

**From:** Dave Lennon <dmlennon@yahoo.com>  
**Sent:** Thursday, August 25, 2022 10:31 AM  
**To:** Egan, Alice M - DNR; Moraine Environmental Inc.  
**Subject:** Corky's Union 76, W62 N245 Washington Ave., Cedarburg  
**Attachments:** Phase II GW Benzene Overlaid on Closed LUST 03-46-001656 GW Isocon.pdf

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Alice,

Provided is a figure with the Phase II ESA groundwater sample locations with benzene results overlaid on the Groundwater Isoconcentration map (Figure 3) from the Closed LUST #03-46-001656.

Please let me know if you require any additional information to complete the review.

Thank You,

Dave Lennon, P.E.  
Senior Project Manager  
Moraine Environmental  
Cell: 262-844-5343  
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SP/SD-1

Soil Probe/Small Diameter Well Location & I.D. - Phase II ESA Groundwater Samples Collected 6/16/22

(5.1)

Benzene Concentration in Groundwater (ug/L) on 6/16/22

| MW-4C |         |          |         |         |  |
|-------|---------|----------|---------|---------|--|
| DATE  | 7/17/00 | 10/25/00 | 1/30/01 | 5/15/01 |  |
| GRO   | <50     | <50      | <50     | <100    |  |
| B     | 0.745   | 0.605    | <0.50   | <0.21   |  |
| T     | <0.50   | <0.50    | <0.50   | <0.41   |  |
| E     | <0.50   | <0.50    | <0.50   | <0.22   |  |
| X     | <0.50   | <0.50    | <0.50   | <0.69   |  |
| TMBs  | <2.0    | <2.0     | <2.0    | <0.60   |  |
| MTBE  | 2.16    | 2.23     | <0.50   | <0.46   |  |

| MW-2CR |         |          |         |         |  |
|--------|---------|----------|---------|---------|--|
| DATE   | 7/17/00 | 10/25/00 | 1/30/01 | 5/15/01 |  |
| GRO    | 1,270   | 1,310    | 222     | 1,200   |  |
| B      | 1.92    | 2.1      | 30.3    | 100     |  |
| T      | 17.0    | 27.0     | 5.12    | 45      |  |
| E      | 115     | 115      | 5.16    | 120     |  |
| X      | 126     | 44.4     | 10.4    | 100     |  |
| TMBs   | 115.5   | 50.5     | 15.6    | 190     |  |
| MTBE   | 14.1    | <4.00    | 1.25    | <9.2    |  |

| MW-8C |         |          |         |          |  |
|-------|---------|----------|---------|----------|--|
| DATE  | 7/17/00 | 10/25/00 | 1/30/01 | 5/15/01  |  |
| GRO   | 356     | 142      | 120     | 160      |  |
| B     | 55.8    | 13.4     | 61.2    | 3.0      |  |
| T     | 1.47    | 0.514    | 16.7    | 0.51 (Q) |  |
| E     | 26.6    | 0.501    | 7.78    | 8.5      |  |
| X     | 7.32    | 0.961    | 10.1    | 8.5      |  |
| TMBs  | 6.50    | 1.05     | <2.0    | 8.7      |  |
| MTBE  | 7.74    | 2.82     | 4.15    | <0.46    |  |

| MW-9C |         |          |         |         |  |
|-------|---------|----------|---------|---------|--|
| DATE  | 7/17/00 | 10/25/00 | 1/30/01 | 5/15/01 |  |
| GRO   | <50     | 263      | <50     | <100    |  |
| T     | <0.50   | 0.78     | <0.50   | <0.21   |  |
| X     | <0.50   | 0.719    | <0.50   | <0.41   |  |
| TMBs  | <2.0    | 1.98     | <2.0    | <0.60   |  |

| MW-6C |         |          |         |         |  |
|-------|---------|----------|---------|---------|--|
| DATE  | 7/17/00 | 10/25/00 | 1/30/01 | 5/15/01 |  |
| GRO   | 140     | 133      | ---     | 1,000   |  |
| B     | <0.50   | 0.558    | ---     | <0.21   |  |
| T     | <0.50   | <0.50    | ---     | <0.41   |  |
| E     | <0.50   | <0.50    | ---     | <0.22   |  |
| X     | <0.50   | <0.50    | ---     | <0.69   |  |
| TMBs  | <2.0    | <2.0     | ---     | <0.50   |  |
| MTBE  | 2.84    | 2.49     | ---     | ---     |  |

| MW-3C |         |          |         |          |  |
|-------|---------|----------|---------|----------|--|
| DATE  | 7/17/00 | 10/25/00 | 1/30/01 | 5/15/01  |  |
| GRO   | 456     | 639      | 375     | 1,100    |  |
| B     | 73.4    | 21.5     | 81.8    | 32       |  |
| T     | 3.78    | <3.00    | 3.44    | <4.1     |  |
| E     | 58.0    | 74.6     | 61.5    | 75       |  |
| X     | 21.2    | 230      | 194     | 150      |  |
| TMBs  | 32.98   | 31.8     | 27.03   | 25.9 (Q) |  |
| MTBE  | <1.00   | <2.00    | <1.00   | <4.6     |  |

