ENVIRONMENTAL PROTECTION ACT PETROLEUM HYDROCARBON REMEDIATION REGULATIONS AMENDMENT

Pursuant to section 25 of the *Environmental Protection Act* R.S.P.E.I. 1988, Cap. E-9, Council made the following regulations:

- 1. Section 1 of the *Environmental Protection Act* Petroleum Hydrocarbon Remediation Regulations (EC655/06) is amended
 - (a) in clause (m), by the deletion of the words "Version 2" and the substitution of the words "Version 3"; and
 - (b) in clause (p), by the deletion of the words "Version 2" and the substitution of the words "Version 3".
- 2. Subsection 2(2) is amended by the deletion of the words "or groundwater" and the substitution of the words ", sediment, groundwater or surface water".
- 3. Schedule A, Tables 1 to 4 of the regulations are revoked and Tables 1 to 10 of Schedule A as set out in Schedule 1 to these regulations are substituted.
- 4. Schedule C of the regulations is revoked and Schedule C as set out in Schedule 2 to these regulations is substituted.
- 5. Form 1 of Schedule E of the regulations is amended $\,$
 - (a) by the deletion of the words "Director of Pollution Prevention Division, 11 Kent Street, Jones Building, Charlottetown, PEI C1A 7N8, Phone: (902) 368-5474" and the substitution of the words "Director of Environment Division, 11 Kent Street, Jones Building, Charlottetown, PEI C1A 7N8, Phone: (902) 368-5028"; and
 - (b) by the deletion of the words

"Please forward application to:

Department of Environment, Energy & Forestry Pollution Prevention Division, Field Supervisor PO Box 2000, 11 Kent Street Charlottetown, PE C1A 7N8

Fax: (902) 368-5830" and the substitution of the words

"Please forward application to:

Fax: (902) 368-5830".

Department of Environment, Labour and Justice Environment Division, Environmental and Regulatory Coordinator PO Box 2000, 11 Kent Street Charlottetown, PE C1A 7N8 **6. Form 2 of Schedule E of the regulations is amended by the deletion of the words** "Minister of Environment, Energy and Forestry" **wherever they occur and the substitution of the words** "Minister of Environment, Labour and Justice and Attorney General".

7. These regulations come into force on April 13, 2013.

SCHEDULE 1 SCHEDULE A **Lookup Tables**

| Decidual Caturation (DEC) | | I TOTAL COMM | Mon Dotable | Industrial | Dotable | Noll-Foldble | | Commercial | Dotable | HOIL ORDIN | Non Dotah | | Dotable | HOII-I ORD | Agriculturar | Agricultural | Dotable | Use | Land Use Groundwater | | |
|---------------------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|---------------------------|-------------------------|---------------------|--|
| | Coarse Grained | Fine Grained | Coarse Grained | | ter Soil Type | | TOTAL TRANSPORT OF COLUMN POWER OF COMPANY |
| 1000 | 890 | 33 | 2.5 | 0.094 | 0.042 | 33 | 2.5 | 0.094 | 0.042 | 2.3 | 0.099 | 0.094 | 0.042 | 2.3 | 0.099 | 0.094 | 0.042 | Benzene | | | New Due |
| 180 | 450 | 10,000 | 10,000 | 0.74 | 0.35 | 10,000 | 10,000 | 0.74 | 0.35 | 10,000 | 77 | 0.74 | 0.35 | 10,000 | 77 | 0.74 | 0.35 | Toluene | | | 0 |
| 250 | 240 | 10,000 | 10,000 | 0.13 | 0.065 | 10,000 | 10,000 | 0.13 | 0.065 | 9,300 | 30 | 0.13 | 0.065 | 9,300 | 30 | 0.13 | 0.065 | benzene | Ethy | 0) | S Lovein |
| 360 | 340 | 10,000 | 110 | 22 | 11 | 10,000 | 110 | 22 | 11 | 210 | 8.8 | 22 | 8.8 | 210 | 8.8 | 22 | 8.8 | Xylene | | Compound of Concern | 7 0011 1119/ |
| | | 10,000 | 870 | 1,900 | 870 | 10,000 | 870 | 1900 | 870 | 2,100 | 74 | 1,900 | 74 | 2,100 | 74 | 1,900 | 74 | Gasoline | Mod | oncern | ý |
| | | 10,000 | 4,000 | 4,700 | 1,800 | 10,000 | 4,000 | 4,700 | 1,800 | 8,600 | 270 | 4,700 | 270 | 8,600 | 270 | 4,700 | 270 | Diesel/ No. 2 Fuel Oil | Modified TPH (TPH-BTEX) | | |
| | | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 1,100 | 10,000 | 1,100 | 10,000 | 1,100 | 10,000 | 1,100 | No. 6 Oil/ Lube Oil | втех) | | |

TABLE 1: Tier I Risk Based Screening Levels for Soil (mg/kg)

