	1173.93	5.73			1183.70	
MW-23	12/19/2011	1187.00	1189.43	1183.93	1173.93	5.64			1183.79	
MW-23	3/26/2012	1187.00	1189.43	1183.93	1173.93	5.37			1184.06	
MW-23	6/19/2012	1187.00	1189.43	1183.93	1173.93	5.53			1183.90	
MW-23	9/25/2012	1187.00	1189.43	1183.93	1173.93	6.15			1183.28	
MW-23	12/17/2012	1187.00	1189.43	1183.93	1173.93	5.61			1183.82	
MW-23	3/25/2013	1187.00	1189.43	1183.93	1173.93	6.15			1183.28	
MW-23	6/19/2013	1187.00	1189.43	1183.93	1173.93	6.00			1183.43	
MW-23	9/12/2013	1187.00	1189.43	1183.93	1173.93	6.60			1182.83	
MW-23	12/17/2013	1187.00	1189.43	1183.93	1173.93	6.24			1183.19	
MW-23	3/25/2014	1187.00	1189.43	1183.93	1173.93	6.53			1182.90	
MW-23	6/9/2014	1187.00	1189.43	1183.93	1173.93	5.22			1184.21	
MW-23	9/17/2014	1187.00	1189.43	1183.93	1173.93	5.61			1183.82	
MW-23	12/8/2014	1187.00	1189.43	1183.93	1173.93	5.75			1183.68	
MW-23	4/29/2015	1187.00	1189.43	1183.93	1173.93	5.64			1183.79	
MW-23	6/10/2015	1187.00	1189.43	1183.93	1173.93	5.41			1184.02	
MW-23	9/23/2015	1187.00	1189.43	1183.93	1173.93	5.75			1183.68	
MW-23	12/8/2015	1187.00	1189.43	1183.93	1173.93	5.61			1183.82	
MW-24	02/26/2008	1185.60	1187.73	1183.73	1173.73	5.11			1182.62	
MW-24	03/11/2008	1185.60	1187.73	1183.73	1173.73	5.22			1182.51	
MW-24	03/19/2008	1185.60	1187.73	1183.73	1173.73	5.17			1182.56	
MW-24	03/24/2008	1185.60	1187.73	1183.73	1173.73	5.17			1182.56	
MW-24	04/01/2008	1185.60	1187.73	1183.73	1173.73	4.98			1182.75	
MW-24	04/08/2008	1185.60	1187.73	1183.73	1173.73	3.67			1184.06	
MW-24	04/09/2008	1185.60	1187.73	1183.73	1173.73	4.14			1183.59	
MW-24	04/23/2008	1185.60	1187.73	1183.73	1173.73	4.26			1183.47	
MW-24	05/03/2008	1185.60	1187.73	1183.73	1173.73	3.98			1183.75	
MW-24	06/10/2008	1185.60	1187.73	1183.73	1173.73	4.74			1182.99	
MW-24	08/28/2008	1185.60	1187.73	1183.73	1173.73	5.22			1182.51	
MW-24	12/03/2008	1185.60	1187.73	1183.73	1173.73	4.43			1183.30	
MW-24	03/25/2009	1185.60	1187.73	1183.73	1173.73	4.16			1183.57	
MW-24	06/24/2009	1185.60	1187.73	1183.73	1173.73	5.61			1182.12	
MW-24	9/15/2009	1185.60	1187.73	1183.73	1173.73	5.83			1181.90	
MW-24	12/7/2009	1185.60	1187.73	1183.73	1173.73	5.72			1182.01	
MW-24	3/29/2010	1185.60	1187.73	1183.73	1173.73	3.45			1184.28	
MW-24	6/24/2010	1185.60	1187.73	1183.73	1173.73	4.32			1183.41	
MW-24	9/27/2010	1185.60	1187.73	1183.73	1173.73	4.60			1183.13	
MW-24	12/28/2010	1185.60	1187.73	1183.73	1173.73	5.27			1182.46	
MW-24	3/24/2011	1185.60	1187.73	1183.73	1173.73	4.33			1183.40	
MW-24	6/23/2011	1185.60	1187.73	1183.73	1173.73	4.46			1183.27	
MW-24	10/11/2011	1185.60	1187.73	1183.73	1173.73	4.95			1182.78	
MW-24	12/19/2011	1185.60	1187.73	1183.73	1173.73	4.77			1182.96	
MW-24	3/26/2012	1185.60	1187.73	1183.73	1173.73	4.54			1183.19	
MW-24	6/19/2012	1185.60	1187.73	1183.73	1173.73	4.67			1183.06	
MW-24	9/25/2012	1185.60	1187.73	1183.73	1173.73	5.30			1182.43	
MW-24	12/17/2012	1185.60	1187.73	1183.73	1173.73	4.65			1183.08	
MW-24	3/25/2013	1185.60	1187.73	1183.73	1173.73	5.22			1182.51	
MW-24	6/19/2013	1185.60	1187.73	1183.73	1173.73	5.41			1182.32	
MW-24	9/12/2013	1185.60	1187.73	1183.73	1173.73	5.83			1181.90	
MW-24	12/17/2013	1185.60	1187.73	1183.73	1173.73	5.45			1182.28	
MW-24	3/25/2014	1185.60	1187.73	1183.73	1173.73	5.71			1182.02	
MW-24	6/9/2014	1185.60	1187.73	1183.73	1173.73	4.58			1183.15	
MW-24	9/17/2014	1185.60	1187.73	1183.73	1173.73	5.05			1182.68	
MW-24	12/8/2014	1185.60	1187.73	1183.73	1173.73	5.25			1182.48	
MW-24	4/29/2015	1185.60	1187.73	1183.73	1173.73	5.09			1182.64	
MW-24	6/10/2015	1185.60	1187.73	1183.73	1173.73	4.83			1182.90	
MW-24	9/23/2015	1185.60	1187.73	1183.73	1173.73	5.13			1182.60	
MW-24	12/8/2015	1185.60	1187.73	1183.73	1173.73	2.55			1185.18	
MW-24D	03/19/2008	1185.50	1187.76	1125.76	1120.76	3.72			1184.04	
MW-24D	03/24/2008	1185.50	1187.76	1125.76	1120.76	3.72			1184.04	
MW-24D	04/01/2008	1185.50	1187.76	1125.76	1120.76	3.55			1184.21	
MW-24D	04/08/2008	1185.50	1187.76	1125.76	1120.76	2.78			1184.98	
MW-24D	04/09/2008	1185.50	1187.76	1125.76	1120.76	2.74			1185.02	
MW-24D	04/23/2008	1185.50	1187.76	1125.76	1120.76	2.60			1185.16	
MW-24D	05/03/2008	1185.50	1187.76	1125.76	1120.76	2.44			1185.32	
MW-24D	06/10/2008	1185.50	1187.76	1125.76	1120.76	2.64			1185.12	
MW-24D	08/28/2008	1185.50	1187.76	1125.76	1120.76	3.17			1184.59	
MW-24D	12/03/2008	1185.50	1187.76	1125.76	1120.76	2.60			1185.16	
MW-24D	03/25/2009	1185.50	1187.76	1125.76	1120.76	3.25			1184.51	
MW-24D	06/24/2009	1185.50	1187.76	1125.76	1120.76	3.74			1184.02	
MW-24D	9/15/2009	1185.50	1187.76	1125.76	1120.76	4.06			1183.70	
MW-24D	12/7/2009	1185.50	1187.76	1125.76	1120.76	3.80			1183.96	
MW-24D	3/29/2010	1185.50	1187.76	1125.76	1120.76	3.48			1184.28	
MW-24D	6/24/2010	1185.50	1187.76	1125.76	1120.76	3.12			1184.64	
MW-24D	9/27/2010	1185.50	1187.76	1125.76	1120.76	2.64			1185.12	
MW-24D	12/28/2010	1185.50	1187.76	1125.76	1120.76	2.57			1185.19	
MW-24D	3/24/2011	1185.50	1187.76	1125.76	1120.76	2.42			1185.34	
MW-24D	6/23/2011	1185.50	1187.76	1125.76	1120.76	2.23			1185.53	
MW-24D	10/11/2011	1185.50	1187.76	1125.76	1120.76	2.74			1185.02	
MW-24D	3/26/2012	1185.50	1187.76	1125.76	1120.76	2.65			1185.11	
MW-24D	6/19/2012	1185.50	1187.76	1125.76	1120.76	2.80			1184.96	
MW-24D	9/25/2012	1185.50	1187.76	1125.76	1120.76	3.32			1184.44	
MW-24D	12/17/2012	1185.50	1187.76	1125.76	1120.76	2.99			1184.77	
MW-24D	3/25/2013	1185.50	1187.76	1125.76	1120.76	3.47			1184.29	
MW-24D	6/19/2013	1185.50	1187.76	1125.76	1120.76	3.00			1184.76	
MW-24D	9/12/2013	1185.50	1187.76	1125.76	1120.76	3.68			1184.08	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-24D	12/17/2013	1185.50	1187.76	1125.76	1120.76	5.45			1182.31	
MW-24D	3/25/2014	1185.50	1187.76	1125.76	1120.76	3.83			1183.93	
MW-24D	6/9/2014	1185.50	1187.76	1125.76	1120.76	2.41			1185.35	
MW-24D	9/17/2014	1185.50	1187.76	1125.76	1120.76	2.63			1185.13	
MW-24D	12/8/2014	1185.50	1187.76	1125.76	1120.76	2.84			1184.92	
MW-24D	4/29/2015	1185.50	1187.76	1125.76	1120.76	2.81			1184.95	
MW-24D	6/10/2015	1185.50	1187.76	1125.76	1120.76	2.93			1184.83	
MW-24D	9/23/2015	1185.50	1187.76	1125.76	1120.76	2.83			1184.93	
MW-24D	12/8/2015	1185.50	1187.76	1125.76	1120.76	5.05			1182.71	
MW-25	02/26/2008	1188.38	1190.44	1184.94	1174.94	6.79			1183.65	
MW-25	03/11/2008	1188.38	1190.44	1184.94	1174.94	6.85			1183.59	
MW-25	03/19/2008	1188.38	1190.44	1184.94	1174.94	6.70			1183.74	
MW-25	03/24/2008	1188.38	1190.44	1184.94	1174.94	6.71			1183.73	
MW-25	04/01/2008	1188.38	1190.44	1184.94	1174.94	6.52			1183.92	
MW-25	04/08/2008	1188.38	1190.44	1184.94	1174.94	5.14			1185.30	
MW-25	04/09/2008	1188.38	1190.44	1184.94	1174.94	4.85			1185.59	
MW-25	04/23/2008	1188.38	1190.44	1184.94	1174.94	5.21			1185.23	
MW-25	05/03/2008	1188.38	1190.44	1184.94	1174.94	4.99			1185.45	
MW-25	06/10/2008	1188.38	1190.44	1184.94	1174.94	5.30			1185.14	
MW-25	08/28/2008	1188.38	1190.44	1184.94	1174.94	6.19			1184.25	
MW-25	12/03/2008	1188.38	1190.44	1184.94	1174.94	5.92			1184.52	
MW-25	03/25/2009	1188.38	1190.44	1184.94	1174.94	5.69			1184.75	
MW-25	06/24/2009	1188.38	1190.44	1184.94	1174.94	6.82			1183.62	
MW-25	9/15/2009	1188.38	1190.44	1184.94	1174.94	7.13			1183.31	
MW-25	12/7/2009	1188.38	1190.44	1184.94	1174.94	7.00			1183.44	
MW-25	3/29/2010	1188.38	1190.44	1184.94	1174.94	6.48			1183.96	
MW-25	6/24/2010	1188.38	1190.44	1184.94	1174.94	6.15			1184.29	
MW-25	9/27/2010	1188.38	1190.44	1184.94	1174.94	6.24			1184.20	
MW-25	12/28/2010	1188.38	1190.44	1184.94	1174.94	6.11			1184.33	
MW-25	3/24/2011	1188.38	1190.44	1184.94	1174.94	5.51			1184.93	
MW-25	6/23/2011	1188.38	1190.44	1184.94	1174.94	5.52			1184.92	
MW-25	10/11/2011	1188.38	1190.44	1184.94	1174.94	6.11			1184.33	
MW-25	12/19/2011	1188.38	1190.44	1184.94	1174.94	6.05			1184.39	
MW-25	3/26/2012	1188.38	1190.44	1184.94	1174.94	5.56			1184.88	
MW-25	6/19/2012	1188.38	1190.44	1184.94	1174.94	6.00			1184.44	
MW-25	9/25/2012	1188.38	1190.44	1184.94	1174.94	6.53			1183.91	
MW-25	12/17/2012	1188.38	1190.44	1184.94	1174.94	6.03			1184.41	
MW-25	3/25/2013	1188.38	1190.44	1184.94	1174.94	6.47			1183.97	
MW-25	6/19/2013	1188.38	1190.44	1184.94	1174.94	6.21			1184.23	
MW-25	9/12/2013	1188.38	1190.44	1184.94	1174.94	6.88			1183.56	
MW-25	12/17/2013	1188.38	1190.44	1184.94	1174.94	6.50			1183.94	
MW-25	3/25/2014	1188.38	1190.44	1184.94	1174.94	6.80			1183.64	
MW-25	6/9/2014	1188.38	1190.44	1184.94	1174.94	5.50			1184.94	
MW-25	9/17/2014	1188.38	1190.44	1184.94	1174.94	5.89			1184.55	
MW-25	12/8/2014	1188.38	1190.44	1184.94	1174.94	6.00			1184.44	
MW-25	4/29/2015	1188.38	1190.44	1184.94	1174.94	5.95			1184.49	
MW-25	6/10/2015	1188.38	1190.44	1184.94	1174.94	5.70			1184.74	
MW-25	9/23/2015	1188.38	1190.44	1184.94	1174.94	5.98			1184.46	
MW-25	12/8/2015	1188.38	1190.44	1184.94	1174.94	5.80			1184.64	
MW-26	02/28/2008	1189.22	1191.31	1186.81	1176.81	7.94			1183.37	
MW-26	03/11/2008	1189.22	1191.31	1186.81	1176.81	8.04			1183.27	
MW-26	03/19/2008	1189.22	1191.31	1186.81	1176.81	7.91			1183.40	
MW-26	03/24/2008	1189.22	1191.31	1186.81	1176.81	7.91			1183.40	
MW-26	04/01/2008	1189.22	1191.31	1186.81	1176.81	7.78			1183.53	
MW-26	04/08/2008	1189.22	1191.31	1186.81	1176.81	5.57			1185.74	
MW-26	04/09/2008	1189.22	1191.31	1186.81	1176.81	6.14			1185.17	
MW-26	04/23/2008	1189.22	1191.31	1186.81	1176.81	6.52			1184.79	
MW-26	05/03/2008	1189.22	1191.31	1186.81	1176.81	6.41			1184.90	
MW-26	06/10/2008	1189.22	1191.31	1186.81	1176.81	6.95			1184.36	
MW-26	08/28/2008	1189.22	1191.31	1186.81	1176.81	7.80			1183.51	
MW-26	12/03/2008	1189.22	1191.31	1186.81	1176.81	7.26			1184.05	
MW-26	03/25/2009	1189.22	1191.31	1186.81	1176.81	6.89			1184.42	
MW-26	06/24/2009	1189.22	1191.31	1186.81	1176.81	8.21			1183.10	
MW-26	9/15/2009	1189.22	1191.31	1186.81	1176.81	8.49			1182.82	
MW-26	12/7/2009	1189.22	1191.31	1186.81	1176.81	8.33			1182.98	
MW-26	12/22/2009	1189.22	1191.31	1186.81	1176.81	8.30			1183.01	
MW-26	2/3/2010	1189.22	1191.31	1186.81	1176.81	8.35			1182.96	
MW-26	3/29/2010	1189.22	1191.31	1186.81	1176.81	7.86			1183.45	
MW-26	6/24/2010	1189.22	1191.31	1186.81	1176.81	7.38			1183.93	
MW-26	7/20/2010	1189.22	1191.31	1186.81	1176.81	7.33			1183.98	
MW-26	9/27/2010	1189.22	1191.31	1186.81	1176.81	6.91			1184.40	
MW-26	12/28/2010	1189.22	1191.31	1186.81	1176.81	7.62			1183.69	
MW-26	3/24/2011	1189.22	1191.31	1186.81	1176.81	6.73			1184.58	
MW-26	6/23/2011	1189.22	1191.31	1186.81	1176.81	6.88			1184.43	
MW-26	10/11/2011	1189.22	1191.31	1186.81	1176.81	7.49			1183.82	
MW-26	12/19/2011	1189.22	1191.31	1186.81	1176.81	7.30			1184.01	
MW-26	3/26/2012	1189.22	1191.31	1186.81	1176.81	6.95			1184.36	
MW-26	6/19/2012	1189.22	1191.31	1186.81	1176.81	7.28			1184.03	
MW-26	9/25/2012	1189.22	1191.31	1186.81	1176.81	7.89			1183.42	
MW-26	12/17/2012	1189.22	1191.31	1186.81	1176.81	7.33			1183.98	
MW-26	3/25/2013	1189.22	1191.31	1186.81	1176.81	7.81			1183.50	
MW-26	6/19/2013	1189.22	1191.31	1186.81	1176.81	7.61			1183.70	
MW-26	9/12/2013	1189.22	1191.31	1186.81	1176.81	8.22			1183.09	
MW-26	12/16/2013	1189.22	1191.31	1186.81	1176.81	7.85			1183.46	
MW-26	3/25/2014	1189.22	1191.31	1186.81	1176.81	8.14			1183.17	
MW-26	6/9/2014	1189.22	1191.31	1186.81	1176.81	6.85			1184.46	
MW-26	9/17/2014	1189.22	1191.31	1186.81	1176.81	7.26			1184.05	
MW-26	12/8/2014	1189.22	1191.31	1186.81	1176.81	7.37			1183.94	
MW-26	1/13/2015	1189.22	1191.31	1186.81	1176.81	NC				
MW-26	2/24/2015	1189.22	1191.31	1186.81	1176.81	NC				
MW-26	4/29/2015	1189.22	1191.31	1186.81	1176.81	7.29			1184.02	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-26	6/10/2015	1189.22	1191.31	1186.81	1176.81	7.03			1184.28	
MW-26	7/13/2015	1189.22	1191.31	1186.81	1176.81	NC	NC			
MW-26	7/30/2015	1189.22	1191.31	1186.81	1176.81	NC				
MW-26	8/20/2015	1189.22	1191.31	1186.81	1176.81	NC				
MW-26	9/23/2015	1189.22	1191.31	1186.81	1176.81	7.30			1184.01	
MW-26	11/12/2015	1189.22	1191.31	1186.81	1176.81	NC				
MW-26	12/8/2015	1189.22	1191.31	1186.81	1176.81	7.20			1184.11	
MW-26	1/14/2016	1189.22	1191.31	1186.81	1176.81	NC				
MW-27	02/27/2008	1189.48	1191.76	1185.76	1175.76	8.07			1183.69	
MW-27	03/11/2008	1189.48	1191.76	1185.76	1175.76	7.90			1183.86	
MW-27	03/19/2008	1189.48	1191.76	1185.76	1175.76	8.00			1183.76	
MW-27	03/24/2008	1189.48	1191.76	1185.76	1175.76	7.99			1183.77	
MW-27	04/01/2008	1189.48	1191.76	1185.76	1175.76	7.96			1183.80	
MW-27	04/08/2008	1189.48	1191.76	1185.76	1175.76	4.91			1186.85	
MW-27	04/09/2008	1189.48	1191.76	1185.76	1175.76	6.36			1185.40	
MW-27	04/23/2008	1189.48	1191.76	1185.76	1175.76	6.56			1185.20	
MW-27	05/03/2008	1189.48	1191.76	1185.76	1175.76	6.42			1185.34	
MW-27	06/10/2008	1189.48	1191.76	1185.76	1175.76	7.10			1184.66	
MW-27	08/28/2008	1189.48	1191.76	1185.76	1175.76	7.81			1183.95	
MW-27	12/03/2008	1189.48	1191.76	1185.76	1175.76	7.36			1184.40	
MW-27	03/25/2009	1189.48	1191.76	1185.76	1175.76	7.12			1184.64	
MW-27	06/24/2009	1189.48	1191.76	1185.76	1175.76	8.24			1183.52	
MW-27	9/15/2009	1189.48	1191.76	1185.76	1175.76	8.51			1183.25	
MW-27	12/7/2009	1189.48	1191.76	1185.76	1175.76	8.43			1183.33	
MW-27	12/22/2009	1189.48	1191.76	1185.76	1175.76	8.40			1183.36	
MW-27	1/5/2010	1189.48	1191.76	1185.76	1175.76	8.38			1183.38	
MW-27	2/3/2010	1189.48	1191.76	1185.76	1175.76	8.42			1183.34	
MW-27	3/29/2010	1189.48	1191.76	1185.76	1175.76	7.98			1183.78	
MW-27	6/24/2010	1189.48	1191.76	1185.76	1175.76	7.51			1184.25	
MW-27	7/20/2010	1189.48	1191.76	1185.76	1175.76	7.45			1184.31	
MW-27	9/27/2010	1189.48	1191.76	1185.76	1175.76	6.87			1184.89	
MW-27	12/28/2010	1189.48	1191.76	1185.76	1175.76	7.67			1184.09	
MW-27	3/24/2011	1189.48	1191.76	1185.76	1175.76	6.83			1184.93	
MW-27	6/23/2011	1189.48	1191.76	1185.76	1175.76	6.99			1184.77	
MW-27	10/11/2011	1189.48	1191.76	1185.76	1175.76	7.56			1184.20	
MW-27	12/19/2011	1189.48	1191.76	1185.76	1175.76	7.43			1184.33	
MW-27	3/26/2012	1189.48	1191.76	1185.76	1175.76	7.15			1184.61	
MW-27	6/19/2012	1189.48	1191.76	1185.76	1175.76	7.41			1184.35	
MW-27	7/18/2012	1189.48	1191.76	1185.76	1175.76	7.95			1183.81	
MW-27	9/25/2012	1189.48	1191.76	1185.76	1175.76	7.93			1183.83	
MW-27	12/17/2012	1189.48	1191.76	1185.76	1175.76	7.49			1184.27	
MW-27	3/25/2013	1189.48	1191.76	1185.76	1175.76	8.00			1183.76	
MW-27	6/19/2013	1189.48	1191.76	1185.76	1175.76	7.80			1183.96	
MW-27	9/12/2013	1189.48	1191.76	1185.76	1175.76	7.58			1184.18	
MW-27	12/16/2013	1189.48	1191.76	1185.76	1175.76	8.00			1183.76	
MW-27	3/25/2014	1189.48	1191.76	1185.76	1175.76	8.29			1183.47	
MW-27	6/9/2014	1189.48	1191.76	1185.76	1175.76	7.03			1184.73	
MW-27	9/17/2014	1189.48	1191.76	1185.76	1175.76	7.47			1184.29	
MW-27	12/8/2014	1189.48	1191.76	1185.76	1175.76	7.60			1184.16	
MW-27	1/13/2015	1189.48	1191.76	1185.76	1175.76	NC				
MW-27	2/24/2015	1189.48	1191.76	1185.76	1175.76	NC				
MW-27	4/29/2015	1189.48	1191.76	1185.76	1175.76	7.51			1184.25	
MW-27	6/10/2015	1189.48	1191.76	1185.76	1175.76	7.28			1184.48	
MW-27	7/13/2015	1189.48	1191.76	1185.76	1175.76	NC	NC			
MW-27	7/30/2015	1189.48	1191.76	1185.76	1175.76	NC				
MW-27	8/20/2015	1189.48	1191.76	1185.76	1175.76	NC				
MW-27	9/23/2015	1189.48	1191.76	1185.76	1175.76	7.48			1184.28	
MW-27	10/22/2015	1189.48	1191.76	1185.76	1175.76	NC				
MW-27	11/12/2015	1189.48	1191.76	1185.76	1175.76	NC				
MW-27	12/8/2015	1189.48	1191.76	1185.76	1175.76	7.47			1184.29	
MW-27	1/14/2016	1189.48	1191.76	1185.76	1175.76	NC				
MW-28	3/24/2008	1193.7	1195.89	1189.39	1179.39	11.17			1184.72	
MW-28	4/1/2008	1193.7	1195.89	1189.39	1179.39	10.87			1185.02	
MW-28	4/8/2008	1193.7	1195.89	1189.39	1179.39	8.00			1187.89	
MW-28	4/9/2008	1193.7	1195.89	1189.39	1179.39	8.57			1187.32	
MW-28	4/23/2008	1193.7	1195.89	1189.39	1179.39	9.71			1186.18	
MW-28	5/3/2008	1193.7	1195.89	1189.39	1179.39	9.49			1186.40	
MW-28	6/10/2008	1193.7	1195.89	1189.39	1179.39	11.32			1184.57	
MW-28	8/28/2008	1193.7	1195.89	1189.39	1179.39	10.53			1185.36	
MW-28	12/3/2008	1193.7	1195.89	1189.39	1179.39	10.35			1185.54	
MW-28	3/25/2009	1193.7	1195.89	1189.39	1179.39	10.18			1185.71	
MW-28	6/24/2009	1193.7	1195.89	1189.39	1179.39	11.16			1184.73	
MW-28	9/15/2009	1193.7	1195.89	1189.39	1179.39	11.50			1184.39	
MW-28	12/7/2009	1193.7	1195.89	1189.39	1179.39	11.42			1184.47	
MW-28	3/29/2010	1193.7	1195.89	1189.39	1179.39	10.82			1185.07	
MW-28	6/24/2010	1193.7	1195.89	1189.39	1179.39	10.59			1185.30	
MW-28	9/27/2010	1193.7	1195.89	1189.39	1179.39	9.46			1186.43	
MW-28	12/28/2010	1193.7	1195.89	1189.39	1179.39	10.29			1185.60	
MW-28	3/24/2011	1193.7	1195.89	1189.39	1179.39	9.58			1186.31	
MW-28	6/23/2011	1193.7	1195.89	1189.39	1179.39	9.69			1186.20	
MW-28	10/11/2011	1193.7	1195.89	1189.39	1179.39	10.16			1185.73	
MW-28	12/19/2011	1193.7	1195.89	1189.39	1179.39	10.32			1185.57	
MW-28	3/26/2012	1193.7	1195.89	1189.39	1179.39	9.85			1186.04	
MW-28	6/19/2012	1193.7	1195.89	1189.39	1179.39	10.23			1185.66	
MW-28	9/25/2012	1193.7	1195.89	1189.39	1179.39	10.79			1185.10	
MW-28	12/17/2012	1193.7	1195.89	1189.39	1179.39	10.44			1185.45	
MW-28	3/25/2013	1193.7	1195.89	1189.39	1179.39	10.88			1185.01	
MW-28	6/19/2013	1193.7	1195.89	1189.39	1179.39	10.27			1185.62	
MW-28	9/12/2013	1193.7	1195.89	1189.39	1179.39	11.07			1184.82	
MW-28	12/17/2013	1193.7	1195.89	1189.39	1179.39	10.88			1185.01	
MW-28	3/25/2014	1193.7	1195.89	1189.39	1179.39	11.22			1184.67	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-28	6/9/2014	1193.7	1195.89	1189.39	1179.39	9.73			1186.16	
MW-28	9/17/2014	1193.7	1195.89	1189.39	1179.39	9.93			1185.96	
MW-28	12/8/2014	1193.7	1195.89	1189.39	1179.39	10.25			1185.64	
MW-28	4/29/2015	1193.7	1195.89	1189.39	1179.39	10.10			1185.79	
MW-28	6/10/2015	1193.7	1195.89	1189.39	1179.39	9.82			1186.07	
MW-28	9/23/2015	1193.7	1195.89	1189.39	1179.39	10.13			1185.76	
MW-28	12/8/2015	1193.7	1195.89	1189.39	1179.39	9.91			1185.98	
MW-29	2/27/2008	1188.17	1189.86	1184.86	1174.86	7.00			1182.86	
MW-29	3/11/2008	1188.17	1189.86	1184.86	1174.86	7.02			1182.84	
MW-29	3/19/2008	1188.17	1189.86	1184.86	1174.86	6.68			1183.18	
MW-29	3/24/2008	1188.17	1189.86	1184.86	1174.86	6.98			1182.88	
MW-29	4/1/2008	1188.17	1189.86	1184.86	1174.86	7.74			1182.12	
MW-29	4/8/2008	1188.17	1189.86	1184.86	1174.86	2.29			1187.57	
MW-29	4/9/2008	1188.17	1189.86	1184.86	1174.86	5.85			1184.01	
MW-29	4/23/2008	1188.17	1189.86	1184.86	1174.86	5.99			1183.87	
MW-29	5/3/2008	1188.17	1189.86	1184.86	1174.86	5.63			1184.23	
MW-29	6/10/2008	1188.17	1189.86	1184.86	1174.86	6.51			1183.35	
MW-29	8/28/2008	1188.17	1189.86	1184.86	1174.86	6.94			1182.92	
MW-29	12/3/2008	1188.17	1189.86	1184.86	1174.86	6.33			1183.53	
MW-29	3/25/2009	1188.17	1189.86	1184.86	1174.86	5.99			1183.87	
MW-29	6/24/2009	1188.17	1189.86	1184.86	1174.86	7.33			1182.53	
MW-29	9/15/2009	1188.17	1189.86	1184.86	1174.86	7.57			1182.29	
MW-29	12/7/2009	1188.17	1189.86	1184.86	1174.86	7.45			1182.41	
MW-29	3/29/2010	1188.17	1189.86	1184.86	1174.86	7.11			1182.75	
MW-29	6/24/2010	1188.17	1189.86	1184.86	1174.86	6.22			1183.64	
MW-29	9/27/2010	1188.17	1189.86	1184.86	1174.86	6.25			1183.61	
MW-29	12/28/2010	1188.17	1189.86	1184.86	1174.86	6.90			1182.96	
MW-29	3/24/2011	1188.17	1189.86	1184.86	1174.86	5.94			1183.92	
MW-29	6/23/2011	1188.17	1189.86	1184.86	1174.86	6.18			1183.68	
MW-29	10/11/2011	1188.17	1189.86	1184.86	1174.86	6.69			1183.17	
MW-29	12/19/2011	1188.17	1189.86	1184.86	1174.86	6.51			1183.35	
MW-29	3/26/2012	1188.17	1189.86	1184.86	1174.86	6.26			1183.60	
MW-29	6/19/2012	1188.17	1189.86	1184.86	1174.86	6.42			1183.44	
MW-29	9/25/2012	1188.17	1189.86	1184.86	1174.86	7.03			1182.83	
MW-29	12/17/2012	1188.17	1189.86	1184.86	1174.86	6.48			1183.38	
MW-29	3/25/2013	1188.17	1189.86	1184.86	1174.86	6.99			1182.87	
MW-29	6/19/2013	1188.17	1189.86	1184.86	1174.86	7.05			1182.81	
MW-29	9/12/2013	1188.17	1189.86	1184.86	1174.86	7.50			1182.36	
MW-29	12/16/2013	1188.17	1189.86	1184.86	1174.86	7.15			1182.71	
MW-29	3/25/2014	1188.17	1189.86	1184.86	1174.86	7.41			1182.45	
MW-29	6/9/2014	1188.17	1189.86	1184.86	1174.86	6.23			1183.63	
MW-29	9/17/2014	1188.17	1189.86	1184.86	1174.86	6.66			1183.20	
MW-29	12/8/2014	1188.17	1189.86	1184.86	1174.86	6.75			1183.11	
MW-29	4/29/2015	1188.17	1189.86	1184.86	1174.86	6.72			1183.14	
MW-29	6/10/2015	1188.17	1189.86	1184.86	1174.86	6.50			1183.36	
MW-29	9/23/2015	1188.17	1189.86	1184.86	1174.86	6.70			1183.16	
MW-29	12/8/2015	1188.17	1189.86	1184.86	1174.86	6.62			1183.24	
MW-30	3/24/2008	1187.7	1190.84	1185.84	1175.84	7.82			1183.02	
MW-30	4/1/2008	1187.7	1190.84	1185.84	1175.84	7.62			1183.22	
MW-30	4/8/2008	1187.7	1190.84	1185.84	1175.84	6.18			1184.66	
MW-30	4/9/2008	1187.7	1190.84	1185.84	1175.84	6.45			1184.39	
MW-30	4/23/2008	1187.7	1190.84	1185.84	1175.84	6.66			1184.18	
MW-30	5/3/2008	1187.7	1190.84	1185.84	1175.84	6.40			1184.44	
MW-30	6/10/2008	1187.7	1190.84	1185.84	1175.84	7.25			1183.59	
MW-30	8/28/2008	1187.7	1190.84	1185.84	1175.84	7.87			1182.97	
MW-30	12/3/2008	1187.7	1190.84	1185.84	1175.84	7.22			1183.62	
MW-30	3/25/2009	1187.7	1190.84	1185.84	1175.84	10.81			1180.03	
MW-30	6/24/2009	1187.7	1190.84	1185.84	1175.84	8.22			1182.62	
MW-30	9/15/2009	1187.7	1190.84	1185.84	1175.84	8.45			1182.39	
MW-30	12/7/2009	1187.7	1190.84	1185.84	1175.84	8.32			1182.52	
MW-30	3/29/2010	1187.7	1190.84	1185.84	1175.84	8.00			1182.84	
MW-30	6/24/2010	1187.7	1190.84	1185.84	1175.84	7.11			1183.73	
MW-30	9/27/2010	1187.7	1190.84	1185.84	1175.84	6.98			1183.86	
MW-30	12/28/2010	1187.7	1190.84	1185.84	1175.84	6.81			1184.03	
MW-30	3/24/2011	1187.7	1190.84	1185.84	1175.84	6.64			1184.20	
MW-30	6/23/2011	1187.7	1190.84	1185.84	1175.84	7.02			1183.82	
MW-30	10/11/2011	1187.7	1190.84	1185.84	1175.84	7.61			1183.23	
MW-30	12/19/2011	1187.7	1190.84	1185.84	1175.84	7.43			1183.41	
MW-30	3/26/2012	1187.7	1190.84	1185.84	1175.84	7.12			1183.72	
MW-30	6/19/2012	1187.7	1190.84	1185.84	1175.84	7.34			1183.50	
MW-30	9/25/2012	1187.7	1190.84	1185.84	1175.84	7.97			1182.87	
MW-30	12/17/2012	1187.7	1190.84	1185.84	1175.84	7.36			1183.48	
MW-30	3/25/2013	1187.7	1190.84	1185.84	1175.84	7.90			1182.94	
MW-30	6/19/2013	1187.7	1190.84	1185.84	1175.84	7.91			1182.93	
MW-30	9/12/2013	1187.7	1190.84	1185.84	1175.84	8.33			1182.51	
MW-30	12/16/2013	1187.7	1190.84	1185.84	1175.84	8.00			1182.84	
MW-30	3/25/2014	1187.7	1190.84	1185.84	1175.84	8.28			1182.56	
MW-30	6/9/2014	1187.7	1190.84	1185.84	1175.84	7.11			1183.73	
MW-30	9/17/2014	1187.7	1190.84	1185.84	1175.84	7.51			1183.33	
MW-30	12/8/2014	1187.7	1190.84	1185.84	1175.84	7.59			1183.25	
MW-30	4/29/2015	1187.7	1190.84	1185.84	1175.84	7.60			1183.24	
MW-30	6/10/2015	1187.7	1190.84	1185.84	1175.84	7.36			1183.48	
MW-30	9/23/2015	1187.7	1190.84	1185.84	1175.84	7.53			1183.31	
MW-30	12/8/2015	1187.7	1190.84	1185.84	1175.84	7.52			1183.32	
MW-31	3/24/2008	1222.3	1223.99	1188.49	1178.49	38.67			1185.32	
MW-31	4/1/2008	1222.3	1223.99	1188.49	1178.49	38.50			1185.49	
MW-31	6/10/2008	1222.3	1223.99	1188.49	1178.49	37.51			1186.48	
MW-31	8/28/2008	1222.3	1223.99	1188.49	1178.49	37.94			1186.05	
MW-31	12/3/2008	1222.3	1223.99	1188.49	1178.49	37.70			1186.29	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-31	3/25/2009	1222.3	1223.99	1188.49	1178.49	37.88			1186.11	
MW-31	6/24/2009	1222.3	1223.99	1188.49	1178.49	38.51			1185.48	
MW-31	9/15/2009	1222.3	1223.99	1188.49	1178.49	38.90			1185.09	
MW-31	12/7/2009	1222.3	1223.99	1188.49	1178.49	38.88			1185.11	
MW-31	3/29/2010	1222.3	1223.99	1188.49	1178.49	38.37			1185.62	
MW-31	6/24/2010	1222.3	1223.99	1188.49	1178.49	38.19			1185.80	
MW-31	9/27/2010	1222.3	1223.99	1188.49	1178.49	37.34			1186.65	
MW-31	12/28/2010	1222.3	1223.99	1188.49	1178.49	37.44			1186.55	
MW-31	3/24/2011	1222.3	1223.99	1188.49	1178.49	37.35			1186.64	
MW-31	6/23/2011	1222.3	1223.99	1188.49	1178.49	36.87			1187.12	
MW-31	10/11/2011	1222.3	1223.99	1188.49	1178.49	37.32			1186.67	
MW-31	12/19/2011	1222.3	1223.99	1188.49	1178.49	37.54			1186.45	
MW-31	3/26/2012	1222.3	1223.99	1188.49	1178.49	37.32			1186.67	
MW-31	6/19/2012	1222.3	1223.99	1188.49	1178.49	37.11			1186.88	
MW-31	9/25/2012	1222.3	1223.99	1188.49	1178.49	38.03			1185.96	
MW-31	12/17/2012	1222.3	1223.99	1188.49	1178.49	37.76			1186.23	
MW-31	3/25/2013	1222.3	1223.99	1188.49	1178.49	38.19			1185.80	
MW-31	6/19/2013	1222.3	1223.99	1188.49	1178.49	37.40			1186.59	
MW-31	9/12/2013	1222.3	1223.99	1188.49	1178.49	38.34			1185.65	
MW-31	12/17/2013	1222.3	1223.99	1188.49	1178.49	38.22			1185.77	
MW-31	3/25/2014	1222.3	1223.99	1188.49	1178.49	38.59			1185.40	
MW-31	6/9/2014	1222.3	1223.99	1188.49	1178.49	37.06			1186.93	
MW-31	9/17/2014	1222.3	1223.99	1188.49	1178.49	37.21			1186.78	
MW-31	12/8/2014	1222.3	1223.99	1188.49	1178.49	37.54			1186.45	
MW-31	4/29/2015	1222.3	1223.99	1188.49	1178.49	37.39			1186.60	
MW-31	6/10/2015	1222.3	1223.99	1188.49	1178.49	37.20			1186.79	
MW-31	9/23/2015	1222.3	1223.99	1188.49	1178.49	37.50			1186.49	
MW-31	12/8/2015	1222.3	1223.99	1188.49	1178.49	37.10			1186.89	
MW-32	3/24/2008	1220.5	1222.67	1188.17	1178.17	37.28			1185.39	
MW-32	4/1/2008	1220.5	1222.67	1188.17	1178.17	37.23			1185.44	
MW-32	6/10/2008	1220.5	1222.67	1188.17	1178.17	36.19			1186.48	
MW-32	8/28/2008	1220.5	1222.67	1188.17	1178.17	36.66			1186.01	
MW-32	12/3/2008	1220.5	1222.67	1188.17	1178.17	36.45			1186.22	
MW-32	3/25/2009	1220.5	1222.67	1188.17	1178.17	36.68			1185.99	
MW-32	6/24/2009	1220.5	1222.67	1188.17	1178.17	37.27			1185.40	
MW-32	9/15/2009	1220.5	1222.67	1188.17	1178.17	37.65			1185.02	
MW-32	12/7/2009	1220.5	1222.67	1188.17	1178.17	37.62			1185.05	
MW-32	3/29/2010	1220.5	1222.67	1188.17	1178.17	37.14			1185.53	
MW-32	6/24/2010	1220.5	1222.67	1188.17	1178.17	36.93			1185.74	
MW-32	9/27/2010	1220.5	1222.67	1188.17	1178.17	35.98			1186.69	
MW-32	12/24/2010	1220.5	1222.67	1188.17	1178.17	36.21			1186.46	
MW-32	3/24/2011	1220.5	1222.67	1188.17	1178.17	35.96			1186.71	
MW-32	6/23/2011	1220.5	1222.67	1188.17	1178.17	35.62			1187.05	
MW-32	7/7/2011	1220.5	1222.67	1188.17	1178.17	37.79			1184.88	
MW-32	7/28/2011	1220.5	1222.67	1188.17	1178.17	37.80			1184.87	
MW-32	8/15/2011	1220.5	1222.67	1188.17	1178.17	37.80			1184.87	
MW-32	10/11/2011	1220.5	1222.67	1188.17	1178.17	36.08			1186.59	
MW-32	12/19/2011	1220.5	1222.67	1188.17	1178.17	36.28			1186.39	
MW-32	3/26/2012	1220.5	1222.67	1188.17	1178.17	36.06			1186.61	
MW-32	6/19/2012	1220.5	1222.67	1188.17	1178.17	36.26			1186.41	
MW-32	9/25/2012	1220.5	1222.67	1188.17	1178.17	36.82			1185.85	
MW-32	12/17/2012	1220.5	1222.67	1188.17	1178.17	36.52			1186.15	
MW-32	3/25/2013	1220.5	1222.67	1188.17	1178.17	36.98			1185.69	
MW-32	6/19/2013	1220.5	1222.67	1188.17	1178.17	36.22			1186.45	
MW-32	9/12/2013	1220.5	1222.67	1188.17	1178.17	37.10			1185.57	
MW-32	12/17/2013	1220.5	1222.67	1188.17	1178.17	37.00			1185.67	
MW-32	3/25/2014	1220.5	1222.67	1188.17	1178.17	37.39			1185.28	
MW-32	6/9/2014	1220.5	1222.67	1188.17	1178.17	35.45			1187.22	
MW-32	9/17/2014	1220.5	1222.67	1188.17	1178.17	35.95			1186.72	
MW-32	12/8/2014	1220.5	1222.67	1188.17	1178.17	36.30			1186.37	
MW-32	4/29/2015	1220.5	1222.67	1188.17	1178.17	36.12			1186.55	
MW-32	6/10/2015	1220.5	1222.67	1188.17	1178.17	35.91			1186.76	
MW-32	9/23/2015	1220.5	1222.67	1188.17	1178.17	36.22			1186.45	
MW-32	12/8/2015	1220.5	1222.67	1188.17	1178.17	35.85			1186.82	
MW-33	11/19/2008	1222.94	1224.97	1194.72	1174.72	38.59			1186.38	
MW-33	1/2/2009	1222.94	1224.97	1194.72	1174.72	38.57			1186.40	
MW-33	2/4/2009	1222.94	1224.97	1194.72	1174.72	38.69			1186.28	
MW-33	2/10/2009	1222.94	1224.97	1194.72	1174.72	38.71			1186.26	
MW-33	2/17/2009	1222.94	1224.97	1194.72	1174.72	38.69			1186.28	
MW-33	3/4/2009	1222.94	1224.97	1194.72	1174.72	38.80			1186.17	
MW-33	3/11/2009	1222.94	1224.97	1194.72	1174.72	38.82			1186.15	
MW-33	3/17/2009	1222.94	1224.97	1194.72	1174.72	38.66			1186.31	
MW-33	3/25/2009	1222.94	1224.97	1194.72	1174.72	38.57			1186.40	
MW-33	3/31/2009	1222.94	1224.97	1194.72	1174.72	41.00			1183.97	
MW-33	4/8/2009	1222.94	1224.97	1194.72	1174.72	38.68			1186.29	
MW-33	4/13/2009	1222.94	1224.97	1194.72	1174.72	38.74			1186.23	
MW-33	4/22/2009	1222.94	1224.97	1194.72	1174.72	38.85			1186.12	
MW-33	4/29/2009	1222.94	1224.97	1194.72	1174.72	38.77			1186.20	
MW-33	5/12/2009	1222.94	1224.97	1194.72	1174.72	38.72			1186.25	
MW-33	5/19/2009	1222.94	1224.97	1194.72	1174.72	38.89			1186.08	
MW-33	6/3/2009	1222.94	1224.97	1194.72	1174.72	39.10			1185.87	
MW-33	6/10/2009	1222.94	1224.97	1194.72	1174.72	39.04			1185.93	
MW-33	6/16/2009	1222.94	1224.97	1194.72	1174.72	39.16			1185.81	
MW-33	6/24/2009	1222.94	1224.97	1194.72	1174.72	39.21			1185.76	
MW-33	6/30/2009	1222.94	1224.97	1194.72	1174.72	39.30			1185.67	
MW-33	7/8/2009	1222.94	1224.97	1194.72	1174.72	39.55			1185.42	
MW-33	7/20/2009	1222.94	1224.97	1194.72	1174.72	39.44			1185.53	
MW-33	8/4/2009	1222.94	1224.97	1194.72	1174.72	39.38			1185.59	
MW-33	8/18/2009	1222.94	1224.97	1194.72	1174.72	39.50			1185.47	
MW-33	9/1/2009	1222.94	1224.97	1194.72	1174.72	39.51			1185.46	
MW-33	9/15/2009	1222.94	1224.97	1194.72	1174.72	39.59			1185.38	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-33	9/29/2009	1222.94	1224.97	1194.72	1174.72	39.58			1185.39	
MW-33	10/15/2009	1222.94	1224.97	1194.72	1174.72	39.45			1185.52	
MW-33	10/28/2009	1222.94	1224.97	1194.72	1174.72	39.30			1185.67	
MW-33	11/11/2009	1222.94	1224.97	1194.72	1174.72	39.35			1185.62	
MW-33	12/1/2009	1222.94	1224.97	1194.72	1174.72	38.47			1186.50	
MW-33	12/7/2009	1222.94	1224.97	1194.72	1174.72	39.55			1185.42	
MW-33	12/22/2009	1222.94	1224.97	1194.72	1174.72	39.54			1185.43	
MW-33	1/5/2010	1222.94	1224.97	1194.72	1174.72	39.48			1185.49	
MW-33	1/19/2010	1222.94	1224.97	1194.72	1174.72	39.52			1185.45	
MW-33	2/3/2010	1222.94	1224.97	1194.72	1174.72	39.49			1185.48	
MW-33	2/16/2010	1222.94	1224.97	1194.72	1174.72	39.50			1185.47	
MW-33	3/3/2010	1222.94	1224.97	1194.72	1174.72	39.50			1185.47	
MW-33	3/16/2010	1222.94	1224.97	1194.72	1174.72	38.70			1186.27	
MW-33	3/30/2010	1222.94	1224.97	1194.72	1174.72	38.98			1185.99	
MW-33	4/13/2010	1222.94	1224.97	1194.72	1174.72	39.21			1185.76	
MW-33	4/27/2010	1222.94	1224.97	1194.72	1174.72	39.18			1185.79	
MW-33	5/12/2010	1222.94	1224.97	1194.72	1174.72	39.23			1185.74	
MW-33	5/26/2010	1222.94	1224.97	1194.72	1174.72	39.19			1185.78	
MW-33	6/8/2010	1222.94	1224.97	1194.72	1174.72	39.14			1185.83	
MW-33	6/24/2010	1222.94	1224.97	1194.72	1174.72	38.73			1186.24	
MW-33	7/7/2010	1222.94	1224.97	1194.72	1174.72	38.78			1186.19	
MW-33	7/20/2010	1222.94	1224.97	1194.72	1174.72	38.67			1186.30	
MW-33	8/3/2010	1222.94	1224.97	1194.72	1174.72	38.73			1186.24	
MW-33	8/16/2010	1222.94	1224.97	1194.72	1174.72	38.32			1186.65	
MW-33	8/31/2010	1222.94	1224.97	1194.72	1174.72	38.50			1186.47	
MW-33	9/14/2010	1222.94	1224.97	1194.72	1174.72	38.50			1186.47	
MW-33	9/27/2010	1222.94	1224.97	1194.72	1174.72	37.99			1186.98	
MW-33	10/12/2010	1222.94	1224.97	1194.72	1174.72	38.20			1186.77	
MW-33	10/25/2010	1222.94	1224.97	1194.72	1174.72	38.10			1186.87	
MW-33	11/9/2010	1222.94	1224.97	1194.72	1174.72	37.92			1187.05	
MW-33	11/30/2010	1222.94	1224.97	1194.72	1174.72	37.92			1187.05	
MW-33	12/16/103	1222.94	1224.97	1194.72	1174.72	37.90			1187.07	
MW-33	12/28/2010	1222.94	1224.97	1194.72	1174.72	37.97			1187.00	
MW-33	1/25/2011	1222.94	1224.97	1194.72	1174.72	38.22			1186.75	
MW-33	2/8/2011	1222.94	1224.97	1194.72	1174.72	38.25			1186.72	
MW-33	2/21/2011	1222.94	1224.97	1194.72	1174.72	38.26			1186.71	
MW-33	3/8/2011	1222.94	1224.97	1194.72	1174.72	38.39			1186.58	
MW-33	3/24/2011	1222.94	1224.97	1194.72	1174.72	37.98			1186.99	
MW-33	4/4/2011	1222.94	1224.97	1194.72	1174.72	37.93			1187.04	
MW-33	4/26/2011	1222.94	1224.97	1194.72	1174.72	37.65			1187.32	
MW-33	5/10/2011	1222.94	1224.97	1194.72	1174.72	37.60			1187.37	
MW-33	5/23/2011	1222.94	1224.97	1194.72	1174.72	37.56			1187.41	
MW-33	6/7/2011	1222.94	1224.97	1194.72	1174.72	37.58			1187.39	
MW-33	6/23/2011	1222.94	1224.97	1194.72	1174.72	37.51			1187.46	
MW-33	7/7/2011	1222.94	1224.97	1194.72	1174.72	37.79			1187.18	
MW-33	7/28/2011	1222.94	1224.97	1194.72	1174.72	37.80			1187.17	
MW-33	8/15/2011	1222.94	1224.97	1194.72	1174.72	37.80			1187.17	
MW-33	10/11/2011	1222.94	1224.97	1194.72	1174.72	37.93			1187.04	
MW-33	12/19/2011	1222.94	1224.97	1194.72	1174.72	38.09			1186.88	
MW-33	1/10/2012	1222.94	1224.97	1194.72	1174.72	38.15			1186.82	
MW-33	1/24/2012	1222.94	1224.97	1194.72	1174.72	38.38			1186.59	
MW-33	2/6/2012	1222.94	1224.97	1194.72	1174.72	38.42			1186.55	
MW-33	2/20/2012	1222.94	1224.97	1194.72	1174.72	38.55			1186.42	
MW-33	3/6/2012	1222.94	1224.97	1194.72	1174.72	38.55			1186.42	
MW-33	3/26/2012	1222.94	1224.97	1194.72	1174.72	37.91			1187.06	
MW-33	4/10/2012	1222.94	1224.97	1194.72	1174.72	38.20			1186.77	
MW-33	4/23/2012	1222.94	1224.97	1194.72	1174.72	38.08			1186.89	
MW-33	5/7/2012	1222.94	1224.97	1194.72	1174.72	38.02			1186.95	
MW-33	5/22/2012	1222.94	1224.97	1194.72	1174.72	38.28			1186.69	
MW-33	6/5/2012	1222.94	1224.97	1194.72	1174.72	38.22			1186.75	
MW-33	6/20/2012	1222.94	1224.97	1194.72	1174.72	38.17			1186.80	
MW-33	7/18/2012	1222.94	1224.97	1194.72	1174.72	38.48			1186.49	
MW-33	7/30/2012	1222.94	1224.97	1194.72	1174.72	38.44			1186.53	
MW-33	8/12/2012	1222.94	1224.97	1194.72	1174.72	38.58			1186.39	
MW-33	8/29/2012	1222.94	1224.97	1194.72	1174.72	38.69			1186.28	
MW-33	9/12/2012	1222.94	1224.97	1194.72	1174.72	38.71			1186.26	
MW-33	9/25/2012	1222.94	1224.97	1194.72	1174.72	38.66			1186.31	
MW-33	10/16/2012	1222.94	1224.97	1194.72	1174.72	38.50			1186.47	
MW-33	10/30/2012	1222.94	1224.97	1194.72	1174.72	38.40			1186.57	
MW-33	11/12/2012	1222.94	1224.97	1194.72	1174.72	38.42			1186.55	
MW-33	12/4/2012	1222.94	1224.97	1194.72	1174.72	38.48			1186.49	
MW-33	12/17/2012	1222.94	1224.97	1194.72	1174.72	38.46			1186.51	
MW-33	1/2/2013	1222.94	1224.97	1194.72	1174.72	38.60			1186.37	
MW-33	1/15/2013	1222.94	1224.97	1194.72	1174.72	38.78			1186.19	
MW-33	1/29/2013	1222.94	1224.97	1194.72	1174.72	38.86			1186.11	
MW-33	2/12/2013	1222.94	1224.97	1194.72	1174.72	38.80			1186.17	
MW-33	2/25/2013	1222.94	1224.97	1194.72	1174.72	38.86			1186.11	
MW-33	3/12/2013	1222.94	1224.97	1194.72	1174.72	38.59			1186.38	
MW-33	3/25/2013	1222.94	1224.97	1194.72	1174.72	38.90			1186.07	
MW-33	4/9/2013	1222.94	1224.97	1194.72	1174.72	38.46			1186.51	
MW-33	4/22/2013	1222.94	1224.97	1194.72	1174.72	38.15			1186.82	
MW-33	5/9/2013	1222.94	1224.97	1194.72	1174.72	37.64			1187.33	
MW-33	6/19/2013	1222.94	1224.97	1194.72	1174.72	38.18			1186.79	
MW-33	7/17/2013	1222.94	1224.97	1194.72	1174.72	38.46			1186.51	
MW-33	8/13/2013	1222.94	1224.97	1194.72	1174.72	38.76			1186.21	
MW-33	9/12/2013	1222.94	1224.97	1194.72	1174.72	39.00			1185.97	
MW-33	10/31/2013	1222.94	1224.97	1194.72	1174.72	38.82			1186.15	
MW-33	11/13/2013	1222.94	1224.97	1194.72	1174.72	38.82			1186.15	
MW-33	12/17/2013	1222.94	1224.97	1194.72	1174.72	38.85			1186.12	
MW-33	1/21/2014	1222.94	1224.97	1194.72	1174.72	39.09			1185.88	
MW-33	2/18/2014	1222.94	1224.97	1194.72	1174.72	39.22			1185.75	
MW-33	3/25/2014	1222.94	1224.97	1194.72	1174.72	39.31			1185.66	
MW-33	4/16/2014	1222.94	1224.97	1194.72	1174.72	38.15			1186.82	
MW-33	6/9/2014	1222.94	1224.97	1194.72	1174.72	37.68			1187.29	
MW-33	7/17/2014	1222.94	1224.97	1194.72	1174.72	37.97			1187.00	

