

Deer Lakes Ambient Air Sampling Results / Radiello passive monitors

PLEASE NOTE: Nitrogen dioxide is the only compound on this list that is regulated by the EPA or ACHD

| Compounds Tested | Inhalation Reference Concentration (RFC)* (converted to ppbv) | Critical Health Effect* | Carcinogenic Classification* | Lifetime continuous exposure (converted to ppbv) for an added 1 in 100,000 risk of cancer* | 2014 | | | | | |
|------------------|---|--|-------------------------------|--|--------------|--------------|--------------|---------------|---------------|---------------|
| | | | | | 6/4-6/18 ppb | 6/18-7/2 ppb | 7/2-7/16 ppb | 7/16-7/30 ppb | 7/30-8/13 ppb | 8/13-8/27 ppb |
| Benzene | 9.39 | Decreased blood cell count | A - human carcinogen | 0.41 - 1.41 | 0.14 | ND | 0.10 | ND | 0.16 | 0.12 |
| Toluene | 1326.8 | Neurological effects | Inadequate data | NA | 0.11 | 0.14 | 0.13 | 0.11 | 0.13 | 0.13 |
| Ethylbenzene | 230.3 | Developmental toxicity | D - not classifiable | NA | ND | ND | ND | ND | ND | ND |
| m,p-Xylenes | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| o-Xylene | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| Naphthalene | 0.57 | Damage to the lining of the respiratory system | C - possible human carcinogen | NA | ND | ND | ND | ND | ND | ND |
| Styrene | 234.8 | Damage to the nervous system | NA | NA | ND | ND | ND | ND | ND | ND |
| n-Hexane | 198.6 | Damage to the nervous system | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| Nitrogen dioxide | 53** | Adverse respiratory effects | NA | NA | X | X | X | X | X | X |

* = from EPA's Integrated Risk Information System (IRIS)
 ** = National Ambient Air Quality Standard (Annual Mean)
 NA = not available

ND = not detected
 X = not tested

NOTE: All reference levels are for informational purposes only. It is not applicable to compare long term reference levels to individual short term measurements.

| | |
|--|---------------------------|
| | = baseline (pre-drilling) |
| | = site construction |
| | = drilling has started |
| | = fracking |
| | = flaring |
| | = production |

Deer Lakes Ambient Air Sampling Results / Radiello passive monitors

PLEASE NOTE: Nitrogen dioxide is the only compound on this list that is regulated by the EPA or ACHD

| Compounds Tested | Inhalation Reference Concentration (RfC)* (converted to ppbv) | Critical Health Effect* | Carcinogenic Classification* | Lifetime continuous exposure (converted to ppbv) for an added 1 in 100,000 risk of cancer* | 8/27-9/10 ppb | 9/10-9/24 ppb | 9/24-10/8 ppb | 10/8-10/22 ppb | 10/22-11/5 ppb |
|------------------|---|--|-------------------------------|--|---------------|---------------|---------------|----------------|----------------|
| Benzene | 9.39 | Decreased blood cell count | A - human carcinogen | 0.41 - 1.41 | ND | 0.18 | 0.18 | ND | 0.26 |
| Toluene | 1326.8 | Neurological effects | Inadequate data | NA | 0.11 | 0.22 | 0.19 | 0.11 | 0.17 |
| Ethylbenzene | 230.3 | Developmental toxicity | D - not classifiable | NA | ND | ND | ND | ND | ND |
| m,p-Xylenes | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND |
| o-Xylene | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND |
| Naphthalene | 0.57 | Damage to the lining of the respiratory system | C - possible human carcinogen | NA | ND | ND | ND | ND | ND |
| Styrene | 234.8 | Damage to the nervous system | NA | NA | ND | ND | ND | ND | ND |
| n-Hexane | 198.6 | Damage to the nervous system | Inadequate data | NA | ND | ND | ND | ND | ND |
| Nitrogen dioxide | 53** | Adverse respiratory effects | NA | NA | 2.37 | X | 3.74 | 3.57 | 7.08 |

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Deer Lakes Ambient Air Sampling Results / Radiello passive monitors