| Receptor Groundwater Soil Type Benzene Toluene Ethyl- Wylene Gas Gas Coarse Grained 0.005 0.024 0.0024 0.03 0.03 0.005 0.024 0.0024 0.03 0.005 0.024 0.005 0.024 0.005 0.024 0.005 0.024 0.005 0.024 0.005 0.024 0.005 0.024 0.005 0.024 0.005 0.024 0.005 0.024 0.005 0.024 0.005 0.024 0.005 0.024 0.005 | | | | | | 00 | Compound of Concern | oncern | | |
|--|---------------|------------------|----------------|---------|---------|---------|---------------------|----------|---------------------------|------------------------|
| | Receptor | Groundwater | Soil Type | | | E+bl | | Mod | Modified TPH (TPH-BTEX) | ĬEX) |
| Potable Coarse Grained 0.005 0.024 0.0024 0.03 Non-Potable Fine Grained 0.005 0.024 0.0024 0.03 Potable Fine Grained 2.6 20 20 20 20 Potable Fine Grained 0.005 0.024 0.0024 0.3 20 Non-Potable Fine Grained 0.005 0.024 0.0024 0.3 20 Potable Fine Grained 0.005 0.024 0.0024 0.3 20 Potable Fine Grained 0.005 0.024 0.0024 0.3 20 Non-Potable Fine Grained 0.005 0.024 0.0024 0.3 20 Potable Fine Grained 20 20 20 20 20 20 Non-Potable Fine Grained 0.005 0.024 0.0024 0.3 20 Potable Fine Grained 0.005 0.024 0.0024 0.3 20 Potable </th <th></th> <th>Use</th> <th>or of</th> <th>Benzene</th> <th>Toluene</th> <th>benzene</th> <th>Xylene</th> <th>Gasoline</th> <th>Diesel/ No. 2 Fuel Oil</th> <th>No. 6 Oil/ Lube Oil</th> | | Use | or of | Benzene | Toluene | benzene | Xylene | Gasoline | Diesel/ No. 2 Fuel Oil | No. 6 Oil/ Lube Oil |
| | | Datable | Coarse Grained | 0.005 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | |
| Non-Potable Coarse Grained Fine Grained 2.6 20 20 20 Potable Fine Grained Frine Grained 0.005 0.024 0.0024 0.3 Non-Potable Fine Grained Frine Grained 2.6 20 20 20 Potable Fine Grained Frine Grained 0.005 0.024 0.0024 0.3 Potable Fine Grained Frine Grained 0.005 0.024 0.0024 0.3 Potable Fine Grained Frine Grained 20 20 20 20 Potable Fine Grained Frine Grained 20 20 20 20 Potable Fine Grained Frine Grained 20 20 20 20 Potable Coarse Grained Frine Grained 20 20 20 20 Potable Fine Grained Frine Grained 20 20 20 20 Potable Fine Grained Frine Grained 20 20 20 20 Potable Fine Grained Frine Grained Frine Grained 20 20 20 <th>A</th> <th>rotable</th> <th>Fine Grained</th> <td>0.005</td> <td>0.024</td> <td>0.0024</td> <td>0.3</td> <td>4.4</td> <td>3.2</td> <td></td> | A | rotable | Fine Grained | 0.005 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | |
| Non-Potable Fine Grained 13 20 20 20 20 20 20 20 2 | Agricultural | Non Datable | Coarse Grained | 2.6 | 20 | 20 | 20 | 20 | 20 | |
| Potable Coarse Grained Fine Grained 0.005 0.024 0.0024 0.3 Non-Potable Fine Grained Fine Grained 2.6 20 20 20 Potable Fine Grained Fine Grained 0.005 0.024 0.0024 0.3 Non-Potable Fine Grained Fine Grained 20 20 20 20 Potable Fine Grained Fine Grained 20 20 20 20 Potable Fine Grained Fine Grained 0.005 0.024 0.0024 0.3 Non-Potable Fine Grained Fine Grained 0.005 0.024 0.0024 0.3 Coarse Grained 0.005 0.024 0.0024 0.3 0.0 Potable Fine Grained 0.005 0.024 0.0024 0.3 Fine Grained 0.005 0.024 0.0024 0.3 Fine Grained 0.005 0.024 0.0024 0.3 Fine Grained 20 20 20 20 Coarse Grained 20 20 <th></th> <th>Non-Folable</th> <th>Fine Grained</th> <td>13</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> <td></td> | | Non-Folable | Fine Grained | 13 | 20 | 20 | 20 | 20 | 20 | |
| Non-Potable Fine Grained 0.005 0.024 0.0024 0.03 | | Dotable | Coarse Grained | 0.005 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | |
| Non-Potable Coarse Grained Frine Grained 2.6 20 20 20 20 Potable Fine Grained 0.005 0.024 0.0024 0.3 0.03 Non-Potable Fine Grained 20 20 20 20 20 Potable Fine Grained 20 20 20 20 20 Potable Fine Grained 0.005 0.024 0.0024 0.3 0.0 Potable Fine Grained 0.005 0.024 0.0024 0.3 0.0 Non-Potable Fine Grained 0.005 0.024 0.0024 0.3 0.0 Non-Potable Fine Grained 0.005 0.024 0.0024 0.3 0.0 Non-Potable Fine Grained 20 20 20 20 20 Potable Fine Grained 20 20 20 20 20 Potable Fine Grained 20 20 20 20 20 Potable <th>Docidontial</th> <th>rotable</th> <th>Fine Grained</th> <td>0.005</td> <td>0.024</td> <td>0.0024</td> <td>0.3</td> <td>4.4</td> <td>3.2</td> <td></td> | Docidontial | rotable | Fine Grained | 0.005 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | |
| Hon-Potable Fine Grained 13 20 20 20 Potable Coarse Grained 0.005 0.024 0.0024 0.3 Non-Potable Fine Grained 20 20 20 20 Potable Fine Grained 20 20 20 20 Potable Coarse Grained 0.005 0.024 0.0024 0.3 Potable Fine Grained 0.005 0.024 0.0024 0.3 Non-Potable Fine Grained 0.005 0.024 0.0024 0.3 Non-Potable Fine Grained 20 20 20 20 Non-Potable Fine Grained 20 20 20 20 Potable Fine Grained 20 20 20 20 Potable Fine Grained 20 20 20 20 | Vesidellida | Non Dotable | Coarse Grained | 2.6 | 20 | 20 | 20 | 20 | 20 | |
| Potable Coarse Grained 0.005 0.024 0.0024 0.3 Non-Potable Fine Grained 20 20 20 20 20 Potable Fine Grained 20 20 20 20 20 Potable Coarse Grained 0.005 0.024 0.0024 0.3 Potable Fine Grained 0.005 0.024 0.0024 0.3 Non-Potable Fine Grained 20 20 20 20 Non-Potable Fine Grained 20 20 20 20 Non-Potable Fine Grained 20 20 20 20 | | NOII-F Oldbie | Fine Grained | 13 | 20 | 20 | 20 | 20 | 20 | |
| Non-Potable Fine Grained 0.005 0.024 0.0024 0.3 Non-Potable Coarse Grained 20 20 20 20 20 Potable Fine Grained 20 20 20 20 20 Potable Coarse Grained 0.005 0.024 0.0024 0.3 Fine Grained 0.005 0.024 0.0024 0.3 Coarse Grained 20 20 20 20 20 Non-Potable Fine Grained 20 20 20 20 Solubility (SOL) 1,780 515 150 160 | | Dotable | Coarse Grained | 0.005 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | 7.8 |
| Non-Potable Coarse Grained 20 20 20 20 20 Potable Fine Grained 20 20 20 20 20 20 Potable Fine Grained 0.005 0.024 0.0024 0.3 1 Non-Potable Coarse Grained 20 20 20 20 20 Solubility (SOL) 1,780 515 150 160 160 | Commorcial | Foldble | Fine Grained | 0.005 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | |
| Potable Fine Grained 20 20 20 20 20 Potable Coarse Grained 0.005 0.024 0.0024 0.3 0.024 Non-Potable Coarse Grained 20 20 20 20 20 Solubility (SOL) Fine Grained 1,780 515 150 160 | CollillelClai | Non Dotable | Coarse Grained | 20 | 20 | 20 | 20 | 20 | 20 | |
| Potable Coarse Grained 0.005 0.024 0.0024 0.3 Non-Potable Fine Grained 20 20 20 20 Solubility (SOL) Fine Grained 1,780 515 150 160 | | NOII-I ORDIG | Fine Grained | 20 | 20 | 20 | 20 | 20 | 20 | |
| Non-Potable Fine Grained 0.005 0.024 0.0024 0.03 | | Dotable | Coarse Grained | 0.005 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | 7.8 |
| Non-Potable Coarse Grained 20 20 20 20 20 Solubility (SOL) 1,780 515 150 160 160 | Industrial | Foldble | Fine Grained | 0.005 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | |
| Fine Grained 20 20 20 20 20 1,780 515 150 160 160 | IIIugustiai | Non Potable | Coarse Grained | 20 | 20 | 20 | 20 | 20 | 20 | |
| 1,780 515 150 | | NOII-F Oldbie | Fine Grained | 20 | 20 | 20 | 20 | 20 | 20 | |
| | | Solubility (SOL) | | 1,780 | 515 | 150 | 160 | | | |

