

|   |  |
|---|--|
| <b>STH 441: USH 10 TO CTH CE (OUTAGAMIE COUNTY)</b><br><b>NIGHTTIME CLOSURE</b><br><b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>MAY</b>                               |
|   | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY      SOUTHBOUND DIRECTION

| TIME OF DAY | FLOWS AND CAPACITY IN VEH/HR |           |                |            |             |                       | AVERAGE SPEEDS IN MPH |                   |                |      |
|-------------|------------------------------|-----------|----------------|------------|-------------|-----------------------|-----------------------|-------------------|----------------|------|
|             | MAIN ROUTE                   |           | SITE CAPA CITY | FLOW       |             | AV.DEL PER VEH (MINS) | AVERAGE QUEUE (VEH)   | MAIN ROUTE        |                | SITE |
|             | DEMAND FLOW                  | PCT HEAVY |                | MAIN ROUTE | 'DIVER TED' |                       |                       | WITHOUT WORK ZONE | WITH WORK ZONE |      |
| MID-1 AM    | 119                          | 0.0       | 1500           | 119        | 0           | 0.43                  | 0                     | 66.1              | 58.6           | 45.0 |
| 1-2 AM      | 100                          | 0.0       | 1500           | 100        | 0           | 0.43                  | 0                     | 66.2              | 58.6           | 45.1 |
| 2-3 AM      | 86                           | 0.0       | 1500           | 86         | 0           | 0.43                  | 0                     | 66.2              | 58.7           | 45.1 |
| 3-4 AM      | 106                          | 0.0       | 1500           | 106        | 0           | 0.43                  | 0                     | 66.2              | 58.6           | 45.1 |
| 4-5 AM      | 288                          | 0.0       | 1500           | 288        | 0           | 0.45                  | 0                     | 65.8              | 58.1           | 44.3 |
| 5-6 AM      | 737                          | 0.0       | OFF            | 737        | 0           | 0.00                  | 0                     | 65.0              | 65.0           | 65.0 |
| 6-7 AM      | 1501                         | 0.0       | OFF            | 1501       | 0           | 0.00                  | 0                     | 63.6              | 63.6           | 63.6 |
| 7-8 AM      | 2190                         | 0.0       | OFF            | 2190       | 0           | 0.00                  | 0                     | 62.3              | 62.3           | 62.3 |
| 8-9 AM      | 1373                         | 0.0       | OFF            | 1373       | 0           | 0.00                  | 0                     | 63.8              | 63.8           | 63.8 |
| 9-10 AM     | 1054                         | 0.0       | OFF            | 1054       | 0           | 0.00                  | 0                     | 64.4              | 64.4           | 64.4 |
| 10-11 AM    | 1125                         | 0.0       | OFF            | 1125       | 0           | 0.00                  | 0                     | 64.3              | 64.3           | 64.3 |
| 11AM-NOON   | 1198                         | 0.0       | OFF            | 1198       | 0           | 0.00                  | 0                     | 64.1              | 64.1           | 64.1 |
| NOON-1PM    | 1257                         | 0.0       | OFF            | 1257       | 0           | 0.00                  | 0                     | 64.0              | 64.0           | 64.0 |
| 1-2 PM      | 1350                         | 0.0       | OFF            | 1350       | 0           | 0.00                  | 0                     | 63.9              | 63.9           | 63.9 |
| 2-3 PM      | 1365                         | 0.0       | OFF            | 1365       | 0           | 0.00                  | 0                     | 63.8              | 63.8           | 63.8 |
| 3-4 PM      | 1631                         | 0.0       | OFF            | 1631       | 0           | 0.00                  | 0                     | 63.3              | 63.3           | 63.3 |
| 4-5 PM      | 1719                         | 0.0       | OFF            | 1719       | 0           | 0.00                  | 0                     | 63.2              | 63.2           | 63.2 |
| 5-6 PM      | 1581                         | 0.0       | OFF            | 1581       | 0           | 0.00                  | 0                     | 63.5              | 63.5           | 63.5 |
| 6-7 PM      | 1150                         | 0.0       | OFF            | 1150       | 0           | 0.00                  | 0                     | 64.3              | 64.3           | 64.3 |
| 7-8 PM      | 764                          | 0.0       | 1500           | 764        | 0           | 0.50                  | 0                     | 65.0              | 56.7           | 42.5 |
| 8-9 PM      | 665                          | 0.0       | 1500           | 665        | 0           | 0.49                  | 0                     | 65.1              | 57.0           | 42.9 |
| 9-10 PM     | 572                          | 0.0       | 1500           | 572        | 0           | 0.48                  | 0                     | 65.3              | 57.3           | 43.2 |
| 10-11 PM    | 513                          | 0.0       | 1500           | 513        | 0           | 0.47                  | 0                     | 65.5              | 57.4           | 43.5 |
| 11PM-MID    | 319                          | 0.0       | 1500           | 319        | 0           | 0.45                  | 0                     | 65.8              | 58.0           | 44.2 |

