



## Network Adjustment

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Created: 03/15/2016 14:28:09

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### Project Information

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Project name: 122278SG2015 Saginaw LiDAR  
Date created: 03/14/2016 09:19:04  
Time zone: -5h 00'  
Coordinate system name: MiSouth12A  
Projection: Michigan South NAD83  
Projection type: -  
Application software: LEICA Geo Office 8.4  
Processing kernel: MOVE3 4.1

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### General Information

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#### Adjustment

Type: Constrained  
Dimension: 3D  
Coordinate system: WGS 1984  
Height mode: Ellipsoidal

Number of iterations: 1  
Maximum coord correction in last iteration: 0.000 fti  (tolerance is met)

#### Stations

Number of (partly) known stations: 6  
Number of unknown stations: 72  
Total: 78

#### Observations

GPS coordinate differences: 1692 (564 baselines) (including 1 baseline as free observation)  
Known coordinates: 18  
Total: 1710 (including 3 free observations)


#### Unknowns

Coordinates: 234  
Total: 234

Degrees of freedom: 1476

#### Testing

Alfa (multi dimensional): 0.7578  
Alfa 0 (one dimensional): 5.0 %  
Beta: 80.0 %  
Sigma a-priori (GPS): 1.0

Critical value W-test: 1.96  
Critical value T-test (2-dimensional): 2.42  
Critical value T-test (3-dimensional): 1.89  
Critical value F-test: 0.97  
F-test: 0.15  (accepted)