TABLE 2: Tier I Risk Based Screening Levels for Groundwater (mg/L)

| | | T/ | ABLE 3: Tier II Pa | tnway Spec | inc Screeni | ng Levels fo | r Soil (mg/k | g) | | |
|--------------|------------------|-------------------|------------------------------|-------------|-------------------|------------------|-------------------|------------------|--------------------------|------------------------|
| | | | | | | Con | npound of Con | cern | | |
| Receptor | Groundwater | Soil Type | Exposure Pathway | | | Ethyl- | | Modi | fied TPH (TPH | ВТЕХ) |
| , | Use | | | Benzene | Toluene | benzene | Xylene | Gasoline | Diesel/No. 2 Fuel Oil | No. 6 Oil/ Lube Oil |
| | | Coarse | Indoor Air | 0.099 | 77 | 30 | 8.8 | 74 | 270 | 1,100 |
| | | Grained | Soil Ingestion | 66 | 20,000 | 9,300 | 140,000 | 15,000 | 8,600 | 14,000 |
| | Potable | | Soil Leaching | 0.042 | 0.35 | 0.065 | 11 | 940 | 1,800 | 15,000 |
| = | | Fine Control | Indoor Air | 2.3 | 10,000 | 10,000 | 210 | 2,100 | 10,000 | 60,000 |
| Ē | | Fine Grained | Soil Ingestion Soil Leaching | 66 0.094 | 20,000 0.74 | 9,300 0.13 | 140,000 22 | 15,000 1,900 | 8,600 4700 | 14,000 10,000 |
| Agricultural | | | Indoor Air | 0.099 | 77 | 30 | 8.8 | 74 | 270 | 1,100 |
| Ē | | Coarse | Soil Ingestion | 66 | 20,000 | 9,300 | 140,000 | 15,000 | 8,600 | 14,000 |
| ∢ | | Grained | Soil Leaching | 00 | 20,000 | | le for Non-Pota | | | 14,000 |
| | Non-Potable | | Indoor Air | 2.3 | 10,000 | 10,000 | 210 | 2.100 | 10,000 | 60,000 |
| | | Fine Grained | Soil Ingestion | 66 | 20,000 | 9.300 | 140,000 | 15,000 | 8,600 | 14,000 |
| | | | Soil Leaching | | 20,000 | | e for Non-Pota | | | 11,000 |
| | | _ | Indoor Air | 0.099 | 77 | 30 | 8.8 | 74 | 270 | 1,100 |
| | | Coarse | Soil Ingestion | 66 | 20,000 | 9,300 | 140,000 | 15,000 | 8,600 | 14,000 |
| | Potable | Grained | Soil Leaching | 0.042 | 0.35 | 0.065 | 11 | 940 | 1,800 | 15,000 |
| | Potable | | Indoor Air | 2.3 | 10,000 | 10,000 | 210 | 2,100 | 10,000 | 60,000 |
| | | Fine Grained | Soil Ingestion | 66 | 20,000 | 9,300 | 140,000 | 15,000 | 8,600 | 14,000 |
| Residential | | | Soil Leaching | 0.094 | 0.74 | 0.13 | 22 | 1900 | 4700 | 10,000 |
| big | | Coarse | Indoor Air | 0.099 | 77 | 30 | 8.8 | 74 | 270 | 1,100 |
| å | | Grained | Soil Ingestion | 66 | 20,000 | 9,300 | 140,000 | 15,000 | 8,600 | 14,000 |
| | Non-Potable | Granieu | Soil Leaching | | | Not Applicable | le for Non-Pota | ble Scenarios | 3 | |
| | Non-i otable | | Indoor Air | 2.3 | 10,000 | 10,000 | 210 | 2,100 | 10,000 | 60,000 |
| | | Fine Grained | Soil Ingestion | 66 | 20,000 | 9,300 | 140,000 | 15,000 | 8,600 | 14,000 |
| | | | Soil Leaching | | | | e for Non-Pota | ble Scenarios | 3 | |
| Res | idual Saturation | | se Grained | 890 | 450 | 240 | 340 | | | |
| | 1 | Fine | Grained | 1000 | 480 | 250 | 360 | | | |
| | | Ç | Indoor Air | 2.5 | 10,000 | 10,000 | 110 | 870 | 4,000 | 23,000 |
| | | Coarse Grained | Soil Ingestion | 360 | 31,000 | 14,000 | 210,000 | 22,000 | 13,000 | 21,000 |
| | Potable | Granieu | Soil Leaching | 0.042 | 0.35 | 0.065 | 11 | 940 | 1,800 | 15,000 |
| ē | | Fine Grained | Indoor Air | 33 | 10,000 | 10,000 | 10,000 | 78,000 | 10,000 | 10,000 |
| erc | | rine Grained | Soil Ingestion | 360 | 31,000 | 14,000 | 210,000 | 22,000 | 13,000 | 21,000 |
| Ę | | | Soil Leaching | 0.094 | 0.74 | 0.13 | 22 | 1900 | 4,700 | 10,000 |
| Commercial | | Coarse | Indoor Air | 2.5 | 10,000 | 10,000 | 110 | 870 | 4,000 | 23000 |
| • | | Grained | Soil Ingestion | 360 | 31,000 | 14,000 | 210,000 | 22,000 | 13,000 | 21,000 |
| | Non-Potable | _ | Soil Leaching | 0.0 | 40.000 | | e for Non-Pota | | | 40.000 |
| | | F. C | Indoor Air | 33 | 10,000 | 10,000 | 10,000 | 78,000 | 10,000 | 10,000 |
| | | Fine Grained | Soil Ingestion | 360 | 31,000 | 14,000 | 210,000 | 22,000 | 13,000 | 21,000 |
| | | | Soil Leaching | 0.5 | 40.000 | | e for Non-Pota | | T | |
| | | Coarse | Indoor Air | 2.5 | 10,000 | 10,000 | 110 | 870 | 4,000 | 23,000 |
| | | Grained | Soil Ingestion | 360 | 110,000 | 49,000 | 730,000 | 77,000 | 47,000 | 74,000 |
| | Potable | | Soil Leaching | 0.042 | 0.35 | 0.065 | 11 | 940 | 1,800 | 15,000 |
| _ | | Fine Grained | Indoor Air | 33 360 | 10,000 110,000 | 10,000 49,000 | 10,000 730,000 | 78,000 77,000 | 10,000 47,000 | 10,000 74,000 |
| Ē | | rine oranied | Soil Ingestion Soil Leaching | 0.094 | 0.74 | 0.13 | 730,000 | 1900 | 4,700 | 10,000 |
| Industrial | | <u> </u> | Indoor Air | 2.5 | 10,000 | 10,000 | 110 | 870 | 4,700 | 23,000 |
| <u>=</u> | | Coarse | Soil Ingestion | 360 | 110,000 | 49,000 | 730,000 | 77,000 | 47,000 | 74,000 |
| | | Grained | Soil Leaching | 300 | 110,000 | | e for Non-Pota | | | 17,000 |
| | Non-Potable | | Indoor Air | 33 | 10,000 | 10.000 | 10,000 | 78.000 | 10,000 | 10,000 |
| | | Fine Grained | Soil Ingestion | 360 | 110,000 | 49.000 | 730,000 | 77,000 | 47,000 | 74,000 |
| | | | Soil Leaching | | ,000 | | le for Non-Pota | | | ,000 |
| Res | idual Saturation | Coars | se Grained | 890 | 450 | 240 | 340 | | | |
| | | | Grained | 1000 | 480 | 250 | 360 | | | |
| | | | | | | | | | | |