PLEASE NOTE: Nitrogen dioxide is the only compound on this list that is regulated by the EPA or ACHD

| Compounds Tested | Inhalation Reference Concentration (RfC)* (converted to ppbv) | Critical Health Effect* | Carcinogenic Classification* | Lifetime continuous exposure (converted to ppbv) for an added 1 in 100,000 risk of cancer* | 11/5-11/19 ppb | 11/19-12/3 ppb | 12/3-12/22 ppb | 12/22-1/5 ppb | duplicate 12/22-1/5 ppb |
|------------------|---|--|-------------------------------|--|----------------|----------------|----------------|---------------|-------------------------|
| Benzene | 9.39 | Decreased blood cell count | A - human carcinogen | 0.41 - 1.41 | 0.24 | 0.13 | 0.18 | 0.24 | 0.15 |
| Toluene | 1326.8 | Neurological effects | Inadequate data | NA | 0.14 | 0.10 | 0.12 | ND | ND |
| Ethylbenzene | 230.3 | Developmental toxicity | D - not classifiable | NA | ND | ND | ND | ND | ND |
| m,p-Xylenes | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND |
| o-Xylene | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND |
| Naphthalene | 0.57 | Damage to the lining of the respiratory system | C - possible human carcinogen | NA | ND | ND | ND | ND | ND |
| Styrene | 234.8 | Damage to the nervous system | NA | NA | ND | ND | ND | ND | ND |
| n-Hexane | 198.6 | Damage to the nervous system | Inadequate data | NA | ND | ND | ND | ND | ND |
| Nitrogen dioxide | 53** | Adverse respiratory effects | NA | NA | 4.55 | 4.82 | 4.73 | 4.46 | 4.49 |

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Deer Lakes Ambient Air Sampling Results / Radiello passive monitors

PLEASE NOTE: Nitrogen dioxide is the only compound on this list that is regulated by the EPA or ACHD

| Compounds Tested | Inhalation Reference Concentration (RfC)* (converted to ppbv) | Critical Health Effect* | Carcinogenic Classification* | Lifetime continuous exposure (converted to ppbv) for an added 1 in 100,000 risk of cancer* | 2015 | | | | | |
|------------------|---|--|-------------------------------|--|--------------|--------------|--------------|---------------|--------------|--------------|
| | | | | | 1/5-1/20 ppb | 1/20-2/3 ppb | 2/3-2/18 ppb | 2/18- 3/4 ppb | 3/4-3/18 ppb | 3/18-4/1 ppb |
| Benzene | 9.39 | Decreased blood cell count | A - human carcinogen | 0.41 - 1.41 | 0.30 | ND | ND | ND | 0.20 | 0.17 |
| Toluene | 1326.8 | Neurological effects | Inadequate data | NA | 0.13 | 0.10 | ND | ND | ND | ND |
| Ethylbenzene | 230.3 | Developmental toxicity | D - not classifiable | NA | ND | ND | ND | ND | ND | ND |
| m,p-Xylenes | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| o-Xylene | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| Naphthalene | 0.57 | Damage to the lining of the respiratory system | C - possible human carcinogen | NA | ND | ND | ND | ND | ND | ND |
| Styrene | 234.8 | Damage to the nervous system | NA | NA | ND | ND | ND | ND | ND | ND |
| n-Hexane | 198.6 | Damage to the nervous system | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| Nitrogen dioxide | 53** | Adverse respiratory effects | NA | NA | 4.02 | 6.79 | 2.00 | 0.72 | ND | ND |

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|  | = flaring |
|  | = production |

Deer Lakes Ambient Air Sampling Results / Radiello passive monitors

PLEASE NOTE: Nitrogen dioxide is the only compound on this list that is regulated by the EPA or ACHD

