Corrected: 2010-02-09 EB-2009-0172

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2010 FORECAST COSTS OF SEWER LATERAL INITIATIVE

- 1. Details of Enbridge's forecast of 2010 costs related to each of the constituent elements of its Sewer Lateral Initiative are set out below.
- 2. For each element, a chart is presented which sets out the categories of costs, whether the costs are capital or O&M, and the total cost of that element.

a. New construction and excavation techniques

| Expenditure Description | Expenditure <u>Type</u> | Expenditure Cost | Total Volume <u>of Work</u> |
|--|----------------------------|---------------------|--------------------------------|
| Sewer Lateral Locate - Perform sewer lateral locates. | Capital | \$1,232,617 | 6555 |
| Transition Holes - Excavations required to maintain minimum depth during the installation of mains and services. | Capital | \$123,894 | 3520 |
| Daylight Witness Holes - Excavations required to determine that minimum clearances are maintained at sewer lateral crossing locations. | Capital | \$51,833 | 880 |
| Site Specific Construction - Additional construction costs incurred when sewer lateral locates are unsuccessful. | Capital | \$91,656 | 3605 |
| Total Cost | | \$1,500,000 | |

Witnesses: C. Clark

L. Lawler

Corrected: 2010-02-09

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b. <u>Investigate and address potential crossbore locations</u>

| Expenditure Description | Expenditure <u>Type</u> | Expenditure Cost | Total Volume of Work |
|---|----------------------------|---------------------|-------------------------|
| Sewer Lateral Investigations - Perform video inspection of sewer laterals. | M&O | \$766,145 | 1817 |
| Performance Standard Inspector Investigation - Perform gas locates and site verifications for areas where sewer lateral investigations were not possible. | O&M | \$33,311 | 999 |
| Daylighting Inspections - Excavate and inspect areas of possible crossbores where sewer lateral investigations are not possible. | O&M | \$33,311 | 91 |
| Relocations, Relays, Pipe Replacements - Complete work when a crossbore is found. | Capital | \$131,571 | 26 |
| Total Cost | | \$964,338 | |

Witnesses: C. Clark L. Lawler

Corrected: 2010-02-09

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c. Public information campaign and follow-up

| Expenditure Description | Expenditure <u>Type</u> | Expenditure Cost | Total Volume of Work |
|--|----------------------------|---------------------|-------------------------|
| Ontario One Call Services - Call centre services to take call and dispatch appropriate locate service provider. | O&M | \$21,400 | 8646 |
| Emergency Natural Gas Locate - The completion of a natural gas locate on an emergency basis. | O&M | \$403,500 | 8646 |
| Ontario One Call Services - Call centre services to take call and dispatch appropriate locate service provider. | Capital | \$2,378 | 8646 |
| Emergency Natural Gas Locate - The completion of a natural gas locate on an emergency basis. | Capital | \$44,850 | 8646 |
| Emergency Sewer Lateral Investigation - The completion of an emergency sewer lateral inspection and/or utility clearance process. | O&M | \$1,073,040 | 1729 |
| Daylighting Inspections - Excavate and inspect areas of possible crossbores where sewer lateral investigations are not possible or are inconclusive. | O&M | \$172,000 | 86 |
| Potential Claims and Program Incentives - The compensation that will be sought by plumbers/drain cleaners/homeowners for standby time. | O&M | \$683,000 | 4700 |
| Education Materials - All publicity materials, public meeting and mailing costs. | O&M | \$300,000 | 2000000 |
| Total Cost | | \$2,700,168 | |

Witnesses: C. Clark L. Lawler

Corrected: 2010-02-09 EB-2009-0172

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d. IT upgrades and tracking

| Expenditure Description | Expenditure <u>Type</u> | Expenditure <u>Cost</u> |
|--|----------------------------|----------------------------|
| System change required to record the method used to install the service line. | Capital | \$13,000 |
| System change required to record method of installation between nodes of every section of main. | Capital | \$21,000 |
| System change required for record system to be used to track the inspection work/areas completed during the sewer lateral investigation. | Capital | N/A |
| I.T. Maintenance of Sewer Lateral Programs - Required server maintenance to sewer lateral storage servers. | O&M | \$10,000 |
| Sewer Lateral Clearance Tracking - The addition of resources to record sewer lateral clearance in the GIS system and to investigate as-laid construction drawings for construction method. | O&M | \$50,100 |
| Sewer Lateral Clearance Tracking - The addition of resources to record sewer lateral clearance in the GIS system and to investigate as-laid construction drawings for construction method. | Capital | \$144,900 |
| System change required to create job codes necessary to send sewer lateral investigative contractors out on emergency investigations. | Capital | \$14,000 |
| Total Cost | | \$253,000 |

Witnesses: C. Clark L. Lawler

Corrected: 2010-02-09

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e. Research and development efforts

| Expenditure Description | Expenditure Type | Expenditure Cost |
|---|------------------|------------------|
| Research and development of Sewer Lateral locating technologies - Research and develop safe and more cost-effective methods of locating sewer laterals. | Capital | \$300,000 |
| Total Cost | | \$300.000 |

Witnesses: C. Clark

L. Lawler