TABLE 4: Tier II Pathway Specific Screening Levels for Groundwater (mg/L)

| | | IADLE 4. | iler ii Patn\ | way speci | ic screen | ing Levels | ioi Groun | uwater (mg | <u> </u> | |
|--------------|--------------|-----------------|---------------|-----------|-----------|-------------------|---------------|--------------|--|------------------------|
| | | | | | | С | ompound of | Concern | | |
| | Groundwater | | Exposure | | | | | Mod | ified TPH (TPH-B | TEX) |
| Receptor | Use | Soil Type | Pathway | Benzene | Toluene | Ethyl- benzene | Xylene | Gasoline | Diesel/ No. 2 Fuel Oil | No. 6 Oil/ Lube Oil |
| | | Coarse | Indoor Air | 2.6 | 20 | 20 | 68 | 34 | 200 | 1,100 |
| | Potable | Grained | Ingestion | 0.005 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | 7.8 |
| ē | Polable | Fine | Indoor Air | 13 | 20 | 20 | 330 | 2,100 | 30,000 | 20 |
| 1 4 1 | | Grained | Ingestion | 0.005 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | 7.8 |
| ļ į | | Coarse | Indoor Air | 2.6 | 20 | 20 | 68 | 34 | 200 | 1100 |
| Agricultural | Non-Potable | Grained | Ingestion | | | Not Applica | able for Non- | Potable Scen | arios | |
| ` | Non-Potable | Fine | Indoor Air | 13 | 20 | 20 | 330 | 2,100 | 30,000 | 20 |
| | | Grained | Ingestion | | | Not Applica | able for Non- | Potable Scen | arios | |
| | | Coarse | Indoor Air | 2.6 | 20 | 20 | 68 | 34 | 200 | 1100 |
| | Potable | Grained | Ingestion | 0.005 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | 7.8 |
| ē | Potable | Fine | Indoor Air | 13 | 20 | 20 | 330 | 2,100 | 300,000 | 20 |
| ent | | Grained | Ingestion | 0.005 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | 7.8 |
| Residential | | Coarse | Indoor Air | 2.6 | 20 | 20 | 68 | 34 | 200 | 1,100 |
| a d | Non-Potable | Grained | Ingestion | | | Not Applica | able for Non- | Potable Scen | arios | |
| | Non-Potable | Fine | Indoor Air | 13 | 20 | 20 | 330 | 2,100 | 30,000 | 20 |
| | | Grained | Ingestion | | | Not Applica | able for Non- | Potable Scen | arios | |
| | | Solubility | | 1780 | 515 | 150 | 160 | | | |
| | | Coarse | Indoor Air | 30 | 20 | 20 | 390 | 3,700 | 39,000 | 20 |
| | | Grained | Ingestion | 0.005 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | 7.8 |
| Commercial | Potable | Fine Grained | Indoor Air | 150 | 20 | 20 | 20 | 20 | 20 | 20 |
| E O | | | Ingestion | 0.005 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | 7.8 |
| ŭ | | Coarse | Indoor Air | 30 | 20 | 20 | 390 | 3,700 | 39,000 | 20 |
| | Non-Potable | Grained | Ingestion | | | Not Applica | able for Non- | Potable Scen | | |
| | Non-i otable | Fine | Indoor Air | 150 | 20 | 20 | 20 | 20 | 20 | 20 |
| | | Grained | Ingestion | | | Not Applica | able for Non- | Potable Scen | arios | |
| | | Coarse | Indoor Air | 30 | 20 | 20 | 390 | 3,700 | 39,000 | 20 |
| | Potable | Grained | Ingestion | 150 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | 7.8 |
| <u>.</u> | i vianie | Fine | Indoor Air | 140 | 20 | 20 | >160 | 20 | 20 | 20 |
| Industrial | | Grained | Ingestion | 0.005 | 0.024 | 0.0024 | 0.3 | 4.4 | 3.2 | 7.8 |
| a | | Coarse | Indoor Air | 30 | 20 | 20 | 390 | 3,700 | 39,000 | 20 |
| <u>=</u> | Non-Potable | Grained | Ingestion | | | Not Applica | able for Non- | Potable Scen | | |
| | Hone otable | Fine | Indoor Air | 150 | 20 | 20 | 20 | 20 | 20 | 20 |
| | | Grained | Ingestion | | | Not Applica | able for Non- | Potable Scen | arios | |