| MW-7C |         |          |         |         |  |
|-------|---------|----------|---------|---------|--|
| DATE  | 7/17/00 | 10/25/00 | 1/30/01 | 5/15/01 |  |
| GRO   | <50     | <50      | <50     | <100    |  |
| B     | <0.50   | <0.50    | <0.50   | <0.21   |  |
| T     | <0.50   | <0.50    | <0.50   | <0.41   |  |
| X     | <0.50   | 0.84     | <0.50   | <0.22   |  |
| TMBs  | <0.20   | <0.20    | <0.20   | <0.46   |  |

| MW-1C |         |          |         |         |  |
|-------|---------|----------|---------|---------|--|
| DATE  | 7/17/00 | 10/25/00 | 1/30/01 | 5/15/01 |  |
| GRO   | 4,610   | 5,700    | 3,700   | 6,400   |  |
| B     | 2,000   | 2,560    | 1,750   | 1,300   |  |
| T     | 34.8    | 88       | 49.5    | 72      |  |
| E     | 538     | 387      | 188     | 440     |  |
| X     | 187     | 167      | 80.4    | 360     |  |
| TMBs  | 65.1    | <200     | 41.9    | 888     |  |
| MTBE  | 241     | 233      | 157     | 110     |  |

| MW-5C |         |          |         |          |  |
|-------|---------|----------|---------|----------|--|
| DATE  | 7/17/00 | 10/25/00 | 1/30/01 | 5/15/01  |  |
| GRO   | 54.9    | 65.6     | <50     | <100     |  |
| B     | 4.18    | 10.2     | 4.00    | 1.8      |  |
| T     | <0.50   | <0.50    | <0.50   | <0.41    |  |
| X     | <0.50   | <0.50    | <0.50   | 0.35 (Q) |  |
| TMBs  | <2.0    | <2.0     | 1.57    | <0.60    |  |
| MTBE  | 88.9    | 92.4     | 31.4    | 78       |  |

| MW-10C |         |          |         |         |  |
|--------|---------|----------|---------|---------|--|
| DATE   | 7/17/00 | 10/25/00 | 1/30/01 | 5/15/01 |  |
| GRO    | <50     | <50      | <50     | <100    |  |
| B      | <0.50   | 0.690    | <0.50   | <0.21   |  |
| X      | <0.50   | <0.50    | <0.50   | <0.69   |  |
| TMBs   | <2.0    | 4.58     | <0.20   | <0.46   |  |

**NOTES**  
 GRO: GASOLINE RANGE ORGANICS, mg/l  
 VOC: VOLATILE ORGANIC COMPOUNDS, ug/l  
 B: BENZENE, ug/l  
 T: TOLUENE, ug/l  
 E: ETHYLBENZENE, ug/l  
 X: TOTAL XYLENES, ug/l  
 TMBs: TOTAL TRIMETHYLBENZENES, ug/l  
 MTBE: METHYL TERT-BUTYL ETHER, ug/l  
 ug/l: MICROGRAMS PER LITER  
 ug/l: MICROGRAMS PER LITER  
 <: LESS THAN INSTRUMENT DETECTION LIMIT  
 ND: NO DETECTION  
 ---: NOT ANALYZED  
 (Q): CONCENTRATION BETWEEN LIMIT OF DETECTION (LOD) AND LIMIT OF QUANTITATION (LOQ)  
<sup>1)</sup> ONE HALF OF THE METHOD DETECTION LIMIT

- LEGEND**
- ◆ MONITORING WELL LOCATION
  - ✱ ABANDONED MONITORING WELL LOCATION
  - ◆ MONITORING WELL INSTALLED FOR CEDARBURG VILLAGE INVESTMENT PARTNERSHIP (CVIP) CHLORINATED VOLATILE ORGANIC COMPOUND (CVOC) INVESTIGATION (WENR BRITS #02-46-242188)
  - 10 CONCENTRATION GREATER THAN NR 140 PREVENTIVE ACTION LIMIT (PAL)
  - 100 CONCENTRATION GREATER THAN NR 140 ENFORCEMENT STANDARD (ES)
  - BENZENE GROUNDWATER ISOCONCENTRATION CONTOUR, ug/l (5/15/01)
  - 1,900 BENZENE GROUNDWATER CONCENTRATION, ug/l
  - 764.77 GROUNDWATER ELEVATION (5/15/01)
  - GROUNDWATER FLOW DIRECTION
  - CONTOUR INTERVAL = 2.0 FEET
  - AVERAGE HYDRAULIC GRADIENT = 0.052 FEET/FOOT

|          |        |           |           |
|----------|--------|-----------|-----------|
| DRN. BY: | C.S.   | DATE:     | 01/31/02  |
| DSN. BY: | D.K.P. | FILE NO.: | 0704004   |
| CHK. BY: | D.K.P. | DWG. NO.: | 07040045b |
| REV. BY: | G.L.J. | SHFT NO.: | 7         |



REFERENCE: Hilmer Engineering, Inc. Site Survey, 10/15/91  
 © 2002 Key Engineering Group Ltd.  
**FIGURE 3**  
**SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS**  
 CORKY'S TIRE & AUTO SERVICE  
 #62 N245 WASHINGTON AVENUE