Table 2
Ground Water Elevations/Product Thickness
Enbridge Energy MP85
Reichel Road, Town of Murry, Rusk County, Wisconsin
WDNR BRRTS# 02-55-548746

Location	Date	Ground Surface Elevation	Top of Riser Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water (TOR)	Depth to Product	Product Thickness	Ground Water Elevation	Product Elevation
MW-33	8/19/2014	1222.94	1224.97	1194.72	1174.72	38.18			1186.79	
MW-33	9/17/2014	1222.94	1224.97	1194.72	1174.72	37.81			1187.16	
MW-33	10/14/2014	1222.94	1224.97	1194.72	1174.72	38.00			1186.97	
MW-33	11/13/2014	1222.94	1224.97	1194.72	1174.72	38.06			1186.91	
MW-33	12/8/2014	1222.94	1224.97	1194.72	1174.72	38.08			1186.89	
MW-33	1/13/2015	1222.94	1224.97	1194.72	1174.72	38.22			1186.75	
MW-33	2/24/2015	1222.94	1224.97	1194.72	1174.72	38.47			1186.50	
MW-33	4/29/2015	1222.94	1224.97	1194.72	1174.72	38.02			1186.95	
MW-33	6/10/2015	1222.94	1224.97	1194.72	1174.72	37.80			1187.17	
MW-33	7/13/2015	1222.94	1224.97	1194.72	1174.72	37.99			1186.98	
MW-33	7/30/2015	1222.94	1224.97	1194.72	1174.72	38.19			1186.78	
MW-33	8/20/2015	1222.94	1224.97	1194.72	1174.72	38.15			1186.82	
MW-33	9/23/2015	1222.94	1224.97	1194.72	1174.72	38.17			1186.80	
MW-33	11/12/2015	1222.94	1224.97	1194.72	1174.72	37.81			1187.16	
MW-33	12/8/2015	1222.94	1224.97	1194.72	1174.72	37.73			1187.24	
MW-33	1/14/2016	1222.94	1224.97	1194.72	1174.72	37.83			1187.14	
MW-34	11/19/2008	1223.1	1225.14	1197.29	1177.29	38.31			1186.83	
MW-34	12/3/2008	1223.1	1225.14	1197.29	1177.29	38.59			1186.55	
MW-34	1/2/2009	1223.1	1225.14	1197.29	1177.29	38.83			1186.31	
MW-34	2/4/2009	1223.1	1225.14	1197.29	1177.29	38.91			1186.23	
MW-34	2/10/2009	1223.1	1225.14	1197.29	1177.29	38.94			1186.20	
MW-34	2/17/2009	1223.1	1225.14	1197.29	1177.29	38.93			1186.21	
MW-34	3/4/2009	1223.1	1225.14	1197.29	1177.29	39.01			1186.13	
MW-34	3/11/2009	1223.1	1225.14	1197.29	1177.29	39.04			1186.10	
MW-34	3/17/2009	1223.1	1225.14	1197.29	1177.29	38.91			1186.23	
MW-34	3/25/2009	1223.1	1225.14	1197.29	1177.29	38.82			1186.32	
MW-34	3/31/2009	1223.1	1225.14	1197.29	1177.29	38.80			1186.34	
MW-34	4/8/2009	1223.1	1225.14	1197.29	1177.29	38.95			1186.19	
MW-34	4/13/2009	1223.1	1225.14	1197.29	1177.29	39.05			1186.09	
MW-34	4/22/2009	1223.1	1225.14	1197.29	1177.29	36.11			1189.03	
MW-34	4/29/2009	1223.1	1225.14	1197.29	1177.29	39.03			1186.11	
MW-34	5/12/2009	1223.1	1225.14	1197.29	1177.29	38.98			1186.16	
MW-34	5/19/2009	1223.1	1225.14	1197.29	1177.29	39.19			1185.95	
MW-34	6/3/2009	1223.1	1225.14	1197.29	1177.29	39.35			1185.79	
MW-34	6/10/2009	1223.1	1225.14	1197.29	1177.29	39.34			1185.80	
MW-34	6/16/2009	1223.1	1225.14	1197.29	1177.29	39.47			1185.67	
MW-34	6/24/2009	1223.1	1225.14	1197.29	1177.29	39.45			1185.69	
MW-34	6/30/2009	1223.1	1225.14	1197.29	1177.29	39.25			1185.89	
MW-34	7/8/2009	1223.1	1225.14	1197.29	1177.29	39.62			1185.52	
MW-34	7/20/2009	1223.1	1225.14	1197.29	1177.29	39.70			1185.44	

Table 3
Air Sparging Injection Air Pressure and Flow Rates
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

	AS-1		AS-2		AS-3		AS-4		AS-5		AS-6		AS-7		AS-MW-7d		Sparge Blower #1		Sparge Blower #2		Comments
Date	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	
04/08/08	8.5	2.5	8.5	2.5	8.5	2.5	8.5	2.5	8.5	2.5	8.5	2.5	8.5	2.5							
04/15/08	9		9		9		9		9		9		9								
04/21/08	8.5		8.5		8.5		8.5		8.5		8.5		8.5								
04/28/08	8	3	8	3	8	3	8	3	8	3	8	3	8	3							
05/06/08	6.5		6.5		6.5		6.5		6.5		6.5		6.5								
05/22/08	7.5	3	7.5	3	7.5	3	7.5	3	7.5	3	7.5	3	7.5	3							
06/04/08	7	3	7	3	7	3	7	3	7	3	7	3	7	3							
06/27/08	3	2.8	3	2.8	3	2.8	3	2.8	3	2.8	3	2.8	3	2.8							
07/22/08	0	0	0	0	3	5	6	5	8	4	7	2	6	2			--	20	--	23	
07/23/08	0	0	0	0	3	--	4	--	5	--	10	--	8	--			123	12	123	14	
07/30/08	0	0	0	0	3	4	4	4	6	4	9	1	8	1			120	12.5	120	15	
08/05/08	0	0	0	0	3	5	5	5	5	4	9	2	8	3			147	18	136	18	
08/12/08	0	0	0	0	3	4.5	4	4	6	4	10	0.5	8	0.5			145	18	136	18	
08/19/08	0	0	0	0	2	4.5	4	4	6	4	8	1	10	1			150	19	150	18	
08/27/08	0	0	0	0	2	4.5	4	4.5	6	4	10	1	8	2			145	19	128	18	
09/09/08	0	0	0	0	1	4	5	4.2	7	4	10	1	8.5	1.2			154	18	132	17	
09/16/08	0	0	0	0	1	5	3	5	6.5	4	1	1	8.5	1			154	18	132	17	
09/24/08	0	0	0	0	1	4.5	4.5	4.2	7	4	10	1	8.5	2			154	18	141	17	
09/30/08	0	0	0	0	1	4.5	4	4.5	7	4	10	1.5	8.5	1.4			132	19	0	0	
10/06/08	8.5	7	0	0	4	6	0	0	0	0	11	3	0	0			0	0	154	19	
10/14/08	7	3.5	1	3.5	1	5	1	5	6	4	10	1	8	1.5			0	0	158	19	
10/21/08	7	3.5	1	3.5	1	4.75	1	5	6	4	9.5	1.5	8	2			0	0	154	19	
11/04/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	132	18	
11/11/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0			145	20	0	0	
11/19/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	50	145	20	
12/04/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0			150	22	0	0	
12/10/08	0	0	0	0	0	0	0	0	0	0	0	0	0	0			NR	21	0	0	
12/26/08	13.5	5	1	5.5	2	4.5	2	7	1	5	5.5	0	1	5.5			NR	20	0	0	
01/02/09	14	4	1	6	2	4	1	7	1	5	5	0	1.5	5.5			0	0	92	21	
01/09/09	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR			NR	NR	NR	NR	
01/20/09	1	2.5	1	2.5	1	2	1	3	5.5	3.5	11.5	0	7	0			0	0	132	20	
01/27/09	1	1	1	1	1	1	1	2	4	2.5	12	0.5	10	1			NR	22	0	5	
02/04/09	1	1	1	1	1	1	1	1	7.5	2.5	15	1	11	1			0	0	110	28	
02/11/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--			FROZEN	19.5	0	0	
02/17/09	1	1	2	1	2	1	2	2.5	4.5	1	11.5	2.5	10	1			0	0	132	20	
02/27/09	1.5	0	1	0	1	0	0.5	1	4.5	0	11.5	2	10.5	0			123	21	0	0	
03/04/09	3.5	2.5	1	2.5	1	2	1	3	5	0	12.5	3.5	16	2			0	0	136	20	
03/11/09	0	0	0	0	2	3	1	4	5.5	0	13	3.5	16	2.5			123	20	0	0	
03/17/09	5	3	1	3	2	3	1	4	0	0	13.5	3.5	16	2.25			0	0	136	20.5	
03/24/09	5.5	2.5	1.5	2.75	1.5	2.5	1	3.5	1.5	2	13.5	3.5	15.5	2.5			0	0	123	20	
03/31/09	1.2	3	1	3	1	3	1	4	5.5	2.75	12.5	3.5	14.5	3.75			0	0	0	0	
04/08/09	2	3	1	3	1	2.75	1	4.75	5.5	2.5	11.5	3.5	15	2.5			0	0	0	0	
04/13/09	2	3	2	2.25	2	2	2	3	5.5	2	10.5	3.5	16	2.25							
04/22/09	1.5	2	1.5	2	1.5	1	1.5	2.5	5	1.5	11	3	18	1.5			0	0	0	0	
04/29/09	1	2.75	2	2.5	2	2.5	1	3.25	5	2.25	11	3.25	17.25	2			0	0	0	0	
05/12/09	1	2.25	1	2	1.5	1.75	1	2.5	5	1.75	11	3.25	17	1.75			0	0	0	0	
05/19/09	1	2.5	1	2	1	2.25	1.5	3	4.5	2	11	3.25	17.5	2			0	0	0	0	
06/03/09	1	3	1	3	1	2.75	1	3.5	5	2.5	11	3	19	2			0	0	0	0	
06/10/09	2.5	3	2	2.25	1.5	2	1.5	3	6	2	12.5	3.25	11.5	1.75			0	0	0	0	
06/16/09	3	2	1.5	2	1	1.75	1	2.5	5.5	1.75	13	3.5	12.5	1			0	0	0	0	
06/24/09	3	2	1.5	2	1	1.75	1	2.5	5.5	1.75	13	3.5	12.5	1			0	0	0	0	
06/30/09	2	2.5	2	2	1.5	2	1	3	5.5	2	13	3	12.5	2			0	0	0	0	
07/08/09	1	3	2	2.5	1	2	2	3	5.5	2	12.5	3	13	2							
07/20/09	2	1	2	1	1	1	1	2.25	5.5	1.5	13	3	13.5	1							
08/04/09	2	1.5	2	1	1	1	1	2	5.5	1	13	2.5	13.5	1							
08/18/09	2	1.5	1.5	1	2	1	1	2	5	2	13	2	14	1							
09/11/09	11	3	7	3	5	3	1	3	6	2.5	0	0	0	0							
09/15/09	12	2	6	2.5	4	2	1.5	2	6.5	2.5	0	0	0	0							
09/29/09	em down for repair																				
09/30/09	ystem restarted																				
09/30/09	0	0	3	3.1	9	3.5	8.5	4.5	10	4	3	0.5	3	0.5							
10/15/09	6	4	6	4	5	4	5.5	5	6	4	4.5	0.5	6	0.5							
10/28/09	0	0	0	3	9	5	9	5	9	5	3	1	0	0							
11/11/09	0	0	0	4	9	4	9	5	10	4.5	3	1	0	0							
12/01/09	5	3.5	5	4	5	4	5	4.5	5	3.5	5	1	5	0.5							
12/07/09	5	3	5	3.5	5.5	3.5	5	4.5	5	2	5	1	5.5	0.5							
12/22/09	0	1	3	4.5	9	5	9	6	9	4.5	0	0	3	0							
01/05/10	0	0	3	3.5	9	3.5	9	4.5	9	4	0	0	2	0							
01/19/10	0	0	2	4	9	4.5	9	5	9	4.5	0	0	3	0							
02/03/10	0	0	0	0	9	4.5	8.5	5	9	4.5	0	0	0	0							
02/16/10	0	0	0	3	9	5	9	5	9	5	0	0	0	0							
03/03/10	0	0	0	3	9	4	9	4.8	9	4	0	0	0	0							
03/16/10	0	0	5	4.5	5	4.5	4.5	5	5	3	5	1	0	0							
03/29/10	0	0	5	4	5	5	3	5	5	3	0	0	5	1							
04/13/10	0	0	5	4	5	4.5	3	5	5	2.5	0	0	5	0.5							
04/27/10	0	0	5	4	5	4	3	4.5	5	2	0	0	5	0.5							
05/10/10	0		5		5		3		5		0		5								
05/10/10	0		0		0		0		0		0		0								blower off
05/12/10	0		0		0		0		0		0		0								Sparge off at arrival
05/26/10	0		0		0		0		0		0		0								sparge blower still off
06/08/10	0		0		0		0		0		0		0								
06/08/10	0	0	7	4	7	4.5	7	5	7	4.5	0	0	7.5	1							AS restarted 6/3/10
06/24/10	0	0	7	4	7	4	7	4.5	7	4.5	0	0	7	2							
07/07/10	0	0	7	3	7	3	7	3	7	3	0	0	7	0							
07/20/10	0	0	7	4	7	3.5	7	4.5	7	4	0	0	7	0.5							
08/03/10	0	0	7	4	7	3.5	7	4	7	4	0	0	7	0							

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Table 3
Air Sparging Injection Air Pressure and Flow Rates
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

	AS-1		AS-2		AS-3		AS-4		AS-5		AS-6		AS-7		AS-MW-7d		Sparge Blower #1		Sparge Blower #2		Comments
Date	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	
08/12/10	0		7		7		7		7		0		7								
08/12/10	0		0		0		0		0		0		0								down 8/12 to 8/16
08/16/10	0		0		0		0		0		0		0								
08/16/10	0	0	7	5	7	5	7	6	7	5.5	0	0	7	2							AS Restarted
08/31/10	0	0	7	4	7	4	7	4.5	7	4	0	0	7	0							
09/14/10	0	0	6.5	5	6	5	6	5	6.5	5	0	0	6.5	1							
09/27/10	0	0	6	5	6	5	6	5	6	5	0	0	6	1							
10/12/10	5.5	4	5.5	4	5.5	4	5	4.5	5.5	4.5	0	0	0	0							
10/25/10	6	4.5	6	5	6	5	3	5.5	6	5	0	0	0	0							
11/09/10	6	4	6	5	6	5	4	6	6	5	0	0	0	0							
11/30/10	5	5	5	5	5	5.25	5	5.5	5	5	0	0	0	0							
12/16/10	5	5	5	5	5	5.28	5	6	5	5	0	0	0	0							
12/18/10	5		5		5		5		5		0		0								
12/18/10	0		0		0		0		0		0		0								blower off
12/28/10	0		0		0		0		0		0		0								blower down for repair
01/12/11	0		0		0		0		0		0		0								blower repaired
01/12/11	5.5	5	5.5	6	5.5	6	5.5	7	5.5	6	0	0	0	0							AS Restarted
01/25/11	7	4	7	4.5	7	4.5	6.5	5	7	5	0	0	0	0							
02/08/11	6.5	4.5	6	5	6	5.5	4.5	6	6	5.5	0	0	0	0							At arrival
02/08/11	0	0	0	0	6	4.5	6	5.5	6	5	6	2	6	2							Adjusted after restart
02/21/11	0	0	0	0	5.25	5	6.5	5.5	5	5	6	2	6	2							At arrival
02/21/11	0	0	0	0	6	5.5	6	6	6	5.5	6	2	6	2.5							Adjusted after restart
03/08/11	0	0	0	0	5.5	5	5.5	5	5.5	5	6	2	6	1							At arrival
03/08/11	0	0	0	0	6	5.5	6	6.5	6	5.25	6	2	6	2							adjusted upon departure
03/24/11	0	0	0	0	5.5	6	6.5	6.5	5	5.25	5	2.25	5	2.5							At arrival
03/24/11	0	0	0	0	5	6	5	7	5	6	5	8	5	3.5							adjusted upon departure
04/04/11	0	0	0	0	8	5	5	5.5	5	5	4	2	4.5	2							At arrival
04/04/11	0	0	0	0	5	6	5	7	5	6	5	2.5	5	3							adjusted upon departure
04/26/11	0	0	0	0	4	5	6	6	5	5.5	6	2	6	2							At arrival
04/26/11	0	0	0	0	5	6	5	6.5	5	6	5	2	5	2.5							adjusted upon departure
05/10/11	0	0	0	0	5.5	5	5.5	5.5	5	5	5	2	6	1.5							At arrival
05/10/11	0	0	0	0	5	5	5	6	5	5.25	5	2	5	2.5							adjusted upon departure
05/23/11	0	0	0	0	0	0	0	0	0	0	0	0	0	0							OFF at arrival
05/23/11	0	0	0	0	5	6	5	7	65	6	5	2	5	2.5							adjusted upon departure
06/07/11	0	0	0	0	6	4	5	4	5	5	4	1.5	5	0							At arrival
06/07/11	0	0	0	0	5	4.5	5	5.25	5	5	5	1.5	5	1							adjusted upon departure
06/23/11	0	0	0	0	4	6	3	6	5	6	5	2	5	2							At arrival
06/23/11	0	0	0	0	5	6	5	6.25	5	6	5	2	5	2							adjusted upon departure
07/07/11	0	0	0	0	5	5	4	5.25	5	5.25	5	1	5	1							At arrival
07/07/11	0	0	0	0	5	5	5	5.5	5	5.28	5	1.5	8	10							adjusted upon departure
07/28/11	0	0	0	0	5	4.5	5	5	5	5	5	1	5	0							At arrival
07/28/11	0	0	0	0	7	5	7	6	7	6	7	2	7	2							adjusted upon departure
08/15/11	0	0	0	0	6	4	5	5	5	5	7.5	2	8	1							At arrival
08/15/11	0	0	0	0	0	0	0	0	0	0	0	0	0	0							Shut down for TEST.
01/10/12	5	4	5	4	5	3	5	3	5	3	5	2.5	5	0.5							System restarted
01/10/12	5	4	5	4	5	4	5	4	5	4	5	4	5	4							adjusted upon departure
01/24/12	5	3	4	3	4	3	6	3	5	3	5	2	5	0							At arrival
01/24/12	5	3	5	4	5	3	5	3	5	3	5	2	5	0							adjusted upon departure
02/06/12	5	3.5	5	4	5	3	4	3	5	3	5	2	5	0							At arrival
02/06/12	5	4.5	4	5.0	5	4.0	5	4.0	5	4.0	5	2.0	5	1.0							adjusted upon departure
02/20/12	4	4	5	4	5	3.5	4	3.5	5	3	5	1.5	5	1							At arrival
02/20/12	5	5	4	5	5	5	4.5	5	5.5	4	5	1	5	1							adjusted upon departure
03/06/12	5	3	4.5	3.5	5.0	3.0	4.0	3.0	5.0	3.0	4.0	1.0	5.0	0.5							At arrival
03/06/12	5	5	5	5	5	4.75	4	4.5	5	4.0	5	1.0	5	1.0							adjusted upon departure
03/26/12	5.0	3	5.0	3.5	5.0	3.0	4.0	3.0	4.5	3.0	4.0	1.0	5.0	0.5							At arrival
03/26/12	5.0	4.5	5.0	4.75	5.0	4.5	4.0	4.0	5.0	4.0	5.0	2.0	5.0	2.0							adjusted upon departure
04/10/12	5	4	4	4	5.5	4	3	4	5	3	5	2	5.25	1							At arrival
04/10/12	5	5.0	5	5.5	5	5.0	4	5.0	5	4.0	5	2.0	5	3.0							adjusted upon departure
04/23/12	4	4	4	4	5	3	3.5	3	4.5	3	5	2	5	1.5							At arrival
04/23/12	5	5	5	5	4	5	5	5	5	4	5	2	5	3							adjusted upon departure
05/07/12	5.5	4	5	4	4	3	2	3.5	4.5	3	4.5	2	5	2							At arrival
05/07/12	4	4.5	4	5	4	4.5	3	4	4	4	5	2.5	5	3							adjusted upon departure
05/22/12	4	4	4	4	3	4	2	4	5	4.0	6	1.5	6	1.0							At arrival
05/22/12	0	0	0	0	5	4.5	5	5	5	5.0	5	2.0	5	2.0							adjusted upon departure
06/05/12	0	0	0	0	8.5	6	12	6	2	0.0	2	0	2	1.0							At arrival
06/05/12	5	5	5	5	4	5	4	4	0	0.0	5	2.0	0	0							adjusted upon departure
06/19/12	6	4	4	4.5	4	3	3	3	5	4.5	0	0	6	2							At arrival
06/19/12	5	4	5	4.5	5	3	5	3	5	4.5	0	0	5	2							adjusted upon departure
07/03/12	5	5	5	4	4	4	5	4	4	6	0	0	6	0							At arrival
07/03/12	5	4	5	4	5	3	3	4	3	5	0	0	5	0							adjusted upon departure
07/12/12	ystem was off based on hour meter reading																				
07/18/12																					AS down at arrival
07/30/12	repaired and restarted.																				At arrival
07/30/12	6	5	6	5	6	5	6	5	6	5	0	0	6	2							adjusted upon departure
08/12/12	10	4	0	4	13	3	0	0	0	0	7	1	0	0							At arrival
08/12/12	5	5	5	5	5	4	5	5	0	0	5	5	0	0							adjusted upon departure
08/29/12	6	4	6	4	5	2	5	3	0	0	6	1	0	0							At arrival
08/29/12	6	4	6	4	5	2	5	3	0	0	6	1	0	0							adjusted upon departure
09/12/12	6.5	4	6.5	4	5.5	3	5.0	4	0	0	5.5	5	0	0							At arrival
09/12/12	6.5	4	6.5	4	5.5	3	5.0	4	0	0	5.5	5	0	0							adjusted upon departure
09/25/12	6	4	6	4	5	3.5	5	4	0	0	5.5	5.5	0	0							At arrival
09/25/12	6	4	6	4	5	3.5	5	4	0	0	5.5	5.5	0	0							adjusted upon departure

Table 3
Air Sparging Injection Air Pressure and Flow Rates
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

	AS-1		AS-2		AS-3		AS-4		AS-5		AS-6		AS-7		AS-MW-7d		Sparge Blower #1		Sparge Blower #2		Comments
Date	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	Flow Rate (scfm)	Pressure (psi)	
10/16/12	6	4.5	6	4.5	6	4.0	6	5.0	0	0	6	0.5	0	0							At arrival
10/16/12	5	5.0	5	5.0	5	5.0	5	5.25	0	0	6	1.0	0	0							adjusted upon departure
10/30/12	5	5	5	4	6	4	6	5	0	0	6	0	0	0							At arrival
10/30/12	5	5	5	4	6	4	6	5	0	0	6	0	0	0							adjusted upon departure
11/12/12	5	5	5	4.5	5.5	4	6	5	0	0	6	1	0	0							At arrival
11/12/12	5	5	5	4.5	5.5	4	6	5	0	0	6	1	0	0							adjusted upon departure
12/04/12	5.5	6	5.0	6	5.5	6	6.0	7	0	0.5	6.0	0	0	1.5							At arrival
12/04/12	5.5	6	5.0	6	5.5	6	6.0	7	0	0	6.0	0	0	1.0							adjusted upon departure
12/17/12	0	0	6	6	0	0	7	6	7	5	0	0	7	2							At arrival
12/17/12	5.0	6	5.5	6	6	5.5	6	5.5	5	5.0	0	0	5	2							adjusted upon departure
01/02/13	5	5	4	5	6	4	4	5	4.5	4	0	0	5	1							At arrival
01/02/13	6	5	6	5	6	4	6	5.25	6	4.5	0	0	6	1							adjusted upon departure
01/15/13	7	5	6	4	5	4	6	5.5	0	0	5	0	0	0.5							At arrival
01/15/13	5	5	5	4.5	5	4.0	5	5.5	0	0	5	0	0	0.5							adjusted upon departure
01/29/13	5.5	4	5.5	4	5.0	3	5.0	5	0	0	5.0	0	0	0							At arrival
01/29/13	5.5	4	5.5	4	5.0	3	5.0	5	0	0	5.0	0	0	0							adjusted upon departure
02/12/13	5.5	5	5.5	5	5.5	4	5	5	0	0	5	0	0	0							At arrival
02/12/13	5.5	5	5.5	5	5.5	4	5	5	0	0	5	0	0	0							adjusted upon departure
02/25/13	7	5	7	5.5	7	4.75	7	6	0	1	7	5	0	1							At arrival
02/25/13	7	5	7	5	7	4	7	6	0	0	7	0	0	1							adjusted upon departure
03/12/13	6	4.5	5	4.5	5	4	6	5.5	5.5	4.5	0	0	7	1							At arrival
03/12/13	6	5	6	5.5	6	5.5	6	5	6	5	0	0	6	1							adjusted upon departure
03/25/13	6	4	7	4	8	3	3	5	4.5	4	0	0	6	0							At arrival
03/25/13	6	5	6	5	6	4	6	6	6	5	0	0	6	0							adjusted upon departure
04/09/13	5	4	5	4	5	3	6	5	5	4.5	0	0	5	2							At arrival
04/09/13	5	5	5	5	5	4	5	6	5	5	0	1	5	2.5							adjusted upon departure
04/22/13	5	5	5	5	6	3.5	5	5	0	2	10	3	0	2							At arrival
04/22/13	6	5	6	5	6	3.5	6	5	0	2	6	3	0	2							adjusted upon departure
05/09/13	7	5	6	5	6	4	6	5	0	2	6	2	0	2							At arrival
05/09/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0							System Turned Off
02/26/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0							System restarted
02/26/14	5	4	5	5	5	4	5	3	5	3	5	0	5	1							adjusted upon departure
03/25/14	5	3.5	5	4	4	3	5	2	5	2.5	4	0	5	0							At arrival
03/25/14	5	3.5	5	4.5	5	3.5	5	2.5	5	2.5	5	0	5	0							adjusted upon departure
04/16/14	5	4	5	4.5	4	3	5	3	5	3	4	1	5	1							At arrival
04/16/14	5	4.5	5	4.5	5	3.5	5	3	5	3	5	1	5	1							adjusted upon departure
05/15/14	5	4	4	4.5	4	3	4	3	5	3	4	2	5	2							At arrival
05/15/14	5	4	4.5	4.5	5	3	5	3	5	3	5	2	5	2							adjusted upon departure
06/09/14	5	4	4	4	4	3	4	4	2	4	5	1	1	1							At arrival
06/09/14	5	4	5	4	5	3	4	4	3	4	5	1	5	1							adjusted upon departure
6/11/14 12:00 PM															20	1					At arrival
6/11/14 12:45 PM															20	1					
6/11/14 1:45 PM							7	4	7	4					20	1					
6/11/14 1:45 PM							7	4	7	4					20	1					adjusted upon departure
07/17/14							6	3.5	6	4.0					20	0.5					At arrival
08/19/14							4	5	5	4					22	0.5					At arrival
08/19/14							4	5	5	4					22	0.5					adjusted upon departure
09/16/14							5	5	4	5					20	0.5					At arrival
09/16/14							5	5	4	5					20	0.5					adjusted upon departure
10/14/14							2	5	5	5					18	0					At arrival
10/14/14							5	5	5	5					17	0					adjusted upon departure
11/13/14							4	6	4	6					18	0					At arrival
11/13/14							3	6	4	6					20	0					adjusted upon departure
12/11/14							0	0	0	0					20	23					Repair and restart
12/11/14							0	0	5	5					20	20					adjusted upon departure
01/13/15							0	0	5	6					20	18					At arrival
01/13/15							5	5	5	6					20	15					adjusted upon departure
02/24/15							4	5	4	5					14	12					At arrival
02/24/15							5	5	5	5					15	11					adjusted upon departure
06/10/15									8	5					20	20					At arrival
06/10/15									8	5					20	20					adjusted upon departure
07/13/15									7	5					18	18					At arrival
07/13/15					5	10	5	2	5	8					20	12					adjusted upon departure
07/30/15					5	10	5	2	4	8					20	12					At arrival
07/30/15					5	10	5	2					5	5	20	12					adjusted upon departure
08/20/15	0	0	0	0					0	0											At arrival
08/20/15	0	0	0	0	5	10	5	1	0	0			5	5	20	4					adjusted upon departure
09/23/15	0	0	0	0	4	10	5	1	0	0			5	5	20	4					At arrival
09/23/15	0	0	0	0	5	9	5	1	0	0			5	5	20	4					adjusted upon departure
10/22/15	0	0	0	0	5	7	5	0	0	0			5	3	20	10					At arrival
10/22/15	0	0	0	0	5	7	5	0	0	0			5	3	20	10					adjusted upon departure
11/12/15	0	0	0	0	5	9	5	2	0	0			5	6	20	10					At arrival
11/12/15	0	0	0	0	5	9	5	2	0	0			5	6	20	10					adjusted upon departure
12/07/15	0	0	0	0	5	7	4	1	0	0			5	4	20	7					At arrival
12/07/15	0	0	0	0	5	7	4	1	0	0			5	4	20	7					adjusted upon departure

Notes:
Air sparge points AS-1 to AS-7 are part of the source area AS/SVE system.
Air Sparge Blowers #1 and #2 service the supplemental air sparge lines 1, 2 and 3.
Pressure and flow rates denoted as "--" indicates no data recorded.
Pressure and flow rates denoted as "0" indicate the sparge well is off-line
NR Not readable/No reading.