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

| *----- SITE BREAKDOWN DELAYS -----*    |      |
|--|------|
| BREAKDOWN DURATION (MINS)              | 0    |
| RANGE OF QUEUE DELAY - MIN (VEH-H) MAX | 0.0  |
| AV BREAKDOWNS PER DAY                  | 0.00 |
| AV QUEUE DELAY/DAY (VEH-H)             | 0.0  |
| AV TOTAL DELAY/DAY (VEH-H)             | 0.0  |

| *----- SITE ACCIDENT DELAYS -----*     |   |
|--|---|
| BREAKDOWN DURATION (MINS)              | 0 |
| RANGE OF QUEUE DELAY - MIN (VEH-H) MAX | 0 |
| AV BREAKDOWNS PER DAY                  | 0 |
| AV QUEUE DELAY/DAY (VEH-H)             | 0 |
| AV TOTAL DELAY/DAY (VEH-H)             | 0 |

| AVERAGE ACCIDENT NUMBERS (PIA/DAY)            |        |
|---|--------|
| MAIN ROUTE WITHOUT WORKS                      | 0.0134 |
| MAIN ROUTE WITH WORKS                         | 0.0132 |
| 'DIVERSION'                                   | 0.0000 |
| <small>PIA: Personal Injury Accidents</small> |        |
| IMPACTS ON ROAD USERS                         |        |
| ROAD USER COSTS PER DAY                       | \$361  |
| CONGESTED HOURS PER DAY*                      | 0      |

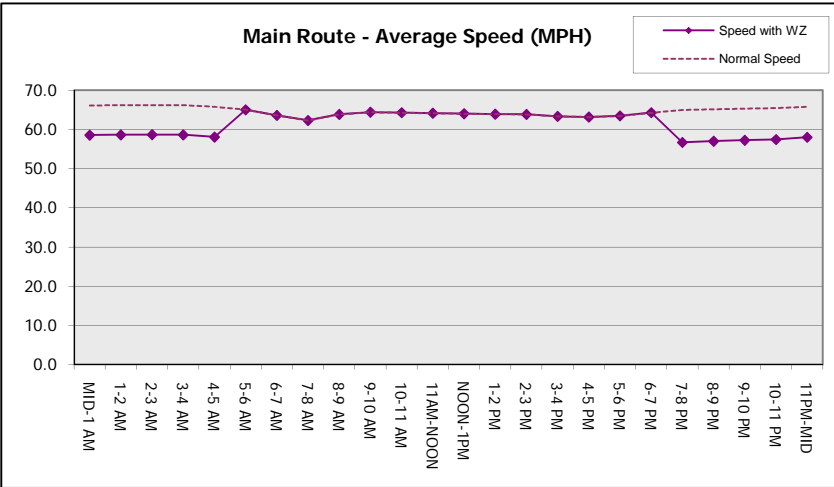
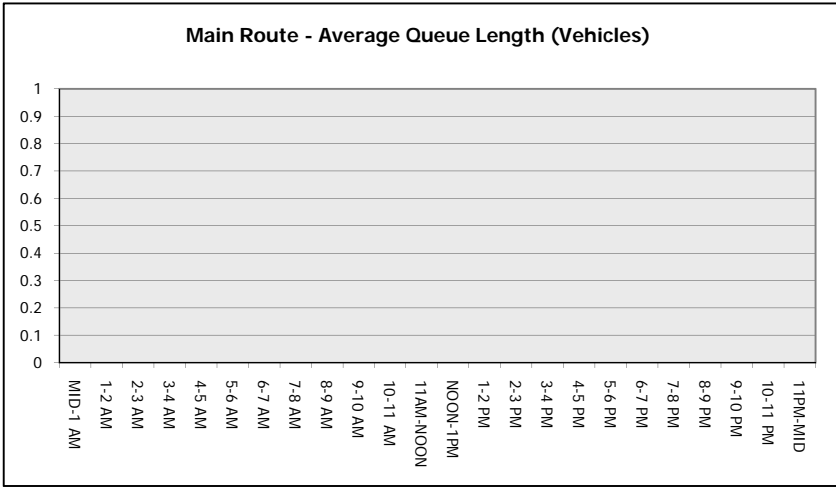
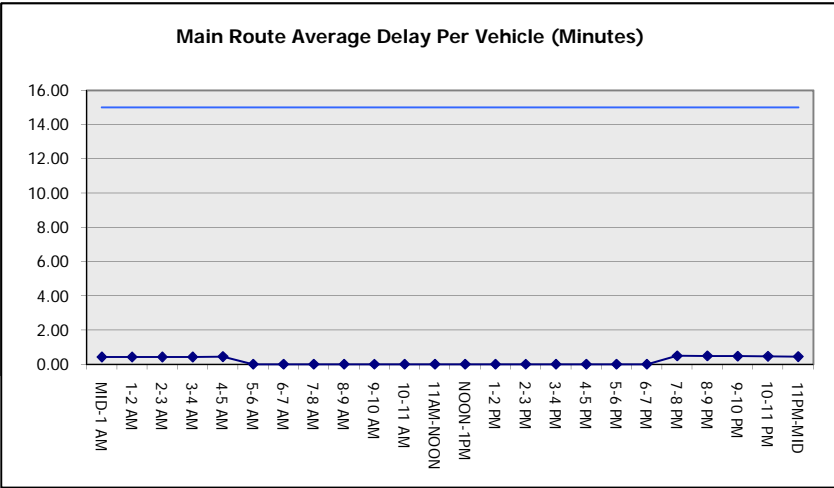
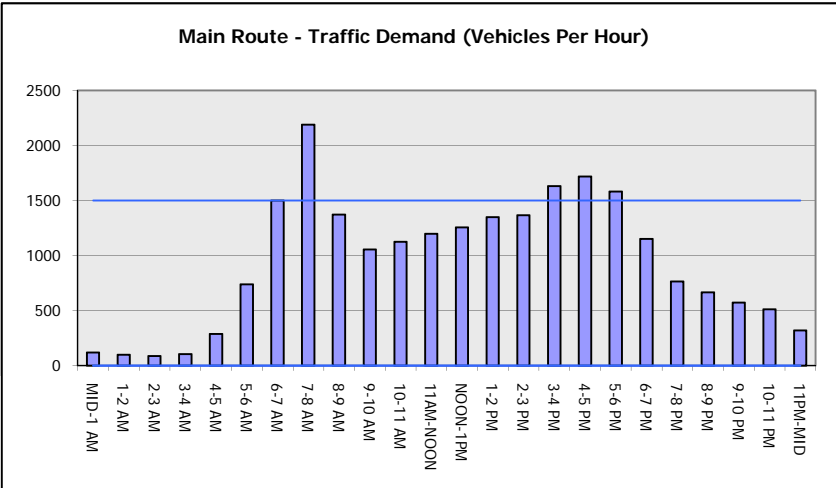
\*Delays Exceeding User-Specified Maximum

