

|   |  |
|---|--|
| <b>IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY)<br/>                 CONTINUOUS (24 HOUR) 2 LANE CLOSURE<br/>                 NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>AUGUST</b>                            |
|   | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY 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    | 1048                         | 0.0       | 1500           | 1048       | 0           | 0.59                  | 0                   | 69.4                  | 59.9           | 41.5 |  |
| 1-2 AM      | 616                          | 0.0       | 1500           | 616        | 0           | 0.55                  | 0                   | 70.0                  | 60.9           | 43.1 |  |
| 2-3 AM      | 457                          | 0.0       | 1500           | 457        | 0           | 0.53                  | 0                   | 70.2                  | 61.4           | 43.7 |  |
| 3-4 AM      | 282                          | 0.0       | 1500           | 282        | 0           | 0.51                  | 0                   | 70.2                  | 61.7           | 44.3 |  |
| 4-5 AM      | 302                          | 0.0       | 1500           | 302        | 0           | 0.51                  | 0                   | 70.2                  | 61.6           | 44.3 |  |
| 5-6 AM      | 540                          | 0.0       | 1500           | 540        | 0           | 0.54                  | 0                   | 70.0                  | 61.1           | 43.3 |  |
| 6-7 AM      | 905                          | 0.0       | 1500           | 905        | 0           | 0.58                  | 0                   | 69.6                  | 60.2           | 42.0 |  |
| 7-8 AM      | 1166                         | 0.0       | 1499           | 1166       | 0           | 0.69                  | 0                   | 69.3                  | 58.4           | 38.9 |  |
| 8-9 AM      | 1743                         | 0.0       | 1499           | 1743       | 0           | 3.34                  | 77                  | 68.6                  | 36.3           | 30.8 |  |
| 9-10 AM     | 2566                         | 0.0       | 1499           | 1673       | 893         | 15.69+                | 386                 | 67.6                  | 13.2           | 30.8 |  |
| 10-11 AM    | 3286                         | 0.0       | 1500           | 1500       | 1786        | 16.25+                | 400                 | 66.6                  | 12.8           | 30.8 |  |
| 11AM-NOON   | 3427                         | 0.0       | 1500           | 1500       | 1927        | 16.24+                | 400                 | 66.4                  | 12.8           | 30.8 |  |
| NOON-1PM    | 3642                         | 0.0       | 1500           | 1500       | 2142        | 16.21+                | 400                 | 66.0                  | 12.8           | 30.8 |  |
| 1-2 PM      | 3977                         | 0.0       | 1500           | 1500       | 2477        | 16.07+                | 400                 | 63.7                  | 12.8           | 30.8 |  |
| 2-3 PM      | 3881                         | 0.0       | 1500           | 1500       | 2381        | 16.11+                | 400                 | 64.3                  | 12.8           | 30.8 |  |
| 3-4 PM      | 3951                         | 0.0       | 1500           | 1500       | 2451        | 16.08+                | 400                 | 63.8                  | 12.8           | 30.8 |  |
| 4-5 PM      | 3827                         | 0.0       | 1500           | 1500       | 2327        | 16.14+                | 400                 | 64.7                  | 12.8           | 30.8 |  |
| 5-6 PM      | 3511                         | 0.0       | 1500           | 1500       | 2011        | 16.24+                | 400                 | 66.4                  | 12.8           | 30.8 |  |
| 6-7 PM      | 3124                         | 0.0       | 1500           | 1500       | 1624        | 16.26+                | 400                 | 66.9                  | 12.8           | 30.8 |  |
| 7-8 PM      | 2778                         | 0.0       | 1500           | 1500       | 1278        | 16.29+                | 400                 | 67.3                  | 12.8           | 30.8 |  |
| 8-9 PM      | 2360                         | 0.0       | 1500           | 1500       | 860         | 16.32+                | 400                 | 67.8                  | 12.8           | 30.8 |  |
| 9-10 PM     | 1953                         | 0.0       | 1500           | 1500       | 453         | 16.35+                | 400                 | 68.3                  | 12.8           | 30.8 |  |
| 10-11 PM    | 1482                         | 0.0       | 1499           | 1420       | 62          | 15.80+                | 385                 | 68.9                  | 13.2           | 30.8 |  |
| 11PM-MID    | 920                          | 0.0       | 1499           | 920        | 0           | 2.83                  | 106                 | 69.6                  | 39.5           | 39.6 |  |

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

| *----- 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                      | 0.0354    |
| MAIN ROUTE WITH WORKS                         | 0.0180    |
| 'DIVERSION'                                   | 0.0359    |
| <small>PIA: Personal Injury Accidents</small> |           |
| IMPACTS ON ROAD USERS                         |           |
| ROAD USER COSTS PER DAY                       | \$199,193 |
| CONGESTED HOURS PER DAY*                      | 14        |