4/14/2016 1:54 PM
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Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
SVE #1	2/6/2008	100	0	14	150				
	3/12/2008	38	16.6	3.7	274		11	1.27%	
	3/19/2008	3	19.6	2	22		10	356	
	4/21/2008	0	20.1	0.5	67.1			197	
	5/6/2008	0	20.2	0.6	42.5		0	212	
	5/22/2008	0	19.6	0.8	76		27	310	
	6/27/2008	0	14.8	0.7	43.1			88	
	7/22/2008	0	18.8	1.1	70.4		26	NM	
	7/23/2008						26		
	7/30/2008	0	18	2	14.3		26	45	
	8/5/2008	0	17.9	2.2	17.5		28	95	
	8/12/2008	0	18.2	2.3	29		28	126	
	8/19/2008	0	18.2	2.3	25		28	170	
	8/27/2008	0	18.1	2.4	12		28	58	
	9/9/2008	0	18.1	2	1		26.5		
	9/16/2008	0	18.2	2	143		9.5		
	9/24/2008	0	19.2	0	14		10		
	9/30/2008	0	19.3	0	181		10		
	10/6/2008	0	19.8	1.16	52		15		
	10/14/2008	0	18.9	2.05	57.8		10		
	10/21/2008	0	18.6	2.2	193		10		
	11/4/2008	0	18.8	1.76	105		13		
	11/11/2008	0	18.5	2.2	13		12.5		
	11/19/2008	0	18.7	1.9	0		13		
	12/4/2008	0	17.4	2.3	10		12		
	12/10/2008	0	17.1	2.3	0		10		
	1/2/2009	0.07	13.8	4.6	5		23		
	1/20/2009						24		
	1/27/2009	0	18.5	2	0		26		
	2/4/2009								CLOSED
	2/17/2009								CLOSED
	2/27/2009								CLOSED
	3/4/2009								CLOSED
	3/11/2009								CLOSED
	3/17/2009								CLOSED
	3/24/2009								CLOSED
	3/31/2009	0	19.9	0.9	1		15		
	4/8/2009								CLOSED
	4/13/2009								CLOSED
	4/22/2009								CLOSED
	4/29/2009								CLOSED
	5/12/2009	0	19.6	0.95	0		15		
	5/19/2009	0	19.4	1.22	0.7		14		
	6/3/2009	0	16.6	2.25	16.7		13		
	6/10/2009	0	18.6	1.7	11		13		
	6/16/2009	0	18.3	20.5	22		12		
	6/24/2009	0	18.1	2.25	15		13		
	6/30/2009	0	18.2	2.2	7		8		
	7/8/2009	0	17.5	2.65	27		8		
	7/20/2009	0	17.9	2.7	23		8		
	8/4/2009	0	18.4	2.65	26		8		
	8/18/2009	0	18	2.8	46		7		
	9/11/2009	0	17	3.25	84		10		
	9/15/2009	0	17.7	3.05	80		9		
	9/29/2009	0	18.1	2.85	17		10		
	10/15/2009	0	18.5	2.5	11		11		
	10/28/2009	0	18	2.4	9.9		12		
	11/11/2009	0	18.4	2.2	3.6		12		
	12/1/2009	0	18	1.81	270		9		
	12/7/2009	0	19.2	1.54	4		17		
	12/22/2009	0	18.3	2.35	8		18		
	1/5/2010	0	18.2	2.25	8		22		
	1/19/2010	0	18.3	2.2	6		22		
	2/3/2010	0	18.1	2.3	6		23		
	2/16/2010	0	18.3	2.2	16		20		
	3/3/2010	0	18.1	2.28	10		23		
	3/16/2010	0	19.1	1.26	3		23		
	3/29/2010	0	19	1.26	1.6		20		
	4/13/2010	0	19	1.24	3.9		18		
	4/27/2010	0	18.9	1.24	2		0		closed
	5/12/2010	0	20	0.64	0		0-12		Opened for readings only
	5/26/2010	0	19.5	1.12	21		0-13		Opened for readings only
	6/8/2010	0	19.5	1.1	31		0-13		Opened for readings only
	6/24/2010	0	19.2	1.28	18		0-15		Opened for readings only
	7/7/2010	0	19.2	1.32	21		14-0		Opened for readings only
	7/20/2010	0	19.2	1.26	13		13-0		Opened for readings only
	8/3/2010	0	19.1	1.36	24		0-12-17		Opened for readings only
	8/16/2010	0	18.8	1.92	10		15		
	8/31/2010	0	18.9	1.46	0		16		
	9/14/2010	0	19	1.48	0		17		
	9/27/2010	0	18.5	1.14	0		17		
	10/12/2010	0	18.6	1.48	0		18		
	10/25/2010	0	18.8	1.48	0		19		
	11/9/2010	0	19	1.32	0		20		
	11/30/2010	0	19	1.22	0		24		
	12/16/2010	0	18.9	1.18	0		26		
	12/28/2010	0	19.2	1.14	0		25		
	1/12/2011	0	17.3	1.4	0		21		
	1/25/2011	0	19.1	1.16	0		23		
	2/8/2011	0	17.8	1.22	0		23		
	2/21/2011	0	19.1	1.3	0		22		
	3/8/2011	0	19.4	1.22	0		22		
	3/24/2011	0	19.5	1.18	0		23		
	4/4/2011	0	19.1	1.18	0		22		
	4/26/2011	0	19.7	0.79	0		15		
	5/10/2011	0	19.1	1.12	0		20		
	5/23/2011	0	19.5	1.04	0		16		
	6/7/2011	0	19.3	1.16	0		15		
	6/23/2011	0	18.9	1.34	0		15		
	7/7/2011	0	18.9	1.44	0		13		
	7/28/2011	0	18.4	2.05	0		14		
	8/15/2011	0	18.7	1.98	0		0		
	1/10/2012	0	8.4	6.20	1.6		6.5		Approximately 50% dilution. Restarted system at 11:30. Collected readings after 30 min of start up.
	1/10/2012	0	7.8	6.80	3.8		7		Collected 2 hrs after system start up
	1/10/2012	0	8.4	6.20	6.1		10		Collected after 1 hr of full operation
	1/24/2012	0	18.3	2.45	4.9		25		
	2/6/2012	0	18.7	2.15	0		25		
	2/20/2012	0	19.2	1.66	0		25		
	3/6/2012	0	1.91	1.36	0		23		
	3/26/2012	0	19.3	1.24	0		18		

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
	4/10/2012	0	19.2	1.16	0		18		
	4/23/2012	0	19.4	1.06	0		17		
	5/7/2012	0	19.2	1.10	0.3		15		
	5/22/2012	0	19.3	1.06	0		14		
	6/5/2012	0	19	1.06	0		12.5		
	6/19/2012	0	18.9	1.32	0		13		
	7/3/2012	0	18.9	1.38	0		10		
	7/18/2012	0	18.9	1.46	0		13		
	7/30/2012	0	18.7	1.62	0		13		
	8/12/2012	0	18.6	1.68	0		13		
	8/29/2012	0	18.6	1.82	0		12		
	9/11/2012	0	18.8	1.78	0		12		
	9/25/2012	0	19.0	1.50	0.4		13		
	10/16/2012	0	19.0	1.48	0.1		12		
	10/30/2012	0	19.2	1.38	0		12		
	11/12/2012	0	19.2	1.34	0		12.5		System shutdown upon departure.
	12/4/2012	0	19.6	0.93	0		12		
	12/17/2012	0	19.4	1.24	0		18		
	1/2/2013	0	19.6	1.12	0		26		
	1/15/2013	0	19.6	1.10	0		24		
	1/29/2013	0	19.2	1.02	0		22		
	2/12/2013	0	19.6	1.06	0.2		22		
	2/25/2013	0	19.8	0.96	0		22		
	3/12/2013	0.0	19.7	1.10	0.0		25		
	3/25/2013	0	19.7	1.18	0		25 (upon arrival)/26 (after adjustments)		
	4/9/2013	0	19.8	1.06	0		26		
	4/22/2013	0	19.9	1.08	0		22 (upon arrival) / 21 (after adjustments)		
	5/9/2013	0	19.5	1.06	0		22		
	2/26/14 12:00 PM	--	--	--	--		--		Frozen Line
	2/26/14 2:00 PM	--	--	--	--		--		Frozen Line
	2/26/14 3:30 PM	--	--	--	--		--		Frozen SVE Line
	3/25/2014	0.69	20.8	0.07	5.0		-5		
	4/16/2014	0	20.8	0.00	0		5		
	5/15/2014	0	20.8	0.00	0		8		Sticky gauge
	6/9/2014	0	20.9	0	0		8		
	7/17/2014								OFF
	8/19/2014								OFF
	9/16/2014								OFF
	10/14/2014								OFF
	11/13/2014								OFF
	12/11/2014								Closed
	1/13/2015								Closed
	2/24/2015								Closed
	6/10/2015								System is off
	7/13/2015								System is off
	7/30/2015								System is off
	8/20/2015								System is off
	9/23/2015								System is off
	10/22/2015								System is off
	11/12/2015								System is off
	12/7/2015								System is off
	1/14/2016								System is off
	2/6/2008	100	4.1	12.1	128.6				
	3/12/2008	80	14.9	4.6	168		12	4.50%	
	3/19/2008	64	19	1.9	247		11	17500	
	4/21/2008	0	18.8	1.2	61.2			188	
	5/6/2008	0	18.7	1.6	83.7		0	431	
	5/22/2008	0	18.9	1.7	70		27	310	
	6/27/2008	0	17.2	1.1	53.9			119	
	7/22/2008	0	19.3	1.3	56		10	NM	
	7/23/2008						10		
	7/30/2008	0	18.6	1.2	160		9	445	
	8/5/2008	0	18.5	2	174		10	614	
	8/12/2008	0	18.5	2	118		10	552	
	8/19/2008	0	18.4	2	165		10	516	
	8/27/2008	0	18.5	1.9	102		10	440	
	9/9/2008	0	20.2	1	2		10		
	9/16/2008	0	18.1	2	120		9.5		
	9/24/2008	0	19.2	0	13.5		10		
	9/30/2008	0	19.1	0	131		10		
	10/6/2008	0	19.2	1.68	43.6		15		
	10/14/2008	0	19	1.88	44		10		
	10/21/2008	0	18.9	1.9	77		10		
	11/4/2008	0	18.3	2.1	166		11		
	11/11/2008	0	18.3	2.35	14		11.5		
	11/19/2008	0	18.2	2.2	0.9		11		
	12/4/2008	0	17.4	2.2	0		11		
	12/10/2008	0	17.8	1.82	0		10		
	1/2/2009	0	14.8	4	14		20		
	1/20/2009						24		
	1/27/2009	0	17.5	2.6	1		25		
	2/4/2009								CLOSED
	2/17/2009								CLOSED
	2/27/2009								CLOSED
	3/4/2009								CLOSED
	3/11/2009								CLOSED
	3/17/2009								CLOSED
	3/24/2009								CLOSED
	3/31/2009	0	20	1.04	1.9		11		
	4/8/2009								CLOSED
	4/13/2009								CLOSED
	4/22/2009								CLOSED
	4/29/2009								CLOSED
	5/12/2009	0	19.8	1	8.3		10.5		
	5/19/2009	0	18	1.88	1.7		12		
	6/3/2009	0	16.2	2.25	27.7		10		
	6/10/2009	0	17.2	2.55	21		10		
	6/16/2009	0	17.2	2.55	33		10		
	6/24/2009	0	16.9	2.9	32		10		
	6/30/2009	0	17.5	2.65	23		7.5		
	7/8/2009	0.06	17.8	2.32	41		7		
	7/20/2009	0.06	16.8	3.15	57		7.5		
	8/4/2009	0.07	15.8	3.75	63		8		
	8/18/2009	0.07	16.5	3.45	82		8		
	9/11/2009	0	16.7	3.05	84		10		
	9/15/2009	0.07	16.8	3.4	120		10		
	9/29/2009	0	17.6	2.7	58		10		
	10/15/2009	0	17.4	2.8	30		10		
	10/28/2009	0.06	17.4	2.75	23.1		11		
	11/11/2009	0	17.6	2.5	23.9		11		
	12/1/2009	0	17.9	2.15	24		9		
	12/7/2009	0	18	2.5	29		16		

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
SVE #2	12/22/2009	0	18.6	1.96	18		19		
	1/5/2010	0	18.9	1.68	18		23		
	1/19/2010	0	18.9	1.7	10		23		
	2/3/2010	0	18.5	1.88	15		23		
	2/16/2010	0	18.6	1.81	25		20		
	3/3/2010	0	18.4	1.84	19		22		
	3/16/2010	0	19.4	1.04	9.9		23		
	3/29/2010	0	19.4	1.04	7.2		19		
	4/13/2040	0	19.4	1.04	8.6		18		
	4/27/2010	0	18.8	1.34	3		0		closed
	5/12/2010	0	19.9	0.55	0		0-11		Opened for readings only
	5/26/2010	0	19	1.26	16		0-11		Opened for readings only
	6/8/2010	0	18.8	1.28	20		0-11		Opened for readings only
	6/24/2010	0	19	1.28	15		0-12		Opened for readings only
	7/7/2010	0	19	1.3	18		10-0		Opened for readings only
	7/20/2010	0	19.3	1.14	11		11-0		Opened for readings only
	8/3/2010	0	19.1	1.2	17		0-12		Opened for readings only
	8/16/2010	0	19.2	1.08	24		10-0		Opened for readings only
	8/31/2010	0	19.6	0.93	23		10-0		Opened for readings only
	9/14/2010	0	19.6	0.89	20		10-0		Opened for readings only
	9/27/2010	0	19.3	0.87	13		10-0		
	10/12/2010	0	19.7	0.8	9		0-10-0		Opened for measurement
	10/25/2010	0	19.6	0.85	6		0-10-0		Opened for measurement
	11/9/2010	0	19.9	0.81	6		11-0		Opened for measurement
	11/30/2010	0	19.6	0.76	3.9		14-0		Opened for measurement
	12/16/2010	0	19.8	0.66	4		14-0		Opened for measurement
	12/28/2010	0	19.9	0.6	2.3		15-0		
	1/12/2011	0	19.1	0.55	0		22		Open upon arrival
	1/25/2011	0	19.6	0.91	1.5		20		
	2/8/2011	0	18.3	0.87	0.7		18		
	2/21/2011	0	19.7	0.96	0		19		
	3/8/2011	0	19.8	0.87	0		19		
	3/24/2011	0	20.2	0.72	0		20		
	4/4/2011	0	20	0.71	0		20		
	4/26/2011	0	20	0.7	0		15		
	5/10/2011	0	20	0.65	0		18		
	5/23/2011	0	19.8	0.84	0		13		
	6/7/2011	0	19.7	0.86	0		12		
	6/23/2011	0	19.6	0.87	0.1		13		
	7/7/2011	0	19.5	0.99	0		11		
	7/28/2011	0	19.5	1.04	0		11		
	8/15/2011	0	19.4	1.2	0		0		
	1/10/2012	0	11.9	4.00	1.8		7		Approximately 50% dilution. Restarted system at 11:30. Collected readings after 30 min of start up.
	1/10/2012	0	12.4	4.30	3.6		7		Collected 2 hrs after system start up
	1/10/2012	0	12.6	3.55	5.0		9		Collected after 1 hr of full operation
	1/24/2012	0	19.0	1.44	4.6		22		
	2/6/2012	0	19.1	1.30	0		23		
	2/20/2012	0	19.4	1.18	0		22		
	3/6/2012	0	19.3	1.10	0.1		20		
	3/26/2012	0	20.0	0.78	0		16		
	4/10/2012	0	20.0	0.78	0		16		
	4/23/2012	0	20	0.78	0		15		
	5/7/2012	0	19.8	0.86	0.3		12		
	5/22/2012	0	19.7	0.86	0		11		
	6/5/2012	0	19.7	0.83	0		10		
	6/19/2012	0	20.0	0.90	0		11		
	7/3/2012	0	19.6	1.08	0		11		
	7/18/2012	0	19.7	1.02	0		11		
	7/30/2012	0	19.5	1.12	0		10		
	8/12/2012	0	19.5	1.10	0		10		
	8/29/2012	0	19.4	1.22	0		10		
	9/11/2012	0	19.5	1.26	0		10		
	9/25/2012	0	19.5	1.18	0.6		10		
	10/16/2012	0	19.6	1.12	0		10		
	10/30/2012	0	19.9	1.14	0		10		
	11/12/2012	0	20.0	1.06	0		10		System shutdown upon departure.
	12/4/2012	0	20.1	0.74	0		10		
	12/17/2012	0	20.1	0.99	0		19		
	1/2/2013	0	20.3	0.76	0		25		
	1/15/2013	0	20.3	0.68	0		25		
	1/29/2013	0	19.8	0.64	0		20		
	2/12/2013	0	20.2	0.63	0.2		18		
	2/25/2013	0	20.2	0.61	0		19		
	3/12/2013	0.0	20.2	0.61	0.0		20 (upon arrival)/21 (after adjustments)		
	3/25/2013	0	20.3	0.58	0		20		
	4/9/2013	0	20.4	0.51	0.3		21		
	4/22/2013	0	20.5	0.41	0		20		
	5/9/2013	0	20.2	0.47	0		19		
	2/26/14 12:00 PM	0	14.2	3.15	0		11		
	2/26/14 2:00 PM	0	12.7	3.70	0.6		12		
	2/26/14 3:30 PM	0	12.1	4.05	5.0		12		
	3/25/2014	1.35	19.7	0.97	5.8		-22		
	4/16/2014	0	20.0	0.80	0		24		
	5/15/2014	0	19.9	0.84	0		19		
	6/9/2014	0	20.0	0.86	0		14		
	7/17/2014								OFF
	8/19/2014								OFF
	9/16/2014								OFF
	10/14/2014								OFF
	11/13/2014								OFF
	12/11/14 8:00 AM								Closed
	1/13/15 11:30 AM								Closed
	2/24/15 11:30 AM								Closed
	6/10/15 10:00 AM								System is off
	7/13/15 2:30 PM								System is off
	7/30/15 8:30 AM								System is off
	8/20/15 11:15 AM								System is off
	9/23/15 12:00 PM								System is off
	10/22/15 12:00 PM								System is off
	11/12/15 12:00 PM								System is off
	12/7/2015								System is off
	1/14/2016								System is off
	2/6/2008	100	2.4	11.9	133				
	3/12/2008	100	13.6	5.9	67		11	6%	
	3/19/2008	100	19	1.8	134		11	30900	
	3/26/2008	33	19	1.7	160		27	12600	
	4/1/2008	23	19	1.4			29	9050	
	4/8/2008	21	19.6	1.2	642		30	11300	
	4/21/2008	9	19.5	1.1	546			5789	
	5/6/2008	0	19.5	1.2	137		0	1101	
	5/22/2008	0	19.6	1.4	64		10	197	
	6/27/2008	0	17.6	0.9	87.7			300	
	7/22/2008	0	20.2	1	43		10	NM	
	7/23/2008						10		
	7/30/2008	2	19.8	1.1	210		9	1038	
	8/5/2008	5	19.7	1.4	230		10	1392	
	8/12/2008	2	19.8	1.4	124		10	907	
	8/19/2008	0	19.8	1.2	170		10	880	
	8/27/2008	0	19.7	1.3	224		10	1472	
	9/9/2008	0	20.2	1	2		10		
	9/16/2008	0	18.3	1	109		10		
	9/24/2008	0	18.9	1	43		10		
	9/30/2008	0	20.1	0	138		10		

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
SVE #3	10/6/2008	0	20	1.1	43.6		15		
	10/14/2008	0	20.2	0.94	47		10		
	10/21/2008	0	20.1	0.93	79		10		
	11/4/2008	0	19.8	0.98	118		11		
	11/11/2008	0	19.9	1.2	18		12		
	11/19/2008	0	19.9	1.12	3.2		11		
	12/4/2008	0	19.5	1.02	6		10		
	12/10/2008	0	19.1	0.91	0		10		
	1/2/2009	0.14	18.7	1.42	50		20		
	1/20/2009						24		
	1/27/2009	0	20.2	0.84	7		25		
	2/4/2009								CLOSED
	2/17/2009								CLOSED
	2/27/2009								CLOSED
	3/4/2009								CLOSED
	3/11/2009								CLOSED
	3/17/2009								CLOSED
	3/24/2009								CLOSED
	3/31/2009	0	20.5	0.38	10		11		
	4/8/2009								CLOSED
	4/13/2009								CLOSED
	4/22/2009								CLOSED
	4/29/2009								CLOSED
	5/12/2009	0	20.4	0.42	8.3		12		
	5/19/2009	0	20.2	0.66	4.4		13		
	6/3/2009	0.05	19.6	0.65	68.3		11		
	6/10/2009	0	19.3	1.38	55		11		
	6/16/2009	0	19.2	1.42	78		11		
	6/24/2009	0	18.4	2.19	9		10		
	6/30/2009	0	19	1.54	58		8		
	7/8/2009	0.19	18.3	1.72	61		8		
	7/20/2009	0.12	18.7	1.82	122		8		
	8/4/2009	0.12	18.4	1.92	121		7.5		
	8/18/2009	0.17	18.1	2.5	180		8		
	9/11/2009	0.2	17.6	2.45	293		10		
	9/15/2009	0.15	19.1	1.92	262		10		
	9/29/2009	0.08	18.9	1.72	118		10		
	10/15/2009	0.06	19.5	1.38	64		10		
	10/28/2009	0.06	19.1	1.34	53.7		11		
	11/11/2009	0.06	19.4	1.14	59.1		12		
	12/1/2009	0.07	18.2	1.68	94		10		
	12/7/2009	0	19.2	1.68	72		16		
	12/22/2009	0	19.8	0.94	47		20		
	1/5/2010	0	20.2	0.5	41		22		
	1/19/2010	0	20.3	0.55	26		20		
	2/3/2010	0	20.1	0.57	34		23		
	2/16/2010	0	20.3	0.62	70		21		
	3/3/2010	0	20.1	0.6	59		23		
	3/16/2010	0	20.4	0.5	37		23		
	3/29/2010	0	20.5	0.43	24.6		20		
	4/13/2010	0	20.1	0.6	9.3		17		
	4/27/2010	0	20.4	0.65	33		0		closed
	5/12/2010	0	20.5	0.19	1		0-12		Opened for readings only
	5/26/2010	0	19.9	0.68	24		0-11		Opened for readings only
	6/8/2010	0	19.8	0.64	21		0-13		Opened for readings only
	6/24/2010	0	19.9	0.68	16		0-12		Opened for readings only
	7/7/2010	0	19.8	0.73	14		12-0		Opened for readings only
	7/20/2010	0	20.1	0.58	11		12-0		Opened for readings only
	8/3/2010	0	20	0.62	16		0-12		Opened for readings only
	8/16/2010	0	19.8	0.71	21		10-0		Opened for readings only
	8/31/2010	0	20.3	0.4	14		12-0		Opened for readings only
	9/14/2010	0	20.4	0.22	15		12-0		Opened for readings only
	9/27/2010	0	19.9	0.39	9		12-0		
	10/12/2010	0	20.6	0.14	7		0-12-0		Opened for measurement
	10/25/2010	0	20.2	0.44	5		0-12-0		opened for measurement
	11/9/2010	0	20.5	0.19	8		12-0		opened for measurement
	11/30/2010	0	20.2	0.26	5.5		15-0		opened for measurement
	12/16/2010	0	20.1	0.29	3.9		15-0		Opened for measurement
	12/28/2010	0	20.4	0.09	24		16-0		
	1/12/2011	0	19.9	0.4	1.5		20		Open upon arrival
	1/25/2011	0	20.4	0.22	5.7		22		
	2/8/2011	0	19.1	0.19	3.4		21		Before system changes
	2/8/2011	0	19.1	0.18	6.4				After system changes
	2/21/2011	0	20.4	0.2	2.1		24		
	3/8/2011	0	20.5	0.2	5.3		22		
	3/24/2011	0	20.6	0.24	1.8		22		
	4/4/2011	0	20.6	0.2	0.8		21		
	4/26/2011	0	20.6	0.26	0		15		
	5/10/2011	0	20.5	0.21	0		18		
	5/23/2011	0	20.5	0.28	0		13		
	6/7/2011	0	20.4	0.41	0		12		
	6/23/2011	0	20	0.46	0.2		12		
	7/7/2011	0	20	0.56	0		11		
	7/28/2011	0	19.8	0.74	0		11		
	8/15/2011	0	19.8	0.94	0		0		
	1/10/2012	0	17.2	1.44	1.5		6		Approximately 50% dilution. Restarted system at 11:30. Collected readings after 30 min of start up.
	1/10/2012	0	16.5	1.68	3.9		8		Collected 2 hrs after system start up
	1/10/2012	0	16.7	1.88	4.0		9		Collected after 1 hr of full operation
	1/24/2012	0	20.1	0.59	0.5		21		
	2/6/2012	0	20.3	0.46	0		23		
	2/20/2012	0	20.4	0.49	0		22		
	3/6/2012	0	20.3	0.53	0.6		20		
	3/26/2012	0	20.5	0.37	0		17		
	4/10/2012	0	20.5	0.41	0		17		
	4/23/2012	0	20.5	0.41	0		15		
	5/7/2012	0	20.5	0.42	0.6		13		
	5/22/2012	0	20.3	0.48	0		13		
	6/5/2012	0	20	0.56	0		8		
	6/19/2012	0	20.4	0	0		10		
	7/3/2012	0	20.1	0.66	0		11		
	7/18/2012	0	20.0	0.72	0		11		
	7/30/2012	0	20.0	0.77	0		11		
	8/12/2012	0	20.3	0.55	0		10		
	8/29/2012	0	20.2	0.65	0		10		
	9/11/2012	0	20.2	0.66	0		10		
	9/25/2012	0	20.2	0.60	0.6		10		
	10/16/2012	0	20.0	0.57	0.1		10		
	10/30/2012	0	20.4	0.55	0		10		
	11/12/2012	0	20.4	0.52	0		10.5		System shutdown upon departure.
	12/4/2012	0	20.2	0.47	0		10		
	12/17/2012	0	20.3	0.58	0		19		
	1/2/2013	0	20.6	0.38	0		19		
	1/15/2013	0	20.5	0.35	0		19		
	1/29/2013	0	20.2	0.25	0.1		19		
	2/12/2013	0	20.4	0.29	0.5		19		
	2/25/2013	0	20.2	0.48	0		17		
	3/12/2013	0.0	20.4	0.41	0.1		18		
	3/25/2013	0	20.4	0.38	0.1		18		
	4/9/2013		20.4	0.38	0		17		
	4/22/2013	0	20.5	0.33	0.2		10		
	5/9/2013	0	20.3	0.26	0		13		
	2/26/14 12:00 PM	0	4.8	5.20	0		10		
	2/26/14 2:00 PM	0	4.8	5.70	1.0		10		

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
	2/26/14 3:30 PM	0	5.6	4.45	7.6		10		
	3/25/2014	1.75	19.5	1.10	6.5		-21		
	4/16/2014	0	20.5	0.35	0		26		
	5/15/2014	0	20.5	0.33	0		18		
	6/9/2014	0	20.5	0.50	0		9		
	7/17/2014								OFF
	8/19/2014								OFF
	9/16/2014								OFF
	10/14/2014								OFF
	11/13/2014								OFF
	12/11/14 8:00 AM								CLOSED
	1/13/15 11:30 AM								CLOSED
	2/24/15 11:30 AM								CLOSED
	6/10/15 10:00 AM								System is off
	7/13/15 2:30 PM								System is off
	7/30/15 8:30 AM								System is off
	8/20/15 11:15 AM								System is off
	9/23/15 12:00 PM								System is off
	10/22/15 12:00 PM								System is off
	11/12/15 12:00 PM								System is off
	12/7/2015								System is off
	1/14/2016								System is off
	2/6/2008	100	13	2.1	182				
	2/27/2008	100	15.5	1.7	56		30		
	2/28/2008	100	15	2.2	53		30		
	2/29/2008	100	15.9	1.9	54		30		
	3/6/2008	100	16.2	3	5		34	43100	
	3/12/2008	63	17.6	1.7	79		12	3.74%	
	3/19/2008	95	19.6	1.4	144		11	23600	
	3/26/2008	25	19.3	1.5	163		29	7790	
	4/1/2008	22	19.2	1.3			30	8613	
	4/8/2008	23	19.7	1.3	557		32	11100	
	4/15/2008						39		
	4/21/2008	3	19.9	0.8	391		40	2219	
	5/6/2008	0	20.5	0.5	47.2		0	232	
	5/22/2008	0	20.5	0.5	61		11	168	
	6/27/2008	0	18	0.3	79.3			208	
	7/22/2008	0	20.6	0.6	48		10	NM	
	7/23/2008						9		
	7/30/2008	0	20.2	0.8	15.8		9	36	
	8/5/2008	0	20.1	0.9	26		10	76	
	8/12/2008	0	20	1	29		10	53	
	8/19/2008	0	20.2	1	28		10	81	
	8/27/2008	0	20	1	54		10	172	
	9/9/2008	0	20.7	1	2		10		
	9/16/2008	0	18.5	2	101		10		
	9/24/2008	0	20.3	1	57		10		
	9/30/2008	0	20.3	0	136		10		
	10/14/2008	0	20.3	0.76	49.3				
	10/21/2008	0	20.2	0.86	77		10		
	11/4/2008	0	20.3	0.65	133		12		
	11/11/2008	0	20.5	0.78	21		11.5		
	11/19/2008	0	20.4	0.7	8.2		12		
	12/4/2008	0	20	0.76	20		11		
	12/10/2008	0	20.3	0.71	11		10		
	1/2/2009	0.08	20.3	0.78	56		20		
	1/20/2009						24		
	1/27/2008	0	20.3	0.72	15		26		
	2/4/2009	0.05	20.2	0.74	90		32		
	2/17/2009	0	20.4	0.71	9		24		
	2/27/2009	0.03	20.2	0.73	8		28		
	3/4/2009	0	20.5	0.58	6.4		28		
	3/11/2009	0	20.7	0.27	2.6		26		
	3/17/2009								CLOSED
	3/24/2009								CLOSED
	3/31/2009	0	20.4	0.49	11.6		15		
	4/8/2009								CLOSED
	4/13/2009								CLOSED
	4/22/2009								CLOSED
	4/29/2009								CLOSED
	5/12/2009	0	20.4	0.6	20.5		15		
	5/19/2009	0	20.3	0.64	7.4		15		
	6/3/2009	0.09	20.2	0.62	90.2		10		
	6/10/2009	0.09	20.3	0.6	84		10		
	6/16/2009	0.1	20.4	0.62	106		10		
	6/24/2009	0.09	20.3	0.61	100		10		
	6/30/2009	0	20.1	0.61	102		7.5		
	7/8/2009	0.76	19.9	0.62	300		7		
	7/20/2009	0.32	20.3	0.59	237		7		
	8/4/2009	0.26	20.3	0.72	231		8		
	8/18/2009	0.25	20.3	0.75	272		8		
	9/11/2009	0.43	19.6	0.98	518		10		
	9/15/2009	0.34	20	0.87	502		10		
	9/29/2009	0.13	20.1	0.93	249		10		
	10/15/2009	0.1	20.4	0.8	130		10		
	10/28/2009	0.07	19.8	0.6	211		11		
	11/11/2009	0.09	20	0.78	106		11		
	12/1/2009	0.23	19.6	0.98	280		10		
	12/7/2009	0.08	20.3	0.8	141		15		
	12/22/2009	0.07	20.3	0.67	146		19		
	1/5/2010	0.06	20.3	0.72	119		21		
	1/19/2010	0	20.5	0.67	77		21		
	2/3/2010	0	20.4	0.6	97		22		
	2/16/2010	0	20.6	0.55	110		20		
	3/3/2010	0	20.3	0.58	95		22		
	3/16/2010	0	20.6	0.48	74		21		
	3/29/2010	0	20.6	0.38	90		19		
	4/13/2010	0	20.6	0.34	68		17		
	4/27/2010	0	20.5	0.31	73		28		
	5/12/2010	0.05	20.4	0.41	79		23		
	5/26/2010	0	20.5	0.44	78		21		
	6/8/2010	0	20.2	0.52	44		22		
	1/0/1900	0	20.2	0.52	16		23		
	7/7/2010	0	20.3	0.53	15		22		
SVE #4	7/20/2010	0	20.2	0.47	16		21		
	8/3/2010	0	20.2	0.5	18		16		
	8/16/2010	0	19.9	0.5	24		15		
	8/31/2010	0	20.1	0.57	17		15		
	9/14/2010	0	20	0.6	27		16		
	9/27/2010	0	19.7	0.65	7		17		
	10/12/2010	0	19.9	0.77	1		18		
	10/25/2010	0	20.1	0.72	19		19		
	11/9/2010	0	20.2	0.65	14		20		
	11/30/2010	0	20.2	0.6	0.3		24		
	12/16/2010	0	20.2	0.54	0.8		26		
	12/28/2010	0	20.2	0.6	0.1		26		
	1/12/2011	0	19.9	0.52	1.1		21		
	1/25/2011	0	20.4	0.41	17		21		
	2/8/2011	0	19	0.35	10.2		20		Before system changes
	2/8/2011	0	19	0.36	12.7				After system changes

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
	2/21/2011	0	20.4	0.34	4.5		22		
	3/8/2011	0	20.4	0.37	5.5		21		
	3/24/2011	0	20.4	0.4	2.2		22		
	4/4/2011	0	20.5	0.35	0.7		21		
	4/26/2011	0	20.5	0.35	0		15		
	5/10/2011	0	20.4	0.34	0		18		
	5/23/2011	0	20.5	0.34	0		14		
	6/7/2011	0	20.4	0.43	0		13		
	6/23/2011	0	20	0.48	0.3		13		
	7/7/2011	0	20.2	0.46	0		12		
	7/28/2011	0	19.5	0.76	0		12		
	8/15/2011	0	19.5	1.14	0		0		
	1/10/2012	0	18.8	1.40	1.8		7		Approximately 50% dilution. Restarted system at 11:30. Collected readings after 30 min of start up.
	1/10/2012	0	18.8	1.42	3.6		7		Collected 2 hrs after system start up
	1/10/2012	0	19.0	1.36	5.3		9		Collected after 1 hr of full operation
	1/24/2012	0	19.8	0.92	1.0		21		
	2/6/2012	0	20.0	0.78	0.3		21		
	2/20/2012	0	20.2	0.68	0		20		
	3/6/2012	0	20.3	0.61	2.4		18		
	3/26/2012	0	20.5	0.46	0.8		16		
	4/10/2012	0	20.5	0.38	0.5		16		
	4/23/2012	0	20.6	0.33	0		14		
	5/7/2012	0	20.6	0.30	1.1		13		
	5/22/2012	0	20.5	0.29	0.1		12		
	6/5/2012	0	20.3	0.39	0		11		
	6/19/2012	0	20.5	0.34	0		12		
	7/3/2012	0	20.4	0.34	0		11		
	7/18/2012	0	20.2	0.47	0		11		
	7/30/2012	0	20.0	0.61	0		11		
	8/12/2012	0	19.8	0.73	0.6		11 (upon arrival) / 10 (after adjustments)		
	8/29/2012	0	20.3	0.60	0.5		10		
	9/11/2012	0	20.3	0.63	0.2		10		
	9/25/2012	0	20.3	0.62	0.8		10		
	10/16/2012	0	20.1	0.58	0.2		10		
	10/30/2012	0	20.4	0.57	0.1		10		
	11/12/2012	0	20.5	0.54	0		10.5		System shutdown upon departure.
	12/4/2012	0	20.4	0.50	0		10		
	12/17/2012	0	20.4	0.58	0		18		
	1/2/2013	0	20.4	0.56	0		22		
	1/15/2013	0	20.5	0.49	0		25		
	1/29/2013	0	20.0	0.38	0.5		20		
	2/12/2013	0	20.4	0.42	0.7		21		
	2/25/2013	0	20.5	0.40	0		20		
	3/12/2013								CLOSED
	3/25/2013								OFF
	4/9/2013								CLOSED
	4/22/2013								CLOSED
	5/9/2013								CLOSED/OFF
	2/26/14 12:00 PM	0	9.9	3.35	0		12		
	2/26/14 2:00 PM	0	10.4	2.90	3.0		13		
	2/26/14 3:30 PM	0.09	10.1	2.95	10.5		13		
	3/25/2014	1.85	19.7	0.89	8.0		-29		
	4/16/2014	0	20.5	0.47	0		25		
	5/15/2014	0	20.5	0.39	0		21		
	6/9/2014	0	20.5	0.36	0		14		
	7/17/2014								OFF
	8/19/2014								OFF
	9/16/2014								OFF
	10/14/2014								OFF
	11/13/2014								OFF
	12/11/14 8:00 AM								CLOSED
	1/13/15 11:30 AM	0	20.5	0.33			50 after opening		Opened/Turned on
	2/24/15 11:30 AM	0	20.4	0.26	0		38		closed/opened
	6/10/15 10:00 AM								System is off
	7/13/15 2:30 PM								System is off
	7/30/15 8:30 AM								System is off
	8/20/15 11:15 AM								System is off
	9/23/15 12:00 PM								System is off
	10/22/15 12:00 PM								System is off
	11/12/15 12:00 PM								System is off
	12/7/2015								System is off
	1/14/2016								System is off
	1/17/2008	75	17.8	1.4	460		31		
	1/17/2008	63	17.1	1.4	139		nm		
	1/18/2008	69	18	1.4	325		29		
	1/19/2008	68	17.2	1.6	430	82.2	29		
	1/19/2008	69	17.6	1.6	344	80.8	29		
	1/20/2008	61	18	1.6	365	80.4	31		
	1/20/2008	66	17.9	1.6	337	80.4	30		
	1/23/2008	72	17.7	1.7	252	80.6	35		
	1/24/2008	78	17.5	1.7	305		46		
	1/31/2008	86	16.3	1.8	1636		45		
	2/6/2008	100	16.9	2	108		34		
	2/27/2008	92	16.8	2.1	54		30		
	2/28/2008	100	17.5	2	124		30		
	2/29/2008	100	17.2	1.9	96		30		
	3/6/2008	24	18.3	1.7	49		32	11200	
	3/12/2008	16	18.1	1.9	121		12	6661	
	3/19/2008	12	19.7	1.1	260		11	2360	
	4/21/2008	0	20.4	0.7	184			1085	
	5/6/2008	0	20.6	0.5	74.5		0	695	
	5/22/2008	0	20.7	0.5	167		10	950	
	6/27/2008	0	18.2	0.3	81			282	
	7/22/2008	0	20.7	0.3	95		10	NM	
	7/23/2008						9		
	7/30/2008	0	20.4	0.5	224		9	1040	
	8/5/2008	3	20.4	0.5	206		10	1128	
	8/12/2008	0	20.3	0.6	105		10	664	
	8/19/2008	0	20.5	0.5	126		10	615	
	8/27/2008	0	20.4	0.5	189		9.5	1106	
	9/9/2008	0	20.2	0	1.3		10		
	9/16/2008	0	18.5	1	97		9.5		
	9/24/2008	0	20.4	0	31		10		
	9/30/2008	0	20.4	0	125		10		
	10/14/2008	0	20.4	0.61	41		10		
	10/21/2008	0	20.3	0.78	72		10		
	11/4/2008	0	20.4	0.61	138		11		
	11/11/2008	0	20.4	0.78	18		11		
	11/19/2008	0	20.4	0.71	4		12		
	12/4/2008	0.05	19.9	0.76	11		10		
	12/10/2008	0	20.2	0.72	9		10		
	1/2/2009	0.08	20.3	0.78	54		20		
	1/20/2009						24		
	1/27/2009	0	20.3	0.84	15		25		
	2/4/2009	0.05	20.2	0.85	75		32		
	2/17/2009	0	20.4	0.75	15		22		
	2/27/2009	0.05	20.2	0.75	14		26		
	3/4/2009	0	20.5	0.54	10.1		26		
	3/11/2009	0	20.7	0.18	8		24		
	3/17/2009								CLOSED
	3/24/2009								CLOSED
	3/31/2009	0	20.5	0.33	5.8		12		

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
SVE #5	4/8/2009								CLOSED
	4/13/2009								CLOSED
	4/22/2009								CLOSED
	4/29/2009								CLOSED
	5/12/2009	0	20.5	0.31	15.3		12		
	5/19/2009	0	20.6	0.38	7.2		13		
	6/3/2009	0.06	20.5	0.27	65		11		
	6/10/2009	0.07	20.4	0.46	66		11		
	6/16/2009	0.06	20.4	0.51	86		11		
	6/24/2009	0	20.3	0.57	69		11		
	6/30/2009	0.13	20.4	0.47	102		7.5		
	7/8/2009	0.76	19.9	0.62	300		7		
	7/20/2009	0.32	20.3	0.59	237		7		
	8/4/2009	0.17	20.3	0.59	168		8		
	8/18/2009	0.18	20.7	0.71	232		8		
	9/11/2009	0.34	19.9	0.84	447		10		
	9/15/2009	0.27	20.1	0.84	467		10		
	9/29/2009	0.11	20.2	0.78	249		10		
	10/15/2009	0.1	20.5	0.67	144		11		
	10/28/2009	0.13	20.1	0.69	182		12		
	11/11/2009	0.09	20.1	0.85	117		10		
	12/1/2009	0.2	19.9	0.72	249		10		
	12/7/2009	0.09	20.4	0.74	177		15		
	12/22/2009	0.07	20.5	0.62	153		18		
	1/5/2010	0.06	20.6	0.56	93		20		
	1/19/2010	0	20.7	0.46	92		22		
	2/3/2010	0	20.7	0.3	76		23		
	2/16/2010	0	20.8	0.2	90		19		
	3/3/2010	0	20.4	0.26	75		21		
	3/16/2010	0	20.7	0.34	70.1		22		
	3/29/2010	0	20.6	0.29	78.6		20		
	4/13/2010	0	20.6	0.28	66		18		
	4/27/2010	0	20.6	0.26	54		29		
	5/12/2010	0	20.4	0.28	60		23		
	5/26/2010	0	20.7	0.26	47		21		
	6/8/2010	0	20.4	0.31	54		22		
	6/24/2010	0	20.4	0.32	32		23		
	7/7/2010	0	20.3	0.46	17		23		
	7/20/2010	0	19.9	0.58	12		21		
	8/3/2010	0	19.6	0.62	26		16		
	8/16/2010	0	19.5	0.84	28		15		
	8/31/2010	0	19.9	0.79	20		15		
	9/14/2010	0	19.9	0.83	25		16		
	9/27/2010	0	19.7	0.81	7		18		
	10/12/2010	0	20.1	0.83	2.5		18		
	10/25/2010	0	20.4	0.71	12		19		
	11/9/2010	0	20.4	0.66	11		20		
	11/30/2010	0	20.3	0.57	0.8		24		
	12/16/2010	0	20.3	0.51	0.5		26		
	12/28/2010	0	20.3	0.49	0		27		
	1/12/2011	0	19.9	0.42	0.7		21		
	1/25/2011	0	20.3	0.41	11		21		
	2/8/2011	0	19	0.42	8.6		22		Before system changes
	2/8/2011	0	19	0.4	11.6				After system changes
	2/21/2011	0	20.4	0.36	2.8		20		
	3/8/2011	0	20.4	0.37	5.5		21		
	3/24/2011	0	20.5	0.32	1.8		23		
	4/4/2011	0	20.6	0.28	0.5		21		
	4/26/2011	0	20.6	0.31	0		16		
	5/10/2011	0	20.5	0.22	0		18		
	5/23/2011	0	20.5	0.28	0		15		
	6/7/2011	0	20.3	0.3	0		12		
	6/23/2011	0	19.9	0.44	0		14		
	7/7/2011	0	19.9	0.57	0		12		
	7/28/2011	0	20	0.63	0		12		
	8/15/2011	0	19.6	1.06	0		0		
	1/10/2012	0	19.1	1.14	1.8		7		Approximately 50% dilution. Restarted system at 11:30. Collected readings after 30 min of start up.
	1/10/2012	0	19.1	1.14	3.9		7		Collected 2 hrs after system start up
	1/10/2012	0	19.3	1.10	4.7		9		Collected after 1 hr of full operation
	1/24/2012	0	19.5	1.06	1.2		22		
	2/6/2012	0	19.9	0.89	0.8		22		
	2/20/2012	0	20.3	0.75	0.2		21		
	3/6/2012	0	20.4	0.66	3.0		20		
	3/26/2012	0	20.3	0.75	1.0		16		
	4/10/2012	0	20.3	0.65	1.0		18		
	4/23/2012	0	20.4	0.60	0.2		15		
	5/7/2012	0	20.4	0.53	1.3		13		
	5/22/2012	0	20.3	0.47	0.3		12		
	6/5/2012	0	20	0.56	0.0		11		
	6/19/2012	0	20.4	0.54	0.3		11		
	7/3/2012	0	20.1	0.52	0.1		10		
	7/18/2012	0	20.0	0.63	0		11		
	7/30/2012	0	19.8	0.79	0		11		
	8/12/2012	0	19.7	0.85	0.8		11 (upon arrival) / 10 (after adjustments)		
	8/29/2012	0	19.9	0.89	1.3		10		
	9/11/2012	0	19.8	0.92	0.5		10		
	9/25/2012	0	19.9	0.92	0.4		10		
	10/16/2012	0	19.8	0.88	0.5		10		
	10/30/2012	0	20.1	0.90	0.3		10		
	11/12/2012	0	20.2	0.84	0		11		System shutdown upon departure.
	12/4/2012	0	20.0	0.75	0		10		
	12/17/2012	0	20.3	0.74	0		17		
	1/2/2013	0	20.4	0.62	0.1		19		
	1/15/2013	0	20.4	0.58	0.3		19		
	1/29/2013	0	20.0	0.52	1.0		20		
	2/12/2013	0	20.4	0.51	1.1		20		
	2/25/2013	0	20.5	0.48	0.1		17		
	3/12/2013								CLOSED
	3/25/2013								OFF
	4/9/2013								CLOSED
	4/22/2013								CLOSED
	5/9/2013								CLOSED/OFF
	2/26/14 12:00 PM	0	13.6	2.75	0.3		9		
	2/26/14 2:00 PM	0.08	13.7	2.75	4.1		8		
	2/26/14 3:30 PM	0.07	13.9	2.70	11.7		8		
	3/25/2014	1.80	19.8	0.79	8.4		-21		
	4/16/2014	0	20.4	0.65	0		25		
	5/15/2014	0	20.5	0.44	0		19		
	6/9/2014	0	20.4	0.42	0		10		
	6/11/14 11:00 AM	0	20.4	0.40	0				Pilot start up SVE only. Sucking H2O.
	6/11/14 12:00 PM	0	20.6	0.23	38.5		25V		Pilot study restart at 12:00.
	6/11/14 12:45 PM	0	20.9	0.05	45		25V		7d spurge with points open after 30 min.
	6/11/14 1:45 PM	0	20.5	0.31	22		25		Final reading before departure.
	7/17/2014	0	20.2	0.49	3.3		25		
	8/19/2014	0	20.0	0.75	1.9		9		
	9/16/2014	0	19.7	0.95	0		20		
	10/14/2014	0	20.1	0.93	0.3		30		
	11/13/2014	0	20.3	0.79	0		27		
	12/11/14 8:00 AM	0	20.4	0.66	0		43		
	12/11/14 10:45 AM	0	20.4	0.66	0		42		
	1/13/15 11:30 AM	0	20.4	0.47	0		48		
	2/24/15 11:30 AM	0	20.6	0.46	0		38		
	6/10/15 10:00 AM								System is off