**STH 441: USH 10 TO CTH CE (OUTAGAMIE COUNTY)**  
**NIGHTTIME CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**MAY**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**FRIDAY SOUTHBOUND DIRECTION**



|   |  |
|---|--|
| <b>STH 441: USH 10 TO CTH CE (OUTAGAMIE COUNTY)</b><br><b>NIGHTTIME CLOSURE</b><br><b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>MAY</b>                               |
|   | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY NORTHBOUND DIRECTION

| TIME OF DAY | FLOWS AND CAPACITY IN VEH/HR |           |                |            |             |                       |                     | AVERAGE SPEEDS IN MPH |                |      |
|-------------|------------------------------|-----------|----------------|------------|-------------|-----------------------|---------------------|-----------------------|----------------|------|
|             | MAIN ROUTE                   |           | SITE CAPA CITY | FLOW       |             | AV.DEL PER VEH (MINS) | AVERAGE QUEUE (VEH) | MAIN ROUTE            |                | SITE |
|             | DEMAND FLOW                  | PCT HEAVY |                | MAIN ROUTE | 'DIVER TED' |                       |                     | WITHOUT WORK ZONE     | WITH WORK ZONE |      |
| MID-1 AM    | 200                          | 0.0       | 1500           | 200        | 0           | 0.44                  | 0                   | 66.0                  | 58.3           | 44.7 |
| 1-2 AM      | 123                          | 0.0       | 1500           | 123        | 0           | 0.43                  | 0                   | 66.1                  | 58.6           | 45.0 |
| 2-3 AM      | 106                          | 0.0       | 1500           | 106        | 0           | 0.43                  | 0                   | 66.2                  | 58.6           | 45.1 |
| 3-4 AM      | 85                           | 0.0       | 1500           | 85         | 0           | 0.43                  | 0                   | 66.2                  | 58.7           | 45.1 |
| 4-5 AM      | 115                          | 0.0       | 1500           | 115        | 0           | 0.43                  | 0                   | 66.2                  | 58.6           | 45.0 |
| 5-6 AM      | 443                          | 0.0       | OFF            | 443        | 0           | 0.00                  | 0                   | 65.6                  | 65.6           | 65.6 |
| 6-7 AM      | 1224                         | 0.0       | OFF            | 1224       | 0           | 0.00                  | 0                   | 64.1                  | 64.1           | 64.1 |
| 7-8 AM      | 1791                         | 0.0       | OFF            | 1791       | 0           | 0.00                  | 0                   | 63.0                  | 63.0           | 63.0 |
| 8-9 AM      | 1304                         | 0.0       | OFF            | 1304       | 0           | 0.00                  | 0                   | 64.0                  | 64.0           | 64.0 |
| 9-10 AM     | 1097                         | 0.0       | OFF            | 1097       | 0           | 0.00                  | 0                   | 64.3                  | 64.3           | 64.3 |
| 10-11 AM    | 1234                         | 0.0       | OFF            | 1234       | 0           | 0.00                  | 0                   | 64.1                  | 64.1           | 64.1 |
| 11AM-NOON   | 1385                         | 0.0       | OFF            | 1385       | 0           | 0.00                  | 0                   | 63.8                  | 63.8           | 63.8 |
| NOON-1PM    | 1444                         | 0.0       | OFF            | 1444       | 0           | 0.00                  | 0                   | 63.7                  | 63.7           | 63.7 |
| 1-2 PM      | 1565                         | 0.0       | OFF            | 1565       | 0           | 0.00                  | 0                   | 63.5                  | 63.5           | 63.5 |
| 2-3 PM      | 2073                         | 0.0       | OFF            | 2073       | 0           | 0.00                  | 0                   | 62.5                  | 62.5           | 62.5 |
| 3-4 PM      | 2415                         | 0.0       | OFF            | 2415       | 0           | 0.00                  | 0                   | 61.8                  | 61.8           | 61.8 |
| 4-5 PM      | 2756                         | 0.0       | OFF            | 2756       | 0           | 0.00                  | 0                   | 58.2                  | 58.2           | 58.2 |
| 5-6 PM      | 2374                         | 0.0       | OFF            | 2374       | 0           | 0.00                  | 0                   | 62.0                  | 62.0           | 62.0 |
| 6-7 PM      | 1580                         | 0.0       | OFF            | 1580       | 0           | 0.00                  | 0                   | 63.5                  | 63.5           | 63.5 |
| 7-8 PM      | 1101                         | 0.0       | 1500           | 1101       | 0           | 0.53                  | 0                   | 64.3                  | 55.8           | 41.3 |
| 8-9 PM      | 984                          | 0.0       | 1500           | 984        | 0           | 0.52                  | 0                   | 64.5                  | 56.1           | 41.7 |
| 9-10 PM     | 842                          | 0.0       | 1500           | 842        | 0           | 0.50                  | 0                   | 64.8                  | 56.5           | 42.2 |
| 10-11 PM    | 779                          | 0.0       | 1500           | 779        | 0           | 0.50                  | 0                   | 65.0                  | 56.7           | 42.5 |
| 11PM-MID    | 470                          | 0.0       | 1500           | 470        | 0           | 0.47                  | 0                   | 65.5                  | 57.6           | 43.6 |

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

| *----- SITE BREAKDOWN DELAYS -----*    |      |
|--|------|
| BREAKDOWN DURATION (MINS)              | 0    |
| RANGE OF QUEUE DELAY - MIN (VEH-H) MAX | 0.0  |
| AV BREAKDOWNS PER DAY                  | 0.00 |
| AV QUEUE DELAY/DAY (VEH-H)             | 0.0  |
| AV TOTAL DELAY/DAY (VEH-H)             | 0.0  |

| *----- SITE ACCIDENT DELAYS -----*     |   |
|--|---|
| BREAKDOWN DURATION (MINS)              | 0 |
| RANGE OF QUEUE DELAY - MIN (VEH-H) MAX | 0 |
| AV BREAKDOWNS PER DAY                  | 0 |
| AV QUEUE DELAY/DAY (VEH-H)             | 0 |
| AV TOTAL DELAY/DAY (VEH-H)             | 0 |

| AVERAGE ACCIDENT NUMBERS (PIA/DAY) |        |
|------------------------------------|--------|
| MAIN ROUTE WITHOUT WORKS           | 0.0162 |
| MAIN ROUTE WITH WORKS              | 0.0159 |
| 'DIVERSION'                        | 0.0000 |

PIA: Personal Injury Accidents

| ECONOMIC IMPACT ON ROAD USERS |       |
|-------------------------------|-------|
| ROAD USER COSTS PER DAY       | \$517 |
| CONGESTED HOURS PER DAY*      | 0     |

\*Delays Exceeding User-Specified Maximum

**STH 441: USH 10 TO CTH CE (OUTAGAMIE COUNTY)  
NIGHTTIME CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**MAY**  
Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY NORTHBOUND DIRECTION**