| Compounds Tested | Inhalation Reference Concentration (RFC)* (converted to ppbv) | Critical Health Effect* | Carcinogenic Classification* | Lifetime continuous exposure (converted to ppbv) for an added 1 in 100,000 risk of cancer* | 4/1-4/15 | 4/15-4/29 | 4/29-5/20 | 5/20-6/3 | 6/3-6/17 | 6/17-7/1 |
|------------------|---|--|-------------------------------|--|----------|-----------|-----------|----------|----------|----------|
| | | | | | ppb | ppb | ppb | ppb | ppb | ppb |
| Benzene | 9.39 | Decreased blood cell count | A - human carcinogen | 0.41 - 1.41 | 0.12 | ND | ND | ND | ND | ND |
| Toluene | 1326.8 | Neurological effects | Inadequate data | NA | 0.09 | ND | ND | ND | ND | ND |
| Ethylbenzene | 230.3 | Developmental toxicity | D - not classifiable | NA | ND | ND | ND | ND | ND | ND |
| m,p-Xylenes | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| o-Xylene | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| Naphthalene | 0.57 | Damage to the lining of the respiratory system | C - possible human carcinogen | NA | ND | ND | ND | ND | ND | ND |
| Styrene | 234.8 | Damage to the nervous system | NA | NA | ND | ND | ND | ND | ND | ND |
| n-Hexane | 198.6 | Damage to the nervous system | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| Nitrogen dioxide | 53** | Adverse respiratory effects | NA | NA | 4.08 | 2.06 | X | X | X | X |

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| | = fracking |
| | = flaring |
| | = production |

Deer Lakes Ambient Air Sampling Results / Radiello passive monitors

PLEASE NOTE: Nitrogen dioxide is the only compound on this list that is regulated by the EPA or ACHD

| Compounds Tested | Inhalation Reference Concentration (RFC)* (converted to ppbv) | Critical Health Effect* | Carcinogenic Classification* | Lifetime continuous exposure (converted to ppbv) for an added 1 in 100,000 risk of cancer* | 7/1-7/15 ppb | 7/15-7/29 ppb | 7/31-8/12 ppb | 8/12-8/26 ppb | 8/26-9/9 ppb | 9/9-9/23 ppb |
|------------------|---|--|-------------------------------|--|--------------|---------------|---------------|---------------|--------------|--------------|
| Benzene | 9.39 | Decreased blood cell count | A - human carcinogen | 0.41 - 1.41 | ND | 0.18 | ND | ND | 0.17 | 0.12 |
| Toluene | 1326.8 | Neurological effects | Inadequate data | NA | 0.11 | 0.50 | 0.11 | ND | 0.18 | 0.11 |
| Ethylbenzene | 230.3 | Developmental toxicity | D - not classifiable | NA | ND | ND | ND | ND | ND | ND |
| m,p-Xylenes | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | 0.16 | ND | ND | ND | ND |
| o-Xylene | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| Naphthalene | 0.57 | Damage to the lining of the respiratory system | C - possible human carcinogen | NA | ND | ND | ND | ND | ND | ND |
| Styrene | 234.8 | Damage to the nervous system | NA | NA | ND | ND | ND | ND | ND | ND |
| n-Hexane | 198.6 | Damage to the nervous system | Inadequate data | NA | ND | 0.21 | ND | ND | ND | ND |
| Nitrogen dioxide | 53** | Adverse respiratory effects | NA | NA | X | X | X | X | X | X |

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| Compounds Tested | Inhalation Reference Concentration (RfC)* (converted to ppbv) | Critical Health Effect* | Carcinogenic Classification* | Lifetime continuous exposure (converted to ppbv) for an added 1 in 100,000 risk of cancer* | | | | | |
|------------------|---|--|-------------------------------|--|---------------|----------------|----------------|----------------|----------------|
| | | | | | 9/23-10/7 ppb | 10/7-10/21 ppb | 10/21-11/4 ppb | 11/4-11/18 ppb | 11/18-12/1 ppb |
| Benzene | 9.39 | Decreased blood cell count | A - human carcinogen | 0.41 - 1.41 | ND | 0.15 | ND | 0.15 | 0.14 |
| Toluene | 1326.8 | Neurological effects | Inadequate data | NA | ND | 0.10 | ND | 0.13 | ND |
| Ethylbenzene | 230.3 | Developmental toxicity | D - not classifiable | NA | ND | ND | ND | ND | ND |
| m,p-Xylenes | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND |
| o-Xylene | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND |
| Naphthalene | 0.57 | Damage to the lining of the respiratory system | C - possible human carcinogen | NA | ND | ND | ND | ND | ND |
| Styrene | 234.8 | Damage to the nervous system | NA | NA | ND | ND | ND | ND | ND |
| n-Hexane | 198.6 | Damage to the nervous system | Inadequate data | NA | ND | ND | ND | 0.23 | ND |
| Nitrogen dioxide | 53** | Adverse respiratory effects | NA | NA | X | X | X | X | X |