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
	7/13/15 2:30 PM								System is off
	7/30/15 8:30 AM								System is off
	8/20/15 11:15 AM								System is off
	9/23/15 12:00 PM								System is off
	10/22/15 12:00 PM								System is off
	11/12/15 12:00 PM								System is off
	12/7/2015								System is off
	1/14/2016								System is off
SVE #6	2/6/2008	100	9.7	4.9	118.5				
	2/27/2008	100	10.7	6.8	53		30		
	2/28/2008	100	9.8	7.6	89		30		
	2/29/2008	100	9.1	8.1	57		30		
	3/6/2008	100	11.9	6.7	35		32	12200	
	3/12/2008	100	16.2	3.4	134		12	11%	
	3/19/2008	26	20.3	0.5	111		11	4275	
	4/21/2008	20	20.3	0.6	484			10200	
	4/28/2008	9	20.4	0.8	535		37	5069	
	5/6/2008	13	20.1	0.6	754		34	8483	
	5/22/2008	10	20.4	0.6	354		32	4725	
	6/4/2008	11	20.2					4136	
	6/27/2008	8	18	0.6	357			1744	
	7/22/2008	13	20.1	0.8	477		10	NM	
	7/23/2008						10		
	7/30/2008	10	20	0.9	504		10	3830	
	8/5/2008	17	20	0.9	466		10	4039	
	8/12/2008	8	19.9	1	197		10	2930	
	8/19/2008	8	20	0.9	358		10	2385	
	8/27/2008	10	19.7	0.9	403		10	4075	
	9/9/2008	0	20.6	1	1.3		10		
	9/16/2008	0	18.4	3	96		10		
	9/24/2008	0	20.2	1	53		10		
	9/30/2008	0	20.1	0	208		10		
	10/14/2008	0	19.9	1.22	80		10		
	10/21/2008	0	20	1.16	76		10		
	11/4/2008	0	20.1	0.89	168		12.5		
	11/11/2008	0	20.2	0.98	32		12		
	11/19/2008	0	20.2	0.85	16		12		
	12/4/2008	0.1	19.7	0.94	20		11.5		
	12/10/2008	0.14	19.9	0.94	25		10		
	1/2/2009	0.11	18.6	1.52	64		20		
	1/20/2009						25		
	1/27/2009	0.08	20.2	0.9	28		26		
	2/4/2009	0.09	20.1	0.8	100		32		
	2/17/2009	0.12	19.9	0.91	45		23		
	2/27/2009	0.08	20.1	0.92	17		26		
	3/4/2009	0.09	20.1	0.88	48.5		27		
	3/11/2009	0.06	20.2	0.89	78		30		
	3/17/2009	0.22	19.9	0.93	338		29		
	3/24/2009	0.14	20.1	0.66	258		31		
	3/31/2009	0	20.5	0.33	85		13		
	4/8/2009	0.08	20.3	0.35	154		28		
	4/13/2009	0	20.7	0.3	53		27		
	4/22/2009	0.06	20.4	0.36	86		23		
	4/29/2009	0	20.4	0.28	84		26		
	5/12/2009	0	20.5	0.35	46.7		12		
	5/19/2009	0	20.7	0.29	9.9		14		
	6/3/2009	0	20.4	0.29	60		12		
	6/10/2009	0.06	20.1	0.61	85		12		
	6/16/2009	0.06	20.2	0.63	107		12		
	6/24/2009	0.07	20.1	0.71	106		12		
	6/30/2009	0.06	20.2	0.68	99		8		
	7/8/2009	0.2	20.1	0.64	198		8		
	7/20/2009	0.22	20.2	0.79	175		8		
	8/4/2009	0.22	19.9	0.89	217		8		
	8/18/2009	0.24	19.6	1.2	246		7		
	9/11/2009	0.38	19.1	1.46	427		10		
	9/15/2009	0.35	19.7	11.42	446		9		
	9/29/2009	0.19	20.1	0.88	293		11		
	10/15/2009	0.13	20.6	0.52	170		10		
	10/28/2009	0.19	20.1	0.52	194		10		
	11/11/2009	0.11	20.4	0.35	151		11		
	12/1/2009	0.26	19.1	0.82	305		9		
	12/7/2009	0.13	20.3	0.71	219		14		
	12/22/2009	0.12	20.5	0.4	209		18		
	1/5/2010	0.08	20.6	0.2	154		20		
	1/19/2010	0.05	20.7	0.2	128		21		
	2/3/2010	0.08	20.5	0.24	114		23		
	2/16/2010	0.07	20.6	0.26	177		20		
	3/3/2010	0.08	20.5	0.24	158		22		
	3/16/2010	0	20.6	0.29	107		22		
	3/29/2010	0	20.4	0.29	133		20		
	4/13/2010	0.05	20.5	0.29	94		16		
	4/27/2010	0	20.5	0.3	98		27		
	5/12/2010	0.08	20	0.54	140		22		
	5/26/2010	0.06	20.2	0.58	102		20		
	6/8/2010	0.06	19.8	0.66	75		21		
	6/24/2010	0.05	20	0.65	58		21		
	7/7/2010	0	20	0.71	51		21		
	7/20/2010	0	20	0.67	26		70		
	8/3/2010	0.02	20	0.66	55		15		
	8/16/2010	0	19.8	0.74	84		14		
	8/31/2010	0	20.1	0.74	58		15		
	9/14/2010	0	20.1	0.69	60		15		
	9/27/2010	0	19.9	0.6	36		17		
	10/12/2010	0	20.2	0.63	18		17		
	10/25/2010	0	20.5	0.54	29		18		
	11/9/2010	0	20.6	0.37	10		20		
	11/30/2010	0	20.4	0.27	2.9		24		
	12/16/2010	0	20.3	0.25	2.2		25		
	12/28/2010	0	20.3	0.27	2.4		27		
	1/12/2011	0	20	0.36	5		20		
	1/25/2011	0	20.4	0.26	15.6		21		
	2/8/2011	0	19	0.27	13.5		20		
	2/21/2011	0	20.5	0.18	6.4		20		
	3/8/2011	0	20.5	0.2	13.6		20		
	3/24/2011	0	20.6	0.15	5.2		22		
	4/4/2011	0	20.6	0.11	5		22		
	4/26/2011	0	20.5	0.21	4.1		15		
	5/10/2011	0	20.5	0.18	0		18		
	5/23/2011	0	20.5	0.24	0.6		14		
	6/7/2011	0	20.3	0.4	0		13		
	6/23/2011	0	20.1	0.46	0.8		13		
	7/7/2011	0	20.1	0.69	1		12		
	7/28/2011	0	20	0.65	1		11		
	8/15/2011	0	19.9	0.9	0.9		0		

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
	1/10/2012	0	17.2	1.72	1.8		5		Approximately 50% dilution. Restarted system at 11:30. Collected readings after 30 min of start up.
	1/10/2012	0	16.5	2.15	4.1		5		Collected 2 hrs after system start up
	1/10/2012	0	16.6	2.15	4.9		8		Collected after 1 hr of full operation
	1/24/2012	0	20.2	0.58	1.5		20		
	2/6/2012	0	20.2	0.45	0.8		19		
	2/20/2012	0	20.4	0.32	0.5		20		
	3/6/2012	0	20.4	0.42	6.3		18		
	3/26/2012	0	20.5	0.31	2.0		15		
	4/10/2012	0	20.4	0.38	1.2		15		
	4/23/2012	0	20.5	0.38	1.2		14		
	5/7/2012	0	20.3	0.45	2.7		13/12		
	5/22/2012	0	20.3	0.46	1.3		12		
	6/5/2012	0	19.6	0.61	0		10		
	6/19/2012	0.10	20.2	0.59	0.1		10		
	7/3/2012	0	20.0	0.66	0.3		12		
	7/18/2012	0	19.8	0.85	0.2		10		
	7/30/2012	0	19.7	0.97	0		10		
	8/12/2012	0	19.7	0.91	1.0		10 (upon arrival) / 9 (after adjustments)		
	8/29/2012	0	20.2	0.69	2.5		9		
	9/11/2012	0	20.2	0.61	1.2		10		
	9/25/2012	0	20.1	0.57	0.8		10		
	10/16/2012	0	20.1	0.47	1.5		9		
	10/30/2012	0	20.3	0.43	1.2		10		
	11/12/2012	0	20.4	0.41	0.3		10		System shutdown upon departure.
	12/4/2012	0	18.7	0.99	0		9		
	12/17/2012	0	20.4	0.45	0		13 (upon arrival) / 14 (after adjustments)		
	1/2/2013	0	20.4	0.38	0.3		18		
	1/15/2013	0	20.5	0.36	0.5		21		
	1/29/2013	0	19.8	0.43	1.2		20		
	2/12/2013	0	20.1	0.45	1.8		19		
	2/25/2013	0	20.5	0.48	0.3		17		
	3/12/2013	0.0	20.1	0.47	0.8		19		
	3/25/2013	0	20.2	0.51	1.6		19		
	4/9/2013	0	20.4	0.38	0.6		19		
	4/22/2013	0	20.5	0.35	0.4		9 (at arrival) / 8 (after adjustments)		
	5/9/2013	0	20.4	0.25	0.1		16		
	2/26/14 12:00 PM	--	--	--	--		--		Frozen line
	2/26/14 2:00 PM	--	--	--	--		--		Frozen line
	2/26/14 3:30 PM	--	--	--	--		--		
	3/25/2014	1.60	20.5	0.0	8.7		0		Froze
	4/16/2014	0	20.7	0.00	0		1		Still has issue
	5/15/2014	0	20.8	0	0		2		Still an issue. Possible cap.
	6/9/2014	0	20.7	0.18	0		12		
	6/11/14 11:00 AM	0	20.4	0.41	153				Pilot start up SVE only. PID valve ok.
	6/11/14 12:00 PM	0	20.4	0.40	27/28		28V		Pilot study restart at 12:00.
	6/11/14 12:45 PM	0	20.9	0.03	26		27V		7d sparge with points open after 30 min.
	6/11/14 1:45 PM	0	20.9	0.65	22		27		Final reading before departure.
	7/17/2014	0	20.1	0.71	3.4		26		
	8/19/2014	0	19.8	0.87	1.1		26		
	9/16/2014	0	19.8	0.96	0		31		
	10/14/2014	0	19.8	0.95	0.5		32		
	11/13/2014	0	19.9	0.98	0		28		
	12/11/14 8:00 AM	0.9	20.0	0.75	0		42		
	12/11/14 10:45 AM	0	20.8	0.06	0		43		
	1/13/15 11:30 AM	0.01	20.9	0.01	0		46		
	2/24/15 11:30 AM	0	20.8	0.00	0		38		
	6/10/15 10:00 AM								System is off
	7/13/15 2:30 PM								System is off
	7/30/15 8:30 AM								System is off
	8/20/15 11:15 AM								System is off
	9/23/15 12:00 PM								System is off
	10/22/15 12:00 PM								System is off
	11/12/15 12:00 PM								System is off
	12/7/2015								System is off
	1/14/2016								System is off
	1/24/2008	100	15.9	2.3	332		15		
	1/31/2008	100	15.5	2.5	1473		5		
	2/6/2008	100	15.5	2.5	149.8				
	2/27/2008	100	15.9	2.9	74		30		
	2/28/2008	100	16.7	3.1	130		29		
	2/29/2008	100	16.3	3.1	94		30		
	3/6/2008	16	17.6	2.8	102		32	5620	
	3/12/2008	2	16.9	2.9	123		11	2298	
	3/19/2008	3	18.1	2.4	26		10	299	
	4/21/2008	0	20.2	1.5	94.1			415	
	5/6/2008	0	20.7	0.3	53.7		0	287	
	5/22/2008	0	20.9	0.2	63		10	199	
	6/27/2008	0	18.1	0.2	50			114	
	7/22/2008	0	20.7	0.2	38.6		9	NM	
	7/23/2008						9		
	7/30/2008	2	19.4	0.6	95		9	704	
	8/5/2008	2	19	0.9	96		9	775	
	8/12/2008	0	19.7	1.4	62		10	522	
	8/19/2008	0	20.1	1.5	83		10	560	
	8/27/2008	0	19.8	1.4	32		9	300	
	9/9/2008	0	20.2	1	1.7		9.5		
	9/16/2008	0	18.1	2	96		9		
	9/24/2008	0	20.1	1	137		9.5		
	9/30/2008	0	20.1	0	238		9.5		
	10/14/2008	0.07	19.9	1	110		10		
	10/21/2008	0.07	19.7	1.04	90		10		
	11/4/2008	0	19.9	0.92	187		11		
	11/11/2008	0.06	20	1.18	72		11.5		
	11/19/2008	0	20.2	1.06	24		12		
	12/4/2008	0.09	20.4	0.08	45		11		
	12/10/2008	0.08	20.7	0.08	54		10		
	1/2/2009	0.1	18	2.1	61		20		
	1/20/2009						22		
	1/27/2009	0.02	20.8	0.1	41		25		
	2/4/2009	0.06	20.6	0.1	100		30		
	2/17/2009	0.05	20.9	0.08	66		20		
	2/27/2009	0.06	20.8	0.08	20		23		
	3/4/2009	0	20.8	0.06	65.4		24		
	3/11/2009	0.05	20.9	0.06	60		26		
	3/17/2009	0.06	20.7	0.05	95.5		25		
	3/24/2009	0.11	20.3	0.44	235		29		
	3/31/2009	0.06	20.5	0.33	117		12		
	4/8/2009	0.08	20.3	0.35	115		26		
	4/13/2009	0.07	20.6	0.38	87		24		
	4/22/2009	0	20.4	0.35	75		23		
	4/29/2009	0	20.1	0.39	53		25		
	5/12/2009	0	20.2	0.35	46.7		12		
	5/19/2009	0	20.3	0.42	12.7		12		
	6/3/2009	0	19.9	0.58	44		11		
	6/10/2009	0.05	19.6	0.83	70		11		
	6/16/2009	0	19.5	0.98	99		11		
	6/24/2009	0	19.3	1.16	80		11		
	6/30/2009	0.05	19.3	1.2	84		7		
	7/8/2009	0.1	19.2	1.24	307		7.5		
	7/20/2009	0.15	19.2	1.59	130		8		
	8/4/2009	0.1	18.4	2	150		8		

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
SVE #7	8/18/2009	0.12	17.8	2.55	185		8		
	9/11/2009	0.15	18	2.65	268		10		
	9/15/2009	0.12	18.4	2.65	257		10		
	9/29/2009	0.1	19	2.2	177		10		
	10/15/2009	0.07	20.4	0.68	110		10		
	10/28/2009	0.12	19.5	1.64	157		11		
	11/11/2009	0.09	20	1.12	82.1		12		
	12/1/2009	0.19	19.9	1.08	248		10		
	12/7/2009	0.09	20.2	1.1	152		16		
	12/22/2009	0.07	20.4	0.68	139		18		
	1/5/2010	0.06	20.6	0.2	107		20		
	1/19/2010	0.05	20.7	0.42	103		21		
	2/3/2010	0.06	20.6	0.34	100		22		
	2/16/2010	0.05	20.7	0.27	109		19		
	3/3/2010	0.06	20.6	0.31	98		23		
	3/16/2010	0	20.6	0.27	100		22		
	3/29/2010	0.05	20.5	0.27	110		19		
	4/13/2010	0	20.6	0.28	66		18		
	4/27/2010	0.06	20.4	0.31	96		27		
	5/12/2010	0	20.7	0.03	71		22		
	5/26/2010	0.05	20.5	0.42	67		20		
	6/8/2010	0.06	20	0.53	71		20		
	6/24/2010	0	19.9	0.69	51		23		
	7/7/2010	0	20.8	0.1	25		22		
	7/20/2010	0	20	0.1	18		22		
	8/3/2010	0	20.3	0.16	36		16		
	8/16/2010	0	20.7	0.03	27		15		
	8/31/2010	0	19.4	1.28	46		15		
	9/14/2010	0	19.6	1.24	43		15		
	9/27/2010	0	19.6	1.02	25		17		
	10/12/2010	0	20.2	0.03	12.2		18		
	10/25/2010	0	20.4	0.67	21		19		
	11/9/2010	0	20.5	0.49	11		20		
	11/30/2010	0	18.9	1.38	2.7		23		
	12/16/2010	0	20.3	0.27	4.3		25		
	12/28/2010	0	20.4	0.22	3.5		25		
	1/12/2011	0	20	0.19	5.5		21		
	1/25/2011	0	20.5	0.11	11.8		23		
	2/8/2011	0	19	0.22	15.4		20		
	2/21/2011	0	20.6	0.08	9.2		22		
	3/8/2011	0	20.6	0.03	10.3		22		
	3/24/2011	0	20.7	0.08	5.3		22		
	4/4/2011	0	20.6	0.13	2.9		22		
	4/26/2011	0	20.6	0.12	4.4		15		
	5/10/2011	0	20.7	0.15	0.2		19		
	5/23/2011	0	20.6	0.08	0.2		15		
	6/7/2011	0	20.9	0.14	0		12		
	6/23/2011	0	20.5	0.03	0.1		13		
	7/7/2011	0	19.9	0.62	1		12		
	7/28/2011	0	19.9	0.7	0.9		12		
	8/15/2011	0	20.1	0.74	0.1		0		
	1/10/2012	0	20.5	0.12	2.1		8		Approximately 50% dilution. Restarted system at 11:30. Collected readings after 30 min of start up.
	1/10/2012	0	20.7	0.07	4.3		7		Collected 2 hrs after system start up
	1/10/2012	0	20.5	0.13	5.2		9		Collected after 1 hr of full operation
	1/24/2012	0	19.5	1.04	1.6		20		
	2/6/2012	0	20.3	0.48	1.0		20		
	2/20/2012	0	20.4	0.60	1.9		20		
	3/6/2012	0	20.7	0.22	8.9		19		
	3/26/2012	0	20.6	0.15	2.5		17		
	4/10/2012	0	20.3	0.57	2.1		17		
	4/23/2012	0	20.3	0.56	1.6		15		
	5/7/2012	0	20.2	0.57	2.9		14		
	5/22/2012	0	20.2	0.59	1.9		13		
	6/5/2012	0	20.2	0.49	0.2		12		
	6/19/2012	0	19.8	0.85	1.3		12		
	7/3/2012	0	19.3	1.06	0.8		10		
	7/18/2012	0	19.8	0.90	0.7		10		
	7/30/2012	0	19.3	1.26	1.0		12		
	8/12/2012	0	19.4	1.22	2.1		11		
	8/29/2012	0	19.8	1.02	3.6		11		
	9/11/2012	0	19.9	0.95	2.5		11		
	9/25/2012	0	19.8	0.92	1.5		10		
	10/16/2012	0	19.8	0.82	2.8		11		
	10/30/2012	0	19.7	1.10	3.8		11		
	11/12/2012	0	19.8	1.04	1.8		12		System shutdown upon departure.
	12/4/2012	0	19.8	0.95	0		11		
	12/17/2012	0	20.1	0.89	0.4		18		
	1/2/2013	0	20.2	0.65	0.6		23		
	1/15/2013	0	20.5	0.31	0.7		22		
	1/29/2013	0	19.9	0.47	1.7		20		
	2/12/2013	0	20.2	0.49	2.7		20		
	2/25/2013	0	20.4	0.45	1.0		19		
	3/12/2013	0.0	20.0	0.69	1.3		22		
	3/25/2013	0	20.2	0.66	2.7		22		
	4/9/2013	0	20.2	0.42	0.9		23		
	4/22/2013	0	20.0	0.67	0.5		21		
	5/9/2013	0	20.3	0.45	0		20		
	2/26/14 12:00 PM	0	20.5	0.37	0.4		11		
	2/26/14 2:00 PM	0	20.5	0.30	3.8		12		
	2/26/14 3:30 PM	0	20.5	0.31	11.0		12		
	3/25/2014	1.65	19.7	0.87	8.4		-29		
	4/16/2014	0	20.1	0.69	0		26		
	5/15/2014	0	20.8	0	0		21		
	6/9/2014	0	20.8	0.04	0		15		
	6/11/14 11:00 AM	0	20.8	0.03	130				Pilot start up SVE only. PID contaminated line.
	6/11/14 12:00 PM	0	20.6	0.29	57		34V		Pilot study restart at 12:00.
	6/11/14 12:45 PM	0	20.6	0.32	22		34V		7d spurge with points open after 30 min.
	6/11/14 1:45 PM	0	20.9	0.06	21		34		Final reading before departure.
	7/17/2014	0	20.2	0.57	20.5		30		
	8/19/2014	0	20.1	0.85	0.7		30		
	9/16/2014	0	20.3	0.65	182		35		Double checked PID reading.
	10/14/2014	0	20.5	0.43	135		35		
	11/13/2014	0	20.8	0.01	0		33		
	12/11/14 8:00 AM	0	20.8	0.08	0		43		
	12/11/14 10:45 AM	0	20.8	0.24	0		43		
	1/13/15 11:30 AM	0	20.8	0.19	0		48		
	2/24/15 11:30 AM	0	20.7	0.17	0				
	6/10/15 10:00 AM								System is off
	7/13/15 2:30 PM								System is off
	7/30/15 8:30 AM								System is off
	8/20/15 11:15 AM								System is off
	9/23/15 12:00 PM								System is off
	10/22/15 12:00 PM								System is off
	11/12/15 12:00 PM								System is off
	12/7/2015								System is off
	1/14/2016								System is off
	2/6/2008	100	0	15.1	155				
	3/6/2008	100	10.5	7.4	96		31	82000	
	3/12/2008	100	16.1	2.8	155		12	11	
	3/19/2008	30	18.7	1.9	174		10	5340	

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
SVE #8	4/21/2008	0	18.4	1.2	135			626	
	5/6/2008	0	18.4	1.1	81.7		0	552	
	5/22/2008	0	17.7	1.7	104		10	323	
	6/27/2008	0	16.3	1.1	107			331	
	7/22/2008	0	17.8	1.4	43		9	NM	
	7/23/2008						9		
	7/30/2008	3	18.9	1.4	273		9	1198	
	8/5/2008	5	18.9	1.6	289		9	1480	
	8/12/2008	3	19.1	1.5	162		9.5	1390	
	8/19/2008	0	19.4	1.3	265		10	1150	
	8/27/2008	0	18.4	1.6	297		9	1308	
	9/9/2008	0	20.1	1	1.5		9.5		
	9/16/2008	0	17.6	2	97		10		
	9/24/2008	0	19.7	1	163		10		
	9/30/2008	0	19.4	2	218		10		
	10/6/2008	0	19.4	1.38	59		15		
	10/14/2008	0	19.3	1.36	96		10		
	10/21/2008	0	19.4	1.3	93		10		
	11/4/2008	0	19.4	1.2	137		11		
	11/11/2008	0	19.1	1.48	54		10.5		
	11/19/2008	0	19	1.46	26		12		
	12/4/2008	0.07	14.5	2.8	37		11		
	12/10/2008	0.06	16.3	2.75	36		11		
	1/2/2009	0.1	17.7	2.25	64		20		
	1/20/2009						24		
	1/27/2009	0	19.3	1.46	27		25		
	2/4/2009	0.05	18.7	1.58	88		30		
	2/17/2009	0	16.2	2.65	49		20		
	2/27/2009	0	18.3	2.55	44		25		
	3/4/2009	0	18.8	1.58	39.2		26		
	3/11/2009	0	18.3	2.1	52		26		
	3/17/2009	0	17.4	2.15	104		26		
	3/24/2009	0.08	18.6	1.6	169		28		
	3/31/2009	0	20.5	0.06	36		13		
	4/8/2009	0.05	18.7	1.4	71		26		
	4/13/2009	0	18.7	1.56	82		24		
	4/22/2009	0	17.5	1.92	65		22		
	4/29/2009	0	18.6	1.56	65		23		
	5/12/2009	0	18.7	1.58	31		12		
	5/19/2009	0	20.3	0.42	12.7		12		
	6/3/2009	0	13.4	3.05	34		10		
	6/10/2009	0	19	1.5	62		10		
	6/16/2009	0	18.9	1.66	90		10		
	6/24/2009	0	18.7	1.78	81		10		
	6/30/2009	0	18.8	1.72	73		8		
	7/8/2009	0.07	16.3	2.75	118		7		
	7/20/2009	0.1	18.5	2.05	115		7.5		
	8/4/2009	0.1	18.3	2.25	146		8		
	8/18/2009	0.11	18	2.4	170		8		
	9/11/2009	0.09	19.3	1.78	178		10		
	9/15/2009	0.14	17.8	2.55	264		10		
	9/29/2009	0.09	18.2	2.3	144		10		
	10/15/2009	0.06	18.2	2.25	8		10		
	10/28/2009	0.09	18.6	1.72	120		11		
	11/11/2009	0.05	18.8	1.58	75.8		12		
	12/1/2009	0.15	14.3	4.18	155		10		
	12/7/2009	0	18.2	2.1	100		17		
	12/22/2009	0	18.4	1.86	86		21		
	1/5/2010	0	18.8	1.7	62		21		
	1/19/2010	0	18.9	1.68	54		22		
	2/3/2010	0	19.1	1.5	57		23		
	2/16/2010	0	19	1.56	73		20		
	3/3/2010	0	19.1	1.53	61		23		
	3/16/2010	0	19.6	0.93	48		23		
	3/29/2010	0	19.6	0.85	51		19		
	4/13/2010	0	19.3	1.02	47		17		
	4/27/2010	0	19.6	0.87	59		27		
	5/12/2010	0	17.3	1.82	52		22		
	5/26/2010	0	17.8	1.62	47		20		
	6/8/2010	0	16.9	2.15	37		20		
	6/24/2010	0	16.8	2.2	34		23		
	7/7/2010	0	17.1	2.15	20		21		
	7/20/2010	0	18.2	1.54	18		20		
	8/3/2010	0	18.8	1.48	22		15		
	8/16/2010	0	17.2	1.66	18		14		
	8/31/2010	0	18.6	1.44	23		15		
	9/14/2010	0	18.7	1.46	25		15		
	9/27/2010	18	18	1.66	14		17		
	10/12/2010	0	18.2	1.64	8		18		
	10/25/2010	0	18	1.74	14		19		
	11/9/2010	0	18.8	1.4	7		21		
	11/30/2010	0	18.9	1.38	1.6		26		
	12/16/2010	0	19	1.08	2.6		28		
	12/28/2010	0	19.1	1.16	1.7		27		
	1/12/2011	0	18.5	0.94	3.2		21		
	1/25/2011	0	19.8	0.82	7.3		22		
	2/8/2011	0	18.7	0.79	9.2		21		Before system changes
	2/8/2011	0	18.7	0.83	9.1				After system changes
	2/21/2011	0	20	0.89	5.7		23		
	3/8/2011	0	20.1	0.82	6.2		23		
	3/24/2011	0	20.3	0.68	3		24		
	4/4/2011	0	20.1	0.73	2.4		22		
	4/26/2011	0	19.5	0.96	1.4		13		
	5/10/2011	0	20.1	0.72	0		15		
	5/23/2011	0	19.8	0.84	0.2		13		
	6/7/2011	0	20.1	0.82	0		13		
	6/23/2011	0	19.7	0.86	0.3		13		
	7/7/2011	0	19.6	1.04	0.2		11		
	7/28/2011	0	19.7	1.28	0.4		12		
	8/15/2011	0	19.4	1.32	0		0		
	1/10/2012	0	5.6	9.99	1.9		6		Approximately 50% dilution. Restarted system at 11:30. Collected readings after 30 min of start up.
	1/10/2012	0	6.6	9.99	4.8		6		Collected 2 hrs after system start up
	1/10/2012	0	7.6	9.99	5.3		8		Collected after 1 hr of full operation
	1/24/2012	0	18.8	1.62	1.7		22		
	2/6/2012	0	19.1	1.42	2.2		22		
	2/20/2012	0	19.3	1.38	2.0		22		
	3/6/2012	0	19.3	1.20	7.1		20		
	3/26/2012	0	20.1	0.64	2.0		18		
	4/10/2012	0	20.1	0.64	1.2		16		
	4/23/2012	0	20.1	0.65	1.4		15		
	5/7/2012	0	20.1	0.71	2.4		13		
	5/22/2012	0	20	0.79	1.8		12		
	6/5/2012	0	17.6	1.34	0.1		10		
	6/19/2012	0	20.0	0.84	0.8		12		
	7/3/2012	0	19.6	1.00	0.5		12		
	7/18/2012	0	20.0	0.91	0.6		11		

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
	7/30/2012	0	19.4	1.29	0.6		11		
	8/12/2012	0	19.3	1.32	1.3		11 (upon arrival) / 10 (after adjustments)		
	8/29/2012	0	19.6	1.28	3.7		10		
	9/11/2012	0	19.6	1.28	2.2		10		
	9/25/2012	0	19.6	1.16	1.8		10		
	10/16/2012	0	19.6	0.92	3.1		10		
	10/30/2012	0	19.8	0.93	3.3		10		
	11/12/2012	0	19.9	0.88	3.1		11.5		System shutdown upon departure.
	12/4/2012	0	14.7	2.70	0		10		
	12/17/2012	0	19.8	1.02	1.1		18		
	1/2/2013	0	19.9	0.82	1.2		23		
	1/15/2013	0	20.0	0.78	1.2		25		
	1/29/2013	0	19.7	0.65	2.0		21		
	2/12/2013	0	20.1	0.65	2.7		21		
	2/25/2013	0	20.1	0.69	1.1		19		
	3/12/2013	0.0	20.0	0.76	1.2		24		
	3/25/2013	0	20.1	0.75	2.4		24		
	4/9/2013	0	20.2	0.66	0.8		23		
	4/22/2013	0	20.3	0.58	0.6		20		
	5/9/2013	0	20.1	0.63	0		20		
	2/26/14 12:00 PM	0	4.7	8.10	0.7		10		
	2/26/14 2:00 PM	0.06	4.5	7.50	4.0		10		
	2/26/14 3:30 PM	0.09	5.11	6.10	12.5		10		
	3/25/2014	1.50	19.6	0.87	8.8		-24		
	4/16/2014	0	20.1	0.70	0		25		
	5/15/2014	0	20.0	0.74	0		20		
	6/9/2014	0	19.9	0.87	0		12		
	7/17/2014								OFF
	8/19/2014								OFF
	9/16/2014								OFF
	10/14/2014								OFF
	11/13/2014								OFF
	12/11/14 8:00 AM								CLOSED
	1/13/15 11:30 AM								CLOSED
	2/24/15 11:30 AM								CLOSED
	6/10/15 10:00 AM								System is off
	7/13/15 2:30 PM								System is off
	7/30/15 8:30 AM								System is off
	8/20/15 11:15 AM								System is off
	9/23/15 12:00 PM								System is off
	10/22/15 12:00 PM								System is off
	11/12/15 12:00 PM								System is off
	12/7/2015								System is off
	1/14/2016								System is off
	2/6/2008	100	8.2	6.3	101.3				
	2/28/2008	100	6.2	9.4	70		16		
	2/29/2008	100	5.8	9.7	48		18		
	3/6/2008	100	12.5	6.4	104		31	74900	
	3/12/2008	100	16.4	2.5	126		12	11%	
	3/19/2008	74	19.5	1.6	125		11	16800	
	3/26/2008	40	19.1	1.5	163		29	15800	
	4/1/2008	34	19.2	1			30	14700	
	4/8/2008	36	19.6	1.1	623		31	20100	
	4/15/2008						38		
	4/21/2008	17	19.7	0.8	706		39	8922	
	4/28/2008	9	19.8	1.2	571		37	4667	
	5/6/2008	9	19.5	0.9	480		35	6264	
	5/22/2008	8	19.6	1	375		32	3850	
	6/4/2008	8	19.3					3245	
	6/27/2008	5	17.4	0.9	377			1676	
	7/22/2008	14	19.4	1.3	491		10	NM	
	7/23/2008						10		
	7/30/2008	12	19.8	1.2	608		9	4528	
	8/5/2008	23	19.8	1.3	605		10	5310	
	8/12/2008	7	19.8	1.3	215		10	2598	
	8/19/2008	7	20	1.2	375		10	2125	
	8/27/2008	14	19.6	1.3	516		10	5610	
	9/9/2008	0	20.7	1	1.3		10		
	9/16/2008	0	18.1	2	93		10		
	9/24/2008	0	20.1	1	168		10		
	9/30/2008	0	20.1	0	237		10		
	10/6/2008	0	19.9	1.28	118		15		
	10/14/2008	0	20	1.3	109		10		
	10/21/2008	0	20	1.22	94		10		
	11/4/2008	0	20.4	0.91	173		12		
	11/11/2008	0	20.1	1.06	56		11.5		
	11/19/2008	0	20.1	0.97	27		12		
	12/4/2008	0.08	19.6	1.08	33		11		
	12/10/2008	0.1	20.2	0.71	35		10		
	1/2/2009	0.09	17.9	2.1	65		20		
	1/20/2009						23		
	1/27/2009	0	20.2	0.91	28		26		
	2/4/2009	0.06	19.9	0.97	96		30		
	2/17/2009	0.1	19.6	1.14	62		22		
	2/27/2009	0.06	19.7	1.21	31		27		
	3/4/2009	0.07	20	1	63.1		27		
	3/11/2009	0.06	20.2	0.94	79		28		
	3/17/2009	0.14	19.8	0.9	248		29		
	3/24/2009	0.1	19.9	0.88	197		31		
	3/31/2009	0	20.5	0.22	38		13		
	4/8/2009	0.07	19.9	0.72	143		28		
	4/13/2009	0.07	20.2	0.76	140		26		
	4/22/2009	0.12	19.9	0.8	150		24		
	4/29/2009	0.06	19.9	0.75	148		25		
	5/12/2009	0	20.2	0.73	80.1		12.5		
	5/19/2009	0	19.6	0.83	38		13		
	6/3/2009	0.12	18.4	1.42	177		11		
	6/10/2009	0.08	20	0.88	110		11		
	6/16/2009	0	20.7	0.11	28		11.5		
	6/24/2009	0.06	20	0.99	137		11		
	6/30/2009	0	18.8	1.72	73		8		
	7/8/2009	0.25	19.4	1.22	110		8		
	7/20/2009	0.15	20.1	0.97	175		8		
	8/4/2009	0.22	20	1.12	236		8		
	8/18/2009	0.22	20	1.24	2.44		8		
	9/11/2009	0.1	18.9	1.3	313		10		
	9/15/2009	0.25	19.7	1.46	392		10		
	9/29/2009	0.16	19.9	1.16	286		10		
	10/15/2009	0.14	19.9	1.1	176		11		
	10/28/2009	0.14	19.8	1.04	171		12		
	11/11/2009	0.09	20	0.86	141		12		
	12/1/2009	0.24	18.6	1.46	282		11		
	12/7/2009	0.08	20.1	0.97	164		16		
	12/22/2009	0.09	20.1	0.84	146		20		
	1/5/2010	0.07	20.2	0.78	132		23		
	1/19/2010	0.06	20.3	0.76	110		23		
	2/3/2010	0.07	20.2	0.75	160		24		
	2/16/2010	0.07	20.3	0.7	179		22		
	3/3/2010	0.08	20.2	0.72	172		24		
	3/16/2010	0	20.4	0.6	133		24		
	3/29/2010	0	20.3	0.53	100		20		
	4/13/2010	0.06	20.4	0.48	111		18		
	4/27/2010	0.08	20.5	0.51	102		29		

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
SVE #9	5/12/2010	0.06	20	0.59	100		23		
	5/26/2010	0.06	20.3	0.59	132		21		
	6/8/2010	0	20	0.68	66		22		
	6/24/2010	0	19.8	0.78	74		24		
	7/7/2010	0	19.9	0.82	40		22		
	7/20/2010	0	19.8	0.78	52		22		
	8/3/2010	0	19.8	0.77	18		17		
	8/16/2010	0	19.6	0.8	100		15		
	8/31/2010	0	19.8	0.82	55		16		
	9/14/2010	0	19.7	0.82	51		16		
	9/27/2010	0	19.5	0.84	29		18		
	10/12/2010	0	19.7	0.9	16		19		
	10/25/2010	0	19.8	0.85	18		19		
	11/9/2010	0	20.1	0.82	7		21		
	11/30/2010	0	19.8	0.8	2		25		
	12/16/2010	0	19.9	0.74	2.2		28		
	12/28/2010	0	20.1	0.71	2.3		27		
	1/12/2011	0	19.8	0.66	6		22		
	1/25/2011	0	20.2	0.66	11.5		23		
	2/8/2011	0	18.7	0.79	9.2		21		Before system changes
	2/8/2011	0	19.2	0.19	19.6				After system changes
	2/21/2011	0	20.3	0.6	10.7		22		
	3/8/2011	0	20.4	0.52	21.6		23		
	3/24/2011	0	20.5	0.42	6.2		23		
	4/4/2011	0	20.5	0.4	5.8		23		
	4/26/2011	0	20.4	0.35	1.6		16		
	5/10/2011	0	20.6	0.28	0.1		19		
	5/23/2011	0	20.5	0.32	0.1		14		
	6/7/2011	0	20.5	0.35	0		14		
	6/23/2011	0	20.1	0.41	0		14		
	7/7/2011	0	20.2	0.49	0.6		13		
	7/28/2011	0	20	0.6	1.5		13		
	8/15/2011	0	20.1	0.68	0		0		
	1/10/2012	0	17.8	1.44	0.4		6		Approximately 50% dilution. Restarted system at 11:30. Collected readings after 30 min of start up.
	1/10/2012	0	16.4	2.15	12.0		6		Collected 2 hrs after system start up
	1/10/2012	0	16.6	2.10	6.2		9		Collected after 1 hr of full operation
	1/24/2012	0	19.9	0.77	2.2		22		
	2/6/2012	0	19.9	0.77	1.6		22		
	2/20/2012	0	19.9	0.78	2.6		22		
	3/6/2012	0	20.0	0.73	22.1		21		
	3/26/2012	0	20.2	0.61	8.2		18		
	4/10/2012	0	20.4	0.56	3.3		17		
	4/23/2012	0	20.5	0.52	3.8		16		
	5/7/2012	0	20.5	0.49	5.3		14		
	5/22/2012	0	20.4	0.54	2.4		14		
	6/5/2012	0	19.7	0.71	8.9		10		
	6/19/2012	0	20.4	0.59	2.4		12		
	7/3/2012	0	20.2	0.62	1.0		12		
	7/18/2012	0	20.1	0.68	0.7		12		
	7/30/2012	0	20.0	0.73	1.3		12		
	8/12/2012	0	19.9	0.75	1.8		12 (upon arrival) / 11 (after adjustments)		
	8/29/2012	0	20.0	0.79	5.3		11		
	9/11/2012	0	20.0	0.81	3.3		11		
	9/25/2012	0	19.9	0.80	2.1		11		
	10/16/2012	0	19.8	0.81	12.9		11		
	10/30/2012	0	20.1	0.77	5.6		11		
	11/12/2012	0	20.1	0.76	3.6		12		System shutdown upon departure.
	12/4/2012	0	19.1	0.98	1.6		10		
	12/17/2012	0	20.3	0.67	1.1		18		
	1/2/2013	0	20.2	0.62	1.2		19		
	1/15/2013	0	20.2	0.70	1.7		19		
	1/29/2013	0	19.7	0.71	2.2		19		
	2/12/2013	0	20.1	0.75	4.7		19		
	2/25/2013	0	20.2	0.68	1.4		17		
	3/12/2013	0.0	20.0	0.81	2.1		17		
	3/25/2013	0	20.1	0.81	4.9		17		
	4/9/2013	0	20.3	0.74	7.7		21		
	4/22/2013	0	20.5	0.59	1.0		8		
	5/9/2013	0	20.3	0.47	0		20		
	2/26/14 12:00 PM	0	4.1	6.70	1.1		7		
	2/26/14 2:00 PM	0	4.4	6.90	3.6		6		
	2/26/14 3:30 PM	0	5.2	5.30	12.1		6		
	3/25/2014	1.35	19.1	1.20	11.1		-16		
	4/16/2014	0	20.1	0.68	0		21		
	5/15/2014	0	20.5	0.45	0		18		
	6/9/2014	0	20.5	0.54	0		11		
	6/11/14 12:00 PM	0	20.8	0.03	16		9V		Pilot study restart at 12:00.
	6/11/14 12:45 PM	0	20.6	0.46	19		26V		7d spørge with points open after 30 min.
	6/11/14 1:45 PM	0	20.4	0.06	16		26		Final reading before departure.
	7/17/2014	0	19.8	0.91	2.8		17		
	8/19/2014	0	19.6	1.20	0.4		12		
	9/16/2014	0	19.6	1.22	1.1		22		
	10/14/2014	0	20.2	0.83	0		30		
	11/13/2014	0	20.0	0.85	0		30		
	12/11/14 8:00 AM								CLOSED
	1/13/15 11:30 AM								CLOSED
	2/24/15 11:30 AM								CLOSED
	6/10/15 10:00 AM								System is off
	7/13/15 2:30 PM								System is off
	7/30/15 8:30 AM								System is off
	8/20/15 11:15 AM								System is off
	9/23/15 12:00 PM								System is off
	10/22/15 12:00 PM								System is off
	11/12/15 12:00 PM								System is off
	12/7/2015								System is off
	1/14/2016								System is off
	2/6/2008	100	14.4	2.2	109.4				
	2/27/2008	100	15	2.6	60		30		
	2/28/2008	100	16	2.6	97		29		
	2/29/2008	100	16.5	2	47		30		
	3/6/2008	96	17.2	2.2	130		31	36500	
	3/12/2008	80	17.3	2	186		12	5.8%	
	3/19/2008	70	19.7	1.7	132		11	14700	
	3/26/2008	21	20.2	1	186		28	6850	
	4/1/2008	26	19.7	1			29	10400	
	4/8/2008	30	20.1	1.2	588		30	15400	
	4/15/2008						38		
	4/21/2008	15	20	1.3	659		39	5783	
	4/28/2008	7	20.6	1.3	454		36	3707	
	5/6/2008	7	20.6	0.5	442		35	6238	
	5/22/2008	12	20.9	0.4	413		31	5025	
	6/4/2008	9	20.3					3240	
	6/27/2008	6	18	0.4	357			1989	
	7/22/2008	14	20.2	0.6	446		10	NM	
	7/23/2008						10		
	7/30/2008	11	19.8	0.7	561		9	4140	
	8/5/2008	19	19.7	0.8	536		10	4625	
	8/12/2008	10	19.8	0.9	240		10	3822	
	8/19/2008	10	20.2	0.9	445		10	2930	
	8/27/2008	11	19.9	0.9	489		10	4640	
	9/9/2008	0	20.9	0	2.5		10		
	9/16/2008	0	18.2	0	98		9		
	9/24/2008	0	20.3	1	187		10		

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
	9/30/2008	0	20.3	0	245		10		
	10/6/2008	0	20.1	0.94	154		15		
	10/14/2008	0.06	20.1	1	128		10		
	10/21/2008	0.06	20.1	0.99	101		10		
	11/4/2008	0	20.3	0.74	189		12		
	11/11/2008	0.06	20.2	0.9	64		11.5		
	11/19/2008	0	20.1	0.78	34		12		
	12/4/2008	0.1	19.8	0.85	45		11		
	12/10/2008	0.12	20.2	0.71	55		11		
	1/2/2009	0.09	17.8	2.1	65		20		
	1/20/2009						24		
	1/27/2008	0.08	20.4	0.83	38		26		
	2/4/2009	0.07	20.3	0.78	63		31		
	2/17/2009	0.09	20.5	0.49	81		21		
	2/27/2009	0.06	20.3	0.62	40		25		
	3/4/2009	0.07	20.6	0.35	83.8		25		
	3/11/2009	0.06	20.7	0.36	84		28		
	3/17/2009	0.1	20.5	0.29	175		24		
	3/24/2009	0.07	20.4	0.34	178		29		
	3/31/2009	0	20.4	0.16	51		12		
	4/8/2009	0.07	20.3	0.33	133		26		
	4/13/2009	0.06	20.5	0.34	131		24		
	4/22/2009	0.06	20.4	0.34	108		22		
	4/29/2009	0.07	20.2	0.32	157		23		
	5/12/2009	0	20.4	0.32	104.2		11.5		
	5/19/2009	0	20.6	0.34	64		12		
	6/3/2009	0.08	20.6	0.21	155		11		
	6/10/2009	0.09	29.3	0.41	125		11		
	6/16/2009	0	29.4	0.42	109		11		
	6/24/2009	0.07	20.4	0.5	158		11		
	6/30/2009	0	20.4	0.38	116		8		
	7/8/2009	0.15	20.6	0.34	212		7.5		
	7/20/2009	0.11	20.8	0.36	158		8		
	8/4/2009	0.19	20.5	0.51	230		8		
	8/18/2009	0.18	20.3	0.64	2.4		8		
	9/11/2009	0.3	19.5	0.73	314		10		
	9/15/2009	0.21	20	0.95	355		10		
	9/29/2009	0.14	20.4	0.6	272		10		
	10/15/2009	0.15	20.4	0.56	171		11		
	10/28/2009	0.15	20.2	0.57	157		12		
	11/11/2009	0.12	20.5	0.5	177		12		
	12/1/2009	0.27	20.1	0.55	267		10		
	12/7/2009	0.12	20.5	0.56	181		17		
	12/22/2009	0.11	20.5	0.44	164		20		
	1/5/2010	0.1	20.6	0.37	155		21		
	1/19/2010	0.07	20.7	0.34	154		22		
	2/3/2010	0.09	20.6	0.3	161		22		
	2/16/2010	0.08	20.7	0.29	222		20		
	3/3/2010	0.07	20.7	0.31	196		23		
	3/16/2010	0.06	20.7	0.23	139		23		
	3/29/2010	0.06	20.6	0.2	132		20		
	4/13/2010	0.09	20.5	0.29	119		17		
	4/27/2010	0.07	20.6	0.18	132		28		
	5/12/2010	0.09	20.5	0.22	164		23		
	5/26/2010	0.07	20.7	0.23	149		20		
	6/8/2010	0.06	20.4	0.32	80		21		
	6/24/2010	0	20.4	0.35	105		23		
	7/7/2010	0	20.3	0.48	78		22		
	7/20/2010	0	20.2	0.52	72		21		
	8/3/2010	0	20.2	0.58	98		16		
	8/16/2010	0	19.9	0.67	128		15		
	8/31/2010	0	20.1	0.7	92		15		
	9/14/2010	0	20.1	0.69	103		16		
SVE #10	9/27/2010	0.05	20	0.62	66		18		
	10/12/2010	0	20.4	0.97	41		18		
	10/25/2010	0	20.5	0.55	29		19		
	11/9/2010	0	20.5	0.43	10		20		
	11/30/2010	0	20.3	0.33	3.7		23		
	12/16/2010	0	20.3	0.27	6.7		26		
	12/28/2010	0	20.3	0.24	5.3		25		
	1/12/2011	0	20.1	0.03	12.5		22		
	1/25/2011	0	20.5	0.18	27		22		
	2/8/2011	0	19.1	0.2	29		23		Before system changes
	2/8/2011	0	19.2	0.18	24.8				After system changes
	2/21/2011	0	20.6	0.09	34.3		22		
	3/8/2011	0	20.6	0.1	45.7		21		
	3/24/2011	0	20.7	0.08	40.5		22		
	4/4/2011	0	20.7	0.07	14.5		21		
	4/26/2011	0	20.7	0.11	2.7		16		
	5/10/2011	0	20.7	0.17	0		18		
	5/23/2011	0	20.5	0.12	2		14		
	6/7/2011	0	20.5	0.16	1.4		14		
	6/23/2011	0	20.2	0.24	3.2		14		
	7/7/2011	0	20.3	0.31	7		10		
	7/28/2011	0	20.4	0.33	16.7		11		
	8/15/2011	0	20.3	0.51	3.2		0		
	1/10/2012	0	19.0	0.80	8.7		5		Approximately 50% dilution. Restarted system at 11:30. Collected readings after 30 min of start up.
	1/10/2012	0	18.5	1.02	22.4		6		Collected 2 hrs after system start up
	1/10/2012	0	18.4	1.20	10.3		7		Collected after 1 hr of full operation
	1/24/2012	0	20.1	0.60	4.3		20		
	2/6/2012	0	20.3	0.47	3.9		21		
	2/20/2012	0	20.4	0.42	4.1		21		
	3/6/2012	0	20.4	0.45	31.1		19		
	3/26/2012	0	20.5	0.32	14.7		17		
	4/10/2012	0	20.5	0.32	20.3		17		
	4/23/2012	0	20.6	0.28	27		15		
	5/7/2012	0	20.6	0.25	17.1		13		
	5/22/2012	0	20.4	0.30	9.2		13		
	6/5/2012	0	20.3	0.28	12.4		8		
	6/19/2012	0	20.5	0.39	8.0		10		
	7/3/2012	0	20.3	0.40	4.0		11		
	7/18/2012	0	20.2	0.51	3.1		11		
	7/30/2012	0	20.2	0.56	8.3		11		
	8/12/2012	0	20.1	0.63	6.2		12 (upon arrival) / 8 (after adjustments)		
	8/29/2012	0	20.2	0.70	7.8		10		
	9/11/2012	0	20.2	0.73	8.7		10		
	9/25/2012	0	20.1	0.69	3.7		10		
	10/16/2012	0	20.0	0.61	11.0		10		
	10/30/2012	0	20.3	0.57	18		10		
	11/12/2012	0	20.4	0.53	7.0		11		System shutdown upon departure.
	12/4/2012	0	19.8	0.64	2.9		9		
	12/17/2012	0	20.5	0.49	3.6		13 (upon arrival) / 14 (after adjustments)		