TABLE 5: Tier I Soil Ecological Screening Levels for the Protection of Plants and Soil Invertebrates; Direct Soil Contact (mg/kg dry weight)

| | | | | | | | | <u> </u> | <u> </u> |
|--------------|--------|---------|---------|---------|--------|--------|---------|----------|----------|
| | Soil | | | | Subs | tance | | | |
| | Grain | | | Ethyl | | F1 | F2 | F3 | F4 |
| Land Use | Type | Benzene | Toluene | Benzene | Xylene | C6-C10 | C10-C16 | C16-C34 | C34-C50 |
| | Coarse | 31 | 75 | 55 | 95 | 210 | 150 | 300 | 2800 |
| Agricultural | Fine | 60 | 110 | 120 | 65 | 210 | 150 | 1300 | 5600 |
| | Coarse | 31 | 75 | 55 | 95 | 210 | 150 | 300 | 2800 |
| Residential | Fine | 60 | 110 | 120 | 65 | 210 | 150 | 1300 | 5600 |
| | Coarse | 180 | 250 | 300 | 350 | 320 | 260 | 1700 | 3300 |
| Commercial | Fine | 310 | 330 | 430 | 230 | 320 | 260 | 2500 | 6600 |
| | Coarse | 180 | 250 | 300 | 350 | 320 | 260 | 1700 | 3300 |
| Industrial | Fine | 310 | 330 | 430 | 230 | 320 | 260 | 2500 | 6600 |

TABLE 6: Tier I Soil Ecological Screening Levels for the Protection of Wildlife (mammals and birds) and Livestock; Soil and Food Ingestion (mg/kg dry weight)

| | | | | Subs | tance | | | |
|--------------|---------|---------|------------------|--------|--------------|---------------|---------------|---------------|
| Land Use | Benzene | Toluene | Ethyl Benzene | Xylene | F1 C6-C10 | F2 C10-C16 | F3 C16-C34 | F4 C34-C50 |
| Agricultural | 18 | 980 | 640 | 2600 | 11000 | 9800 | 16000 | 8400 |

TABLE 7: Tier I Groundwater Ecological Screening Levels for Plant and Invertebrate Direct Contact with Shallow Groundwater (mg/L)

| | Soil | | | Subs | tance | | |
|--------------|--------|---------|---------|---------|--------|--------|---------|
| | Grain | | | Ethyl | | F1 | F2 |
| Land Use | Type | Benzene | Toluene | Benzene | Xylene | C6-C10 | C10-C16 |
| | Coarse | 61 | 59 | 20 | 31 | 7.1 | 1.8 |
| Agricultural | Fine | 100 | 82 | 42 | 21 | 6.5 | 1.8 |
| Residential/ | Coarse | 61 | 59 | 20 | 31 | 7.1 | 1.8 |
| Parkland | Fine | 100 | 82 | 42 | 21 | 6.5 | 1.8 |
| | Coarse | 350 | 200 | 110 | 120 | 11 | 3.1 |
| Commercial | Fine | 540 | 240 | 150 | 74 | 9.9 | 3.1 |
| | Coarse | 350 | 200 | 110 | 120 | 11 | 3.1 |
| Industrial | Fine | 540 | 240 | 150 | 74 | 9.9 | 3.1 |

TABLE 8: Tier I Surface Water and Groundwater Ecological Screening Levels for the Protection of Freshwater and Marine Aquatic Life (mg/L)

| | | | 01110011 | Substance | | | , , |
|-------------|---------|---------|----------|-----------|-----|------------|-------------|
| | | | | Substance | | | |
| | | | Ethyl | | I. | lodified T | PH |
| Water Type | Benzene | Toluene | Benzene | Xylene | Gas | Diesel/#2 | #6 oil/lube |
| Surface | | | | | | | |
| Water | 2.1 | 0.77 | 0.32 | 0.33 | 1.5 | 0.1 | 0.1 |
| | | | | | | | |
| Groundwater | 4.6 | 4.2 | 3.2 | 2.8 | 13 | 0.84 | 0.48 |