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| Compounds Tested | Inhalation Reference Concentration (RFC)* (converted to ppbv) | Critical Health Effect* | Carcinogenic Classification* | Lifetime continuous exposure (converted to ppbv) for an added 1 in 100,000 risk of cancer* | 2016 | | | | |
|------------------|---|--|-------------------------------|--|----------------|-----------------|----------------|---------------|---------------|
| | | | | | 12/1-12/16 ppb | 12/16-12/30 ppb | 12/30-1/14 ppb | 1/14-1/27 ppb | 1/27-2/10 ppb |
| Benzene | 9.39 | Decreased blood cell count | A - human carcinogen | 0.41 - 1.41 | 0.28 | 0.17 | 0.25 | 0.32 | 0.22 |
| Toluene | 1326.8 | Neurological effects | Inadequate data | NA | 0.18 | 0.10 | 0.13 | 0.16 | 0.12 |
| Ethylbenzene | 230.3 | Developmental toxicity | D - not classifiable | NA | ND | ND | ND | ND | ND |
| m,p-Xylenes | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND |
| o-Xylene | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND |
| Naphthalene | 0.57 | Damage to the lining of the respiratory system | C - possible human carcinogen | NA | ND | ND | ND | ND | ND |
| Styrene | 234.8 | Damage to the nervous system | NA | NA | ND | ND | ND | ND | ND |
| n-Hexane | 198.6 | Damage to the nervous system | Inadequate data | NA | ND | ND | ND | ND | ND |
| Nitrogen dioxide | 53** | Adverse respiratory effects | NA | NA | X | X | X | X | X |

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| Compounds Tested | Inhalation Reference Concentration (RFC)* (converted to ppbv) | Critical Health Effect* | Carcinogenic Classification* | Lifetime continuous exposure (converted to ppbv) for an added 1 in 100,000 risk of cancer* | | | | | | |
|------------------|---|--|-------------------------------|--|---------------|--------------|--------------|--------------|--------------|--------------|
| | | | | | 2/10-2/24 ppb | 2/24-3/8 ppb | 3/8-3/22 ppb | 3/22-4/5 ppb | 4/5-4/19 ppb | 4/19-5/3 ppb |
| Benzene | 9.39 | Decreased blood cell count | A - human carcinogen | 0.41 - 1.41 | 0.18 | 0.19 | 0.15 | 0.13 | 0.11 | ND |
| Toluene | 1326.8 | Neurological effects | Inadequate data | NA | 0.10 | ND | 0.10 | ND | ND | ND |
| Ethylbenzene | 230.3 | Developmental toxicity | D - not classifiable | NA | ND | ND | ND | ND | ND | ND |
| m,p-Xylenes | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| o-Xylene | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| Naphthalene | 0.57 | Damage to the lining of the respiratory system | C - possible human carcinogen | NA | ND | ND | ND | ND | ND | ND |
| Styrene | 234.8 | Damage to the nervous system | NA | NA | ND | ND | ND | ND | ND | ND |
| n-Hexane | 198.6 | Damage to the nervous system | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| Nitrogen dioxide | 53** | Adverse respiratory effects | NA | NA | X | X | X | X | X | X |