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
	1/2/2013	0	20.4	0.44	3.3		19		
	1/15/2013	0	20.4	0.42	3.6		21		
	1/29/2013	0	20.0	0.40	4.9		21		
	2/12/2013	0	20.3	0.42	9.0		21		
	2/25/2013	0	20.5	0.37	2.7		16		
	3/12/2013	0.0	20.2	0.46	6.2		19		
	3/25/2013	0	20.3	0.46	9.2		21		
	4/9/2013	0	20.3	0.47	4.4		21		
	4/22/2013	0	20.4	0.39	3.0		12		
	5/9/2013	0	20.4	0.30	0		16		
	2/26/14 12:00 PM	0	12.6	3.60	0.9		10		
	2/26/14 2:00 PM	0	11.7	3.90	4.8		10		
	2/26/14 3:30 PM	0	10.6	4.40	11.7		10		
	3/25/2014	1.25	19.6	0.78	12.3		-19		
	4/16/2014	0	20.5	0.18	0		20		
	5/15/2014	0	20.6	0.21	0		16		
	6/9/2014	0	20.5	0.31	0		10		
	6/11/14 11:00 AM	0	20.5	0.29	124				Pilot start up SVE only. PID contaminated line.
	6/11/14 12:00 PM	0	20.5	0.28	15		20V		Pilot study restart at 12:00.
	6/11/14 12:45 PM	0	20.7	0.24	15		20V		7d sparge with points open after 30 min.
	6/11/14 1:45 PM	0	20.7	0.24	20		21		Final reading before departure.
	7/17/2014	0	20.3	0.50	1.5		14		
	8/19/2014	0	20.4	0.68	0.5		10		
	9/16/2014	0	20.2	0.72	1.7		18		
	10/14/2014	0	20.4	0.64	0		31		
	11/13/2014	0	20.3	0.61	0		30		
	12/11/14 8:00 AM	0	20.8	0.00	0		42		
	12/11/14 10:45 AM	0	20.6	0.56	0		43		
	1/13/15 11:30 AM	0	19.9	0.58	0		46		
	2/24/15 11:30 AM	0	20.2	0.65	0		38		
	6/10/15 10:00 AM								System is off
	7/13/15 2:30 PM								System is off
	7/30/15 8:30 AM								System is off
	8/20/15 11:15 AM								System is off
	9/23/15 12:00 PM								System is off
	10/22/15 12:00 PM								System is off
	11/12/15 12:00 PM								System is off
	12/7/2015								System is off
	1/14/2016								System is off
	2/6/2008	100	0	15.6	135.4				
	3/12/2008	100	15.8	5.1	161		11	>15%	
	3/19/2008	100	18.2	2.2	121		10	>70000	
	3/26/2008	68	19	1.8	148		27	57600	
	4/1/2008	56	19	1.4			29	42300	
	4/8/2008	47	19.4	1.4	1607		30	40100	
	4/15/2008						39		
	4/21/2008	20	19.5	1.1	1045		39	11800	
	4/28/2008	15	19.1	1.4	1325		36	10200	
	5/6/2008	10	18.8	1	709		34	7224	
	5/22/2008	5	18.6	1.8	634		31	4250	
	6/4/2008	10	18.6					3901	
	6/27/2008	11	16.5	1.2	856			3990	
	7/22/2008	10	15.6	3.2	592		9	NM	
	7/23/2008						9		
	7/30/2008	17	12.9	4.7	1454		9	6320	
	8/5/2008	31	11.8	5.5	1405		9	6500+ flame out, low O2	
	8/12/2008	19	15	3.9	496		9.5	9015	
	8/19/2008	25	15.1	4	145		10	7050	
	8/27/2008	10	9.2	7.3	728		9.5	NA	
	9/9/2008	0	20.7	1	1.2		9.5		
	9/16/2008	0	17.1	2	95		9.5		
	9/24/2008	0	17.6	1	175		9.5		
	9/30/2008	0	19.4	0	245		9.5		
	10/6/2008	0.8	14.3	4.25	83.5		15		
	10/14/2008	0	14.6	4.2	118		10		
	10/21/2008	0	14.7	4.1	111		10		
	11/4/2008	0	16.3	2.75	177		11.5		
	11/11/2008	0	15	3.95	70		11.5		
	11/19/2008	0	14.7	4.02	39		12.5		
	12/4/2008	0.21	4.1	7.7	51		11		
	12/10/2008	0.22	5.1	7.6	48		10		
	1/2/2009	0.18	6.2	9.4	55		20		
	1/20/2009						24		
	1/27/2009	0.06	17	2.95	50		26		
	2/4/2009	0.05	13.1	5	95		30		
	2/17/2009	0.08	11.7	5.4	80		19		
	2/27/2009	0.05	14.1	4.98	55		23		
	3/4/2009	0.06	16.6	3.05	71		23		
	3/11/2009	0.05	17.1	2.9	76		25		
	3/17/2009	0.07	15.9	3.3	134		24		
	3/24/2009	0.06	17.6	2.4	140		27		
	3/31/2009	0.01	19.6	0.86	35		11		
	4/8/2009	0.05	17.2	2.4	83		24		
	4/13/2009	0.00	17.8	2.3	88		23		
	4/22/2009	0.06	14.7	3.35	185		21		
	4/29/2009	0.00	17.7	2.2	94		23		
	5/12/2009	0.00	17	2.65	65		11		
	5/19/2009	0.00	11.1	5.9	58		13		
	6/3/2009	0.53	1.6	9.6	80		12		
	6/10/2009	0.10	14.8	3.8	142		11		
	6/16/2009	0.06	14.9	3.8	149		11.5		
	6/24/2009	0.06	14.2	4.5	173		11		
	6/30/2009	0.07	15.2	3.15	120		8		
	7/8/2009	0.25	2.8	9.99	226		8		
	7/20/2009	0.22	5.6	12.7	198		8		
	8/4/2009	0.25	14	5.1	305		8		
	8/18/2009	0.24	12.3	6.2	3.15		7		
	9/11/2009	0.47	1.7	9.99	346		10		
	9/15/2009	0.34	10.4	7.4	494		10		
	9/29/2009	0.17	11.4	6.5	346		10		
	10/15/2009	0.10	108	7.3	159		11		
	10/28/2009	0.14	10.1	7	174		12		
	11/11/2009	0.09	11.6	630	133		12		
	12/1/2009	0.29	6.5	9.18	190		11		
	12/7/2009	0.07	11.1	6.7	151		17		
	12/22/2009	0.12	8.3	8.5	212		20		
	1/5/2010	0.10	8.7	8.3	178		21		
	1/19/2010	0.06	8	9	137		22		
	2/3/2010	0.07	7.2	9.5	135		24		
	2/16/2010	0.07	8.5	8.5	165		20		
	3/3/2010	0.08	7.6	9.2	158		23		
	3/16/2010	0.00	11.1	4.1	104		23		
	3/29/2010	0.05	13.1	3.45	102		21		
	4/13/2010	0.07	13.8	3.25	70		18		
	4/27/2010	0.00	12.1	3.9	68		24		
	5/12/2010	0.06	16.8	2.1	100		22		
	5/26/2010	0.00	6.6	5.6	53		19		
	6/8/2010	0.00	18	1.68	60		23		

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
SVE RW1	6/24/2010	0.00	16.6	2.3	41		24		
	7/7/2010	0	17.2	2.15	38		23		
	7/20/2010	0	17.4	2	35		19		
	8/3/2010	0	17.7	1.96	33		15		
	8/16/2010	0	11.7	4	58		14		
	8/31/2010	0	16.4	2.2	49		14		
	9/14/2010	0	17	2.15	44		15		
	9/27/2010	0	15.6	2.4	31		18		
	10/12/2010	0	15.9	2.58	19.9		19		
	10/25/2010	0	14.5	3.05	19		20		
	11/9/2010	0	16.2	2.4	8		22		
	11/30/2010	0	13.5	3.3	4		23		
	12/16/2010	0	14.7	2.95	5.2		27		
	12/28/2010	0	16.2	2.55	2.2		26		
	1/12/2011	0.08	2.7	6	10.4		20		
	1/25/2011	0	17.4	1.96	14.6		23		
	2/8/2011	0	16.2	2.05	19.1		22		
	2/21/2011	0	17.7	2.35	21.2		22		
	3/8/2011	0	17.8	2.3	23.1		20		
	3/24/2011	0	18.3	1.68	23.4		22		
	4/4/2011	0	18.2	1.68	12.5		21		
	4/26/2011	0	18	1.52	1.9		16		
	5/10/2011	0	19.1	1.16	0		18		
	5/23/2011	0	18.9	1.26	1		14		
	6/7/2011	0	19.1	1.4	0.4		12		
	6/23/2011	0	18.6	1.6	1		12		
	7/7/2011	0	18.6	1.72	2.9		10		
	7/28/2011	0	18.6	1.9	8		11		
	8/15/2011	0	18	2.42	1.1		0		
	1/10/2012	0	1.2	9.99	9.2		5		Approximately 50% dilution. Restarted system at 11:30. Collected readings after 30 min of start up.
	1/10/2012	0	1.5	9.99	24.0		7		Collected 2 hrs after system start up
	1/10/2012	0	1.6	9.99	11.1		7		Collected after 1 hr of full operation
	1/24/2012	0	16.3	3.00	5.1		22		
	2/6/2012	0	16.6	2.85	5.0		20		
	2/20/2012	0	17.4	2.55	5.0		20		
	3/6/2012	0	17.7	1.86	23.4		19		
	3/26/2012	0	19.3	0.97	11.0		17		
	4/10/2012	0	19.5	0.95	16.7		16		
	4/23/2012	0	19.5	0.99	17.6		15		
	5/7/2012	0	19.4	1.04	13.7		13		
	5/22/2012	0	19.2	1.12	6.8		13		
	6/5/2012	0	11.7	2.90	11.8		10		
	6/19/2012	0	19.3	1.20	7.3		11		
	7/3/2012	0	18.5	1.40	4.3		11		
	7/18/2012	0	18.8	1.42	4.2		11		
	7/30/2012	0	18.7	1.53	6.3		11		
	8/12/2012	0	18.4	1.66	7.0		11 (upon arrival) / 9 (after adjustments)		
	8/29/2012	0	18.6	1.74	9.8		10		
	9/11/2012	0	18.5	1.72	9.2		10		
	9/25/2012	0	18.5	1.60	4.9		10		
	10/16/2012	0	18.4	1.46	13.2		10		
	10/30/2012	0	18.8	1.46	0		10		
	11/12/2012	0	18.8	1.44	7.9		11		System shutdown upon departure.
	12/4/2012	0.16	7.8	5.40	6.2		8		
	12/17/2012	0	18.0	1.98	5.2		18		
	1/2/2013	0	17.9	1.76	4.7		18		
	1/15/2013	0	18.3	1.62	4.2		19		
	1/29/2013	0	17.8	1.68	8.1		18		
	2/12/2013	0	18.4	1.62	9.9		19		
	2/25/2013	0	18.6	1.58	3.7		15		
	3/12/2013	0.0	18.7	1.64	6.8		15		
	3/25/2013	0	18.7	1.68	9.4		15		
	4/9/2013	0	19.6	1.02	3.2		15		
	4/22/2013	0	19.9	0.75	4.3		7		
	5/9/2013	0	19.7	0.70	0		19		
	2/26/14 12:00 PM	0.22	2.9	9.20	5.0		8		
	2/26/14 2:00 PM	0.26	3.2	9.00	12.2		7		
	2/26/14 3:30 PM	0.27	3.7	9.50	16.4		7		
	3/25/2014	1.15	18.5	1.66	12.1		-23		
	4/16/2014	0	19.2	1.20	1.2		25		
	5/15/2014	0	19.3	1.14	0		23		
	6/9/2014	0	19.0	1.50	0		15		
	7/17/2014								OFF
	8/19/2014								OFF
	9/16/2014								OFF
	10/14/2014								OFF
	11/13/2014								OFF
	12/11/14 10:45 AM								CLOSED
	1/13/15 11:30 AM								CLOSED
	2/24/15 11:30 AM								CLOSED
	6/10/15 10:00 AM								System is off
	7/13/15 2:30 PM								System is off
	7/30/15 8:30 AM								System is off
	8/20/15 11:15 AM								System is off
	9/23/15 12:00 PM								System is off
	10/22/15 12:00 PM								System is off
	11/12/15 12:00 PM								System is off
	12/7/2015								System is off
	1/14/2016								System is off
	2/6/2008	100	0	18.9	149				
	3/12/2008	100	14.8	4.6	200		12	>15%	
	3/19/2008	100	18.8	2.2	98		11	>70000	
	3/26/2008	100	18.6	1.8			28	100400	
	4/1/2008	68	19.1	1.1			30	69600	
	4/8/2008	72	19.6	0.9	1383		31	92700	
	4/15/2008						39		
	4/21/2008	39	19.2	1	1453		40	27500	
	4/28/2008	29	19.2	1.2	1714		37	21800	
	5/6/2008	20	18.5	1	927		35	16800	
	5/22/2008	16	18.2	1.9	964		32	9600	
	6/4/2008	20	18.6					9970	
	6/27/2008	19	16.9	1.1	1350			6800	
	7/22/2008	21	15.6	2.9	982		10	NM	
	7/23/2008						10		
	7/30/2008	19	16.9	2.4	1485		10	8560	
	8/5/2008	29	16.3	2.9	1375		10	10100	
	8/12/2008	17	18.2	2	490		10	7965	
	8/19/2008	22	18.3	2.1	95		10	6860	
	8/27/2008	10	9.2	7.3	728		9.5	4860	
	9/9/2008	0	20.9	0	1		10		
	9/16/2008	0	12.6	4	89		9.5		
	9/24/2008	0	18.5	3	263		10		
	9/30/2008	0	17.9	2	400		10		
	10/6/2008	0	19.5	1.42	173.8		15		
	10/14/2008	0	17.2	2.7	178		10		
	10/21/2008	0	17.3	2.6	98		10		
	11/4/2008	0	16.8	2.75	187		12		

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
SVE RW3	11/11/2008	0	15.9	3.3	78		12		
	11/19/2008	0	14.7	4.02	39		12		
	12/4/2008	0.2	4.2	8.6	41		11.5		
	12/10/2008	0.16	6.7	7.8	51		10		
	1/2/2009	0.11	17.4	2.35	72		20		
	1/20/2009						24		
	1/27/2009	0.05	16.1	3.1	46		26		
	2/4/2009	0.05	16.4	3	80		30		
	2/17/2009	0.11	8.2	6.6	74		23		
	2/27/2009	0.05	15.9	5.69	46		27		
	3/4/2009	0.07	16.1	3.2	72.2		27		
	3/11/2009	0.06	17.3	1.68	88		30		
	3/17/2009	0.14	10.6	5.5	275		29		
	3/24/2009	0.06	17.5	2.45	139		31		
	3/31/2009	0	20.6	0.06	25		14		
	4/8/2009	0.08	15.6	3.1	180		29		
	4/13/2009	0.00	16.6	2.75	135		27		
	4/22/2009	0.08	12.2	4.85	205		25		
	4/29/2009	0.07	15	3.45	158		27		
	5/12/2009	0.00	14.4	4.08	120		13		
	5/19/2009	0.00	15.5	3.55	59		13		
	6/3/2009	0.32	2	9.99	10.5		9		
	6/10/2009	0.07	14.5	4.15	144		9		
	6/16/2009	0.05	14.5	4.4	150		8.5		
	6/24/2009	0.05	14.3	4.65	157		9		
	6/30/2009	0.00	14.4	4.3	100		5.5		
	7/8/2009	0.35	1.2	9.99	181		5		
	7/20/2009	0.22	16.3	3.1	188		5		
	8/4/2009	0.15	12.8	6	194		6		
	8/18/2009	0.22	12.1	6.6	2.53		6		
	9/11/2009	0.37	1.8	9.99	300		10		
	9/15/2009	0.19	12.9	6.5	352		8		
	9/29/2009	0.10	13.8	5.2	214		8		
	10/15/2009	0.11	15.4	4.3	154		8		
	10/28/2009	0.09	14.3	4.65	153		10		
	11/11/2009	0.07	15.9	3.5	120		9		
	12/1/2009	0.90	5.2	?	153		8		
	12/7/2009	0.08	14	5.1	160		14		
	12/22/2009	0.08	14.7	4.45	156		17		
	1/5/2010	0.08	14.8	4.3	149		20		
	1/19/2010	0.05	15.3	3.95	147		21		
	2/3/2010	0.06	15.6	3.85	131		20		
	2/16/2010	0.00	15.1	4.15	155		18		
	3/3/2010	0.05	14.9	4.21	146		20		
	3/16/2010	0.00	16.7	2.2	124		21		
	3/29/2010	0.00	16.2	2.35	71		17		
	4/13/2010	0.00	14.9	2.85	57		15		
	4/27/2010	0.00	16.7	2.15	65		23		
	5/12/2010	0.00	12.5	3.7	64		21		
	5/26/2010	0.00	6.6	5.6	53		19		
	6/8/2010	0.00	13.7	3.4	36		20		
	6/24/2010	0.00	13.5	3.6	34		17		
	7/7/2010	0	14.2	3.4	23		20		
	7/20/2010	0	16	2.65	21		20		
	8/3/2010	0	16.6	2.44	20		14		
	8/16/2010	0	5.3	5.8	34		13		
	8/31/2010	0	17.1	2.05	22		13		
	9/14/2010	0	17.3	1.96	29		14		
	9/27/2010	0	15.7	2.5	20		17		
	10/12/2010	0	16.2	2.45	12		17		
	10/25/2010	0	15.3	2.65	13		18		
	11/9/2010	0	16.1	2.65	5.2		19		
	11/30/2010	0	15	2.65	2.7		23		
	12/16/2010	0	17.1	1.82	2.7		25		
	12/28/2010	0	17.1	1.84	4.3		25		
	1/12/2011	0	10.5	4.25	5.6		19		
	1/25/2011	0	19	1.04	8.7		20		
	2/8/2011	0	17.6	1.14	13.3		20		
	2/21/2011	0	18.7	1.52	11.9		20		
	3/8/2011	0	18.7	1.52	14.3		19		
	2/24/2011	0	19.1	1.24	15.2		21		
	4/4/2011	0	18.7	1.46	6.2		20		
	4/26/2011	0	10.8	6	1.6		14		
	5/10/2011	0	19.2	1.1	0		17		
	5/23/2011	0	15.8	2.75	0.5		13		
	6/7/2011	0	19.3	1.18	0		12		
	6/23/2011	0	18.9	1.3	1		12		
	7/7/2011	0	18.9	1.4	1.6		10		
	7/28/2011	0	19.2	1.32	5.5		8		
	8/15/2011	0	19.3	1.22	0.3		0		
	1/10/2012	0.10	1.1	9.99	10.6		2		Approximately 50% dilution. Restarted system at 11:30. Collected readings after 30 min of start up.
	1/10/2012	0	1.3	9.99	24.6		2		Collected 2 hrs after system start up
	1/10/2012	0	1.3	9.99	17.0		4		Collected after 1 hr of full operation
	1/24/2012	0	19.0	1.28	4.9	.	18		
	2/6/2012	0	19.1	1.14	5.0		19		
	2/20/2012	0	19.4	1.02	4.9		19		
	3/6/2012	0	19.4	0.89	22.2		18		
	3/26/2012	0	20.2	0.45	8.6		15		
	4/10/2012	0	20.3	0.41	13.2		15		
	4/23/2012	0	20.3	0.44	13.5		13		
	5/7/2012	0	20.2	0.53	9.2		12		
	5/22/2012	0	20.2	0.52	6.1		10		
	6/5/2012	0	11.8	3.35	9.3		7		
	6/19/2012	0	20.2	0.61	7.2		9		
	7/3/2012	0	20.0	0.65	2.9		9		
	7/18/2012	0	20.1	0.68	3.9		9		
	7/30/2012	0	19.9	0.78	4.7		9		
	8/12/2012	0	20.0	0.68	6.1		9 (upon arrival) / 7 (after adjustments)		
	8/29/2012	0	20.0	0.76	6.8		8		
	9/11/2012	0	19.9	0.78	7.2		8		
	9/25/2012	0	19.8	0.76	5.0		8		
	10/16/2012	0	19.6	0.70	6.9		8		
	10/30/2012	0	19.8	0.71	0.2		8		
	11/12/2012	0	19.9	0.70	7.0		8.5		System shutdown upon departure.
	12/4/2012	0.15	4.2	6.30	6.5		5 (upon arrival) / 6 (after adjustments)		
	12/17/2012	0	19.8	0.77	4.6		12 (upon arrival) / 13 (after adjustments)		
	1/2/2013	0	19.8	0.66	4.3		15		
	1/15/2013	0	19.9	0.63	4.7		15		
	1/29/2013	0	19.5	0.61	6.6		15		
	2/12/2013	0	19.9	0.60	8.0		15		
	2/25/2013	0	19.9	0.61	3.4		16		
	3/12/2013	0.0	19.8	0.72	5.8		16		

Table 4
SVE Point Field Data
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Sample Location	Date	LEL (%)	Oxygen (%)	Carbon Dioxide (%)	PID (ppm)	Methane (%)	Vacuum (inches of water)	FID	Comment
	3/25/2013	0	19.9	0.70	7.9		16 (upon arrival) / 17 (after adjustments)		
	4/9/2013	0	19.8	0.82	4.5		19		
	4/22/2013	0	20.3	0.53	3.9		6		
	5/9/2013	0	20.1	0.48	0		15		System Turned Off
	2/26/14 12:00 PM	0.19	0.8	9.99	20.6		11		
	2/26/14 2:00 PM	0.12	0.8	9.99	27.5		11		
	2/26/14 3:30 PM	0.93	1.5	9.99	38.0		11		
	3/25/2014	1.05	19.4	0.90	12.9		-26		
	4/16/2014	0	20.0	0.56	2.2		25		
	5/15/2014	0	20.3	0.45	0		18		
	6/9/2014	0	20.2	0.56	0		14		
	6/11/14 12:00 PM	0	20.0	0.61	17		28V		Pilot study restart at 12:00.
	6/11/14 12:45 PM	0	20.0	0.62	17		30V		7d sparge with points open after 30 min.
	6/11/14 1:45 PM	0	20.0	0.62	18		30V		Final reading before departure.
	7/17/2014	0	19.0	1.46	1.6		26		
	8/19/2014	0	18.5	1.24	0.3		25		
	9/16/2014	0	18.6	1.68	1.5		31		
	10/14/2014	0	19.5	1.18	1.1		31		
	11/13/2014	0	20.1	0.54	0		30		
	12/11/14 10:45 AM								CLOSED
	1/13/15 11:30 AM								CLOSED
	2/24/15 11:30 AM								CLOSED
	6/10/15 10:00 AM								System is off
	7/13/15 2:30 PM								System is off
	7/30/15 8:30 AM								System is off
	8/20/15 11:15 AM								System is off
	9/23/15 12:00 PM								System is off
	10/22/15 12:00 PM								System is off
	11/12/15 12:00 PM								System is off
	12/7/2015								System is off

nm = Not measured

Table 5
SVE Total Emissions Field Readings
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Source	Date	Time	Operational Timer	LEL	Oxygen	Carbon	PID	Methane	FID	Vac	Pressure	Airflow
				%	%	Dioxide %	(ppm)	%		(PSI/inches H_20)	(inches)	(SCFM)
SVE Pretreatment	01/17/08	na		10	18.9	0.30	26.3				20	na
SVE Pretreatment	01/17/08	1550	8.4	15	19.2	0.30	615				19	
SVE Pretreatment	01/18/08	1600	30.6	8	19	0.30	220			40	18	175
SVE Pretreatment	01/19/08	1035	49.6	12	19.5	0.30	348	7.0		40	18	175
SVE Pretreatment	01/19/08	1335	52.3	6	19.5	0.30	175	3.2		40	18	175
SVE Pretreatment	01/20/08	955	72.6	5	20.3	0.30	139	2.6		40	18	175
SVE Pretreatment	01/20/08	1230	75.1	7	19.7	0.30	140	3.2		40	18	175
SVE Pretreatment	01/23/08	1230	147.5	9	20.5	0.30	164	2.0		40	18	175
SVE Pretreatment	01/24/08	800	167.2	22	19.5	0.40	380	14.5		35	22.5	102
SVE Pretreatment	01/30/08	1230	206.5									
SVE Pretreatment	01/31/08	700	223.1	10	19.6	0.30	1150			35	22	191
SVE Pretreatment	02/06/08	1015	370.3	12	20.7	0.20	52			40	40	65
SVE Pretreatment (re-start)	02/27/08	1100										
SVE Pretreatment	02/27/08	1500	480.3	100	17	2.10	90			30	25	
SVE Pretreatment	02/28/08	1630	494.4	100	14.6	3.50	80			32	30	50
SVE Pretreatment	02/29/08	1000	511.9	100	15.2	3.50	87			30	27	50
SVE Pretreatment	03/06/08	830	654.4	100	14.7	4.40	55		75000	34		144
SVE Pretreatment	03/12/08	1430	540.1	100	16	3.40	132		11%			380
SVE Pretreatment	03/19/08	1100	695.1	92	19.2	1.70	172		22600			380
SVE Pretreatment	03/26/08	930	861.9	74	19.1	1.40	171		37200		13	358
SVE Pretreatment	04/01/08	1100	1006.8	48	19.2	1.10			25500			384
SVE Pretreatment	04/08/08	1100	1126	45	19.5	1.30	1254		32700			384
SVE Pretreatment	04/15/08	900	1290	31	19.5	1.30	1239		20400			384
SVE Pretreatment	04/21/08	1100	1437.8	24	19.5	0.10	1174		13400			350
SVE Pretreatment	04/28/08	1200	1603.5	19	19.7	1.10	1161		11100	11	11	360
SVE Pretreatment	05/06/08	1050	1749.3	17	19.5	0.80	979		12600			384
SVE Pretreatment	05/14/08	1100	1984.7									349
SVE Pretreatment	05/22/08	1000	2054.3	17	19.4	1.10	962		7700	32		384
SVE Pretreatment	06/04/08	1000	2281.1	15	19.3				6875			384
SVE Pretreatment	06/27/08	1000	2659.4	11	17.3	0.90	960		4801			384
SVE Pretreatment	07/22/08	930	3055.5	14	17.9	1.90	715		NM			371
SVE Pretreatment	07/30/08	1000	3216.7	7	18.3	1.60	635		2355			415
SVE Pretreatment	08/05/08	1000	3315.7	12	18	0.20	630		3075			415
SVE Pretreatment	08/12/08	930	3483.1	8	18.8	1.70	279		2604			415
SVE Pretreatment	08/19/08	1000	3650.5	7	18.8	1.80	525		2089			415
SVE Pretreatment	08/27/08	945	3672.8	7	17.4	2.30	571		2830			415
SVE Pretreatment	09/09/08	1130	3934.9	0	18.6	0.00	104					415
SVE Pretreatment	09/16/08	1130	3987.9	0	18.3	1.00	752					458
SVE Pretreatment	09/24/08	1130	4178.2	0	19.3	2.00	495					415
SVE Pretreatment	09/30/08	1230	4323.1	0	19.3	1.00	462					445
SVE Pretreatment	10/06/08	1230	4466.51	0	18.8	1.72	89			9		415
SVE Pretreatment	10/14/08	1145	4655.7	0	18.9	1.80	240			9		454
SVE Pretreatment	10/21/08	1145	4800.8	0.07	19	1.72	72					471
SVE Pretreatment	11/04/08	830	5061.2	0	19.2	1.48	105					489
SVE Pretreatment	11/11/08	1200	5232.9	0.05	19	1.62	106					415
SVE Pretreatment	11/19/08	1115	5424.2	0.05	19.3	0.94	30			11		415
SVE Pretreatment	12/04/08	1100	5426.3	0.18	17.6	2.00	254			17		415
SVE Pretreatment	12/10/08	1130	5441.8	0.13	17.6	2.00	206			10		
SVE Pretreatment	12/26/08	1030	5468							25		349
SVE Pretreatment	01/02/09	1015	5471.8	15	16	1.42	211					349
SVE Pretreatment	01/09/09	1015										
SVE Pretreatment	01/20/09	1225	5652.6	0.11	19.1	1.66	165			27		445
SVE Pretreatment	01/27/09	1120	5819.5	0.08	19.2	1.50	143			26		401
SVE Pretreatment	02/04/09	1030	6010.7	0.07	18.3	1.94	230					371
SVE Pretreatment	02/11/09		6155.4									
SVE Pretreatment	02/17/09	1030	6155.9	0.12	17.1	2.45	222			25		384
SVE Pretreatment	02/27/09	1130	6396	0.1	17.1	2.46	160			28		384
SVE Pretreatment	03/04/09	1230	6517	0.07	19.3	1.32	255					384
SVE Pretreatment	03/11/09	1215	6684.1	0.06	19.2	1.42	353			30	10	392
SVE Pretreatment	03/17/09	1030	6759.5	0.14	17.7	2.10	438			29	12	370
SVE Pretreatment	03/24/09	1130	6927	0.09	19.1	1.40	407			32	9	392
SVE Pretreatment	03/31/09	1040	7094.4	0.03	19.1	1.29	130			15	15	415
SVE Pretreatment	04/08/09	840	7284.6	0.08	19.1	1.22	355			29	11	384
SVE Pretreatment	04/13/09	1100	7406.4	0.06	19.3	1.22	330			27	12	384
SVE Pretreatment	04/22/09	1045	7576.3	0.1	18	1.72	350			25	12	384
SVE Pretreatment	04/29/09	845	7761.7	0.06	19.1	1.22	305			27	12	384
SVE Pretreatment	05/12/09	1030	8075.2	0	19.6	1.06	196			15	16	
SVE Pretreatment	01/10/12	1030	25737.4	0	12.5	5.10	8.5			15		
SVE Pretreatment	01/10/12	130	25739.2	0	12.8	4.50	19.4			14		
SVE Effluent	05/19/09	800	8241.1	0	19.2	1.38	190			15	14	414
SVE Effluent	06/03/09	800	8264.9	0.11	17.2	2.05	285			13	13	
SVE Effluent	06/10/09	1120	8434.5	0.08	18.9	1.48	250			13	13	
SVE Effluent	06/16/09	1145	8602.8	0.07	18.9	1.56	252			12	13	
SVE Effluent	06/24/09	1045	8765	0.07	18.9	1.66	248			13	13	
SVE Effluent	06/30/09	930	8902.9	0.05	19.4	1.28	201			8	13	350
SVE Effluent	07/08/09	1239	8952.7	0.16	18.7	1.52	269			8	13	
SVE Effluent	07/20/09	1110	9237.3	0.12	19.4	1.40	247			8	13	350
SVE Effluent	08/04/09	1100	9597.2	0.14	19.2	1.54	223			8	13	
SVE Effluent	08/18/09	1200	9812.4	0.14	19	1.76	273			8	13	350
SVE Effluent	09/11/09	1100	n/c	0.25	17.1	2.75	375			10	13	
SVE Effluent	09/15/09	1130	10291.6	0.19	18.4	2.35	392			10	13	
SVE Effluent	09/29/09	1130	10624.4	0.1	18.7	1.98	222			11	13	442
SVE Effluent (AS System off)	09/30/09	1305		6	17.9	1.80		1.0	1580			
SVE Effluent (AS System on)	09/30/09	1446	10651	5	17.9	1.80		1.3	1720	11		469
SVE Effluent	10/15/09	1020	11007.2	0.1	18.9	1.82	165			11	13.5	
SVE Effluent	10/28/09	1100	11319.9	0.1	18.8	1.66	172			12	14	
SVE Effluent	11/11/09	800	11653.9	0.08	19.1	1.54	155			13	13	
SVE Effluent	12/01/09	1100	11657.8	0.17	17.8	2.15	270			11	13	
SVE Effluent	12/07/09	1100	11800.2	0.08	19.2	1.54	181			18	13	
SVE Effluent	12/22/09	1100	12160.2	0.07	19.2	1.52	184			20	12	
SVE Effluent	01/05/10		12495.5	0.07	19.2	1.42	141			24	13	
SVE Effluent	01/19/10	1100	12832.1	0	19	1.48	145			24	13	
SVE Effluent	02/03/10	1200	13193.2	0.06	18.9	1.48	240			26	13	
SVE Effluent	02/16/10	1130	13504.5	0.06	19.2	1.36	237			22	12	
SVE Effluent	03/03/10	830	13861.9	0.06	19	1.42	244			25	12	
SVE Effluent	03/16/10	1130	14175.3	0	19.6	0.93	124			24	12	
SVE Effluent	03/29/10	1100	14487.1	0	19.6	0.85	85			22	11	
SVE Effluent	04/13/10	1145	14847.7	0	19.5	0.85	74			18	12	
SVE Effluent	04/27/10	1130	15182.4	0.07	19.8	0.68	206			30	10	
SVE Effluent	05/12/10	1045	15541.1	0.05	19.3	0.85	108			24	12	
SVE Effluent	05/26/10	1100	15846.3	0	19	1.12	92			29	13	
SVE Effluent	06/08/10	930	16146.6	0	19.3	0.97	59			24	12	

Table 5
SVE Total Emissions Field Readings
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Source	Date	Time	Operational Timer	LEL	Oxygen	Carbon	PID	Methane	FID	Vac	Pressure	Airflow
				%	%	Dioxide %	(ppm)	%		(PSI/inches $H_2$0)	(inches)	(SCFM)
SVE Effluent	06/24/10	1030	16524.3	0	19.2	1.04	41			24	12	
SVE Effluent	07/07/10	1200	16819.2	0	19.3	1.06	40			24	12	
SVE Effluent	07/20/10	1110	17109.6	0	19.2	1.10	27.2			23	12	
SVE Effluent	08/03/10	1045	17430.1	0	19.1	1.20	105			22	12	
SVE Effluent	08/16/10	1130	17647.9	0	17.8	1.66	56			16	12	
SVE Effluent	08/31/10	1130	17988.2	0	19	1.30	40			16	13	
SVE Effluent	09/14/10	1200	18320.4	0	19.1	1.28	84			17	12	
SVE Effluent	09/27/10	1130	18631.9	0	19.1	1.14	63			19	11	
SVE Effluent	10/12/10	1130	18992	0	19.3	1.14	17.3			20	11	
SVE Effluent	10/25/10	1100	19303.6	0	19.4	1.08	50			20	11	
SVE Effluent	11/09/10	1200	19665.4	0	19.8	0.93	18			22	11	
SVE Effluent	11/30/10	1130	20169	0	19.4	0.87	13.8			26	11	
SVE Effluent	12/16/10	1100	20552.5	0	19.4	0.83	10			29	11	
SVE Effluent	12/28/10	1130	20817.4	0	19.5	0.82	8.8			30	10	
SVE Effluent	01/12/11	1305	21038.3	0	18.2	1.22	17			25	13	
SVE Effluent	01/25/11	1100	21348.2	0	19.6	0.81	24.9			24	12	
SVE Effluent	02/08/11	1045	21684.5	0	18.4	0.76	34.2			23	11	
SVE Effluent	02/21/11	1200	21997.2	0	19.7	0.83	26.3			24	12	
SVE Effluent	03/08/11	1115	22356.4	0	20	0.82	32.9			24	12	
SVE Effluent	03/24/11	1100	22739.3	0	19.9	0.69	22.8			25	12	
SVE Effluent	04/04/11	1100	23003.3	0	19.9	0.68	15.6			25	11	
SVE Effluent	04/26/11	1115	23267.7	0	19.7	0.09	3.1			16	12.5	
SVE Effluent	05/10/11	1430	23605.4	0	20	0.62	1.7			70	12	
SVE Effluent	05/23/11	1030	23890.3	0	19.8	0.75	1.6			16	12	
SVE Effluent	06/07/11	1100	24240	0	20	0.70	0.1			15	13	
SVE Effluent	06/23/11	1100	24613.9	0	19.5	0.75	2.4			15	13	
SVE Effluent	07/07/11	1040	24905.3	0	19.6	0.92	3.3			13	13	
SVE Effluent	07/28/11	1030	25372.2	0	19.4	1.12	5.7			15	13	
SVE Effluent	08/15/11	1130	25732.4	0	19.5	1.22	1.5			0		
SVE Effluent	01/10/12	1030	25737.4	0	14.8	3.60	7.8			7		
SVE Effluent	01/10/12	130	25739.2	0	14.9	3.50	16.2			8		
SVE Effluent	01/10/12	315	25740.7	0	14.1	4.70	14.8			10	14	
SVE Effluent	01/24/12	800	26095.9	0	19.8	0.86	4.3			25	12	
SVE Effluent	02/06/12	1100	26384.9	0	19.8	0.85	3.4			24	12	
SVE Effluent	02/20/12	1100	26721.1	0	19.9	0.80	4.8			25	12	
SVE Effluent	03/06/12	1115	27080.4	0	20.0	0.70	39.8			24	12	
SVE Effluent	03/26/12	1100	27080.4	0	20.2	0.58	17.8			18	13	
SVE Effluent	04/10/12	1100	27917.1	0	20.1	0.69	18.5			20	12	
SVE Effluent	04/23/12	1100	28228.8	0	20.1	0.70	18.3			17	12.5	
SVE Effluent	05/07/12	1100	28563.5	0	20.0	0.71	15.3			16	12	
SVE Effluent	05/22/12	1100	28923.2	0	19.9	0.74	16.1			16	13	
SVE Effluent	06/05/12	1130	28962.7	0	18.4	1.14	7.2			13	14	
SVE Effluent	06/19/12	1200	29291	0	20.0	0.80	12			13	12	
SVE Effluent	07/03/12	1040	29608.8	0	19.7	0.96	11.1			14	13	
SVE Effluent	07/18/12	800	29942.9	0	19.6	0.98	10.6			13	14	
SVE Effluent	07/30/12	1000	30224.2	0	19.5	1.08	10.3			13	13	
SVE Effluent	08/12/12	145	30524.6	0	19.5	1.04	14.3			13	13	
SVE Effluent	08/29/12	1200	30923.1	0	19.6	1.18	20.3			12	13	
SVE Effluent	09/11/12	1130	31227.5	0	19.6	1.18	17.2			12	13	
SVE Effluent	09/25/12	330	31566	0	19.6	1.06	16.1			13	13	
SVE Effluent	10/16/12	830	32064.5	0	19.5	1.00	20.5			12	13	
SVE Effluent	10/30/12	840	32400.7	0	19.8	0.97	16.4			12	13	
SVE Effluent	11/12/12	1130	32716.5	0	19.8	0.91	15.5			14	13	
SVE Effluent	12/04/12	1140	32718.2	0	17.4	1.80	14.6			12	13	
SVE Effluent	12/17/12	1145	33025.6	0	20.0	0.89	16.5			21	12	
SVE Effluent	01/02/13	1150	33409.5	0	19.9	0.81	16.8			26	11	
SVE Effluent	01/15/13	830	33718.4	0	20.0	0.72	16			26	11	
SVE Effluent	01/29/13	830	34054.2	0	19.6	0.74	15.5			25	11	
SVE Effluent	02/12/13	1145	34393.4	0	20.0	0.73	14.5			24	11	
SVE Effluent	02/25/13	1200	34705.4	0	20.1	0.69	16			22	11	
SVE Effluent	03/12/13	1130	35063.1	0.0	19.9	0.79	15.3			27	12	
SVE Effluent	03/25/13	1200	35375.5	0	20.0	0.79	18			26	12	
SVE Effluent	04/09/13	1145	35735.4	0	20.2	0.71	4.2			26	14	
SVE Effluent	04/22/13	1130	36044.2	0	20.2	0.60	5.5			23	11	
SVE Effluent	05/09/13	1230	36427.5	0	20.0	0.59	1.7			22	12	
SVE Effluent	02/26/14	1200	--	0.17	11.3	4.65	13.2			14	23	
SVE Effluent	02/26/14	200	--	0.13	11.6	3.90	17.2			15	24	
SVE Effluent	02/26/14	330	364317	0.18	8.8	5.10	26.2			20	23	
SVE Effluent	03/25/14	1225	37076.0	0.0	19.7	0.96	25.0			30	23	
SVE Effluent	04/16/14	1200	37601.8	0	20.1	0.68	5.8			28	23	
SVE Effluent	05/15/14	1145	38294.5	0	20.2	0.59	0			25	23	
SVE Effluent	06/09/14	1230	38884.5	0	20.2	0.61	0			7	24	
SVE Effluent	06/11/14	1345	389.28	0	18.6	0.66	4.6			34	21	
SVE Effluent	07/17/14	830	39521.4	0	20.0	0.78	0.1			30	22	
SVE Effluent	08/19/14	1500	40315.9	0	19.7	1.00	0.2			30	26	
SVE Effluent	09/16/14	1100	40919.6	0	19.7	1.06	0.3			36	20	
SVE Effluent	10/14/14	1130	41590.8	0	19.9	0.98	0			35	20	
SVE Effluent	11/13/14	1230	42313.0	0	20.0	0.82	0			34	20	
SVE Effluent	12/11/14	800	42977.3	0	20.4	0.50	0			50	18	
SVE Effluent	12/11/14	1045	42979.6	0	20.5	0.58	0			48	18	
SVE Effluent	01/13/15	1130	43768.5	0	20.0	0.60	0			54	17	
SVE Effluent	02/24/15	1130	44774.5	0	20.5	0.50	0			45	17	
SVE Effluent	06/10/15	1000	47280.9									
SVE Effluent	07/13/15	230	47448.7									
SVE Effluent	07/30/15	830	47449.1									
SVE Effluent	08/20/15	1115	47930.0									
SVE Effluent	09/23/15	1200	48763.0									
SVE Effluent	10/22/15	1200	49458.2									
SVE Effluent	11/12/15	1200	49963.3									
SVE Effluent	12/07/15	1300	50564.5									
SVE Posttreatment	01/17/08	na	na	0	18.8	0.40	9.3					
SVE Posttreatment	01/17/08	1550	na	0	18.5	1.10	64					
SVE Posttreatment	01/18/08	1600	na	0	18.5	1.00	41.8					
SVE Posttreatment	01/19/08	1035	na	0	18.9	0.90	58	0.9				
SVE Posttreatment	01/19/08	1335	na	0	18.7	0.90	26.3	0.7				
SVE Posttreatment	01/20/08	955	na	0	19	0.80	6.9	0.7				
SVE Posttreatment	01/20/08	1230	na	0	18.8	0.90	107	2.3				
SVE Posttreatment	01/23/08	1230	na	0	20.9	0.70	70	0.9				
SVE Posttreatment	01/24/08	800	na	0	18.5	1.20	113					
SVE Posttreatment	01/31/08	700	na	0	18	1.50	15.5					
SVE Posttreatment	02/06/08	1015	na	3	19.4	1.00	1.6					
SVE Posttreatment (re-start)	02/27/08	1500	na	0	11.2	7.20	6					na
SVE Posttreatment	02/28/08	1630	na	0	11.6		16					na

Table 5
SVE Total Emissions Field Readings
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

Source	Date	Time	Operational Timer	LEL	Oxygen	Carbon	PID	Methane	FID	Vac	Pressure	Airflow
				%	%	Dioxide %	(ppm)	%		(PSI/inches H_20)	(inches)	(SCFM)
SVE Posttreatment	02/29/08	1000	na	0	14.3	4.20	7.5					na
SVE Posttreatment	03/06/08	830	na	0	9.3	8.60	2		2			na
SVE Posttreatment	03/12/08	1430	na	0	10.8	7.80	15		11			na
SVE Posttreatment	03/19/08	1100	na	0	15.9	5.30	23					na
SVE Posttreatment	03/26/08	930	na	0	12	7.20	56		165			na
SVE Posttreatment	04/01/08	1100	na	0	16.3	6.80			200			na
SVE Posttreatment	04/08/08	1100	na	0	12.8	4.20	161		363			na
SVE Posttreatment	04/21/08	1100	na	0	16	3.00	19.5		10.5			na
SVE Posttreatment	04/28/08	1200	na	0	14.4	4.50	121		310			na
SVE Posttreatment	05/06/08	1050	na	0	14.5	4.80	131		660			na
SVE Posttreatment	05/14/08	1100	na									na
SVE Posttreatment	05/22/08	1000	na	0	14.6	5.50	43		3			na
SVE Posttreatment	06/04/08	1000	na	0	13.8				112			na
SVE Posttreatment	06/27/08	1000	na	0	14.8	2.60	12.8		18			na
SVE Posttreatment	07/22/08	930	na	0	13	4.60	4.5		NM			na
SVE Posttreatment	07/30/08	1000	na	0	15.9	3.40	0		7			na
SVE Posttreatment	08/05/08	1000	na	2	15.8	3.40	0		20			na
SVE Posttreatment	08/12/08	930	na	0	16.4	3.30	2.6		16			na
SVE Posttreatment	08/19/08	1000	na	0	16.5	3.20	2.6		435			na
SVE Posttreatment	08/27/08	945	na	0	15.6	0.30	1		24			na
SVE Posttreatment	09/09/08	1130	na	0	18.2	1.00	0					na
SVE Posttreatment	09/16/08	1130	na	0	17.9	0.00	0					na
SVE Posttreatment	09/24/08	1130	na	0	17.8	4.00	0					na
SVE Posttreatment	09/30/08	1230	na	0	17.6	2.00	0					na
SVE Posttreatment	10/06/08	1230	na	0	16.6	3.05	0					na
SVE Posttreatment	10/14/08	1145	na	0	16.6	3.05	0					na
SVE Posttreatment	10/21/08	1145	na	0	16.7	2.95	0					na
SVE Posttreatment	11/04/08	830	na	0	18.5	1.85	0					na
SVE Posttreatment	11/11/08	1200	na	0	18.8	1.90	0					na
SVE Posttreatment	11/19/08	1115	na	0	19.1	1.42	0					na
SVE Posttreatment	12/04/08	1100	na	0.06	10.9	2.50	0					na
SVE Posttreatment	12/10/08	1130	na	0	17.1	2.32	0					na
SVE Posttreatment	12/26/08	1030	na									na
SVE Posttreatment	01/02/09	1015	na	0	16.2	3.85	0					na
SVE Posttreatment	01/09/09	1015	na									na
SVE Posttreatment	01/20/09	1225	na	0.11	19.2	1.50	165					na
SVE Posttreatment	01/27/09	1120	na	0	19.1	2.00	0					na
SVE Posttreatment	02/04/09	1030	na	0	17.9	2.30	0					na
SVE Posttreatment	02/17/09	1030	na	0	16.6	2.80	0					na
SVE Posttreatment	02/27/09	1130	na	0	16.5	2.82	0					na
SVE Posttreatment	03/04/09	1230	na	0	16.2	2.76	0					na
SVE Posttreatment	03/11/09	1215	na	0	16.9	2.68	0					na
SVE Posttreatment	03/17/09	1030	na	0	17.5	2.15	0					na
SVE Posttreatment	03/24/09	1130	na	0	16.9	2.17	0					na
SVE Posttreatment	03/31/09	1040	na	0	16.9	2.09	0					na
SVE Posttreatment	04/08/09	840	na	0	16.8	2.12	0					na
SVE Posttreatment	04/13/09	1100	na	0	18.9	1.48	0					na
SVE Posttreatment	04/22/09	1045	na	0	16.8	2.11	0					na
SVE Posttreatment	04/29/09	845	na	0	17.1	2.16	0					na
SVE Posttreatment	05/12/09	1030	na	0	16.4	2.18	0					na
SVE Posttreatment	05/19/09	800		0	16.2	2.11	0					
SVE Posttreatment	Catalytic Oxidizer was removed - SVE Effluent is now the equivalent to post treatment											

Note: Emissions discharged from the system to the atmosphere is listed as SVE Posttreat through 5/19/2009. Emissions from the system were not treated after 5/19/2009 and emissions to the atmosphere are listed as SVE Effluent after 5/19/2009.