| Solubility | 200 150 | 150 97 | 140 87 | 130 77 | 120 68 | 110 59 | 100 51 | 90 43 | 80 36 | 70 29 | 60 22 | 50 17 | 40 12 | 30 7.6 | 20 5 | 10 4.6 | (m) Coarse | Water Benzene (mg/L) | Surface | ť | Distance | |
|------------|---------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|------|--------|------------|----------------------|---------------|---|--------------|--|
| | 250 | 45 | 44 | 29 | 23 | 19 | 16 | 13 | 11 | 9.7 | 8.1 | 6.7 | 5.6 | 4.8 | 4.6 | 6 | Fine | e (mg/L) | | | | 19 |
| 545 | 140 | 88 | 79 | 71 | 62 | 54 | 47 | 39 | 33 | 26 | 20 | 15 | 11 | 6.9 | 4.6 | 4.2 | Coarse | Toluene (mg/L) | | | | (g); and account of accounting any analysis of the second of t |
| 'n | 20 | 70 | 69 | 35 | 27 | 21 | 17 | 14 | 10 | 8.8 | 7.4 | 6.1 | 5.1 | 4.4 | 4.2 | 2 | Fine | (mg/L) | | | | |
| 150 | 100 | 67 | 60 | 54 | 47 | 41 | 36 | 30 | 25 | 20 | 15 | 11 | 8 | 5.3 | 3.5 | 3.2 | Coarse | (mg/L) | Ethyl benzene | | | |
| 0 | 20 | 20 | 130 | 76 | 45 | 28 | 20 | 13 | 9.9 | 7.5 | 5.6 | 4.7 | 3.9 | 3.4 | 3.2 | 2 | Fine | /L) | enzene | | | |
| 160 | 91 | 59 | 53 | 47 | 42 | 36 | 31 | 26 | 22 | 17 | 14 | 10 | 7 | 4.6 | 3 | 2.8 | Coarse | Xylene (mg/L) | | | | anha 6 |
| 86 | 20 | 20 | 20 | 20 | 92 | 49 | 30 | 18 | 11 | 7.5 | 5.5 | 4.1 | 3.4 | 2.9 | 2.8 | 8 | Fine | (mg/L) | | | | |
| - | 20 | 750 | 467 | 207 | 171 | 139 | 114 | 92 | 75 | 55 | 37 | 22 | 15 | 13 | 13 | 13 | Coarse | Gasoline (mg/L) | | | | |
| <u>'</u> | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 495 | 86 | 37 | 14 | 13 | 3 | Fine | e (mg/L) | | | | |
| | 20 | 20 | 20 | 436 | 333 | 207 | 85 | 39 | 28 | 21 | 14 | 6 | 2.9 | 1.3 | 0.85 | 0.84 | Coarse | Diesel | | | Modifie | .7 |
| ' | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 178 | 24 | 4.5 | 84 | Fine | Diesel (mg/L) | | | Modified TPH | |
| | 20 | 20 | 20 | 2615 | 1996 | 1243 | 511 | 161 | 117 | 85 | 56 | 22 | 4.9 | 2.2 | 1.3 | 0.48 | Coarse | Lube Oil (mg/L) | | | | |
| 1 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 1070 | 113 | 18 | 48 | Fine | l (mg/L) | | | | |

TABLE 9: Tier I Groundwater Ecological Screening Levels for the Protection of Freshwater and Marine Aquatic Life (mg/L), adjusted for distance to receiving aquatic environment and soil type

TABLE 10: Tier I Sediment Ecological Screening Levels for the Protection of Freshwater and Marine Aquatic Life (mg/kg dry weight)

| | IFIESHW | ater and | Marine F | Iqualic L | iie (iiig/k | g ury we | igny | |
|---------------|---------|----------|----------|-----------|-------------|-----------|-------------|-----|
| | | | | Subs | stance | | | |
| | | | | | | Modif | ied TPH | |
| | | | | | | | | |
| | | | Ethyl | | | | | |
| Sediment Type | Benzene | Toluene | Benzene | Xylene | Gas | Diesel/#2 | #6 oil/lube | Max |
| Typical | 1.2 | 1.4 | 1.2 | 1.3 | 15 | 25 | 43 | 500 |
| | | | | | | | | |
| Other | 5.4 | 6.1 | 5 | 5.5 | 67 | 110 | 190 | 500 |

SCHEDULE 2

| REG | CORD OF SITE CONDITION | V |
|--|--|---------------------------|
| RECORD OF SITE CONDIT | ION | |
| Part 1: Site Information | | |
| Civic Address: | | |
| Current PID Number: | | |
| Current Owner: | | |
| Part 2: List of Environmental | Documentation | |
| | a, prepared by persons other tests, if any), pertain to the site or documents in chronological ord | any other impacted third |
| Document Title | Company | Date |
| | | |
| | | |
| | | |
| | | |
| Part 3: Tier I, Tier II and Site | Specific Target Levels - Envir | ronmental Site Criteria |
| Petroleum hydrocarbons (e.g. as originating from the site: | gasoline, lead, waste oil, etc.) | that have been identified |
| Gasoline #2 Diesel Other (Specify): | #6 Oil | |
| Current land use: | | |
| Residential Commercia Other (Specify): | \mathcal{E} | strial |
| Drinking water use: | | |
| On-site potable water Non-potable water | Within a wellfield protected area | n e |
| | | |

| Impacted Soil composition: |
|---|
| Coarse-grained Fine-grained Bedrock (Specify): |
| Analysis Type: |
| Tier I Tier II Site Specific Target Level Criteria Other (Specify): |
| Description of methodology (Investigative and Remedial Options): |
| Limited Remedial Action Environmental Site Assessment |
| Part 4: Corrective Actions |
| Describe the <u>remedial objectives</u> and the <u>basic corrective actions</u> of the Limited Remedial Action or the Remedial Action Plan employed for the site. |
| Describe the current use of the site (buildings, operations, etc.). |
| Based on the work completed, the site (cited in Part 1) is suitable for the following current or reasonably foreseeable future site activity. |
| Residential Agricultural Commercial Industrial |
| If site closure is conditional, list site specific engineered or institutional controls that apply to the site together with a description of the objectives of each control. |
| |
| D 45 C |

Part 5: Summary Statement of Site Professional

The signature of the site professional on this form indicates the fulfilment of the checked statements.