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| Compounds Tested | Inhalation Reference Concentration (RFC)* (converted to ppbv) | Critical Health Effect* | Carcinogenic Classification* | Lifetime continuous exposure (converted to ppbv) for an added 1 in 100,000 risk of cancer* | 5/3-5/17 ppb | 5/17-6/2 ppb | 6/2-6/14 ppb | 6/14-6/29 | 6/29-7/12 ppb | 7/12-7/26 ppb |
|------------------|---|--|-------------------------------|--|--------------|--------------|--------------|-----------|---------------|---------------|
| Benzene | 9.39 | Decreased blood cell count | A - human carcinogen | 0.41 - 1.41 | ND | 0.09 | ND | X | ND | ND |
| Toluene | 1326.8 | Neurological effects | Inadequate data | NA | 0.09 | 0.11 | 0.11 | X | 0.14 | 0.12 |
| Ethylbenzene | 230.3 | Developmental toxicity | D - not classifiable | NA | ND | ND | ND | X | ND | ND |
| m,p-Xylenes | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | X | ND | ND |
| o-Xylene | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | X | ND | ND |
| Naphthalene | 0.57 | Damage to the lining of the respiratory system | C - possible human carcinogen | NA | ND | ND | ND | X | ND | ND |
| Styrene | 234.8 | Damage to the nervous system | NA | NA | ND | ND | ND | X | ND | ND |
| n-Hexane | 198.6 | Damage to the nervous system | Inadequate data | NA | ND | ND | ND | X | ND | ND |
| Nitrogen dioxide | 53** | Adverse respiratory effects | NA | NA | X | X | X | X | X | X |

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| Compounds Tested | Inhalation Reference Concentration (RFC)* (converted to ppbv) | Critical Health Effect* | Carcinogenic Classification* | Lifetime continuous exposure (converted to ppbv) for an added 1 in 100,000 risk of cancer* | 7/26-8/11 ppb | 8/11-8/23 ppb | 8/23-9/6 ppb | 9/6-9/20 ppb | 9/20-10/4 ppb | 10/4-10/18 ppb |
|------------------|---|--|-------------------------------|--|---------------|---------------|--------------|--------------|---------------|----------------|
| Benzene | 9.39 | Decreased blood cell count | A - human carcinogen | 0.41 - 1.41 | 0.09 | ND | 0.12 | ND | ND | 0.10 |
| Toluene | 1326.8 | Neurological effects | Inadequate data | NA | 0.12 | 0.15 | 0.16 | 0.14 | 0.13 | 0.11 |
| Ethylbenzene | 230.3 | Developmental toxicity | D - not classifiable | NA | ND | ND | ND | ND | ND | ND |
| m,p-Xylenes | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| o-Xylene | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| Naphthalene | 0.57 | Damage to the lining of the respiratory system | C - possible human carcinogen | NA | ND | ND | ND | ND | ND | ND |
| Styrene | 234.8 | Damage to the nervous system | NA | NA | ND | ND | ND | ND | ND | ND |
| n-Hexane | 198.6 | Damage to the nervous system | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| Nitrogen dioxide | 53** | Adverse respiratory effects | NA | NA | X | X | X | X | X | X |

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| Compounds Tested | Inhalation Reference Concentration (RFC)* (converted to ppbv) | Critical Health Effect* | Carcinogenic Classification* | Lifetime continuous exposure (converted to ppbv) for an added 1 in 100,000 risk of cancer* | | | | | |
|------------------|---|--|-------------------------------|--|----------------|----------------|-----------------|----------------|----------------|
| | | | | | 10/18-11/1 ppb | 11/1-11/14 ppb | 11/14-11/29 ppb | 11/29-12/1 ppb | 12/14-12/2 ppb |
| Benzene | 9.39 | Decreased blood cell count | A - human carcinogen | 0.41 - 1.41 | 0.10 | 0.20 | 0.20 | 0.12 | 0.26 |
| Toluene | 1326.8 | Neurological effects | Inadequate data | NA | 0.09 | 0.16 | 0.16 | 0.11 | 0.16 |
| Ethylbenzene | 230.3 | Developmental toxicity | D - not classifiable | NA | ND | ND | ND | ND | ND |
| m,p-Xylenes | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND |
| o-Xylene | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND |
| Naphthalene | 0.57 | Damage to the lining of the respiratory system | C - possible human carcinogen | NA | ND | ND | ND | ND | ND |
| Styrene | 234.8 | Damage to the nervous system | NA | NA | ND | ND | ND | ND | ND |
| n-Hexane | 198.6 | Damage to the nervous system | Inadequate data | NA | ND | ND | ND | ND | ND |
| Nitrogen dioxide | 53** | Adverse respiratory effects | NA | NA | X | X | X | X | X |

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Deer Lakes Ambient Air Sampling Results / Radiello passive monitors