Table 6
SVE Total Hydrocarbon and Vapor Concentrations
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin
(concentrations in mg/m3)

Location	Date	Lab	TPH as Gasoline	TPH as Diesel	Benzene	Ethyl benzene	Toluene	Xylene m & p	Xylene o-
SVE PRE	1/17/2008	CAS	830	800 AT	4.4 *	<0.26	4.6	<0.26	<0.26
SVE PRE	1/19/2008	CAS	680	280 AT	3.2 *	<0.23	1.3	<0.23	<0.23
SVE PRE	1/20/2008	CAS	1300	370 AT	9.6 *	<0.22	3.3	0.56	<0.22
SVE PRE	1/23/2008	CAS	440	510 AT	1.5	<0.36	0.53	<0.36	<0.36
SVE PRE	1/31/2008	CAS	2400	490 AT	5.3 *	<0.22	2.1	<0.22	<0.22
SVE PRE	2/6/2008	CAS	3200 AT	650 AT	7.0 *	<0.28	6.7	2.2	0.51 *
SVE PRE	2/27/2008	CAS	33000	9900 AT, BT, h	130 *	6.7 *	100	18	7.2
SVE PRE	2/28/2008	CAS	47000	12000 AT, BT	240 *	13 *	190	35	15
SVE PRE	2/29/2008	CAS	42000	7900 AT, BT	230 *	14 *	190	40	16
SVE PRE	3/6/2008	CAS	31000	9400 AT, BT	220	9.6	170	39	13
SVE PRE	3/12/2008	CAS	51000	8700 AT	350	12 *	280	61	22
SVE PRE	3/19/2008	CAS	23000	9300 AT	210 *	17 *	230	71	23
SVE PRE	3/26/2008	CAS	24000	24000 AT ,BT	340	30 *	380	140	42
SVE PRE	4/21/2008	CAS	12000	10000 AT	150 *	19 *	280	96	28
SVE PRE	5/22/2008	CAS	8100	9300 AT	77 *	17	200	80	26
SVE PRE	6/27/2008	CAS	5500	5900 AT	53 *	18	190	94	30
SVE PRE	7/22/2008	CAS	5800	6300 AT	48 *	12 *	150	65	22
SVE PRE	8/27/2008	CAS	4000	3200 AT	24 *	5.8 *	73	37	15
SVE PRE	9/24/2008	CAS	750	<5.0	4.2 *	<2.5	12	7.3	2.6
SVE PRE	10/28/2008	CAS		1200 AT					
SVE PRE	11/19/2008	CAS	1500	2100 AT	9.3 *	3.0 *	22 *	15	6.5
SVE PRE	1/20/2009	CAS	2100	870 AT	21 *	4.0 *	41	23	7.7
SVE PRE	2/17/2009	CAS	3400	1100 AT	19 *	<1.8	44 *	19 *	11
SVE PRE	3/17/2009	CAS	2700	950 AT	19 *	11 *	51 *	28 *	14
SVE PRE	4/22/2009	CAS	2000	810 AT	8.7	0.92	17	5.5	2.0
SVE PRE	5/19/2009	CAS	1100	770 AT	5.4	0.93	14	5.7	2.2
SVE EFF	6/30/2009	CAS	1400	630 *	4.7	0.47	9.5	3.1	1.2
SVE EFF	7/20/2009	CAS	2100	930 Y	7.4	0.77	14	5.1	2.1
SVE EFF	8/18/2009	CAS	1500	890 Y	5.8	0.62	11	4.3	1.8
SVE EFF	9/29/2009	CAS	2000	1100 AT	3.9	0.5	8.7	4.1	1.8
SVE EFF	12/8/2009	CAS	1600		5.7				
SVE EFF	1/19/2010	CAS	1000		3.2				
SVE EFF	2/16/2010	CAS	790		1.9				
SVE EFF	3/16/2010	CAS	650		1.9				
SVE EFF	4/13/2010	CAS	660		2.1				
SVE EFF	5/12/2010	CAS	590		2.3				
SVE EFF	6/8/2010	CAS	490		1.8				
SVE EFF	7/7/2010	CAS	410		1.2				
SVE EFF	8/3/2010	CAS	290		0.79				
SVE EFF	9/27/2010	CAS	51		0.16				
SVE EFF	10/25/2010	CAS	140		0.38				
SVE EFF	11/30/2010	CAS	58		0.094				
SVE EFF	12/28/2010	CAS	<25		0.036				
SVE EFF	1/26/2011	CAS	76		0.093				
SVE EFF	2/21/2011	CAS	99		0.18				
SVE EFF	3/24/2011	CAS	81		0.15				
SVE EFF	4/26/2011	CAS	<24		0.014				
SVE EFF	5/23/2011	CAS	<25		<0.014				
SVE EFF	6/23/2011	CAS	68		0.0083				
SVE EFF	7/28/2011	CAS	56		0.02				
SVE EFF	8/15/2011	CAS	<32		0.0064				
System shut off 8/15/2011 and restarted 1/10/2012									
SVE EFF	1/10/2012	CAS	130		<0.028				
SVE EFF	2/20/2012	CAS	120		0.07				
SVE EFF	3/26/2012	CAS	53		0.038				
SVE EFF	4/23/2012	CAS	58		0.034				
SVE EFF	5/22/2012	CAS	28		0.012				

Table 6
SVE Total Hydrocarbon and Vapor Concentrations
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin
(concentrations in mg/m3)

Location	Date	Lab	TPH as Gasoline	TPH as Diesel	Benzene	Ethyl benzene	Toluene	Xylene m & p	Xylene o-
SVE EFF	**6/19/2012**	**CAS**	**58**		**0.028**				
SVE EFF	**7/30/2012**	**CAS**	**50**						
SVE EFF	**8/29/2012**	**CAS**	**91**		**0.044**				
SVE EFF	**9/25/2012**	**CAS**	**81**		**0.047**				
SVE EFF	**10/30/2012**	**CAS**	**74**		**0.031**				
SVE EFF	**11/12/2012**	**CAS**	**44**		**0.022**				
SVE EFF	**12/17/2012**	**CAS**	**81**		**0.035**				
SVE EFF	**1/29/2013**	**CAS**	**56**		**0.018**				
SVE EFF	**2/25/2013**	**CAS**	**59**		**0.018**				
SVE EFF	**3/25/2013**	**CAS**	**80**		**0.024**				
SVE EFF	**4/22/2013**	**CAS**	**65**		**0.02**				
SVE EFF	**5/9/2013**	**CAS**	<25		<0.0023				
System Shut of 5/9/2013 and restarted 2/26/2014									
SVE EFF	**2/26/2014**	**ALS**	**120**		<0.058				
SVE EFF	**3/25/2014**	**ALS**	**170**		<0.043				
SVE EFF	**4/16/2014**	**ALS**	**50**		<0.0069				
SVE EFF	**5/15/2014**	**ALS**	<31		<0.0021				
SVE EFF	**6/9/2014**	**ALS**	<25		<0.0017				
SVE EFF	**7/17/2014**	**ALS**	<24		<0.0017				
SVE EFF	**8/19/2014**	**ALS**	<27		<0.0019				
SVE EFF	**9/16/2014**	**ALS**	<24		<0.0017				
SVE EFF	**10/14/2014**	**ALS**	<30		<0.0021				
SVE EFF	**11/13/2014**	**ALS**	<24		<0.0017				
SVE EFF	**12/11/2014**	**ALS**	<24		<0.0017				
SVE EFF	**1/13/2015**	**ALS**	<30		<0.0018				
SVE EFF	**2/24/2015**	**ALS**	<25		<0.0017				

SVE PRE = SVE system effluent prior to treatment with catalytic oxidizer

SVE EFF = SVE system effluent from same sampling port as SVE PRE, however, catalytic oxidizer was removed (direct SVE discharge)

Detections are presented in **bold**.

* Estimated value, QA/QC criteria not met.

h EPA recommended sample preservation, extraction or analysis holding time was exceeded.

AT Sample chromatogram is noted to be atypical of a petroleum product.

BT Indicates possible breakthrough - result for back section at least 10% of result from front section of tube.

Y The chromatogram resembles a petroleum product but does not match the calibration standard

Table 7
Total Hydrocarbon Mass Removal
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

	SVE System			Biodegradation		
Date	**Removal Rate (lbs/day)**	**Cumulative (lbs)**	**Cumulative (barrels)**	**Removal Rate (lbs/day)**	**Cumulative (lbs)**	**Cumulative (barrels)**
2/27/2008	193	0	0	36	0	0
2/28/2008	265	243	1	--	--	--
2/29/2008	224	422	1	105	188	1
3/6/2008	523	2,760	9	328	2,135	7
3/12/2008	2,039	10,128	35	684	6,411	22
3/19/2008	1,103	20,900	72	237	8,037	28
3/26/2008	1,545	30,141	104	237	9,680	33
4/1/2008	--	--	--	240	11,134	38
4/8/2008	--	--	--	198	12,516	43
4/15/2008	--	--	--	198	13,882	48
4/21/2008	690	59,132	203	180	14,977	51
4/28/2008	--	--	--	159	16,095	55
5/6/2008	--	--	--	198	17,666	61
5/22/2008	601	79,228	272	212	21,044	72
6/4/2008				226	23,978	82
6/27/2008	394	97,125	334	508	35,660	123
7/22/2008	404	107,086	368	423	46,232	159
7/30/2008	--	--	--	367	49,174	169
8/5/2008	--	--	--	395	51,545	177
8/12/2008	--	--	--	320	53,780	185
8/19/2008	--	--	--	320	56,028	192
8/27/2008	269	119,365	410	534	60,291	207
9/9/2008	--	--	--	351	64,876	223
9/16/2008	--	--	--	437	67,938	223
9/24/2008	28	123,529	424	244	69,890	240
9/30/2008	--	--	--	262	71,470	246
10/6/2008	--	--	--	320	73,215	252
10/14/2008	--	--	--	334	75,820	260
10/21/2008	--	--	--	329	78,138	268
11/4/2008	--	--	--	305	82,535	284
11/11/2008	--	--	--	290	84,661	291
11/19/2008	134	128,076	440	244	86,787	298
12/4/2008	--	--	--	503	92,386	317
12/10/2008	--	--	--	396	95,094	327
1/2/2009	--	--	--	628	106,852	367
1/20/2009	119	135,956	467	294	115,197	396
1/27/2009	--	--	--	250	117,091	402
2/4/2009	--	--	--	354	119,500	411
2/17/2009	155	139,842	480	536	125,093	430
2/27/2009	--	--	--	536	130,711	449
3/7/2009	--	--	--	226	133,774	460
3/11/2009	--	--	--	245	134,713	463
3/17/2009	121	143,709	494	435	136,727	470
3/24/2009				259	139,171	478
3/31/2009				274	141,030	485
4/22/2009	103	147,428	507	320	148,263	509
5/19/2009	85	149,736	514	252	155,072	533
6/30/2009	44	151,575	521	93	158,971	546
7/20/2009	55	152,684	525	81	160,581	552
8/18/2009	70	154,726	532	117	163,967	563
9/29/2009	80	158,083	543	172	171,188	588
10/15/2009	121	160,018	550	243	175,075	602

Table 7
Total Hydrocarbon Mass Removal
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

	SVE System			Biodegradation		
Date	**Removal Rate (lbs/day)**	**Cumulative (lbs)**	**Cumulative (barrels)**	**Removal Rate (lbs/day)**	**Cumulative (lbs)**	**Cumulative (barrels)**
11/11/2009	107	162,912	560	211	180,766	621
12/7/2009	18	163,384	561	42	181,870	625
1/19/2010	48	165,464	568	182	189,711	652
2/16/2010	33	166,397	572	182	194,820	669
3/16/2010	27	167,146	574	137	198,643	682
4/13/2010	24	167,828	577	114	201,836	693
5/12/2010	22	168,477	579	131	205,624	706
6/8/2010	17	168,946	580	131	209,174	719
7/7/2010	16	169,411	582	146	213,422	733
8/3/2010	13	169,756	583	163	217,811	748
9/27/2010	6	170,074	584	166	226,942	780
10/25/2010	3	170,170	585	157	231,339	795
11/30/2010	4	170,297	585	129	235,998	811
12/28/2010	1	170,336	585	115	239,229	822
1/26/2011	1	170,375	585	82	241,607	830
2/21/2011	3	170,458	586	97	244,134	839
3/24/2011	3	170,554	586	70	246,309	846
4/26/2011	1	170,590	586	48	247,896	852
5/23/2011	0	170,601	586	77	249,986	859
6/23/2011	1	170,646	586	95	252,922	869
7/28/2011	2	170,719	587	117	257,003	883
8/15/2011	1	170,739	587	108	258,969	890
System shut off 8/15/2011 and restarted on 01/010/12						
1/10/2012		170,739	587		258,969	890
2/20/2012	4	170,900	587	507	279,763	961
3/26/2012	3	170,995	587	32	280,881	965
4/23/2012	2	171,047	588	21	281,471	967
5/22/2012	1	171,085	588	43	282,709	971
6/19/2012	1	171,119	588	29	283,514	974
7/30/2012	1	171,173	588	79	286,739	985
8/29/2012	3	171,259	588	112	290,100	997
9/25/2012	2	171,323	589	109	293,048	1007
10/30/2012	3	171,437	589	93	296,311	1018
11/12/2012	2	171,468	589	80	297,345	1022
12/17/2012	1	171,505	589	89	300,462	1032
1/29/2013	2	171,581	590	252	311,316	1070
2/25/2013	3	171,649	590	72	313,270	1076
3/25/2013	2	171,717	590	45	314,543	1081
4/22/2013	2	171,781	590	30	315,382	1084
5/9/2013	2	171,812	590	28	315,863	1085
System shut off on 5/9/2013 and restarted on 02/26/2014						
2/26/2014		171,812	590		315,863	1085
3/25/2014	3	171,903	591	620	332,608	1143
4/16/2014	3	171,964	591	56	333,840	1147
5/15/2014	3	172,065	591	22	334,466	1149
6/9/2014	1	172,097	591	15	334,833	1150
7/17/2014	1	172,123	591	20	335,587	1153
8/19/2014	1	172,153	591	99	338,847	1164
9/16/2014	1	172,173	592	104	341,763	1174
10/14/2014	1	172,200	592	64	343,559	1180
11/13/2014	1	172,220	592	47	344,967	1185
12/11/2014	1	172,244	592	15	345,373	1187
1/13/2015	1	172,269	592	13	345,797	1188

Table 7
Total Hydrocarbon Mass Removal
Enbridge Energy, Limited Partnership - Line 14, MP 85 Crude Oil Release
Rusk County, Wisconsin

	SVE System			Biodegradation		
Date	**Removal Rate (lbs/day)**	**Cumulative (lbs)**	**Cumulative (barrels)**	**Removal Rate (lbs/day)**	**Cumulative (lbs)**	**Cumulative (barrels)**
2/24/2015	1	172,302	592	6	346,066	1189

VI. Laboratory Analytical Results

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LABORATORY REPORT

January 29, 2015

Hans Wronka
Barr Engineering
4700 West 77th Street
Minneapolis, MN 55435

RE: Enbridge MP-85 Exland Wi / 49/55-0029-00Y 2015.001

Dear Hans:

Enclosed are the results of the sample submitted to our laboratory on January 15, 2015. For your reference, these analyses have been assigned our service request number P1500154.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Kelly Horiuchi at 11:38 am, Jan 29, 2015

Kelly Horiuchi
Laboratory Director

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LABORATORY REPORT

March 10, 2015

Hans Wronka
Barr Engineering
4700 West 77th Street
Minneapolis, MN 55435

RE: Enbridge MP-85 Exland Wi / 49/55-0029-00Y 2015.001

Dear Hans:

Enclosed are the results of the sample submitted to our laboratory on February 27, 2015. For your reference, these analyses have been assigned our service request number P1500779.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Kelly Horiuchi at 5:40 pm, Mar 10, 2015

Kelly Horiuchi
Laboratory Director

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Client: Barr Engineering Service Request No: P1500779
Project: Enbridge MP-85 Exland Wi / 49/55-0029-00Y 2015.001

CASE NARRATIVE

The sample was received intact under chain of custody on February 27, 2015 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample at the time of sample receipt.

Total Petroleum Hydrocarbons as Gasoline Analysis

The sample was analyzed for total petroleum hydrocarbons (TPH) as gasoline per modified EPA Method TO-3 using a gas chromatograph equipped with a flame ionization detector (FID). This procedure is described in laboratory SOP VOA-TPHG_TO3. This method is not included on the laboratory's NELAP or AIHA-LAP scope of accreditation.

Volatile Organic Compound Analysis

The sample was also analyzed for benzene in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is not included on the laboratory's AIHA-LAP scope of accreditation. Any analytes flagged with an X are not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

The Summa canister was cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

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F: +1 805 526 7270
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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L14-2
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	838341
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-001
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-14-5
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272014-4
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Barr Engineering
Service Request: P1500779
Project ID: Enbridge MP-85 Exland Wi / 49/55-0029-00Y 2015.001

Date Received: 2/27/2015
Time Received: 09:50

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-3 Modified - TPHG Can	TO-15 - VOC Cans
SVE EFFLUENT	P1500779-001	Air	2/24/2015	12:30	1SC00722	0.22	5.93	X	X

Air - Chain of Custody Record & Analytical Service Request

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Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10-Day-Standard

ALS Project No P1500779

Company Name & Address (Reporting Information)	Barr Engineering 4700 West 77th St Minneapolis Minn
Project Name	Enbridge MP85 Exland WI
Project Number	49/55.0029-004.2015001
Project Manager	Jon Gspie
P.O. # / Billing Information	
Phone	952-832-2772
Fax	952-832-7601
Email Address for Result Reporting	Jgspie@barr.com
Sampler (Print & Sign)	WARD MITCHELL Ward J Mitchell

ALS Contact:

Analysis Method

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	TPH GAS TO15 Benzene Only		Comments e.g. Actual Preservative or specific instructions
SUB REAGENT		2-24	12:30	ISC06722		-14.30		1 Ltr	X		

Report Tier Levels - please select

Tier I - Results (Default in not specified) _____ Tier III (Results + QC & Calibration Summaries) _____
Tier II (Results + QC Summaries _____ Tier IV (Date Validation Package) 10% Surcharge _____

EDD required YES / No
Type: _____ Units: _____

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature) Ward J Mitchell	Date: 2-25-15	Time: 8:30 am	Received by: (Signature) UPS	Date:	Time:	
Relinquished by: (Signature) UPS	Date:	Time:	Received by: (Signature)	Date: 2/27/15	Time: 0950	Cooler / Blank Temperature _____ °C

5 of 9

ALS Environmental
Sample Acceptance Check Form

Client: Barr Engineering Work order: P1500779

Project: Enbridge MP-85 Exland Wi / 49/55-0029-00Y 2015.001

Sample(s) received on: 2/27/15 Date opened: 2/27/15 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Container(s) **supplied by ALS**?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
9	Was a **trip blank** received?	☐	☒	☐
10	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
11	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
12	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
13	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1500779-001.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Barr Engineering**

Client Project ID: **Enbridge MP-85 Exland Wi / 49/55-0029-00Y 2015.001** ALS Project ID: P1500779

Total Petroleum Hydrocarbons (TPH) as Gasoline

Test Code: EPA TO-3 Modified
Instrument ID: HP 5890 II/GC19/FID
Analyst: Wade Henton
Sampling Media: 1.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 2/24/15
Date Received: 2/27/15
Date Analyzed: 3/5/15

Client Sample ID	ALS Sample ID	Canister Dilution Factor	Injection Volume ml(s)	**Result mg/m³**	MRL mg/m³	**Result ppmV**	MRL ppmV	Data Qualifier
SVE EFFLUENT	P1500779-001	1.38	1.0	ND	25	ND	7.1	
Method Blank	P150305-MB	1.00	1.0	ND	18	ND	5.1	

Parts Per Million results are based on a Molecular Weight of 86.18.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Barr Engineering**

Client Project ID: **Enbridge MP-85 Exland Wi / 49/55-0029-00Y 2015.001** ALS Project ID: P1500779

Benzene

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date(s) Collected: 2/24/15
Analyst: Simon Cao Date Received: 2/27/15
Sample Type: 1.0 L Summa Canister(s) Date Analyzed: 3/3/15
Test Notes:

Client Sample ID	ALS Sample ID	Injection Volume ml(s)	Canister Dilution Factor	**Result mg/m³**	MRL mg/m³	**Result ppmV**	MRL ppmV	**Data Qualifier**
SVE EFFLUENT	P1500779-001	400	1.38	ND	0.0017	ND	0.00054	
Method Blank	P150303-MB	1,000	1.00	ND	0.00050	ND	0.00016	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Barr Engineering**
Client Project ID: **Enbridge MP-85 Exland Wi / 49/55-0029-00Y 2015.001** ALS Project ID: P1500779

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date(s) Collected: 2/24/15
Analyst: Simon Cao Date(s) Received: 2/27/15
Sample Type: 1.0 L Summa Canister(s) Date(s) Analyzed: 3/3/15
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P150303-MB	**97**	**100**	**98**	70-130	
SVE EFFLUENT	P1500779-001	**98**	**85**	**88**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

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Client: Barr Engineering Service Request No: P1500154
Project: Enbridge MP-85 Exland Wi / 49/55-0029-00Y 2015.001

CASE NARRATIVE

The sample was received intact under chain of custody on January 15, 2015 and was stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample at the time of sample receipt.

Total Petroleum Hydrocarbons as Gasoline Analysis

The sample was analyzed for total petroleum hydrocarbons (TPH) as gasoline per modified EPA Method TO-3 using a gas chromatograph equipped with a flame ionization detector (FID). This procedure is described in laboratory SOP VOA-TPHG_TO3. This method is not included on the laboratory's NELAP or AIHA-LAP scope of accreditation.

Volatile Organic Compound Analysis

The sample was also analyzed for benzene in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is not included on the laboratory's AIHA-LAP scope of accreditation. Any analytes flagged with an X are not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

The Summa canister was cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L14-2
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	838341
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	CA200007
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-14-5
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272014-4
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Barr Engineering
Service Request: P1500154
Project ID: Enbridge MP-85 Exland Wi / 49/55-0029-00Y 2015.001

Date Received: 1/15/2015
Time Received: 10:17

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	2nd Pi (psig)	2nd Pf (psig)	TO-3 Modified - TPHG Can	TO-15 - VOC Cans
SVE Effluent	P1500154-001	Air	1/13/2015	14:00	1SC00400	-0.14	5.67	0.00	1.70	X	X

Air - Chain of Custody Record & Analytical Service Request

Page _____ of _____

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Phone (805) 526-7161
Fax (805) 526-7270

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10-Day-Standard

ALS Project No P1500154

Company Name & Address (Reporting Information)
Barr Engineering
4700 West 77th Street
Minneapolis Minn

Project Name
Enbridge MP85 Extend WE

Project Number
49155-0029-001 2015-001

Project Manager Jon Aspia

P.O. # / Billing Information

Phone 952-832-2777

Fax 952-832-7601

Email Address for Result Reporting
Jaspia@barrcom

Sampler (Print & Sign)
WARD Mitchell Ward Mitchell

ALS Contact:

Analysis Method

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	TPH GRO TO15 Benzene only		Comments e.g. Actual Preservative or specific instructions
SVE EFFLUENT		1-13-15	2:00 pm					1L	+		

5 of 10

Report Tier Levels - please select
Tier I - Results (Default in not specified) _____ Tier III (Results + QC & Calibration Summaries) _____
Tier II (Results + QC Summaries _____ Tier IV (Date Validation Package) 10% Surcharge _____

EDD required YES / No
Type: _____ Units: _____

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Ward Mitchell	1-13-15	5:00 pm	UPS		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
UPS			K. Kuhn	1/15/15	1017

Cooler / Blank Temperature _____ °C

ALS Environmental
Sample Acceptance Check Form

Client: Barr Engineering Work order: P1500154

Project: Enbridge MP-85 Exland Wi / 49/55-0029-00Y 2015.001

Sample(s) received on: 1/15/15 Date opened: 1/15/15 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Container(s) **supplied by ALS**?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
9	Was a **trip blank** received?	☐	☒	☐
10	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
11	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
12	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
13	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1500154-001.01	1.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Barr Engineering**

Client Project ID: **Enbridge MP-85 Exland Wi / 49/55-0029-00Y 2015.001** ALS Project ID: P1500154

Total Petroleum Hydrocarbons (TPH) as Gasoline

Test Code: EPA TO-3 Modified
Instrument ID: HP 5890 II/GC19/FID
Analyst: Wade Henton
Sampling Media: 1.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 1/13/15
Date Received: 1/15/15
Date Analyzed: 1/23/15

Client Sample ID	ALS Sample ID	Canister Dilution Factor	Injection Volume ml(s)	**Result mg/m³**	MRL mg/m³	**Result ppmV**	MRL ppmV	Data Qualifier
SVE Effluent	P1500154-001	1.64	1.0	ND	30	ND	8.4	
Method Blank	P150123-MB	1.00	1.0	ND	18	ND	5.1	

Parts Per Million results are based on a Molecular Weight of 86.18.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **Barr Engineering**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1500154
Client Project ID: **Enbridge MP-85 Exland Wi / 49/55-0029-00Y 2015.001** ALS Sample ID: P150123-LCS

Test Code: EPA TO-3 Modified Date Collected: NA
Instrument ID: HP 5890 II/GC19/FID Date Received: NA
Analyst: Wade Henton Date Analyzed: 1/23/15
Sampling Media: 1.0 L Summa Canister Volume(s) Analyzed: NA ml(s)
Test Notes:

Compound	Spike Amount mg/m³	**Result mg/m³**	**% Recovery**	ALS Acceptance Limits	Data Qualifier
TPH as Gasoline	7,310	**6,300**	**86**	77-136	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Barr Engineering**

Client Project ID: **Enbridge MP-85 Exland Wi / 49/55-0029-00Y 2015.001** ALS Project ID: P1500154

Benzene

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Collected: 1/13/15
Analyst: Evelyn Alvarez Date Received: 1/15/15
Sample Type: 1.0 L Summa Canister(s) Date Analyzed: 1/19/15
Test Notes:

Client Sample ID	ALS Sample ID	Injection Volume ml(s)	Canister Dilution Factor	**Result mg/m³**	MRL mg/m³	**Result ppmV**	MRL ppmV	**Data Qualifier**
SVE Effluent	P1500154-001	400	1.40	ND	0.0018	ND	0.00055	
Method Blank	P150119-MB	1,000	1.00	ND	0.00050	ND	0.00016	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **Barr Engineering**
Client Project ID: **Enbridge MP-85 Exland Wi / 49/55-0029-00Y 2015.001** ALS Project ID: P1500154

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13 Date(s) Collected: 1/13/15
Analyst: Evelyn Alvarez Date(s) Received: 1/15/15
Sample Type: 1.0 L Summa Canister(s) Date(s) Analyzed: 1/19/15
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P150119-MB	**99**	**97**	**99**	70-130	
SVE Effluent	P1500154-001	**99**	**93**	**96**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 20, 2015

Margaret Treanor
Barr Engineering Co.
4700 West 77th Street
Minneapolis, MN 55435

RE: Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40109420

Dear Margaret Treanor:
Enclosed are the analytical results for sample(s) received by the laboratory on January 15, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

cc: Andrea Nord, Barr Engineering Co.

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40109420

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40109420

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40109420001	**MW-34**	Water	01/13/15 12:07	01/15/15 08:45
40109420002	**MW-33**	Water	01/13/15 12:46	01/15/15 08:45
40109420003	**MW-7**	Water	01/13/15 13:10	01/15/15 08:45

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40109420

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40109420001	**MW-34**	EPA 8260	LAP	10	PASI-G
40109420002	**MW-33**	EPA 8260	LAP	9	PASI-G
40109420003	**MW-7**	EPA 8260	LAP	9	PASI-G

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Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40109420

Method: **EPA 8260**
Description: 8260 MSV UST
Client: BARR ENGINEERING-MINNEAPOLIS
Date: January 20, 2015

General Information:
3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40109420

Sample: MW-34 **Lab ID: 40109420001** Collected: 01/13/15 12:07 Received: 01/15/15 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**19.0**	ug/L	1.0	0.50	1		01/19/15 12:08	71-43-2	
Ethylbenzene	**51.1**	ug/L	1.0	0.50	1		01/19/15 12:08	100-41-4	
Naphthalene	**3.8J**	ug/L	5.0	2.5	1		01/19/15 12:08	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/19/15 12:08	108-88-3	
1,2,4-Trimethylbenzene	**2.7**	ug/L	1.0	0.50	1		01/19/15 12:08	95-63-6	
1,3,5-Trimethylbenzene	**22.9**	ug/L	1.0	0.50	1		01/19/15 12:08	108-67-8	
Xylene (Total)	**3.2**	ug/L	3.0	1.5	1		01/19/15 12:08	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%	70-130		1		01/19/15 12:08	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		01/19/15 12:08	2037-26-5	
4-Bromofluorobenzene (S)	97	%	59-130		1		01/19/15 12:08	460-00-4	

Sample: MW-33 **Lab ID: 40109420002** Collected: 01/13/15 12:46 Received: 01/15/15 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**19.5**	ug/L	1.0	0.50	1		01/19/15 12:53	71-43-2	
Ethylbenzene	**80.5**	ug/L	1.0	0.50	1		01/19/15 12:53	100-41-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/19/15 12:53	108-88-3	
1,2,4-Trimethylbenzene	**7.8**	ug/L	1.0	0.50	1		01/19/15 12:53	95-63-6	
1,3,5-Trimethylbenzene	**39.9**	ug/L	1.0	0.50	1		01/19/15 12:53	108-67-8	
Xylene (Total)	**10.7**	ug/L	3.0	1.5	1		01/19/15 12:53	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	95	%	70-130		1		01/19/15 12:53	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		01/19/15 12:53	2037-26-5	
4-Bromofluorobenzene (S)	98	%	59-130		1		01/19/15 12:53	460-00-4	

Sample: MW-7 **Lab ID: 40109420003** Collected: 01/13/15 13:10 Received: 01/15/15 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**39.1**	ug/L	2.0	1.0	2		01/19/15 12:31	71-43-2	
Ethylbenzene	**77.8**	ug/L	2.0	1.0	2		01/19/15 12:31	100-41-4	
Toluene	**<1.0**	ug/L	2.0	1.0	2		01/19/15 12:31	108-88-3	
1,2,4-Trimethylbenzene	**105**	ug/L	2.0	1.0	2		01/19/15 12:31	95-63-6	
1,3,5-Trimethylbenzene	**27.9**	ug/L	2.0	1.0	2		01/19/15 12:31	108-67-8	
Xylene (Total)	**242**	ug/L	6.0	3.0	2		01/19/15 12:31	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	97	%	70-130		2		01/19/15 12:31	1868-53-7	
Toluene-d8 (S)	101	%	70-130		2		01/19/15 12:31	2037-26-5	
4-Bromofluorobenzene (S)	99	%	59-130		2		01/19/15 12:31	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40109420

QC Batch: MSV/27184 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40109420001, 40109420002, 40109420003

METHOD BLANK: 1107546 Matrix: Water
Associated Lab Samples: 40109420001, 40109420002, 40109420003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	01/19/15 07:19	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	01/19/15 07:19	
Benzene	ug/L	<0.50	1.0	01/19/15 07:19	
Ethylbenzene	ug/L	<0.50	1.0	01/19/15 07:19	
Naphthalene	ug/L	<2.5	5.0	01/19/15 07:19	
Toluene	ug/L	<0.50	1.0	01/19/15 07:19	
Xylene (Total)	ug/L	<1.5	3.0	01/19/15 07:19	
4-Bromofluorobenzene (S)	%	94	59-130	01/19/15 07:19	
Dibromofluoromethane (S)	%	100	70-130	01/19/15 07:19	
Toluene-d8 (S)	%	101	70-130	01/19/15 07:19	

LABORATORY CONTROL SAMPLE & LCSD: 1107547 1107548

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	52.9	52.6	106	105	70-130	1	20	
Ethylbenzene	ug/L	50	53.9	55.6	108	111	70-130	3	20	
Toluene	ug/L	50	52.1	53.4	104	107	70-130	2	20	
Xylene (Total)	ug/L	150	164	166	109	111	70-130	2	20	
4-Bromofluorobenzene (S)	%				103	104	59-130			
Dibromofluoromethane (S)	%				102	102	70-130			
Toluene-d8 (S)	%				97	98	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1108178 1108179

Parameter	Units	40109420001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	19.0	50	50	71.7	69.6	105	101	70-130	3	20	
Ethylbenzene	ug/L	51.1	50	50	112	109	122	116	70-130	3	20	
Toluene	ug/L	<0.50	50	50	53.2	52.4	106	105	70-130	1	20	
Xylene (Total)	ug/L	3.2	150	150	173	169	113	111	70-132	2	20	
4-Bromofluorobenzene (S)	%						105	105	59-130			
Dibromofluoromethane (S)	%						98	97	70-130			
Toluene-d8 (S)	%						100	98	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALIFIERS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40109420

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40109420

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40109420001	**MW-34**	EPA 8260	MSV/27184		
40109420002	**MW-33**	EPA 8260	MSV/27184		
40109420003	**MW-7**	EPA 8260	MSV/27184		

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of

COC No. 40109420

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Barr Engineering
Branch/Location:	
Project Contact:	Jon Aspic Jaspic@barr.com
Phone:	952-832-2777
Project Number:	49155 0029 00 20150001
Project Name:	Endwright MP-85
Project State:	Wisconsin
Sampled By (Print):	Ward Mitchell
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Jon Aspic
Mail To Company:	Barr Engineering
Mail To Address:	4700 W 77th Street Minneapolis, MN
Invoice To Contact:	S.A.M.
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
Sl = Sludge	WP = Wipe

FILTERED? (YES/NO)
PRESERVATION (CODE)*

Analyses Requested

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Y/N	Pick Letter	1,4-Dioxane	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	A				
001	mw-34	1-13-15	12:07	Gw			X		3-40mlVOA	
002	mw-33	1-13-15	12:46	Gw			X			
003	mw-7	1-13-15	1:10	Gw			X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	1-13-15		
	1-15-15 0845		1-15-15 0845

PACE Project No. 40109420

Receipt Temp = 1.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project #: **WO#: 40109420**

40109420

Client Name: Barr Engineering

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Walco

Tracking #: 716124

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 1-15-15
Initials: SRW

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☒N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC: 1/15/15 SRW	☒Yes	☒No	☐N/A	12. all times are PM. 1/15/15 SRW
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDRO, Phenolics, OTHER:	☒Yes	☐No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	14.
Trip Blank Present:	☐Yes	☒No	☐N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AMH for JM **Date:** 1/15/15

F-GB-C-031-Rev.02 (28Oct2013) SCUR Form

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

March 06, 2015

Margaret Treanor
Barr Engineering Co.
4700 West 77th Street
Minneapolis, MN 55435

RE: Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40110975

Dear Margaret Treanor:
Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

cc: Jim Taraldsen, Barr Engineering

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40110975

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40110975

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40110975001	**MW-34**	Water	02/24/15 13:00	02/26/15 08:45
40110975002	**MW-33**	Water	02/24/15 13:35	02/26/15 08:45
40110975003	**MW-7**	Water	02/24/15 14:00	02/26/15 08:45

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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SAMPLE ANALYTE COUNT

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40110975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40110975001	**MW-34**	EPA 8260	LAP	9	PASI-G
40110975002	**MW-33**	EPA 8260	LAP	9	PASI-G
40110975003	**MW-7**	EPA 8260	LAP	9	PASI-G

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PROJECT NARRATIVE

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40110975

Method: **EPA 8260**
Description: 8260 MSV UST
Client: BARR ENGINEERING-MINNEAPOLIS
Date: March 06, 2015

General Information:
3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, Inc.
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(920)469-2436

ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40110975

Sample: MW-34 **Lab ID: 40110975001** Collected: 02/24/15 13:00 Received: 02/26/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**18.9**	ug/L	1.0	1		02/27/15 17:21	71-43-2	
Ethylbenzene	**41.3**	ug/L	1.0	1		02/27/15 17:21	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		02/27/15 17:21	108-88-3	
1,2,4-Trimethylbenzene	**2.8**	ug/L	1.0	1		02/27/15 17:21	95-63-6	
1,3,5-Trimethylbenzene	**18.5**	ug/L	1.0	1		02/27/15 17:21	108-67-8	
Xylene (Total)	**4.0**	ug/L	3.0	1		02/27/15 17:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	114	%	70-130	1		02/27/15 17:21	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		02/27/15 17:21	2037-26-5	
4-Bromofluorobenzene (S)	91	%	59-130	1		02/27/15 17:21	460-00-4	

Sample: MW-33 **Lab ID: 40110975002** Collected: 02/24/15 13:35 Received: 02/26/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**18.6**	ug/L	1.0	1		02/27/15 17:44	71-43-2	
Ethylbenzene	**64.4**	ug/L	1.0	1		02/27/15 17:44	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		02/27/15 17:44	108-88-3	
1,2,4-Trimethylbenzene	**3.6**	ug/L	1.0	1		02/27/15 17:44	95-63-6	
1,3,5-Trimethylbenzene	**30.1**	ug/L	1.0	1		02/27/15 17:44	108-67-8	
Xylene (Total)	**5.5**	ug/L	3.0	1		02/27/15 17:44	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	114	%	70-130	1		02/27/15 17:44	1868-53-7	
Toluene-d8 (S)	100	%	70-130	1		02/27/15 17:44	2037-26-5	
4-Bromofluorobenzene (S)	91	%	59-130	1		02/27/15 17:44	460-00-4	

Sample: MW-7 **Lab ID: 40110975003** Collected: 02/24/15 14:00 Received: 02/26/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**34.6**	ug/L	2.0	2		02/27/15 18:30	71-43-2	
Ethylbenzene	**67.9**	ug/L	2.0	2		02/27/15 18:30	100-41-4	
Toluene	**<2.0**	ug/L	2.0	2		02/27/15 18:30	108-88-3	
1,2,4-Trimethylbenzene	**97.0**	ug/L	2.0	2		02/27/15 18:30	95-63-6	
1,3,5-Trimethylbenzene	**26.3**	ug/L	2.0	2		02/27/15 18:30	108-67-8	
Xylene (Total)	**194**	ug/L	6.0	2		02/27/15 18:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	114	%	70-130	2		02/27/15 18:30	1868-53-7	
Toluene-d8 (S)	98	%	70-130	2		02/27/15 18:30	2037-26-5	
4-Bromofluorobenzene (S)	92	%	59-130	2		02/27/15 18:30	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40110975

QC Batch: MSV/27581 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40110975001, 40110975002, 40110975003

METHOD BLANK: 1122025 Matrix: Water
Associated Lab Samples: 40110975001, 40110975002, 40110975003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	02/27/15 09:18	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	02/27/15 09:18	
Benzene	ug/L	<1.0	1.0	02/27/15 09:18	
Ethylbenzene	ug/L	<1.0	1.0	02/27/15 09:18	
Toluene	ug/L	<1.0	1.0	02/27/15 09:18	
Xylene (Total)	ug/L	<3.0	3.0	02/27/15 09:18	
4-Bromofluorobenzene (S)	%	82	59-130	02/27/15 09:18	
Dibromofluoromethane (S)	%	113	70-130	02/27/15 09:18	
Toluene-d8 (S)	%	97	70-130	02/27/15 09:18	

LABORATORY CONTROL SAMPLE & LCSD: 1122026 1122027

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	62.1	57.8	124	116	70-130	7	20	
Ethylbenzene	ug/L	50	48.5	48.8	97	98	70-130	1	20	
Toluene	ug/L	50	47.3	47.0	95	94	70-130	1	20	
Xylene (Total)	ug/L	150	151	152	101	101	70-130	0	20	
4-Bromofluorobenzene (S)	%				98	98	59-130			
Dibromofluoromethane (S)	%				122	120	70-130			
Toluene-d8 (S)	%				95	96	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1122056 1122057

Parameter	Units	40111013002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	62.5	58.0	125	116	70-130	7	20	
Ethylbenzene	ug/L	<0.50	50	50	49.4	49.6	99	99	70-130	0	20	
Toluene	ug/L	<0.50	50	50	47.5	47.4	95	95	70-130	0	20	
Xylene (Total)	ug/L	<1.5	150	150	152	154	101	103	70-132	1	20	
4-Bromofluorobenzene (S)	%						94	97	59-130			
Dibromofluoromethane (S)	%						120	114	70-130			
Toluene-d8 (S)	%						94	94	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALIFIERS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40110975

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40110975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40110975001	**MW-34**	EPA 8260	MSV/27581		
40110975002	**MW-33**	EPA 8260	MSV/27581		
40110975003	**MW-7**	EPA 8260	MSV/27581		

Page 1 of

40110975

UPPER MIDWEST REGION

MN: 612-607-1700 **WI:** 920-469-2436

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KEW

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCl C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Barr Engineering
Branch/Location:	- Duluth -
Project Contact:	Jon Gispa JGXXX@barr.com
Phone:	952-832-2777
Project Number:	14/55 8029.00 20150001
Project Name:	Enbridge MP-85
Project State:	Wisconsin
Sampled By (Print):	Ward Mitchell
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Jon Gispa
Mail To Company:	Barr Engineering
Mail To Address:	4700 W 77th Street Minneapolis MN
Invoice To Contact:	S.A.P.
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: Rock no matrix	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	mw-34	1-22	1:00pm	H2O	NO	HCl	X		2-40mlvoa B	
002	mw-33	1-22	1:35pm	H2O			X		↓	
003	mw-7	1-22	2:00pm	H2O			X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	2-22-15		
Walter	2/24/15 0845	Susan K Wyler	2/24/15 0845

PACE Project No. 40110975

Receipt Temp = 20.1 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / ~~Not Present~~ Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™ Barr Eng

Client Name: Coleman Eng Madison

Project #: **WO#: 40110975**

40110975

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other:

Tracking #: 740743-1

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 10.1 /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 2-26-15
Initials: SKW

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. No collect time on all samples 2-26-15 SKW
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: (VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	14.
Trip Blank Present:	☐Yes ☒No ☐N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: AMH for DM **Date:** 2/26/15

(Please Print Clearly)

Company Name:	Barr Engineering
Branch/Location:	Duluth
Project Contact:	Jon Cappa JCappa@barr.com
Phone:	952-832-2777
Project Number:	49/35 0029 00 2015001
Project Name:	Enbridge MP 85
Project State:	Wisconsin
Sampled By (Print):	Ward Mitchell
Sampled By (Sign):	W Mitchell
PO #:	
Regulatory Program:	

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF COUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Jon Cappa
Mail To Company:	Barr Engineering
Mail To Address:	4700 W 77th Street Minneapolis MN
Invoice To Contact:	SAA
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO) — Y/N: NO
PRESERVATION (CODE)* — Pick Letter: HCL
Analyses Requested: DRO w/ silica gel cleanup

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	DRO	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	MW-34	2-28	1:00pm	H2O	X	Please change collection date to 2-24-15		
	MW-33	2-28	1:35pm	H2O	X	Please change collection date to 2-24-15		
	MW-7	2-28	2:00pm	H2O	X	Please change collection date to 2-24-15 WJSM - 3-5-15		

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Ward Mitchell	2-25-15		

PACE Project No.