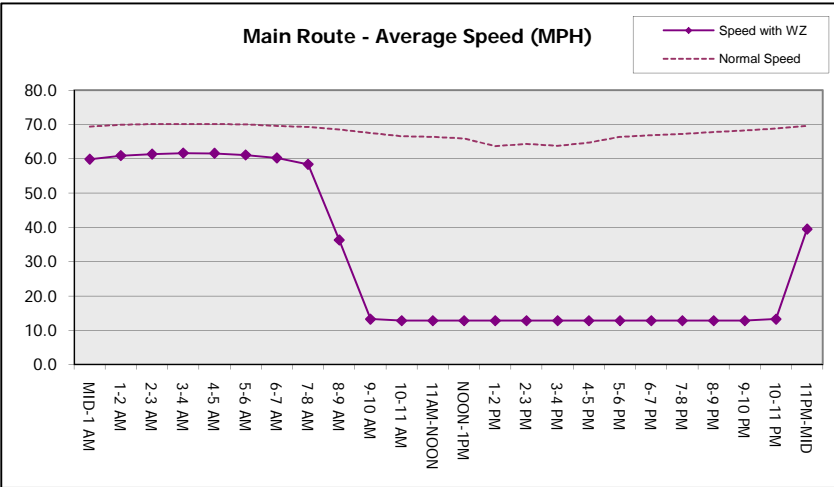
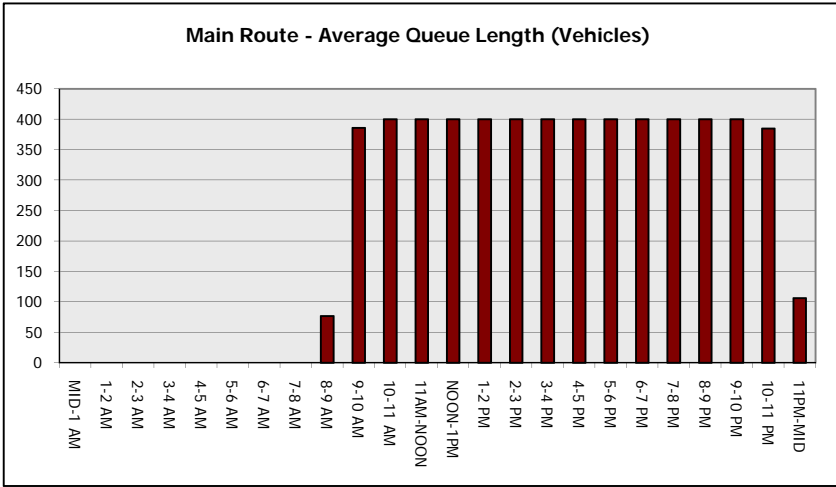
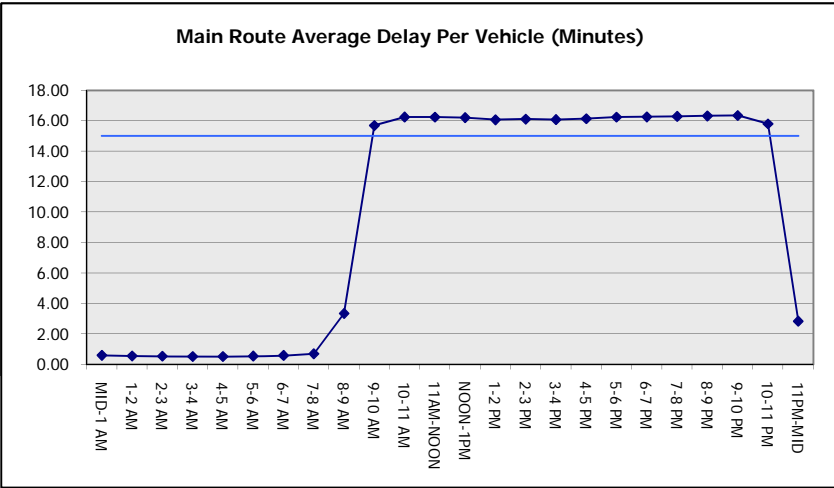
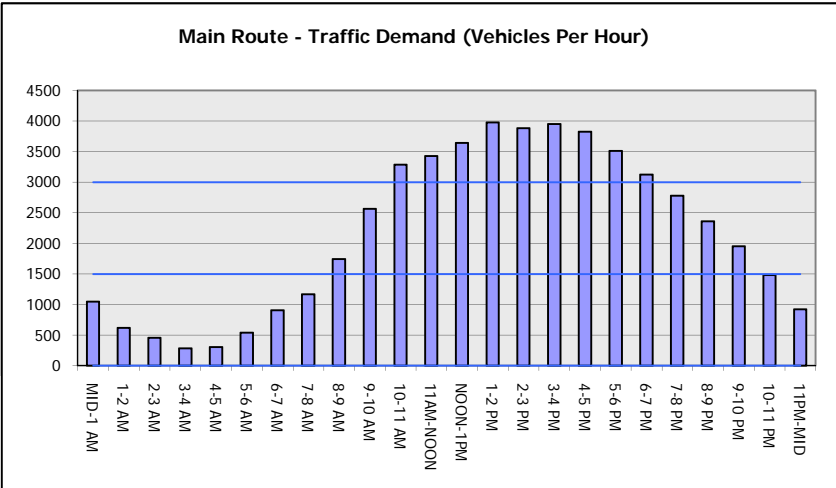
\*Delays Exceeding User-Specified Maximum

**IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY)**  
**CONTINUOUS (24 HOUR) 2 LANE CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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

**SUNDAY SOUTHBOUND DIRECTION**



|   |  |
|---|--|
| <b>IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY)</b><br><b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b><br><b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>AUGUST</b>                            |
|   | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY 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    | 953                          | 0.0       | 1500           | 953        | 0           | 0.58                  | 0                   | 69.6                  | 60.1           | 41.9 |
| 1-2 AM      | 566                          | 0.0       | 1500           | 566        | 0           | 0.54                  | 0                   | 70.0                  | 61.0           | 43.3 |
| 2-3 AM      | 453                          | 0.0       | 1500           | 453        | 0           | 0.53                  | 0                   | 70.2                  | 61.4           | 43.7 |
| 3-4 AM      | 327                          | 0.0       | 1500           | 327        | 0           | 0.51                  | 0                   | 70.2                  | 61.6           | 44.2 |
| 4-5 AM      | 428                          | 0.0       | 1500           | 428        | 0           | 0.52                  | 0                   | 70.2                  | 61.4           | 43.8 |
| 5-6 AM      | 719                          | 0.0       | 1500           | 719        | 0           | 0.56                  | 0                   | 69.9                  | 60.7           | 42.7 |
| 6-7 AM      | 904                          | 0.0       | 1500           | 904        | 0           | 0.58                  | 0                   | 69.6                  | 60.2           | 42.0 |
| 7-8 AM      | 1127                         | 0.0       | 1499           | 1127       | 0           | 0.66                  | 0                   | 69.3                  | 58.9           | 39.8 |
| 8-9 AM      | 1583                         | 0.0       | 1499           | 1583       | 0           | 1.96                  | 30                  | 68.7                  | 45.2           | 31.6 |
| 9-10 AM     | 2411                         | 0.0       | 1500           | 1864       | 547         | 13.94+                | 351                 | 67.8                  | 14.5           | 31.1 |
| 10-11 AM    | 3041                         | 0.0       | 1500           | 1500       | 1541        | 16.23+                | 400                 | 66.9                  | 12.9           | 31.4 |
| 11AM-NOON   | 3671                         | 0.0       | 1500           | 1500       | 2171        | 16.16+                | 400                 | 65.8                  | 12.9           | 31.4 |
| NOON-1PM    | 4247                         | 0.0       | 1500           | 1500       | 2747        | 15.91+                | 400                 | 61.9                  | 12.9           | 31.4 |
| 1-2 PM      | 4333                         | 0.0       | 1500           | 1500       | 2833        | 15.87+                | 400                 | 61.2                  | 12.9           | 31.4 |
| 2-3 PM      | 4595                         | 0.0       | 1500           | 1500       | 3095        | 15.75+                | 400                 | 59.5                  | 12.9           | 31.4 |
| 3-4 PM      | 4544                         | 0.0       | 1500           | 1500       | 3044        | 15.77+                | 400                 | 59.8                  | 12.9           | 31.4 |
| 4-5 PM      | 4517                         | 0.0       | 1500           | 1500       | 3017        | 15.78+                | 400                 | 60.0                  | 12.9           | 31.4 |
| 5-6 PM      | 4433                         | 0.0       | 1500           | 1500       | 2933        | 15.82+                | 399                 | 60.5                  | 12.9           | 31.4 |
| 6-7 PM      | 3867                         | 0.0       | 1500           | 1500       | 2367        | 16.08+                | 400                 | 64.5                  | 12.9           | 31.4 |
| 7-8 PM      | 3217                         | 0.0       | 1500           | 1500       | 1717        | 16.22+                | 400                 | 66.8                  | 12.9           | 31.4 |
| 8-9 PM      | 2817                         | 0.0       | 1500           | 1500       | 1317        | 16.25+                | 400                 | 67.3                  | 12.9           | 31.4 |
| 9-10 PM     | 2171                         | 0.0       | 1499           | 1448       | 723         | 16.12+                | 395                 | 68.1                  | 13.0           | 31.1 |
| 10-11 PM    | 1445                         | 0.0       | 1499           | 1352       | 94          | 14.86+                | 362                 | 68.9                  | 13.8           | 30.8 |
| 11PM-MID    | 999                          | 0.0       | 1499           | 999        | 0           | 2.67                  | 91                  | 69.5                  | 40.4           | 38.8 |

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

| *----- 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           | 0.0393 |
| MAIN ROUTE WITH WORKS              | 0.0181 |
| 'DIVERSION'                        | 0.0446 |

PIA: Personal Injury Accidents

| ECONOMIC IMPACT ON ROAD USERS |           |
|-------------------------------|-----------|
| ROAD USER COSTS PER DAY       | \$218,886 |
| CONGESTED HOURS PER DAY*      | 14        |

\*Delays Exceeding User-Specified Maximum

**IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY)  
CONTINUOUS (24 HOUR) 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**  
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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY NORTHBOUND DIRECTION**