- Please check appropriate statements (statements 1, 2 and 6 are mandatory):

 1. All work on which this record of site condition is based was prepared, overseen or reviewed by the site professional.
- 2. The site was assessed or remediated in accordance with Prince Edward Island's Petroleum Hydrocarbon Remediation Regulations.

 3. Based on the results of the limited remedial action or environmental site assessment,
- the applicable Tier I, Tier II or site specific target level criteria were not exceeded on the site and therefore, remedial action or site specific engineered or institutional controls are not required for the current or reasonably foreseeable future site activities.
- 4. The site has been remediated to a acceptable levels of petroleum hydrocarbons for the current or reasonably foreseeable future site activities (as cited in Part 4) and $unconditional\ closure\ is\ recommended.$
- 5. The site requires site specific engineered or institutional controls to satisfy the current or reasonably foreseeable future site activities (as cited in Part 4) and *conditional* closure is recommended.
- 6. This record of site condition form is identical to the one listed in the Petroleum Hydrocarbon Remediation Regulations or as provided by the PEI Department of Environment, Labour and Justice and the form has not been altered, other than by filling in the blank spaces as appropriate.

| Company: | Professional Seal Here |
|---------------------|---------------------------|
| Contact Name: | |
| Address: | |
| Date: Signature: | |

EXPLANATORY NOTES

SECTION 1 amends section 1 of the regulations to update a reference to the Risk-Based Corrective Action User Guidance document in current use in two definitions.

SECTION 2 amends subsection 2(2) of the regulations to add references to sediment and surface water as substances to be tested for acceptable levels of petroleum hydrocarbons in accordance with Schedule A.

SECTION 3 revokes Schedule A, containing Tables 1 to 4, of the regulations and replaces them with a new Schedule A containing updated Tables 1 to 10.

SECTION 4 revokes Schedule C of the regulations and replaces it with an updated Schedule C.

SECTION 5 amends Form 1 of Schedule E of the regulations by updating the information contained in a reference to the Director and the contact information for the Department.

SECTION 6 amends Form 2 of Schedule E of the regulations by updating the name of the Department.

SECTION 7 provides for the commencement of these regulations.

EC2013-228

EXECUTIVE COUNCIL ACT
MINISTER OF INNOVATION AND ADVANCED LEARNING
AUTHORITY TO ENTER INTO
A MEMORANDUM OF UNDERSTANDING
(RE: LE COLLÈGE-ACADIE Î.-P.-É.)
WITH
LA SOCIÉTÉ ÉDUCATIVE DE L'ÎLE-DU-PRINCE-ÉDOUARD

Pursuant to clause 10(d) of the *Executive Council Act* R.S.P.E.I. 1988, Cap. E-12 Council authorized the Minister of Innovation and Advanced Learning to enter into a Memorandum of Understanding with La Société éducative de l'Île-du-Prince-Édouard, as represented by its President, to set out the terms and conditions for operation of le Collège-Acadie Î.-P.-É. as a publicly-funded, post-secondary educational institution in Prince Edward Island for the period 1 April 2013 to 31 March 2018, such as more particularly described in the draft agreement.

FINANCIAL ADMINISTRATION ACT CERTAIN ACCOUNTS RECEIVABLE OF HEALTH PEI AUTHORITY TO WRITE-OFF

Pursuant to subsection 26.1(1) of the *Financial Administration Act* R.S.P.E.I. 1988, Cap. F-9 Council authorized the write-off of certain accounts receivable of Health PEI totalling \$130,770.39 as at 31 January 2013.

Further, Council noted that this amount is fully offset by provision for doubtful accounts at Health PEI.

EC2013-230

PRINCE EDWARD ISLAND LANDS PROTECTION ACT PETITION TO ACQUIRE A LAND HOLDING ALLEN HANSEN (APPROVAL)

Pursuant to section 4 of the *Prince Edward Island Lands Protection Act* R.S.P.E.I. 1988, Cap. L-5 Council granted permission to Allen Hansen of Smithton, Tasmania to acquire an interest in a land holding of approximately ten decimal zero six (10.06) acres of land in Lot 47, Kings County, Province of Prince Edward Island, being acquired from North Lake Fish Co-operative Limited of Elmira, Prince Edward Island.

EC2013-231

PRINCE EDWARD ISLAND LANDS PROTECTION ACT PETITION TO ACQUIRE A LAND HOLDING EASTERN EAGLES SOCCER ASSOCIATION INC. (APPROVAL)

Pursuant to section 5 of the *Prince Edward Island Lands Protection Act* R.S.P.E.I. 1988, Cap. L-5 Council granted permission to Eastern Eagles Soccer Association Inc. of Montague, Prince Edward Island to acquire a land holding of approximately seven decimal six two (7.62) acres of land in Lot 59, Kings County, Province of Prince Edward Island, being acquired from Sylvia MacDonald in her own right and as Trustee and Agent for the Sylvia MacDonald Spousal Trust and its Trustees of Winnipeg, Manitoba.

PRINCE EDWARD ISLAND LANDS PROTECTION ACT PETITION TO ACQUIRE A LAND HOLDING EASTERN EAGLES SOCCER ASSOCIATION INC. (APPROVAL)

Pursuant to section 5 of the *Prince Edward Island Lands Protection Act* R.S.P.E.I. 1988, Cap. L-5 Council granted permission to Eastern Eagles Soccer Association Inc. of Montague, Prince Edward Island to acquire a land holding of approximately twenty-seven decimal three six (27.36) acres of land in Lot 59, Kings County, Province of Prince Edward Island, being acquired from Montague Trotting Park (1983) Ltd. of Montague, Prince Edward Island.