PLEASE NOTE: Nitrogen dioxide is the only compound on this list that is regulated by the EPA or ACHD

| Compounds Tested | Inhalation Reference Concentration (RfC)* (converted to ppbv) | Critical Health Effect* | Carcinogenic Classification* | Lifetime continuous exposure (converted to ppbv) for an added 1 in 100,000 risk of cancer* | 12/28-1/1 | 1/11-1/25 | 1/25-2/9 | 2/9-2/22 | 2/22-3/8 | 3/8-3/21 |
|------------------|---|--|-------------------------------|--|-----------|-----------|----------|----------|----------|----------|
| | | | | | ppb | ppb | ppb | ppb | ppb | ppb |
| Benzene | 9.39 | Decreased blood cell count | A - human carcinogen | 0.41 - 1.41 | 0.18 | 0.17 | 0.16 | 0.19 | 0.17 | 0.17 |
| Toluene | 1326.8 | Neurological effects | Inadequate data | NA | ND | 0.14 | 0.11 | 0.11 | ND | ND |
| Ethylbenzene | 230.3 | Developmental toxicity | D - not classifiable | NA | ND | ND | ND | ND | ND | ND |
| m,p-Xylenes | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| o-Xylene | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| Naphthalene | 0.57 | Damage to the lining of the respiratory system | C - possible human carcinogen | NA | ND | ND | ND | ND | ND | ND |
| Styrene | 234.8 | Damage to the nervous system | NA | NA | ND | ND | ND | ND | ND | ND |
| n-Hexane | 198.6 | Damage to the nervous system | Inadequate data | NA | ND | ND | ND | ND | ND | ND |
| Nitrogen dioxide | 53** | Adverse respiratory effects | NA | NA | X | X | X | X | X | X |

* = from EPA's Integrated Risk Information System (IRIS)
 ** = National Ambient Air Quality Standard (Annual Mean)
 NA = not available

ND = not detected
 X = not tested

NOTE: All reference levels are for informational purposes only. It is not applicable to compare long term reference levels to individual short term measurements.

| | |
|--|---------------------------|
| | = baseline (pre-drilling) |
| | = site construction |
| | = drilling has started |
| | = fracking |
| | = flaring |
| | = production |

Deer Lakes Ambient Air Sampling Results / Radiello passive monitors

PLEASE NOTE: Nitrogen dioxide is the only compound on this list that is regulated by the EPA or ACHD

| Compounds Tested | Inhalation Reference Concentration (RfC)* (converted to ppbv) | Critical Health Effect* | Carcinogenic Classification* | Lifetime continuous exposure (converted to ppbv) for an added 1 in 100,000 risk of cancer* | 3/21-4/4 ppb | 4/4-4/19 ppb | 4/19-5/3 ppb |
|------------------|---|--|-------------------------------|--|--------------|--------------|--------------|
| Benzene | 9.39 | Decreased blood cell count | A - human carcinogen | 0.41 - 1.41 | 0.13 | 0.11 | ND |
| Toluene | 1326.8 | Neurological effects | Inadequate data | NA | ND | ND | ND |
| Ethylbenzene | 230.3 | Developmental toxicity | D - not classifiable | NA | ND | ND | ND |
| m,p-Xylenes | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND |
| o-Xylene | 23.0 | Impaired motor coordination | Inadequate data | NA | ND | ND | ND |
| Naphthalene | 0.57 | Damage to the lining of the respiratory system | C - possible human carcinogen | NA | ND | ND | ND |
| Styrene | 234.8 | Damage to the nervous system | NA | NA | ND | ND | ND |
| n-Hexane | 198.6 | Damage to the nervous system | Inadequate data | NA | ND | ND | ND |
| Nitrogen dioxide | 53** | Adverse respiratory effects | NA | NA | X | X | X |

* = from EPA's Integrated Risk Information System (IRIS)
 ** = National Ambient Air Quality Standard (Annual Mean)
 NA = not available

ND = not detected
 X = not tested

NOTE: All reference levels are for informational purposes only. It is not applicable to compare long term reference levels to individual short term measurements.

| | |
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| | = baseline (pre-drilling) |
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