Receipt Temp = °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 06, 2015

Margaret Treanor
Barr Engineering Co.
4700 West 77th Street
Minneapolis, MN 55435

RE: Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Dear Margaret Treanor:
Enclosed are the analytical results for sample(s) received by the laboratory on May 01, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

cc: Jim Taraldsen, Barr Engineering

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

SAMPLE SUMMARY

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40114075001	MW-2	Water	04/29/15 14:20	05/01/15 09:45
40114075002	MW-5	Water	04/29/15 15:15	05/01/15 09:45
40114075003	MW-6	Water	04/29/15 13:25	05/01/15 09:45
40114075004	MW-7	Water	04/29/15 16:40	05/01/15 09:45
40114075005	MW-8	Water	04/29/15 12:50	05/01/15 09:45
40114075006	MW-11	Water	04/29/15 17:00	05/01/15 09:45
40114075007	MW-12	Water	04/29/15 13:55	05/01/15 09:45
40114075008	MW-14	Water	04/29/15 12:20	05/01/15 09:45
40114075009	MW-15	Water	04/29/15 11:24	05/01/15 09:45
40114075010	MW-15D	Water	04/29/15 10:55	05/01/15 09:45
40114075011	MW-16	Water	04/29/15 11:56	05/01/15 09:45
40114075012	MW-17	Water	04/29/15 09:45	05/01/15 09:45
40114075013	MW-21	Water	04/29/15 09:25	05/01/15 09:45
40114075014	MW-33	Water	04/29/15 16:00	05/01/15 09:45
40114075015	MW-34	Water	04/29/15 14:55	05/01/15 09:45
40114075016	M-1	Water	04/29/15 00:00	05/01/15 09:45
40114075017	TRIP BLANK	Water	04/29/15 00:00	05/01/15 09:45

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SAMPLE ANALYTE COUNT

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40114075001	**MW-2**	EPA 8260	HNW	9
40114075002	**MW-5**	EPA 8260	HNW	9
40114075003	**MW-6**	EPA 8260	HNW	9
40114075004	**MW-7**	EPA 8260	HNW	9
40114075005	**MW-8**	EPA 8260	HNW	9
40114075006	**MW-11**	EPA 8260	HNW	9
40114075007	**MW-12**	EPA 8260	HNW	9
40114075008	**MW-14**	EPA 8260	HNW	9
40114075009	**MW-15**	EPA 8260	HNW	9
40114075010	**MW-15D**	EPA 8260	HNW	9
40114075011	**MW-16**	EPA 8260	HNW	9
40114075012	**MW-17**	EPA 8260	HNW	9
40114075013	**MW-21**	EPA 8260	HNW	9
40114075014	**MW-33**	EPA 8260	HNW	9
40114075015	**MW-34**	EPA 8260	HNW	9
40114075016	**M-1**	EPA 8260	HNW	9
40114075017	**TRIP BLANK**	EPA 8260	HNW	9

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: MW-2 **Lab ID: 40114075001** Collected: 04/29/15 14:20 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<5.0**	ug/L	5.0	5		05/04/15 11:39	71-43-2	
Ethylbenzene	**55.4**	ug/L	5.0	5		05/04/15 11:39	100-41-4	
Toluene	**<5.0**	ug/L	5.0	5		05/04/15 11:39	108-88-3	
1,2,4-Trimethylbenzene	**11.6**	ug/L	5.0	5		05/04/15 11:39	95-63-6	
1,3,5-Trimethylbenzene	**25.4**	ug/L	5.0	5		05/04/15 11:39	108-67-8	
Xylene (Total)	**36.8**	ug/L	15.0	5		05/04/15 11:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%	70-130	5		05/04/15 11:39	1868-53-7	D3
Toluene-d8 (S)	98	%	70-130	5		05/04/15 11:39	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	5		05/04/15 11:39	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: MW-5 **Lab ID: 40114075002** Collected: 04/29/15 15:15 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<20.0**	ug/L	20.0	20		05/04/15 12:02	71-43-2	
Ethylbenzene	**241**	ug/L	20.0	20		05/04/15 12:02	100-41-4	
Toluene	**<20.0**	ug/L	20.0	20		05/04/15 12:02	108-88-3	
1,2,4-Trimethylbenzene	**150**	ug/L	20.0	20		05/04/15 12:02	95-63-6	
1,3,5-Trimethylbenzene	**58.6**	ug/L	20.0	20		05/04/15 12:02	108-67-8	
Xylene (Total)	**298**	ug/L	60.0	20		05/04/15 12:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	90	%	70-130	20		05/04/15 12:02	1868-53-7	D3
Toluene-d8 (S)	98	%	70-130	20		05/04/15 12:02	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	20		05/04/15 12:02	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: MW-6 **Lab ID: 40114075003** Collected: 04/29/15 13:25 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**1.2**	ug/L	1.0	1		05/04/15 13:09	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 13:09	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/15 13:09	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 13:09	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 13:09	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/04/15 13:09	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	89	%	70-130	1		05/04/15 13:09	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		05/04/15 13:09	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		05/04/15 13:09	460-00-4	

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: MW-7 **Lab ID: 40114075004** Collected: 04/29/15 16:40 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**15.6**	ug/L	2.0	2		05/04/15 12:24	71-43-2	
Ethylbenzene	**50.3**	ug/L	2.0	2		05/04/15 12:24	100-41-4	
Toluene	**<2.0**	ug/L	2.0	2		05/04/15 12:24	108-88-3	
1,2,4-Trimethylbenzene	**104**	ug/L	2.0	2		05/04/15 12:24	95-63-6	
1,3,5-Trimethylbenzene	**29.6**	ug/L	2.0	2		05/04/15 12:24	108-67-8	
Xylene (Total)	**126**	ug/L	6.0	2		05/04/15 12:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%	70-130	2		05/04/15 12:24	1868-53-7	
Toluene-d8 (S)	97	%	70-130	2		05/04/15 12:24	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	2		05/04/15 12:24	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: MW-8 **Lab ID: 40114075005** Collected: 04/29/15 12:50 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		05/04/15 13:32	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 13:32	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/15 13:32	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 13:32	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 13:32	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/04/15 13:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%	70-130	1		05/04/15 13:32	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		05/04/15 13:32	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		05/04/15 13:32	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: MW-11 **Lab ID: 40114075006** Collected: 04/29/15 17:00 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<4.0**	ug/L	4.0	4		05/04/15 12:47	71-43-2	
Ethylbenzene	**294**	ug/L	4.0	4		05/04/15 12:47	100-41-4	
Toluene	**<4.0**	ug/L	4.0	4		05/04/15 12:47	108-88-3	
1,2,4-Trimethylbenzene	**222**	ug/L	4.0	4		05/04/15 12:47	95-63-6	
1,3,5-Trimethylbenzene	**63.0**	ug/L	4.0	4		05/04/15 12:47	108-67-8	
Xylene (Total)	**1570**	ug/L	12.0	4		05/04/15 12:47	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%	70-130	4		05/04/15 12:47	1868-53-7	
Toluene-d8 (S)	98	%	70-130	4		05/04/15 12:47	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	4		05/04/15 12:47	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: MW-12 **Lab ID: 40114075007** Collected: 04/29/15 13:55 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		05/04/15 13:55	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 13:55	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/15 13:55	108-88-3	
1,2,4-Trimethylbenzene	**1.2**	ug/L	1.0	1		05/04/15 13:55	95-63-6	
1,3,5-Trimethylbenzene	**1.0**	ug/L	1.0	1		05/04/15 13:55	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/04/15 13:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	90	%	70-130	1		05/04/15 13:55	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		05/04/15 13:55	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		05/04/15 13:55	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: MW-14 **Lab ID: 40114075008** Collected: 04/29/15 12:20 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		05/04/15 14:17	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 14:17	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/15 14:17	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 14:17	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 14:17	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/04/15 14:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%	70-130	1		05/04/15 14:17	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		05/04/15 14:17	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		05/04/15 14:17	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: MW-15 **Lab ID: 40114075009** Collected: 04/29/15 11:24 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		05/04/15 14:40	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 14:40	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/15 14:40	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 14:40	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 14:40	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/04/15 14:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%	70-130	1		05/04/15 14:40	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		05/04/15 14:40	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		05/04/15 14:40	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: MW-15D **Lab ID: 40114075010** Collected: 04/29/15 10:55 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		05/04/15 15:02	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 15:02	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/15 15:02	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 15:02	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 15:02	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/04/15 15:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%	70-130	1		05/04/15 15:02	1868-53-7	
Toluene-d8 (S)	99	%	70-130	1		05/04/15 15:02	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		05/04/15 15:02	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: MW-16 **Lab ID: 40114075011** Collected: 04/29/15 11:56 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		05/04/15 15:25	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 15:25	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/15 15:25	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 15:25	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 15:25	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/04/15 15:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%	70-130	1		05/04/15 15:25	1868-53-7	
Toluene-d8 (S)	96	%	70-130	1		05/04/15 15:25	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		05/04/15 15:25	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: MW-17 **Lab ID: 40114075012** Collected: 04/29/15 09:45 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		05/04/15 15:48	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 15:48	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/15 15:48	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 15:48	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 15:48	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/04/15 15:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%	70-130	1		05/04/15 15:48	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		05/04/15 15:48	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		05/04/15 15:48	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: MW-21 **Lab ID: 40114075013** Collected: 04/29/15 09:25 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		05/04/15 16:10	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 16:10	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/15 16:10	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 16:10	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 16:10	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/04/15 16:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%	70-130	1		05/04/15 16:10	1868-53-7	
Toluene-d8 (S)	97	%	70-130	1		05/04/15 16:10	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		05/04/15 16:10	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: MW-33 **Lab ID: 40114075014** Collected: 04/29/15 16:00 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**14.9**	ug/L	1.0	1		05/04/15 16:33	71-43-2	
Ethylbenzene	**66.1**	ug/L	1.0	1		05/04/15 16:33	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/15 16:33	108-88-3	
1,2,4-Trimethylbenzene	**31.4**	ug/L	1.0	1		05/04/15 16:33	95-63-6	
1,3,5-Trimethylbenzene	**33.9**	ug/L	1.0	1		05/04/15 16:33	108-67-8	
Xylene (Total)	**43.0**	ug/L	3.0	1		05/04/15 16:33	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%	70-130	1		05/04/15 16:33	1868-53-7	
Toluene-d8 (S)	99	%	70-130	1		05/04/15 16:33	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		05/04/15 16:33	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: MW-34 **Lab ID: 40114075015** Collected: 04/29/15 14:55 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**14.5**	ug/L	1.0	1		05/04/15 16:55	71-43-2	
Ethylbenzene	**30.2**	ug/L	1.0	1		05/04/15 16:55	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/15 16:55	108-88-3	
1,2,4-Trimethylbenzene	**11.3**	ug/L	1.0	1		05/04/15 16:55	95-63-6	
1,3,5-Trimethylbenzene	**15.7**	ug/L	1.0	1		05/04/15 16:55	108-67-8	
Xylene (Total)	**19.2**	ug/L	3.0	1		05/04/15 16:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%	70-130	1		05/04/15 16:55	1868-53-7	
Toluene-d8 (S)	97	%	70-130	1		05/04/15 16:55	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		05/04/15 16:55	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: M-1 **Lab ID: 40114075016** Collected: 04/29/15 00:00 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**17.4**	ug/L	1.0	1		05/04/15 17:18	71-43-2	
Ethylbenzene	**76.1**	ug/L	1.0	1		05/04/15 17:18	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/15 17:18	108-88-3	
1,2,4-Trimethylbenzene	**34.6**	ug/L	1.0	1		05/04/15 17:18	95-63-6	
1,3,5-Trimethylbenzene	**39.5**	ug/L	1.0	1		05/04/15 17:18	108-67-8	
Xylene (Total)	**46.7**	ug/L	3.0	1		05/04/15 17:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%	70-130	1		05/04/15 17:18	1868-53-7	
Toluene-d8 (S)	100	%	70-130	1		05/04/15 17:18	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		05/04/15 17:18	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Sample: TRIP BLANK **Lab ID: 40114075017** Collected: 04/29/15 00:00 Received: 05/01/15 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		05/04/15 18:26	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 18:26	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		05/04/15 18:26	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 18:26	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		05/04/15 18:26	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		05/04/15 18:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%	70-130	1		05/04/15 18:26	1868-53-7	
Toluene-d8 (S)	97	%	70-130	1		05/04/15 18:26	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		05/04/15 18:26	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

QC Batch: MSV/28295 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40114075001, 40114075002, 40114075003, 40114075004, 40114075005, 40114075006, 40114075007, 40114075008, 40114075009, 40114075010, 40114075011, 40114075012, 40114075013, 40114075014, 40114075015, 40114075016, 40114075017

METHOD BLANK: 1151639 Matrix: Water
Associated Lab Samples: 40114075001, 40114075002, 40114075003, 40114075004, 40114075005, 40114075006, 40114075007, 40114075008, 40114075009, 40114075010, 40114075011, 40114075012, 40114075013, 40114075014, 40114075015, 40114075016, 40114075017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	05/04/15 09:01	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	05/04/15 09:01	
Benzene	ug/L	<1.0	1.0	05/04/15 09:01	
Ethylbenzene	ug/L	<1.0	1.0	05/04/15 09:01	
Toluene	ug/L	<1.0	1.0	05/04/15 09:01	
Xylene (Total)	ug/L	<3.0	3.0	05/04/15 09:01	
4-Bromofluorobenzene (S)	%	98	70-130	05/04/15 09:01	
Dibromofluoromethane (S)	%	91	70-130	05/04/15 09:01	
Toluene-d8 (S)	%	97	70-130	05/04/15 09:01	

LABORATORY CONTROL SAMPLE & LCSD: 1151640 1151641

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	44.5	43.6	89	87	70-130	2	20	
Ethylbenzene	ug/L	50	49.8	48.7	100	97	70-132	2	20	
Toluene	ug/L	50	48.9	48.2	98	96	70-130	1	20	
Xylene (Total)	ug/L	150	153	150	102	100	70-132	2	20	
4-Bromofluorobenzene (S)	%				96	96	70-130			
Dibromofluoromethane (S)	%				94	95	70-130			
Toluene-d8 (S)	%				98	98	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1151718 1151719

Parameter	Units	40114073026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	48.0	50	50	87.8	86.2	79	76	70-130	2	20	
Ethylbenzene	ug/L	<1.0	50	50	50.1	50.8	100	101	70-132	1	20	
Toluene	ug/L	2.7	50	50	51.5	51.7	98	98	70-130	0	20	
Xylene (Total)	ug/L	<3.0	150	150	155	157	103	104	70-132	1	20	
4-Bromofluorobenzene (S)	%						97	95	70-130			
Dibromofluoromethane (S)	%						96	95	70-130			
Toluene-d8 (S)	%						98	97	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Pace Analytical Services, Inc.
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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENBRIDGE MP85 Exland49/55-0029
Pace Project No.: 40114075

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40114075001	**MW-2**	EPA 8260	MSV/28295		
40114075002	**MW-5**	EPA 8260	MSV/28295		
40114075003	**MW-6**	EPA 8260	MSV/28295		
40114075004	**MW-7**	EPA 8260	MSV/28295		
40114075005	**MW-8**	EPA 8260	MSV/28295		
40114075006	**MW-11**	EPA 8260	MSV/28295		
40114075007	**MW-12**	EPA 8260	MSV/28295		
40114075008	**MW-14**	EPA 8260	MSV/28295		
40114075009	**MW-15**	EPA 8260	MSV/28295		
40114075010	**MW-15D**	EPA 8260	MSV/28295		
40114075011	**MW-16**	EPA 8260	MSV/28295		
40114075012	**MW-17**	EPA 8260	MSV/28295		
40114075013	**MW-21**	EPA 8260	MSV/28295		
40114075014	**MW-33**	EPA 8260	MSV/28295		
40114075015	**MW-34**	EPA 8260	MSV/28295		
40114075016	**M-1**	EPA 8260	MSV/28295		
40114075017	**TRIP BLANK**	EPA 8260	MSV/28295		

40114075

Chain of Custody

BARR

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 1 of 2

Page 25 of 27

Project Number: 49550029

Project Name: MP85

Sample Origination State WI (use two letter postal state abbreviation)

COC Number: № 44984

Project Manager: JMA2

Project QC Contact: JET

Sampled by: BSL2/NRS2

Laboratory: Pace

	Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Number of Containers/Preservative: Water: VOCs (HCl) #1	SVOCs (unpreserved) #2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (unpreserved) #3	Diesel Range Organics (HCl)	Nutrients (H_2SO_4) #4	PVOC - MTBE	Soil: VOCs (tared MeOH) #1	GRO, BTEX (tared MeOH) #1	DRO (tared unpreserved)	Metals (unpreserved)	SVOCs (unpreserved) #2	% Solids (plastic vial, unpres.)	Total Number Of Containers	
001	1. MW-2	—	—	—	4/29/15	1420	X		X										X							3	3-40mL VOA
002	2. MW-5	—	—	—	4-29-15	1515	X		X										X							3	
003	3. MW-6	—	—	—	4-29-15	1325	X		X										X							3	
004	4. MW-7	—	—	—	4-29-15	1640	X		X										X							3	
005	5. MW-8	—	—	—	4-29-15	1250	X		X										X							3	
006	6. MW-11	—	—	—	4-29-15	1700	X		X										X							3	
007	7. MW-12	—	—	—	4-29-15	1355	X		X										X							3	
008	8. MW-14	—	—	—	4-29-15	1220	X		X										X							3	
009	9. MW-15	—	—	—	4-29-15	1124	X		X										X							3	
010	10. MW-15D	—	—	—	4-29-15	1055	X		X										X							3	

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	(Y) N	4-29-15	09:15	[signature]	4/29/15	0915
[signature]	Y (N)	4/30/15	1715		4/30/15	

Samples Shipped VIA: ☐ Air Freight ☒ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

Fed Ex 5/1/15 0945 [signature] 5/1/15 0945 4°C

H:RLG\STDFORMS\Chain Of Custody Form 2009 RLG Rev. 09\01\09

40114075

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

COC 2 of 2

Project Number: 49550029

Project Name: MP85

Sample Origination State WI (use two letter postal state abbreviation)

COC Number: № 44983

Project Manager: JMA2

Project QC Contact: JET

Sampled by: BLQ/NRSQ

Laboratory: Pace

	Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix: Water	Matrix: Soil	Type: Grab	Type: Comp.	Type: QC	Number of Containers/Preservative — Water: VOCs (HCl) #1	SVOCs (unpreserved) #2	Dissolved Metals (HNO_3)	Total Metals (HNO_3)	General (unpreserved) #3	Diesel Range Organics (HCl)	Nutrients (H_2SO_4) #4 PVOC - MTBE	Soil: VOCs (tared MeOH) #1	GRO, BTEX (tared MeOH) #1	DRO (tared unpreserved)	Metals (unpreserved)	SVOCs (unpreserved) #2	% Solids (plastic vial, unpres.)	Total Number Of Containers
011	1. MW-16	—	—	—	4-29-15	1156	X		X									X							3
012	2. MW-17	—	—	—	4-29-15	0945	X		X									X							3
013	3. MW-21	—	—	—	4-29-15	0925	X		X									X							3
014	4. MW-33	—	—	—	4-29-15	1600	X		X									X							3
015	5. MW-34	—	—	—	4-29-15	1455	X		X									X							3
016	6. MW-1	—	—	—	4-29-15	—	X		X									X							3
017	7. trip blank *																								
	8.																								
	9.																								
	10.																								

3-40mL vB

2-40mL vB

Common Parameter/Container - Preservation Key

#1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
#2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
#3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
#4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

* RS 5/1/15 Added by Lab

Relinquished By:	On Ice?	Date	Time	Received by:	Date	Time
[signature]	(Y) N	4-29-15	09:15	[signature]	4/29/15	0915
[signature]	Y (N)	4/30/15	1715			

Samples Shipped VIA: ☐ Air Freight ☒ Federal Express ☐ Sampler ☐ Other: _____

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

Fed Ex 5/1/15 0945 5/1/15 0945 4°C

H:RLG\STDFORMS\Chain Of Custody Form 2009 RLG Rev. 09\01\09

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project #: WO#: 40114075

40114075

Client Name: Barr

Courier: ☒ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: _____

Tracking #: 7735 0055 8578

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR-25 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4 /Corr: 4 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☒ yes ☐ no

Person examining contents:
Date: 5/1/15
Initials: RS

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☐Yes	☑No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☑No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☐N/A	11.
Sample Labels match COC:	☐Yes	☑No	☐N/A	12. 1-4CmLvB I.D. is MP-15
-Includes date/time/ID/Analysis Matrix: W				RS 5/1/15
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☑N/A	
exceptions: (VOA) coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes	☐No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	14.
Trip Blank Present:	☑Yes	☐No	☐N/A	15.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: JJ for DM **Date:** 5-1-15

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

June 18, 2015

Margaret Treanor
Barr Engineering Co.
4700 West 77th Street
Minneapolis, MN 55435

RE: Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Dear Margaret Treanor:
Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

cc: Jim Taraldsen, Barr Engineering

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40116445001	**MW-21**	Water	06/09/15 09:25	06/12/15 09:00
40116445002	**MW-16**	Water	06/09/15 10:30	06/12/15 09:00
40116445003	**MW-15**	Water	06/09/15 10:04	06/12/15 09:00
40116445004	**MW-14**	Water	06/09/15 13:15	06/12/15 09:00
40116445005	**MW-8**	Water	06/09/15 14:38	06/12/15 09:00
40116445006	**MW-6**	Water	06/09/15 12:48	06/12/15 09:00
40116445007	**MW-12**	Water	06/09/15 13:30	06/12/15 09:00
40116445008	**MW-2**	Water	06/09/15 14:20	06/12/15 09:00
40116445009	**MW-34**	Water	06/09/15 11:22	06/12/15 09:00
40116445010	**MW-33**	Water	06/09/15 12:13	06/12/15 09:00
40116445011	**MW-5**	Water	06/09/15 13:55	06/12/15 09:00

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(920)469-2436

SAMPLE ANALYTE COUNT

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40116445001	**MW-21**	EPA 8260	LAP	9
40116445002	**MW-16**	EPA 8260	LAP	9
40116445003	**MW-15**	EPA 8260	LAP	9
40116445004	**MW-14**	EPA 8260	LAP	9
40116445005	**MW-8**	EPA 8260	LAP	9
40116445006	**MW-6**	EPA 8260	LAP	9
40116445007	**MW-12**	EPA 8260	LAP	9
40116445008	**MW-2**	EPA 8260	LAP	9
40116445009	**MW-34**	EPA 8260	LAP	9
40116445010	**MW-33**	EPA 8260	LAP	9
40116445011	**MW-5**	EPA 8260	LAP	9

Pace Analytical Services, Inc.
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Sample: MW-21 **Lab ID: 40116445001** Collected: 06/09/15 09:25 Received: 06/12/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		06/17/15 14:31	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 14:31	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		06/17/15 14:31	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 14:31	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 14:31	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/17/15 14:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%	70-130	1		06/17/15 14:31	1868-53-7	HS
Toluene-d8 (S)	122	%	70-130	1		06/17/15 14:31	2037-26-5	
4-Bromofluorobenzene (S)	121	%	70-130	1		06/17/15 14:31	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Sample: MW-16 **Lab ID: 40116445002** Collected: 06/09/15 10:30 Received: 06/12/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		06/17/15 14:53	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 14:53	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		06/17/15 14:53	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 14:53	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 14:53	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/17/15 14:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%	70-130	1		06/17/15 14:53	1868-53-7	
Toluene-d8 (S)	123	%	70-130	1		06/17/15 14:53	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		06/17/15 14:53	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Sample: MW-15 **Lab ID: 40116445003** Collected: 06/09/15 10:04 Received: 06/12/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		06/17/15 15:16	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 15:16	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		06/17/15 15:16	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 15:16	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 15:16	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/17/15 15:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%	70-130	1		06/17/15 15:16	1868-53-7	
Toluene-d8 (S)	105	%	70-130	1		06/17/15 15:16	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130	1		06/17/15 15:16	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Sample: MW-14 **Lab ID: 40116445004** Collected: 06/09/15 13:15 Received: 06/12/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		06/17/15 15:38	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 15:38	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		06/17/15 15:38	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 15:38	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 15:38	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/17/15 15:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%	70-130	1		06/17/15 15:38	1868-53-7	
Toluene-d8 (S)	106	%	70-130	1		06/17/15 15:38	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		06/17/15 15:38	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Sample: MW-8 **Lab ID: 40116445005** Collected: 06/09/15 14:38 Received: 06/12/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		06/17/15 16:01	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 16:01	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		06/17/15 16:01	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 16:01	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 16:01	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/17/15 16:01	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%	70-130	1		06/17/15 16:01	1868-53-7	
Toluene-d8 (S)	123	%	70-130	1		06/17/15 16:01	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		06/17/15 16:01	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Sample: MW-6 **Lab ID: 40116445006** Collected: 06/09/15 12:48 Received: 06/12/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**2.0**	ug/L	1.0	1		06/16/15 12:49	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/16/15 12:49	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		06/16/15 12:49	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/16/15 12:49	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/16/15 12:49	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/16/15 12:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	70-130	1		06/16/15 12:49	1868-53-7	
Toluene-d8 (S)	102	%	70-130	1		06/16/15 12:49	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130	1		06/16/15 12:49	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Sample: MW-12 **Lab ID: 40116445007** Collected: 06/09/15 13:30 Received: 06/12/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		06/16/15 13:11	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/16/15 13:11	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		06/16/15 13:11	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/16/15 13:11	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/16/15 13:11	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/16/15 13:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%	70-130	1		06/16/15 13:11	1868-53-7	
Toluene-d8 (S)	99	%	70-130	1		06/16/15 13:11	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		06/16/15 13:11	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Sample: MW-2 **Lab ID: 40116445008** Collected: 06/09/15 14:20 Received: 06/12/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<5.0**	ug/L	5.0	5		06/16/15 11:41	71-43-2	
Ethylbenzene	**75.2**	ug/L	5.0	5		06/16/15 11:41	100-41-4	
Toluene	**<5.0**	ug/L	5.0	5		06/16/15 11:41	108-88-3	
1,2,4-Trimethylbenzene	**45.6**	ug/L	5.0	5		06/16/15 11:41	95-63-6	
1,3,5-Trimethylbenzene	**59.5**	ug/L	5.0	5		06/16/15 11:41	108-67-8	
Xylene (Total)	**71.6**	ug/L	15.0	5		06/16/15 11:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	70-130	5		06/16/15 11:41	1868-53-7	D3
Toluene-d8 (S)	103	%	70-130	5		06/16/15 11:41	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	5		06/16/15 11:41	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Sample: MW-34 **Lab ID: 40116445009** Collected: 06/09/15 11:22 Received: 06/12/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**11.3**	ug/L	1.0	1		06/16/15 13:34	71-43-2	
Ethylbenzene	**45.9**	ug/L	1.0	1		06/16/15 13:34	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		06/16/15 13:34	108-88-3	
1,2,4-Trimethylbenzene	**1.8**	ug/L	1.0	1		06/16/15 13:34	95-63-6	
1,3,5-Trimethylbenzene	**22.6**	ug/L	1.0	1		06/16/15 13:34	108-67-8	
Xylene (Total)	**3.4**	ug/L	3.0	1		06/16/15 13:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%	70-130	1		06/16/15 13:34	1868-53-7	HS
Toluene-d8 (S)	100	%	70-130	1		06/16/15 13:34	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		06/16/15 13:34	460-00-4	

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Sample: MW-33 **Lab ID: 40116445010** Collected: 06/09/15 12:13 Received: 06/12/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**12.2**	ug/L	1.0	1		06/16/15 13:56	71-43-2	
Ethylbenzene	**65.3**	ug/L	1.0	1		06/16/15 13:56	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		06/16/15 13:56	108-88-3	
1,2,4-Trimethylbenzene	**10.6**	ug/L	1.0	1		06/16/15 13:56	95-63-6	
1,3,5-Trimethylbenzene	**46.3**	ug/L	1.0	1		06/16/15 13:56	108-67-8	
Xylene (Total)	**12.0**	ug/L	3.0	1		06/16/15 13:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%	70-130	1		06/16/15 13:56	1868-53-7	HS
Toluene-d8 (S)	103	%	70-130	1		06/16/15 13:56	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130	1		06/16/15 13:56	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Sample: MW-5 **Lab ID: 40116445011** Collected: 06/09/15 13:55 Received: 06/12/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<20.0**	ug/L	20.0	20		06/16/15 11:19	71-43-2	
Ethylbenzene	**274**	ug/L	20.0	20		06/16/15 11:19	100-41-4	
Toluene	**<20.0**	ug/L	20.0	20		06/16/15 11:19	108-88-3	
1,2,4-Trimethylbenzene	**151**	ug/L	20.0	20		06/16/15 11:19	95-63-6	
1,3,5-Trimethylbenzene	**54.0**	ug/L	20.0	20		06/16/15 11:19	108-67-8	
Xylene (Total)	**307**	ug/L	60.0	20		06/16/15 11:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%	70-130	20		06/16/15 11:19	1868-53-7	D3
Toluene-d8 (S)	104	%	70-130	20		06/16/15 11:19	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130	20		06/16/15 11:19	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

QC Batch: MSV/28909 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40116445001, 40116445002, 40116445003, 40116445004, 40116445005

METHOD BLANK: 1175967 Matrix: Water
Associated Lab Samples: 40116445001, 40116445002, 40116445003, 40116445004, 40116445005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	06/17/15 07:00	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	06/17/15 07:00	
Benzene	ug/L	<1.0	1.0	06/17/15 07:00	
Ethylbenzene	ug/L	<1.0	1.0	06/17/15 07:00	
Toluene	ug/L	<1.0	1.0	06/17/15 07:00	
Xylene (Total)	ug/L	<3.0	3.0	06/17/15 07:00	
4-Bromofluorobenzene (S)	%	75	70-130	06/17/15 07:00	
Dibromofluoromethane (S)	%	100	70-130	06/17/15 07:00	
Toluene-d8 (S)	%	97	70-130	06/17/15 07:00	

LABORATORY CONTROL SAMPLE & LCSD: 1175968 1175969

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	38.1	37.3	76	75	70-130	2	20	
Ethylbenzene	ug/L	50	40.5	35.9	81	72	70-132	12	20	
Toluene	ug/L	50	39.1	42.5	78	85	70-130	8	20	
Xylene (Total)	ug/L	150	115	110	76	73	70-132	4	20	
4-Bromofluorobenzene (S)	%				105	101	70-130			
Dibromofluoromethane (S)	%				102	102	70-130			
Toluene-d8 (S)	%				99	110	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1177407 1177408

Parameter	Units	40116474008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<1.0	50	50	44.6	47.0	89	94	70-130	5	20	
Ethylbenzene	ug/L	<1.0	50	50	47.1	52.0	94	104	70-132	10	20	
Toluene	ug/L	<1.0	50	50	43.9	49.4	88	99	70-130	12	20	
Xylene (Total)	ug/L	<3.0	150	150	137	136	91	91	70-132	1	20	
4-Bromofluorobenzene (S)	%						95	90	70-130			
Dibromofluoromethane (S)	%						102	101	70-130			
Toluene-d8 (S)	%						94	97	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

QC Batch: MSV/28910 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40116445006, 40116445007, 40116445008, 40116445009, 40116445010, 40116445011

METHOD BLANK: 1176164 Matrix: Water
Associated Lab Samples: 40116445006, 40116445007, 40116445008, 40116445009, 40116445010, 40116445011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	06/16/15 08:41	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	06/16/15 08:41	
Benzene	ug/L	<1.0	1.0	06/16/15 08:41	
Ethylbenzene	ug/L	<1.0	1.0	06/16/15 08:41	
Toluene	ug/L	<1.0	1.0	06/16/15 08:41	
Xylene (Total)	ug/L	<3.0	3.0	06/16/15 08:41	
4-Bromofluorobenzene (S)	%	95	70-130	06/16/15 08:41	
Dibromofluoromethane (S)	%	102	70-130	06/16/15 08:41	
Toluene-d8 (S)	%	101	70-130	06/16/15 08:41	

LABORATORY CONTROL SAMPLE & LCSD: 1176165 1176166

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	49.4	49.3	99	99	70-130	0	20	
Ethylbenzene	ug/L	50	55.6	55.0	111	110	70-132	1	20	
Toluene	ug/L	50	52.1	57.0	104	114	70-130	9	20	
Xylene (Total)	ug/L	150	157	160	105	106	70-132	2	20	
4-Bromofluorobenzene (S)	%				93	104	70-130			
Dibromofluoromethane (S)	%				104	103	70-130			
Toluene-d8 (S)	%				103	112	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1176167 1176168

Parameter	Units	40116534004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	53.0	52.4	106	105	70-130	1	20	
Ethylbenzene	ug/L	<0.50	50	50	58.8	55.6	118	111	70-132	6	20	
Toluene	ug/L	<0.50	50	50	54.2	52.8	108	106	70-130	3	20	
Xylene (Total)	ug/L	<1.5	150	150	168	161	112	107	70-132	4	20	
4-Bromofluorobenzene (S)	%						103	92	70-130			
Dibromofluoromethane (S)	%						102	106	70-130			
Toluene-d8 (S)	%						101	99	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116445

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40116445001	**MW-21**	EPA 8260	MSV/28909		
40116445002	**MW-16**	EPA 8260	MSV/28909		
40116445003	**MW-15**	EPA 8260	MSV/28909		
40116445004	**MW-14**	EPA 8260	MSV/28909		
40116445005	**MW-8**	EPA 8260	MSV/28909		
40116445006	**MW-6**	EPA 8260	MSV/28910		
40116445007	**MW-12**	EPA 8260	MSV/28910		
40116445008	**MW-2**	EPA 8260	MSV/28910		
40116445009	**MW-34**	EPA 8260	MSV/28910		
40116445010	**MW-33**	EPA 8260	MSV/28910		
40116445011	**MW-5**	EPA 8260	MSV/28910		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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mm.

40116445

CHAIN OF COUNTY

(Please Print Clearly)

Company Name:	Barr Engineering
Branch/Location:	Minneapolis
Project Contact:	Margaret Traeger
Phone:	
Project Number:	49/55 00 2015001
Project Name:	Enbridge MP-85
Project State:	Wisconsin
Sampled By (Print):	WARD Mitchell
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

Quote #:	
Mail To Contact:	M, Traeger / cc J Taraldson
Mail To Company:	Barr Engineering
Mail To Address:	
Invoice To Contact:	Enbridge
Invoice To Company:	Houston TX
Invoice To Address:	
Invoice To Phone:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO): Y/N — N
PRESERVATION (CODE)*: Pick Letter — B
Analyses Requested: PVOC / No MTBE

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PVOC / No MTBE	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-21	6-9-15	9:25	GW	X		3-40mL B	
002	MW-16	6-9-15	10:30	GW	X		↓	
003	MW-15	6-9-15	10:04	GW	X			
004	MW-11	6-9-15	1:15	GW	X			
005	MW-8	6-9-15	2:38	GW	X			
006	MW-6	6-9-15	12:48	GW	X			
007	MW-12	6-9-15	1:30	GW	X			
008	MW-2	6-9-15	2:20	GW	X			
009	MW-34	6-9-15	11:27	GW	X			
010	MW-33	6-9-15	12:13	GW	X			
011	MW-5	6-9-15	1:55	GW	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	6-10-15	~~[signature]~~ EM 6/12/15	~~6/R/15 1000~~
Waltco	6/12/15 0900	Ez Mauk	6/12/15 ~~1000~~ 0900 EM 6/12/15

PACE Project No. 40116445

Receipt Temp = ROI °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / ~~Not Present~~
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project # **WO# : 40116445**

40116445

Client Name: Barr Engineering

Courier: ☐ Fed Ex ☐ UPS ☒ Client ☐ Pace Other: Walta

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer Used NA **Type of Ice:** Wet Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 6/12/15
Initials: EM

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes	☐ No	☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes	☐ No	☐ N/A	5.
- VOA Samples frozen upon receipt	☐ Yes	☐ No		Date/Time:
Short Hold Time Analysis (<72hr):	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume:	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used:	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used:	☒ Yes	☐ No	☐ N/A	
-Pace IR Containers Used:	☐ Yes	☐ No	☒ N/A	
Containers Intact:	☒ Yes	☐ No	☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☒ N/A	11.
Sample Labels match COC:	☐ Yes	☒ No	☐ N/A	12. No times on any samples EM 6/12/15
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐ Yes	☐ No	☒ N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐ Yes	☐ No	☒ N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☒ Yes	☐ No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☒ Yes	☐ No	☐ N/A	14. 001(2)(3)003(1) 004(1) 009(1) 010(1) vial EM 6/12/15
Trip Blank Present:	☐ Yes	☒ No	☐ N/A	15.
Trip Blank Custody Seals Present	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: AMH for EM **Date:** 6/12/15

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

June 18, 2015

Margaret Treanor
Barr Engineering Co.
4700 West 77th Street
Minneapolis, MN 55435

RE: Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116446

Dear Margaret Treanor:
Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

cc: Jim Taraldsen, Barr Engineering

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116446

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116446

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40116446001	**MW-7**	Water	06/09/15 15:15	06/12/15 09:00
40116446002	**MW-11**	Water	06/09/15 14:55	06/12/15 09:00
40116446003	**M-1**	Water	06/09/15 00:00	06/12/15 09:00
40116446004	**TRIP**	Water	06/09/15 00:00	06/12/15 09:00

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(920)469-2436

SAMPLE ANALYTE COUNT

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116446

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40116446001	**MW-7**	EPA 8260	HNW	9
40116446002	**MW-11**	EPA 8260	HNW	9
40116446003	**M-1**	EPA 8260	HNW	9
40116446004	**TRIP**	EPA 8260	HNW	9

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116446

Sample: MW-7 **Lab ID: 40116446001** Collected: 06/09/15 15:15 Received: 06/12/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**6.8**	ug/L	2.0	2		06/16/15 19:38	71-43-2	
Ethylbenzene	**25.0**	ug/L	2.0	2		06/16/15 19:38	100-41-4	
Toluene	**<2.0**	ug/L	2.0	2		06/16/15 19:38	108-88-3	
1,2,4-Trimethylbenzene	**38.9**	ug/L	2.0	2		06/16/15 19:38	95-63-6	
1,3,5-Trimethylbenzene	**9.7**	ug/L	2.0	2		06/16/15 19:38	108-67-8	
Xylene (Total)	**58.1**	ug/L	6.0	2		06/16/15 19:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%	70-130	2		06/16/15 19:38	1868-53-7	D3
Toluene-d8 (S)	104	%	70-130	2		06/16/15 19:38	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130	2		06/16/15 19:38	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116446

Sample: MW-11 **Lab ID: 40116446002** Collected: 06/09/15 14:55 Received: 06/12/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<4.0**	ug/L	4.0	4		06/16/15 20:01	71-43-2	
Ethylbenzene	**393**	ug/L	4.0	4		06/16/15 20:01	100-41-4	
Toluene	**4.7**	ug/L	4.0	4		06/16/15 20:01	108-88-3	
1,2,4-Trimethylbenzene	**281**	ug/L	4.0	4		06/16/15 20:01	95-63-6	
1,3,5-Trimethylbenzene	**76.7**	ug/L	4.0	4		06/16/15 20:01	108-67-8	
Xylene (Total)	**2100**	ug/L	12.0	4		06/16/15 20:01	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%	70-130	4		06/16/15 20:01	1868-53-7	
Toluene-d8 (S)	104	%	70-130	4		06/16/15 20:01	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130	4		06/16/15 20:01	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116446

Sample: M-1 **Lab ID: 40116446003** Collected: 06/09/15 00:00 Received: 06/12/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**14.4**	ug/L	1.0	1		06/16/15 18:30	71-43-2	
Ethylbenzene	**67.8**	ug/L	1.0	1		06/16/15 18:30	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		06/16/15 18:30	108-88-3	
1,2,4-Trimethylbenzene	**8.4**	ug/L	1.0	1		06/16/15 18:30	95-63-6	
1,3,5-Trimethylbenzene	**39.4**	ug/L	1.0	1		06/16/15 18:30	108-67-8	
Xylene (Total)	**11.2**	ug/L	3.0	1		06/16/15 18:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%	70-130	1		06/16/15 18:30	1868-53-7	
Toluene-d8 (S)	103	%	70-130	1		06/16/15 18:30	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130	1		06/16/15 18:30	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116446

Sample: TRIP **Lab ID: 40116446004** Collected: 06/09/15 00:00 Received: 06/12/15 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		06/17/15 09:00	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 09:00	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		06/17/15 09:00	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 09:00	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		06/17/15 09:00	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		06/17/15 09:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%	70-130	1		06/17/15 09:00	1868-53-7	
Toluene-d8 (S)	103	%	70-130	1		06/17/15 09:00	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130	1		06/17/15 09:00	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116446

QC Batch: MSV/28927 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40116446001, 40116446002, 40116446003, 40116446004

METHOD BLANK: 1176575 Matrix: Water
Associated Lab Samples: 40116446001, 40116446002, 40116446003, 40116446004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	06/16/15 16:37	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	06/16/15 16:37	
Benzene	ug/L	<1.0	1.0	06/16/15 16:37	
Ethylbenzene	ug/L	<1.0	1.0	06/16/15 16:37	
Toluene	ug/L	<1.0	1.0	06/16/15 16:37	
Xylene (Total)	ug/L	<3.0	3.0	06/16/15 16:37	
4-Bromofluorobenzene (S)	%	100	70-130	06/16/15 16:37	
Dibromofluoromethane (S)	%	109	70-130	06/16/15 16:37	
Toluene-d8 (S)	%	104	70-130	06/16/15 16:37	

LABORATORY CONTROL SAMPLE & LCSD: 1176576 1176577

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	50	59.9	61.7	120	123	70-130	3	20	
Ethylbenzene	ug/L	50	58.3	58.2	117	116	70-132	0	20	
Toluene	ug/L	50	57.1	57.3	114	115	70-130	0	20	
Xylene (Total)	ug/L	150	169	170	113	114	70-132	1	20	
4-Bromofluorobenzene (S)	%				103	104	70-130			
Dibromofluoromethane (S)	%				108	108	70-130			
Toluene-d8 (S)	%				105	103	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1177042 1177043