EC2013-233

PRINCE EDWARD ISLAND LANDS PROTECTION ACT PETITION TO ACQUIRE A LAND HOLDING G & P TRUCKING & CONSTRUCTION LTD. (APPROVAL)

Pursuant to section 5 and section 9 of the *Prince Edward Island Lands Protection Act* R.S.P.E.I. 1988, Cap. L-5 Council granted permission to G & P Trucking & Construction Ltd. of St. Peters, Prince Edward Island to acquire a land holding of approximately four decimal zero nine (4.09) acres of land in Lot 41, Kings County, Province of Prince Edward Island, being acquired from Stan Hawkins Holdings Inc. of Toronto, Ontario SUBJECT TO the condition that the said real property not be subdivided. The condition preventing subdivision shall be binding on the said G & P Trucking & Construction Ltd. and on all successors in title.

EC2013-234

PRINCE EDWARD ISLAND LANDS PROTECTION ACT PETITION TO ACQUIRE A LAND HOLDING LANDFEST COMPANY LIMITED (APPROVAL)

Pursuant to section 5 of the *Prince Edward Island Lands Protection Act* R.S.P.E.I. 1988, Cap. L-5 Council granted permission to Landfest Company Limited of Charlottetown, Prince Edward Island to acquire a land holding of approximately zero decimal four six (0.46) acres of land at Charlottetown, Queens County, Province of Prince Edward Island, being acquired from REJ Holdings Inc. of Charlottetown, Prince Edward Island.

PRINCE EDWARD ISLAND LANDS PROTECTION ACT PETITION TO ACQUIRE A LAND HOLDING OCEAN PRIDE FISHERIES LIMITED (APPROVAL)

Pursuant to section 5 of the *Prince Edward Island Lands Protection Act* R.S.P.E.I. 1988, Cap. L-5 Council granted permission to Ocean Pride Fisheries Limited of Souris, Prince Edward Island to acquire a land holding of approximately ten decimal zero six (10.06) acres of land in Lot 47, Kings County, Province of Prince Edward Island, being acquired from North Lake Fish Cooperative Limited of Elmira, Prince Edward Island.

EC2013-236

PRINCE EDWARD ISLAND LANDS PROTECTION ACT PETITION TO ACQUIRE A LAND HOLDING ROLLO BAY HOLDINGS LTD. (APPROVAL)

Pursuant to section 5 and section9 of the *Prince Edward Island Lands Protection Act* R.S.P.E.I. 1988, Cap. L-5 Council granted permission to Rollo Bay Holdings Ltd. of Souris, Prince Edward Island to acquire a land holding of approximately one decimal six (1.6) acres of land in Lot 45, Kings County, Province of Prince Edward Island, being acquired from Mary Elizabeth Keenan of Souris, Prince Edward Island SUBJECT TO the said land holding being consolidated with the adjacent Provincial Property No. 656736 and PROVIDED THAT the consolidated parcel is identified for non-development use pursuant to the Land Identification Regulations (EC606/95) made under the said Act.

EC2013-237

PRINCE EDWARD ISLAND LANDS PROTECTION ACT PETITION TO ACQUIRE A LAND HOLDING RWL HOLDINGS LTD. (APPROVAL)

Pursuant to section 5 of the *Prince Edward Island Lands Protection Act* R.S.P.E.I. 1988, Cap. L-5 Council granted permission to RWL Holdings Ltd. of Kinkora, Prince Edward Island to acquire a land holding of approximately one decimal two two (1.22) acres of land in Lot 19, Prince County, Province of Prince Edward Island, being acquired from Coastal Stevedoring Agencies (2009) Limited of Summerside, Prince Edward Island.

PRINCE EDWARD ISLAND LANDS PROTECTION ACT PETITION TO ACQUIRE A LAND HOLDING RWL HOLDINGS LTD. (APPROVAL)

Pursuant to section 5 and section 9 of the *Prince Edward Island Lands Protection Act* R.S.P.E.I. 1988, Cap. L-5 Council granted permission to RWL Holdings Ltd. of Kinkora, Prince Edward Island to acquire a land holding of approximately sixteen decimal three four (16.34) acres of land in Lot 19, Prince County, Province of Prince Edward Island, being acquired from Walter J. Simmons of New Annan, Prince Edward Island PROVIDED THAT the said real property is identified for non-development use pursuant to the Land Identification Regulations (EC606/95) made under the said Act.

EC2013-239

PRINCE EDWARD ISLAND LANDS PROTECTION ACT PETITION TO ACQUIRE A LAND HOLDING SHIZHONG HOLDINGS INC. (APPROVAL)

Pursuant to section 5 of the *Prince Edward Island Lands Protection Act* R.S.P.E.I. 1988, Cap. L-5 Council granted permission to Shizhong Holdings Inc. of Summerside, Prince Edward Island to acquire a land holding of approximately twenty-five decimal six six (25.66) acres of land in Lot 17, Prince County, Province of Prince Edward Island, being acquired from 100569 P.E.I. Inc. of Summerside, Prince Edward Island.

EC2013-240

PRINCE EDWARD ISLAND LANDS PROTECTION ACT APPLICATION TO LEASE LAND SOMERGLEN FARMS LTD. (TO RESCIND)

Council, having under consideration Order-in-Council EC2009-160 of March 26, 2009, rescinded the said Order forthwith, thus rescinding permission for Somerglen Farms Ltd. of St. Georges, Prince Edward Island to acquire, by lease, an interest in a land holding or land holdings of up to three hundred (300) acres of land as part of the said corporation's aggregate land holdings.

PRINCE EDWARD ISLAND LANDS PROTECTION ACT APPLICATION TO LEASE LAND SOMERGLEN FARMS LTD. (APPROVAL)

Pursuant to section 5 and clause 5.3(1)(b) of the *Prince Edward Island Lands* Protection Act R.S.P.E.I. 1988, Cap. L-5 Council granted permission to Somerglen Farms Ltd. of St. Georges, Prince Edward Island to acquire, by lease, an interest in a land holding or land holdings of up to six hundred (600) acres of land as part of the said corporation's aggregate land holdings PROVIDED THAT the said Somerglen Farms Ltd. files a statement with the Island Regulatory and Appeals Commission within one year of the date of this Order and prior to 31 December in every subsequent year disclosing the parcel number, the acreage and the term of lease for each parcel leased during the reporting period covered by the statement.