Parameter	Units	40116446003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	14.4	50	50	77.2	76.1	126	124	70-130	1	20	
Ethylbenzene	ug/L	67.8	50	50	130	127	123	119	70-132	2	20	
Toluene	ug/L	<1.0	50	50	57.2	56.5	114	113	70-130	1	20	
Xylene (Total)	ug/L	11.2	150	150	184	180	116	113	70-132	2	20	
4-Bromofluorobenzene (S)	%						107	105	70-130			
Dibromofluoromethane (S)	%						110	108	70-130			HS
Toluene-d8 (S)	%						104	103	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116446

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40116446

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40116446001	**MW-7**	EPA 8260	MSV/28927		
40116446002	**MW-11**	EPA 8260	MSV/28927		
40116446003	**M-1**	EPA 8260	MSV/28927		
40116446004	**TRIP**	EPA 8260	MSV/28927		

40116446

(Please Print Clearly)

Company Name:	Barr Engineering
Branch/Location:	Minneapolis
Project Contact:	Margaret Trainor
Phone:	Jon Aspice / 218-529-8221
Project Number:	49/55 0029
Project Name:	Enbridge MP85 Extend
Project State:	WI
Sampled By (Print):	WARD MITCHELL
Sampled By (Sign):	[signature]
PO #:	91002
Regulatory Program:	

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Margaret Trainor / cc J Tardsen
Mail To Company:	Barr
Mail To Address:	Minneapolis
Invoice To Contact:	
Invoice To Company:	Enbridge
Invoice To Address:	Houston
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO) Y/N: N
PRESERVATION (CODE)* Pick Letter: B
Analyses Requested: PVOC less MTBE 8260

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PVOC less MTBE 8260	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-7	6-9-15	3:15	GW	X		3-40mLV B	
002	MW-11	6-9-15	2:55	GW	X		↓	
003	M-1	6-9-15	PM	GW	X		↓	
004	TRIP	—	—	—	X		2-40mLV B	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	6-10-15	~~[signature]~~ EM 6/12/15	~~6/12/15 1000~~
Walco	6/12/15 0900	[signature]	6/12/15 0900

PACE Project No. 40116446
Receipt Temp = ROI °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project #: **WO# : 40116446**

40116446

Client Name: Barr Engineering

Courier: ☐ Fed Ex ☐ UPS ☒ Client ☐ Pace Other: Walta

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer Used NA **Type of Ice:** Wet Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 6/12/15
Initials: EYM

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes	☐ No	☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes	☐ No	☐ N/A	5.
- VOA Samples frozen upon receipt	☐ Yes	☐ No		Date/Time:
Short Hold Time Analysis (<72hr):	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume:	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used:	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used:	☒ Yes	☐ No	☐ N/A	
-Pace IR Containers Used:	☐ Yes	☐ No	☒ N/A	
Containers Intact:	☒ Yes	☐ No	☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes	☐ No	☒ N/A	11.
Sample Labels match COC:	☐ Yes	☒ No	☐ N/A	12. No times on any samples DM 6/12/15
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐ Yes	☐ No	☒ N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐ Yes	☐ No	☒ N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☒ Yes	☐ No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☒ Yes	☐ No	☐ N/A	14. 003 (2) DM 6/12
Trip Blank Present:	☒ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present	☒ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased): 328				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: MMH for DM **Date:** 6/12/15

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

October 02, 2015

Margaret Treanor
Barr Engineering Co.
4700 West 77th Street
Minneapolis, MN 55435

RE: Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Dear Margaret Treanor:
Enclosed are the analytical results for sample(s) received by the laboratory on September 29, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

cc: Jim Taraldsen, Barr Engineering

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40121842001	**MW-2**	Water	09/23/15 10:59	09/29/15 08:45
40121842002	**MW-5**	Water	09/22/15 15:27	09/29/15 08:45
40121842003	**MW-6**	Water	09/22/15 14:09	09/29/15 08:45
40121842004	**MW-7**	Water	09/23/15 10:39	09/29/15 08:45
40121842005	**MW-8**	Water	09/23/15 11:21	09/29/15 08:45
40121842006	**MW-11**	Water	09/23/15 11:44	09/29/15 08:45
40121842007	**MW-12**	Water	09/22/15 14:50	09/29/15 08:45
40121842008	**MW-15**	Water	09/22/15 13:03	09/29/15 08:45
40121842009	**MW-14**	Water	09/22/15 14:34	09/29/15 08:45
40121842010	**MW-16**	Water	09/22/15 13:42	09/29/15 08:45
40121842011	**MW-21**	Water	09/22/15 12:30	09/29/15 08:45
40121842012	**MW-33**	Water	09/23/15 10:20	09/29/15 08:45
40121842013	**MW-34**	Water	09/23/15 09:25	09/29/15 08:45
40121842014	**M-1**	Water	09/23/15 00:00	09/29/15 08:45
40121842015	**TRIP BLANK**	Water	09/23/15 00:00	09/29/15 08:45

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SAMPLE ANALYTE COUNT

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40121842001	**MW-2**	EPA 8260	LAP	9
40121842002	**MW-5**	EPA 8260	LAP	9
40121842003	**MW-6**	EPA 8260	LAP	9
40121842004	**MW-7**	EPA 8260	LAP	9
40121842005	**MW-8**	EPA 8260	LAP	9
40121842006	**MW-11**	EPA 8260	LAP	9
40121842007	**MW-12**	EPA 8260	LAP	9
40121842008	**MW-15**	EPA 8260	LAP	9
40121842009	**MW-14**	EPA 8260	LAP	9
40121842010	**MW-16**	EPA 8260	LAP	9
40121842011	**MW-21**	EPA 8260	LAP	9
40121842012	**MW-33**	EPA 8260	LAP	9
40121842013	**MW-34**	EPA 8260	LAP	9
40121842014	**M-1**	EPA 8260	LAP	9
40121842015	**TRIP BLANK**	EPA 8260	HNW	9

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Sample: MW-2 **Lab ID: 40121842001** Collected: 09/23/15 10:59 Received: 09/29/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<5.0**	ug/L	5.0	5		10/01/15 12:15	71-43-2	
Ethylbenzene	**84.3**	ug/L	5.0	5		10/01/15 12:15	100-41-4	
Toluene	**<5.0**	ug/L	5.0	5		10/01/15 12:15	108-88-3	
1,2,4-Trimethylbenzene	**45.1**	ug/L	5.0	5		10/01/15 12:15	95-63-6	
1,3,5-Trimethylbenzene	**54.1**	ug/L	5.0	5		10/01/15 12:15	108-67-8	
Xylene (Total)	**74.2**	ug/L	15.0	5		10/01/15 12:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%	70-130	5		10/01/15 12:15	1868-53-7	D3
Toluene-d8 (S)	101	%	70-130	5		10/01/15 12:15	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130	5		10/01/15 12:15	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Sample: MW-5 **Lab ID: 40121842002** Collected: 09/22/15 15:27 Received: 09/29/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<20.0**	ug/L	20.0	20		10/01/15 12:38	71-43-2	
Ethylbenzene	**244**	ug/L	20.0	20		10/01/15 12:38	100-41-4	
Toluene	**<20.0**	ug/L	20.0	20		10/01/15 12:38	108-88-3	
1,2,4-Trimethylbenzene	**192**	ug/L	20.0	20		10/01/15 12:38	95-63-6	
1,3,5-Trimethylbenzene	**73.9**	ug/L	20.0	20		10/01/15 12:38	108-67-8	
Xylene (Total)	**300**	ug/L	60.0	20		10/01/15 12:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%	70-130	20		10/01/15 12:38	1868-53-7	D3
Toluene-d8 (S)	98	%	70-130	20		10/01/15 12:38	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	20		10/01/15 12:38	460-00-4	

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Sample: MW-6 **Lab ID: 40121842003** Collected: 09/22/15 14:09 Received: 09/29/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		09/30/15 22:07	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/30/15 22:07	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		09/30/15 22:07	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		09/30/15 22:07	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		09/30/15 22:07	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		09/30/15 22:07	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%	70-130	1		09/30/15 22:07	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		09/30/15 22:07	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		09/30/15 22:07	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Sample: MW-7 **Lab ID: 40121842004** Collected: 09/23/15 10:39 Received: 09/29/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**16.4**	ug/L	2.0	2		10/01/15 13:00	71-43-2	
Ethylbenzene	**65.8**	ug/L	2.0	2		10/01/15 13:00	100-41-4	
Toluene	**<2.0**	ug/L	2.0	2		10/01/15 13:00	108-88-3	
1,2,4-Trimethylbenzene	**90.7**	ug/L	2.0	2		10/01/15 13:00	95-63-6	
1,3,5-Trimethylbenzene	**25.3**	ug/L	2.0	2		10/01/15 13:00	108-67-8	
Xylene (Total)	**133**	ug/L	6.0	2		10/01/15 13:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%	70-130	2		10/01/15 13:00	1868-53-7	
Toluene-d8 (S)	100	%	70-130	2		10/01/15 13:00	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130	2		10/01/15 13:00	460-00-4	

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Sample: MW-8 **Lab ID: 40121842005** Collected: 09/23/15 11:21 Received: 09/29/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		10/01/15 08:51	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 08:51	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		10/01/15 08:51	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 08:51	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 08:51	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/01/15 08:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	112	%	70-130	1		10/01/15 08:51	1868-53-7	
Toluene-d8 (S)	97	%	70-130	1		10/01/15 08:51	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/01/15 08:51	460-00-4	

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Sample: MW-11 **Lab ID: 40121842006** Collected: 09/23/15 11:44 Received: 09/29/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<4.0**	ug/L	4.0	4		10/01/15 13:23	71-43-2	
Ethylbenzene	**221**	ug/L	4.0	4		10/01/15 13:23	100-41-4	
Toluene	**<4.0**	ug/L	4.0	4		10/01/15 13:23	108-88-3	
1,2,4-Trimethylbenzene	**203**	ug/L	4.0	4		10/01/15 13:23	95-63-6	
1,3,5-Trimethylbenzene	**59.4**	ug/L	4.0	4		10/01/15 13:23	108-67-8	
Xylene (Total)	**1180**	ug/L	12.0	4		10/01/15 13:23	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%	70-130	4		10/01/15 13:23	1868-53-7	
Toluene-d8 (S)	99	%	70-130	4		10/01/15 13:23	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	4		10/01/15 13:23	460-00-4	

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Sample: MW-12 **Lab ID: 40121842007** Collected: 09/22/15 14:50 Received: 09/29/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		10/01/15 09:14	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 09:14	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		10/01/15 09:14	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 09:14	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 09:14	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/01/15 09:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	112	%	70-130	1		10/01/15 09:14	1868-53-7	
Toluene-d8 (S)	99	%	70-130	1		10/01/15 09:14	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/01/15 09:14	460-00-4	

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Sample: MW-15 **Lab ID: 40121842008** Collected: 09/22/15 13:03 Received: 09/29/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		10/01/15 09:37	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 09:37	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		10/01/15 09:37	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 09:37	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 09:37	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/01/15 09:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	111	%	70-130	1		10/01/15 09:37	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		10/01/15 09:37	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/01/15 09:37	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Sample: MW-14 **Lab ID: 40121842009** Collected: 09/22/15 14:34 Received: 09/29/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		10/01/15 09:59	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 09:59	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		10/01/15 09:59	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 09:59	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 09:59	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/01/15 09:59	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	113	%	70-130	1		10/01/15 09:59	1868-53-7	
Toluene-d8 (S)	101	%	70-130	1		10/01/15 09:59	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/01/15 09:59	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Sample: MW-16 **Lab ID: 40121842010** Collected: 09/22/15 13:42 Received: 09/29/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		10/01/15 10:22	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 10:22	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		10/01/15 10:22	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 10:22	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 10:22	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/01/15 10:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	112	%	70-130	1		10/01/15 10:22	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		10/01/15 10:22	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		10/01/15 10:22	460-00-4	

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Sample: MW-21 **Lab ID: 40121842011** Collected: 09/22/15 12:30 Received: 09/29/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		10/01/15 10:45	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 10:45	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		10/01/15 10:45	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 10:45	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 10:45	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/01/15 10:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	111	%	70-130	1		10/01/15 10:45	1868-53-7	
Toluene-d8 (S)	96	%	70-130	1		10/01/15 10:45	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		10/01/15 10:45	460-00-4	

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Sample: MW-33 **Lab ID: 40121842012** Collected: 09/23/15 10:20 Received: 09/29/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**11.1**	ug/L	1.0	1		10/01/15 11:07	71-43-2	
Ethylbenzene	**70.3**	ug/L	1.0	1		10/01/15 11:07	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		10/01/15 11:07	108-88-3	
1,2,4-Trimethylbenzene	**10**	ug/L	1.0	1		10/01/15 11:07	95-63-6	
1,3,5-Trimethylbenzene	**42.8**	ug/L	1.0	1		10/01/15 11:07	108-67-8	
Xylene (Total)	**12.5**	ug/L	3.0	1		10/01/15 11:07	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%	70-130	1		10/01/15 11:07	1868-53-7	
Toluene-d8 (S)	100	%	70-130	1		10/01/15 11:07	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		10/01/15 11:07	460-00-4	

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Sample: MW-34 **Lab ID: 40121842013** Collected: 09/23/15 09:25 Received: 09/29/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**9.8**	ug/L	1.0	1		10/01/15 11:30	71-43-2	
Ethylbenzene	**48.0**	ug/L	1.0	1		10/01/15 11:30	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		10/01/15 11:30	108-88-3	
1,2,4-Trimethylbenzene	**3.6**	ug/L	1.0	1		10/01/15 11:30	95-63-6	
1,3,5-Trimethylbenzene	**29.9**	ug/L	1.0	1		10/01/15 11:30	108-67-8	
Xylene (Total)	**5.1**	ug/L	3.0	1		10/01/15 11:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%	70-130	1		10/01/15 11:30	1868-53-7	
Toluene-d8 (S)	100	%	70-130	1		10/01/15 11:30	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		10/01/15 11:30	460-00-4	

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ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Sample: M-1 **Lab ID: 40121842014** Collected: 09/23/15 00:00 Received: 09/29/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**11.9**	ug/L	1.0	1		10/01/15 11:52	71-43-2	
Ethylbenzene	**72.8**	ug/L	1.0	1		10/01/15 11:52	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		10/01/15 11:52	108-88-3	
1,2,4-Trimethylbenzene	**10.8**	ug/L	1.0	1		10/01/15 11:52	95-63-6	
1,3,5-Trimethylbenzene	**47.5**	ug/L	1.0	1		10/01/15 11:52	108-67-8	
Xylene (Total)	**13.5**	ug/L	3.0	1		10/01/15 11:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%	70-130	1		10/01/15 11:52	1868-53-7	
Toluene-d8 (S)	101	%	70-130	1		10/01/15 11:52	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		10/01/15 11:52	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Sample: TRIP BLANK **Lab ID: 40121842015** Collected: 09/23/15 00:00 Received: 09/29/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		10/01/15 05:34	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 05:34	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		10/01/15 05:34	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 05:34	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		10/01/15 05:34	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		10/01/15 05:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%	70-130	1		10/01/15 05:34	1868-53-7	
Toluene-d8 (S)	109	%	70-130	1		10/01/15 05:34	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		10/01/15 05:34	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

QUALITY CONTROL DATA

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

QC Batch: MSV/30347
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40121842015

METHOD BLANK: 1228560 Matrix: Water
Associated Lab Samples: 40121842015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	09/30/15 20:54	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	09/30/15 20:54	
Benzene	ug/L	<1.0	1.0	09/30/15 20:54	
Ethylbenzene	ug/L	<1.0	1.0	09/30/15 20:54	
Toluene	ug/L	<1.0	1.0	09/30/15 20:54	
Xylene (Total)	ug/L	<3.0	3.0	09/30/15 20:54	
4-Bromofluorobenzene (S)	%	100	70-130	09/30/15 20:54	
Dibromofluoromethane (S)	%	94	70-130	09/30/15 20:54	
Toluene-d8 (S)	%	112	70-130	09/30/15 20:54	

LABORATORY CONTROL SAMPLE: 1228561

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	48.2	96	70-130	
Ethylbenzene	ug/L	50	52.3	105	70-132	
Toluene	ug/L	50	52.4	105	70-130	
Xylene (Total)	ug/L	150	151	101	70-132	
4-Bromofluorobenzene (S)	%			105	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1228736 1228737

Parameter	Units	40121777008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<1.0	50	50	46.4	48.6	93	97	70-130	5	20	
Ethylbenzene	ug/L	<1.0	50	50	50.5	52.6	101	105	70-132	4	20	
Toluene	ug/L	<1.0	50	50	50.8	51.4	102	103	70-130	1	20	
Xylene (Total)	ug/L	<3.0	150	150	147	151	98	101	70-132	3	20	
4-Bromofluorobenzene (S)	%						100	103	70-130			
Dibromofluoromethane (S)	%						96	95	70-130			
Toluene-d8 (S)	%						111	109	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

QC Batch: MSV/30380 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40121842001, 40121842002, 40121842003, 40121842004, 40121842005, 40121842006, 40121842007, 40121842008, 40121842009, 40121842010, 40121842011, 40121842012, 40121842013, 40121842014

METHOD BLANK: 1229445 Matrix: Water
Associated Lab Samples: 40121842001, 40121842002, 40121842003, 40121842004, 40121842005, 40121842006, 40121842007, 40121842008, 40121842009, 40121842010, 40121842011, 40121842012, 40121842013, 40121842014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	09/30/15 20:37	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	09/30/15 20:37	
Benzene	ug/L	<1.0	1.0	09/30/15 20:37	
Ethylbenzene	ug/L	<1.0	1.0	09/30/15 20:37	
Toluene	ug/L	<1.0	1.0	09/30/15 20:37	
Xylene (Total)	ug/L	<3.0	3.0	09/30/15 20:37	
4-Bromofluorobenzene (S)	%	94	70-130	09/30/15 20:37	
Dibromofluoromethane (S)	%	105	70-130	09/30/15 20:37	
Toluene-d8 (S)	%	99	70-130	09/30/15 20:37	

LABORATORY CONTROL SAMPLE: 1229446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.2	96	70-130	
Ethylbenzene	ug/L	20	20.8	104	70-132	
Toluene	ug/L	20	20.0	100	70-130	
Xylene (Total)	ug/L	60	62.5	104	70-132	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			110	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1229931 1229932

Parameter	Units	40121842003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<1.0	50	50	49.9	49.0	99	97	70-130	2	20	
Ethylbenzene	ug/L	<1.0	50	50	54.1	53.6	107	107	70-132	1	20	
Toluene	ug/L	<1.0	50	50	51.7	51.8	103	103	70-130	0	20	
Xylene (Total)	ug/L	<3.0	150	150	159	158	105	105	70-132	0	20	
4-Bromofluorobenzene (S)	%						102	99	70-130			
Dibromofluoromethane (S)	%						110	103	70-130			
Toluene-d8 (S)	%						102	101	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENBRIDGE MP85 EXLAND49/55-0029
Pace Project No.: 40121842

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40121842001	**MW-2**	EPA 8260	MSV/30380		
40121842002	**MW-5**	EPA 8260	MSV/30380		
40121842003	**MW-6**	EPA 8260	MSV/30380		
40121842004	**MW-7**	EPA 8260	MSV/30380		
40121842005	**MW-8**	EPA 8260	MSV/30380		
40121842006	**MW-11**	EPA 8260	MSV/30380		
40121842007	**MW-12**	EPA 8260	MSV/30380		
40121842008	**MW-15**	EPA 8260	MSV/30380		
40121842009	**MW-14**	EPA 8260	MSV/30380		
40121842010	**MW-16**	EPA 8260	MSV/30380		
40121842011	**MW-21**	EPA 8260	MSV/30380		
40121842012	**MW-33**	EPA 8260	MSV/30380		
40121842013	**MW-34**	EPA 8260	MSV/30380		
40121842014	**M-1**	EPA 8260	MSV/30380		
40121842015	**TRIP BLANK**	EPA 8260	MSV/30347		

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Page 1 of

40121842

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Barr Engineering
Branch/Location:	Minneapolis Minn
Project Contact:	Margaret Treanor
Phone:	
Project Number:	49/55 002015 001
Project Name:	Enbridge MP 85
Project State:	Wisconsin
Sampled By (Print):	WARD MITCHELL
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	m/Treanor cc J Ferguson
Mail To Company:	Barr Engineering
Mail To Address:	4700 W 77th St Minneapolis Minn
Invoice To Contact:	Enbridge
Invoice To Company:	Houston TX
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

FILTERED? (YES/NO) Y/N: N
PRESERVATION (CODE)* Pick Letter: B

Analyses Requested: Pace / No MTBE

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
001	mw-2	9-23	10:59	GW		3-40mlVB
002	mw-5	9-22	3:27	GW		
003	mw-6	9-22	2:09	GW		
004	mw-7	9-23	10:39	GW		
005	mw-8	9-23	11:21	GW		
006	mw-11	9-23	11:44	GW		
007	mw-12	9-22	2:50	GW		
008	mw-15	9-22	1:03	GW		
009	mw-14	9-22	2:34	GW		
010	mw-16	9-22	1:42	GW		
011	mw-21	9-22	12:30	GW		
012	mw-33	9-23	10:20	GW		
013	mw-34	9-23	9:25	GW		

Profile #:

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	9-25-15		
Waltco 92915 845		MainMckayPace 92915 845	

PACE Project No.
40121842

Receipt Temp = 5.5 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / (Not Present)
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Barr Engineering
Branch/Location:	Minneapolis Minn
Project Contact:	Margaret Treanor
Phone:	
Project Number:	49/55 00201500 1
Project Name:	Enbridge MP-85
Project State:	Wisconsin
Sampled By (Print):	Warren Mitchell
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	mtreanor cc J. Tarolson
Mail To Contact:	Barr Engineering
Mail To Company:	
Mail To Address:	4700 W 77th St Minneapolis Minn
Invoice To Contact:	Enbridge
Invoice To Company:	Houston TX
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
Sl = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
014	m-1	9-23	Am	GW	N	B			3-40mlVB	
015	*Trip Blank								2-40mlVB	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	9-25-15		
Waltco 92915	845	Mainmckayface 92915	845

PACE Project No.
40121842

Receipt Temp = 5.5 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / ~~Not Present~~
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006) *added per lab. 92915mm

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project #: WO#: 40121842

40121842

Client Name: Barr Engineering

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace ☐ Other: WaltCo

Tracking #: 877220 1

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR-167 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 5 /Corr: 5.5 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☑ yes ☐ no

Person examining contents:
Date: 92915
Initials: mm

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☐Yes	☑No	☐N/A	2. phone. mm92915
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☐Yes	☑No	☐N/A	12. sample labels on all vials say Am or Pm. mm92915
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☑N/A	
exceptions: VOA coliform, TOC, TOX, TOH, O&G, WIDRW, Phenolics, OTHER:	☑Yes	☐No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	14. 001 - 1 vial, 008 - 2 vials, 012 - 1 vial
Trip Blank Present:	☑Yes	☐No	☐N/A	15. 013 - 1 vial mm92915
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): 080315-3CCL				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution: added trip blank to COC per lab. mm92915
014 is Duplicate MW-1 KF 9/29/15

Project Manager Review: AMH for DM **Date:** 9/29/15

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

December 14, 2015

Margaret Treanor
Barr Engineering Co.
4700 West 77th Street
Minneapolis, MN 55435

RE: Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Dear Margaret Treanor:
Enclosed are the analytical results for sample(s) received by the laboratory on December 11, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

cc: Jim Taraldsen, Barr Engineering

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

SAMPLE SUMMARY

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40126015001	**MW-21**	Water	12/08/15 08:59	12/11/15 08:45
40126015002	**MW-17**	Water	12/08/15 09:27	12/11/15 08:45
40126015003	**MW-16**	Water	12/08/15 09:59	12/11/15 08:45
40126015004	**MW-15D**	Water	12/08/15 11:20	12/11/15 08:45
40126015005	**MW-15**	Water	12/08/15 11:41	12/11/15 08:45
40126015006	**MW-34**	Water	12/08/15 12:49	12/11/15 08:45
40126015007	**MW-33**	Water	12/08/15 13:41	12/11/15 08:45
40126015008	**MW-13**	Water	12/08/15 14:07	12/11/15 08:45
40126015009	**MW-6**	Water	12/08/15 14:28	12/11/15 08:45
40126015010	**MW-14**	Water	12/08/15 14:53	12/11/15 08:45
40126015011	**MW-5**	Water	12/08/15 15:13	12/11/15 08:45
40126015012	**MW-2**	Water	12/08/15 15:31	12/11/15 08:45
40126015013	**MW-4**	Water	12/09/15 09:06	12/11/15 08:45
40126015014	**MW-9**	Water	12/09/15 09:21	12/11/15 08:45
40126015015	**MW-8**	Water	12/09/15 09:38	12/11/15 08:45
40126015016	**MW-3**	Water	12/09/15 09:55	12/11/15 08:45
40126015017	**MW-7**	Water	12/09/15 10:20	12/11/15 08:45
40126015018	**MW-11**	Water	12/09/15 10:45	12/11/15 08:45
40126015019	**M-1**	Water	12/08/15 00:00	12/11/15 08:45
40126015020	**TB**	Water	12/08/15 00:00	12/11/15 08:45

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40126015001	MW-21	EPA 8260	AJP	9
40126015002	MW-17	EPA 8260	AJP	9
40126015003	MW-16	EPA 8260	AJP	9
40126015004	MW-15D	EPA 8260	AJP	9
40126015005	MW-15	EPA 8260	AJP	9
40126015006	MW-34	EPA 8260	AJP	9
40126015007	MW-33	EPA 8260	AJP	9
40126015008	MW-13	EPA 8260	AJP	9
40126015009	MW-6	EPA 8260	AJP	9
40126015010	MW-14	EPA 8260	AJP	9
40126015011	MW-5	EPA 8260	AJP	9
40126015012	MW-2	EPA 8260	AJP	9
40126015013	MW-4	EPA 8260	AJP	9
40126015014	MW-9	EPA 8260	AJP	9
40126015015	MW-8	EPA 8260	AJP	9
40126015016	MW-3	EPA 8260	AJP	9
40126015017	MW-7	EPA 8260	AJP	9
40126015018	MW-11	EPA 8260	AJP	9
40126015019	M-1	EPA 8260	AJP	9
40126015020	TB	EPA 8260	AJP	9

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-21 **Lab ID: 40126015001** Collected: 12/08/15 08:59 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		12/12/15 10:46	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 10:46	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 10:46	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 10:46	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 10:46	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/12/15 10:46	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%	70-130	1		12/12/15 10:46	1868-53-7	
Toluene-d8 (S)	97	%	70-130	1		12/12/15 10:46	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130	1		12/12/15 10:46	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-17 **Lab ID: 40126015002** Collected: 12/08/15 09:27 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		12/12/15 11:09	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 11:09	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 11:09	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 11:09	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 11:09	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/12/15 11:09	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%	70-130	1		12/12/15 11:09	1868-53-7	
Toluene-d8 (S)	101	%	70-130	1		12/12/15 11:09	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130	1		12/12/15 11:09	460-00-4	

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-16 **Lab ID: 40126015003** Collected: 12/08/15 09:59 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		12/12/15 11:31	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 11:31	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 11:31	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 11:31	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 11:31	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/12/15 11:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	70-130	1		12/12/15 11:31	1868-53-7	
Toluene-d8 (S)	100	%	70-130	1		12/12/15 11:31	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130	1		12/12/15 11:31	460-00-4	

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-15D **Lab ID: 40126015004** Collected: 12/08/15 11:20 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		12/12/15 11:54	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 11:54	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 11:54	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 11:54	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 11:54	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/12/15 11:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%	70-130	1		12/12/15 11:54	1868-53-7	
Toluene-d8 (S)	101	%	70-130	1		12/12/15 11:54	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130	1		12/12/15 11:54	460-00-4	

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-15 **Lab ID: 40126015005** Collected: 12/08/15 11:41 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		12/12/15 12:17	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 12:17	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 12:17	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 12:17	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 12:17	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/12/15 12:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%	70-130	1		12/12/15 12:17	1868-53-7	
Toluene-d8 (S)	99	%	70-130	1		12/12/15 12:17	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130	1		12/12/15 12:17	460-00-4	

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-34 **Lab ID: 40126015006** Collected: 12/08/15 12:49 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**9.9**	ug/L	1.0	1		12/12/15 12:39	71-43-2	
Ethylbenzene	**53.6**	ug/L	1.0	1		12/12/15 12:39	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 12:39	108-88-3	
1,2,4-Trimethylbenzene	**1.7**	ug/L	1.0	1		12/12/15 12:39	95-63-6	
1,3,5-Trimethylbenzene	**32.4**	ug/L	1.0	1		12/12/15 12:39	108-67-8	
Xylene (Total)	**6.0**	ug/L	3.0	1		12/12/15 12:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	70-130	1		12/12/15 12:39	1868-53-7	
Toluene-d8 (S)	99	%	70-130	1		12/12/15 12:39	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/12/15 12:39	460-00-4	

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-33 **Lab ID: 40126015007** Collected: 12/08/15 13:41 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**12.3**	ug/L	1.0	1		12/12/15 13:02	71-43-2	
Ethylbenzene	**72.7**	ug/L	1.0	1		12/12/15 13:02	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 13:02	108-88-3	
1,2,4-Trimethylbenzene	**11.2**	ug/L	1.0	1		12/12/15 13:02	95-63-6	
1,3,5-Trimethylbenzene	**48.3**	ug/L	1.0	1		12/12/15 13:02	108-67-8	
Xylene (Total)	**15.4**	ug/L	3.0	1		12/12/15 13:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%	70-130	1		12/12/15 13:02	1868-53-7	
Toluene-d8 (S)	104	%	70-130	1		12/12/15 13:02	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/12/15 13:02	460-00-4	

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-13 **Lab ID: 40126015008** Collected: 12/08/15 14:07 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		12/12/15 10:01	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 10:01	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 10:01	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 10:01	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 10:01	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/12/15 10:01	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	70-130	1		12/12/15 10:01	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		12/12/15 10:01	2037-26-5	
4-Bromofluorobenzene (S)	88	%	70-130	1		12/12/15 10:01	460-00-4	

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-6 **Lab ID: 40126015009** Collected: 12/08/15 14:28 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**1.6**	ug/L	1.0	1		12/12/15 13:25	71-43-2	
Ethylbenzene	**1.3**	ug/L	1.0	1		12/12/15 13:25	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 13:25	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 13:25	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 13:25	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/12/15 13:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	70-130	1		12/12/15 13:25	1868-53-7	
Toluene-d8 (S)	105	%	70-130	1		12/12/15 13:25	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		12/12/15 13:25	460-00-4	

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-14 **Lab ID: 40126015010** Collected: 12/08/15 14:53 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		12/12/15 13:47	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 13:47	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 13:47	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 13:47	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 13:47	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/12/15 13:47	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%	70-130	1		12/12/15 13:47	1868-53-7	
Toluene-d8 (S)	100	%	70-130	1		12/12/15 13:47	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130	1		12/12/15 13:47	460-00-4	

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-5 **Lab ID: 40126015011** Collected: 12/08/15 15:13 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<20.0**	ug/L	20.0	20		12/12/15 16:26	71-43-2	
Ethylbenzene	**167**	ug/L	20.0	20		12/12/15 16:26	100-41-4	
Toluene	**<20.0**	ug/L	20.0	20		12/12/15 16:26	108-88-3	
1,2,4-Trimethylbenzene	**116**	ug/L	20.0	20		12/12/15 16:26	95-63-6	
1,3,5-Trimethylbenzene	**43.7**	ug/L	20.0	20		12/12/15 16:26	108-67-8	
Xylene (Total)	**241**	ug/L	60.0	20		12/12/15 16:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%	70-130	20		12/12/15 16:26	1868-53-7	D3
Toluene-d8 (S)	99	%	70-130	20		12/12/15 16:26	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130	20		12/12/15 16:26	460-00-4	

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-2 **Lab ID: 40126015012** Collected: 12/08/15 15:31 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<5.0**	ug/L	5.0	5		12/12/15 16:03	71-43-2	
Ethylbenzene	**122**	ug/L	5.0	5		12/12/15 16:03	100-41-4	
Toluene	**<5.0**	ug/L	5.0	5		12/12/15 16:03	108-88-3	
1,2,4-Trimethylbenzene	**112**	ug/L	5.0	5		12/12/15 16:03	95-63-6	
1,3,5-Trimethylbenzene	**55.8**	ug/L	5.0	5		12/12/15 16:03	108-67-8	
Xylene (Total)	**395**	ug/L	15.0	5		12/12/15 16:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%	70-130	5		12/12/15 16:03	1868-53-7	D3
Toluene-d8 (S)	101	%	70-130	5		12/12/15 16:03	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	5		12/12/15 16:03	460-00-4	

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-4 **Lab ID: 40126015013** Collected: 12/09/15 09:06 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		12/12/15 14:10	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 14:10	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 14:10	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 14:10	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 14:10	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/12/15 14:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%	70-130	1		12/12/15 14:10	1868-53-7	
Toluene-d8 (S)	100	%	70-130	1		12/12/15 14:10	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130	1		12/12/15 14:10	460-00-4	

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-9 **Lab ID: 40126015014** Collected: 12/09/15 09:21 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		12/12/15 14:33	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 14:33	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 14:33	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 14:33	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 14:33	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/12/15 14:33	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%	70-130	1		12/12/15 14:33	1868-53-7	
Toluene-d8 (S)	99	%	70-130	1		12/12/15 14:33	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130	1		12/12/15 14:33	460-00-4	

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-8 **Lab ID: 40126015015** Collected: 12/09/15 09:38 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		12/12/15 14:55	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 14:55	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 14:55	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 14:55	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 14:55	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/12/15 14:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	70-130	1		12/12/15 14:55	1868-53-7	
Toluene-d8 (S)	100	%	70-130	1		12/12/15 14:55	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130	1		12/12/15 14:55	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-3 **Lab ID: 40126015016** Collected: 12/09/15 09:55 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		12/12/15 15:18	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 15:18	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 15:18	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 15:18	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 15:18	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/12/15 15:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%	70-130	1		12/12/15 15:18	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		12/12/15 15:18	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130	1		12/12/15 15:18	460-00-4	

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-7 **Lab ID: 40126015017** Collected: 12/09/15 10:20 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**10.0**	ug/L	2.0	2		12/12/15 17:11	71-43-2	
Ethylbenzene	**39.3**	ug/L	2.0	2		12/12/15 17:11	100-41-4	
Toluene	**<2.0**	ug/L	2.0	2		12/12/15 17:11	108-88-3	
1,2,4-Trimethylbenzene	**56.1**	ug/L	2.0	2		12/12/15 17:11	95-63-6	
1,3,5-Trimethylbenzene	**15.2**	ug/L	2.0	2		12/12/15 17:11	108-67-8	
Xylene (Total)	**84.9**	ug/L	6.0	2		12/12/15 17:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%	70-130	2		12/12/15 17:11	1868-53-7	D3
Toluene-d8 (S)	98	%	70-130	2		12/12/15 17:11	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130	2		12/12/15 17:11	460-00-4	

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: MW-11 **Lab ID: 40126015018** Collected: 12/09/15 10:45 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<4.0**	ug/L	4.0	4		12/12/15 16:49	71-43-2	
Ethylbenzene	**226**	ug/L	4.0	4		12/12/15 16:49	100-41-4	
Toluene	**6.7**	ug/L	4.0	4		12/12/15 16:49	108-88-3	
1,2,4-Trimethylbenzene	**251**	ug/L	4.0	4		12/12/15 16:49	95-63-6	
1,3,5-Trimethylbenzene	**69.7**	ug/L	4.0	4		12/12/15 16:49	108-67-8	
Xylene (Total)	**1310**	ug/L	12.0	4		12/12/15 16:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	70-130	4		12/12/15 16:49	1868-53-7	
Toluene-d8 (S)	101	%	70-130	4		12/12/15 16:49	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	4		12/12/15 16:49	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: M-1 **Lab ID: 40126015019** Collected: 12/08/15 00:00 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**12.0**	ug/L	1.0	1		12/12/15 15:41	71-43-2	
Ethylbenzene	**70.6**	ug/L	1.0	1		12/12/15 15:41	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 15:41	108-88-3	
1,2,4-Trimethylbenzene	**10.8**	ug/L	1.0	1		12/12/15 15:41	95-63-6	
1,3,5-Trimethylbenzene	**48.5**	ug/L	1.0	1		12/12/15 15:41	108-67-8	
Xylene (Total)	**14.6**	ug/L	3.0	1		12/12/15 15:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%	70-130	1		12/12/15 15:41	1868-53-7	
Toluene-d8 (S)	101	%	70-130	1		12/12/15 15:41	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130	1		12/12/15 15:41	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Sample: TB **Lab ID: 40126015020** Collected: 12/08/15 00:00 Received: 12/11/15 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**<1.0**	ug/L	1.0	1		12/12/15 10:24	71-43-2	
Ethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 10:24	100-41-4	
Toluene	**<1.0**	ug/L	1.0	1		12/12/15 10:24	108-88-3	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 10:24	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		12/12/15 10:24	108-67-8	
Xylene (Total)	**<3.0**	ug/L	3.0	1		12/12/15 10:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	70-130	1		12/12/15 10:24	1868-53-7	
Toluene-d8 (S)	100	%	70-130	1		12/12/15 10:24	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/12/15 10:24	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Green Bay, WI 54302
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QUALITY CONTROL DATA

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

QC Batch: MSV/31590 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40126015001, 40126015002, 40126015003, 40126015004, 40126015005, 40126015006, 40126015007, 40126015008, 40126015009, 40126015010, 40126015011, 40126015012, 40126015013, 40126015014, 40126015015, 40126015016, 40126015017, 40126015018, 40126015019, 40126015020

METHOD BLANK: 1272979 Matrix: Water
Associated Lab Samples: 40126015001, 40126015002, 40126015003, 40126015004, 40126015005, 40126015006, 40126015007, 40126015008, 40126015009, 40126015010, 40126015011, 40126015012, 40126015013, 40126015014, 40126015015, 40126015016, 40126015017, 40126015018, 40126015019, 40126015020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	12/12/15 08:31	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	12/12/15 08:31	
Benzene	ug/L	<1.0	1.0	12/12/15 08:31	
Ethylbenzene	ug/L	<1.0	1.0	12/12/15 08:31	
Toluene	ug/L	<1.0	1.0	12/12/15 08:31	
Xylene (Total)	ug/L	<3.0	3.0	12/12/15 08:31	
4-Bromofluorobenzene (S)	%	89	70-130	12/12/15 08:31	
Dibromofluoromethane (S)	%	97	70-130	12/12/15 08:31	
Toluene-d8 (S)	%	99	70-130	12/12/15 08:31	

LABORATORY CONTROL SAMPLE: 1272980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	50.3	101	70-130	
Ethylbenzene	ug/L	50	52.8	106	70-132	
Toluene	ug/L	50	51.3	103	70-130	
Xylene (Total)	ug/L	150	154	102	70-132	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1272981 1272982

Parameter	Units	40126015008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<1.0	50	50	50.1	51.7	100	103	70-130	3	20	
Ethylbenzene	ug/L	<1.0	50	50	53.8	55.1	108	110	70-132	2	20	
Toluene	ug/L	<1.0	50	50	52.1	52.5	104	105	70-130	1	20	
Xylene (Total)	ug/L	<3.0	150	150	156	157	104	105	70-132	1	20	
4-Bromofluorobenzene (S)	%						96	100	70-130			
Dibromofluoromethane (S)	%						100	100	70-130			
Toluene-d8 (S)	%						99	99	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Pace Analytical Services, Inc.
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Green Bay, WI 54302
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 49/55002015001 ENBRIDGE MP-85
Pace Project No.: 40126015

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40126015001	**MW-21**	EPA 8260	MSV/31590		
40126015002	**MW-17**	EPA 8260	MSV/31590		
40126015003	**MW-16**	EPA 8260	MSV/31590		
40126015004	**MW-15D**	EPA 8260	MSV/31590		
40126015005	**MW-15**	EPA 8260	MSV/31590		
40126015006	**MW-34**	EPA 8260	MSV/31590		
40126015007	**MW-33**	EPA 8260	MSV/31590		
40126015008	**MW-13**	EPA 8260	MSV/31590		
40126015009	**MW-6**	EPA 8260	MSV/31590		
40126015010	**MW-14**	EPA 8260	MSV/31590		
40126015011	**MW-5**	EPA 8260	MSV/31590		
40126015012	**MW-2**	EPA 8260	MSV/31590		
40126015013	**MW-4**	EPA 8260	MSV/31590		
40126015014	**MW-9**	EPA 8260	MSV/31590		
40126015015	**MW-8**	EPA 8260	MSV/31590		
40126015016	**MW-3**	EPA 8260	MSV/31590		
40126015017	**MW-7**	EPA 8260	MSV/31590		
40126015018	**MW-11**	EPA 8260	MSV/31590		
40126015019	**M-1**	EPA 8260	MSV/31590		
40126015020	**TB**	EPA 8260	MSV/31590		

(Please Print Clearly)

Company Name:	Barr Engineering
Branch/Location:	Minneapolis Minn
Project Contact:	Margaret Treaner
Phone:	
Project Number:	49/5500 2015001
Project Name:	Enbridge MP-85
Project State:	Wisconsin
Sampled By (Print):	Elizabeth Stempihar
Sampled By (Sign):	Elizabeth Stempihar
PO #:	Regulatory Program:

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

SKW

40126015

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO) — Y / N: N
PRESERVATION (CODE)* — Pick Letter: B
Analyses Requested: PVOC/No MTBE

Quote #:	
Mail To Contact:	M/Treaner cc T Tareldson
Mail To Company:	Barr Engineering
Mail To Address:	4700 W 77th St. Minneapolis Minn
Invoice To Contact:	Enbridge
Invoice To Company:	Houston TX
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PVOC/No MTBE	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	mw-21	12/8/15	8:59	GW	X		3-40ml v B	
002	mw-17	12/8/15	9:27	GW	X			
003	mw-16	12/8/15	9:59	GW	X			
004	mw-15d	12/8/15	11:20	GW	X			
005	mw-15	12/8/15	11:41	GW	X			
006	mw-34	12/8/15	12:49	GW	X			
007	mw-33	12/8/15	1:41	GW	X			
008	mw-13	12/8/15	2:07	GW	X			
009	mw-6	12/8/15	2:28	GW	X			
010	mw-14	12/8/15	2:53	GW	X			
011	mw-5	12/8/15	3:13	GW	X			
012	mw-2	12/8/15	3:31	GW	X			
013	mw-4	12/9/15	9:06	GW	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Elizabeth Stempihar	12/9/15 3:29pm		
WaHC	12/11/15 0845	Pace	12/11/15 0845

PACE Project No. 4012605
Receipt Temp = ROI °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal
Present / ~~Not Present~~
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)

Company Name:	Barr Engineering
Branch/Location:	Minneapolis Minn
Project Contact:	Margaret Treaner
Phone:	
Project Number:	49/55002015001
Project Name:	Enbridge MP-85
Project State:	Wisconsin
Sampled By (Print):	Elizabeth Stempihar
Sampled By (Sign):	Elizabeth Stempihar
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	M/Treaner cc T Tareldson
Mail To Company:	Barr Engineering
Mail To Address:	4700 W 77th St. Minneapolis Minn
Invoice To Contact:	Enbridge
Invoice To Company:	Houston TX
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

FILTERED? (YES/NO) Y/N: N
PRESERVATION (CODE)* Pick Letter: B

Analyses Requested: PVOC/No MTBE

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
014	MW-9	12/9/15	9:21	GW		3-40mlv B
015	MW-8	12/9/15	9:38	GW		
016	MW-3	12/9/15	9:55	GW		
017	MW-7	12/9/15	10:20	GW		
018	MW-11	12/9/15	10:45	GW		
019	MW-1	12/8/15	PM	GW		
020	(1) TB					2-40mlv B

Profile #

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Elizabeth Stempihar	12/9/15 3:29pm		
Walter	12/11/15 0845	Rosa Pace	12/11/15 0845

PACE Project No.: 40126015
Receipt Temp = ROI °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal: Present / Not Present
Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

(1) lab added to COC 12/11/15 TL

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical™

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: **WO#: 40126015**

40126015

Client Name: Barr Engineering

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Waltco

Tracking #: 9312109-1

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☒ yes ☐ no

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:
Date: 12/11/15
Initials: TL

		Comments:
Chain of Custody Present:	☐Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☐Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☐No ☐N/A	7.
Sufficient Volume:	☐Yes ☐No ☐N/A	8.
Correct Containers Used:	☐Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☐N/A	
Containers Intact:	☐Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☐N/A	11.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. 003-019 no collect time
-Includes date/time/ID/Analysis Matrix: W		019 ID Duplicate M-1 12/11/15 TL
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☒N/A	
exceptions: (VOA), coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☒Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☒Yes ☐No ☐N/A	14. 007 1of3 017 1of3 12/11/15 TL
Trip Blank Present:	☒Yes ☐No ☐N/A	15. (1) lab added to COC, received in shipment
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		12/11/15 TL

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Anett for DM **Date:** 12/11/15

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