Results based on a-posteriori variance factor

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**Input data**

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**Approximate Coordinates**

| <b>Station</b> | <b>Latitude</b>     | <b>Longitude</b>    | <b>Height [fti]</b> |                              |
|----------------|---------------------|---------------------|---------------------|------------------------------|
| BAYR           | 43° 26' 46.39790" N | 83° 53' 30.20907" W | 491.962             | Known in Position and Height |
| BIRCH RUN      | 43° 15' 02.80389" N | 83° 52' 02.10185" W | 528.494             | Known in Position and Height |
| CHESANING      | 43° 11' 23.49671" N | 84° 07' 21.97723" W | 545.210             | Known in Position and Height |
| HEMLOCK        | 43° 24' 41.08302" N | 84° 14' 14.48462" W | 562.474             | Known in Position and Height |
| MIBY           | 43° 37' 23.34781" N | 83° 56' 49.35183" W | 502.030             | Known in Position and Height |
| MIDLAND        | 43° 36' 57.03703" N | 84° 14' 41.57601" W | 584.658             | Known in Position and Height |
| NVA1           | 43° 25' 52.40277" N | 83° 56' 18.84081" W | 478.114             |                              |
| NVA10          | 43° 27' 03.24595" N | 83° 42' 04.92397" W | 506.564             |                              |
| NVA11          | 43° 14' 09.78386" N | 83° 54' 15.54349" W | 525.955             |                              |
| NVA12          | 43° 09' 39.22745" N | 83° 59' 22.04933" W | 565.164             |                              |
| NVA13          | 43° 07' 56.30591" N | 84° 18' 18.72713" W | 599.894             |                              |
| NVA14          | 43° 27' 43.98927" N | 84° 18' 38.34539" W | 545.750             |                              |
| NVA15          | 43° 17' 15.73182" N | 84° 19' 45.77050" W | 543.264             |                              |
| NVA16          | 43° 11' 08.94925" N | 84° 10' 03.30346" W | 543.108             |                              |
| NVA17          | 43° 13' 47.85367" N | 84° 15' 52.15451" W | 509.790             |                              |
| NVA18          | 43° 14' 54.92934" N | 84° 01' 56.54099" W | 482.218             |                              |
| NVA19          | 43° 28' 55.29928" N | 84° 09' 41.85164" W | 507.212             |                              |
| NVA2           | 43° 11' 07.93493" N | 84° 07' 05.54869" W | 528.197             |                              |
| NVA20          | 43° 25' 48.84202" N | 83° 56' 18.85636" W | 477.807             |                              |
| NVA21          | 43° 30' 41.63600" N | 83° 49' 35.51808" W | 475.875             |                              |
| NVA22          | 43° 21' 26.80697" N | 83° 52' 47.33520" W | 483.383             |                              |
| NVA23          | 43° 25' 00.47466" N | 84° 04' 06.37415" W | 492.207             |                              |
| NVA24          | 43° 28' 34.64176" N | 83° 55' 00.12436" W | 473.636             |                              |
| NVA25          | 43° 30' 31.39551" N | 83° 58' 01.25225" W | 484.997             |                              |
| NVA26          | 43° 27' 09.50119" N | 84° 00' 43.07912" W | 510.579             |                              |
| NVA27          | 43° 28' 31.59649" N | 83° 58' 27.18744" W | 489.588             |                              |
| NVA28          | 43° 19' 18.92147" N | 83° 58' 06.46237" W | 482.071             |                              |
| NVA29          | 43° 24' 54.32574" N | 83° 58' 26.40721" W | 499.263             |                              |
| NVA3           | 43° 08' 34.67421" N | 84° 10' 06.10065" W | 570.208             |                              |
| NVA30          | 43° 26' 02.24417" N | 84° 10' 13.18353" W | 510.351             |                              |
| NVA31          | 43° 24' 19.46704" N | 83° 55' 27.51631" W | 498.220             |                              |
| NVA32          | 43° 20' 02.79913" N | 84° 13' 47.85784" W | 515.634             |                              |
| NVA33          | 43° 31' 52.74427" N | 84° 05' 38.09448" W | 553.988             |                              |
| NVA34          | 43° 34' 07.98881" N | 84° 10' 05.24811" W | 511.956             |                              |
| NVA35          | 43° 31' 26.63022" N | 84° 03' 03.55231" W | 521.211             |                              |
| NVA36          | 43° 28' 44.20825" N | 83° 41' 55.51591" W | 493.751             |                              |
| NVA37          | 43° 27' 52.66719" N | 83° 50' 13.70004" W | 475.049             |                              |
| NVA38          | 43° 22' 46.17674" N | 83° 46' 43.59743" W | 516.485             |                              |
| NVA39          | 43° 27' 02.72025" N | 84° 13' 40.69130" W | 525.773             |                              |
| NVA4           | 43° 18' 14.05340" N | 84° 08' 35.57737" W | 486.875             |                              |
| NVA40          | 43° 11' 12.85797" N | 84° 14' 51.51211" W | 549.544             |                              |
| NVA5           | 43° 15' 03.50914" N | 83° 46' 47.06534" W | 525.188             |                              |
| NVA6           | 43° 19' 47.31996" N | 83° 44' 24.74721" W | 511.000             |                              |
| NVA7           | 43° 24' 53.06869" N | 84° 13' 49.41603" W | 537.804             |                              |
| NVA8           | 43° 24' 43.73251" N | 84° 19' 49.29076" W | 559.100             |                              |
| NVA9           | 43° 31' 27.03025" N | 84° 07' 22.71991" W | 507.911             |                              |
| VVA15          | 43° 20' 56.26363" N | 84° 11' 23.24004" W | 501.102             |                              |
| VASSAR         | 43° 22' 42.97474" N | 83° 35' 07.24982" W | 590.754             |                              |
| VVA1           | 43° 10' 18.82571" N | 84° 19' 47.93861" W | 552.814             |                              |
| VVA10          | 43° 28' 51.09348" N | 84° 04' 18.10695" W | 515.915             |                              |
| VVA11          | 43° 28' 46.04226" N | 83° 49' 04.08724" W | 474.451             |                              |
| VVA12          | 43° 24' 28.74052" N | 83° 43' 05.71455" W | 521.022             |                              |
| VVA13          | 43° 24' 25.79802" N | 83° 49' 02.90717" W | 493.931             |                              |
| VVA14          | 43° 20' 46.77701" N | 84° 19' 34.21326" W | 555.510             |                              |
| VVA15          | 43° 20' 56.26362" N | 84° 11' 23.24007" W | 501.104             |                              |
| VVA16          | 43° 19' 18.71136" N | 83° 51' 19.27032" W | 497.860             |                              |
| VVA17          | 43° 15' 51.81343" N | 83° 42' 54.93843" W | 540.185             |                              |
| VVA18          | 43° 13' 17.30305" N | 83° 42' 32.50303" W | 584.086             |                              |
| VVA19          | 43° 13' 15.87837" N | 83° 48' 51.50192" W | 537.655             |                              |

|       |                     |                     |         |
|-------|---------------------|---------------------|---------|
| VVA2  | 43° 16' 21.12762" N | 84° 19' 46.25958" W | 539.133 |
| VVA20 | 43° 16' 47.99265" N | 83° 51' 49.47950" W | 502.825 |
| VVA21 | 43° 17' 07.49832" N | 83° 56' 02.48597" W | 493.555 |
| VVA22 | 43° 17' 31.93794" N | 83° 59' 39.98415" W | 476.581 |
| VVA23 | 43° 17' 32.06727" N | 84° 03' 33.75084" W | 473.811 |
| VVA24 | 43° 17' 23.50148" N | 84° 14' 56.48766" W | 513.193 |
| VVA25 | 43° 13' 44.76582" N | 84° 20' 49.49732" W | 538.611 |
| VVA26 | 43° 13' 49.31095" N | 84° 09' 31.68970" W | 506.911 |
| VVA27 | 43° 13' 11.39195" N | 84° 01' 51.07912" W | 501.090 |
| VVA28 | 43° 12' 18.25650" N | 83° 56' 01.29199" W | 529.902 |
| VVA29 | 43° 07' 58.33789" N | 83° 55' 45.63875" W | 563.466 |
| VVA3  | 43° 21' 55.96772" N | 83° 51' 55.48913" W | 506.071 |
| VVA30 | 43° 08' 43.90067" N | 84° 03' 01.06611" W | 582.927 |
| VVA4  | 43° 13' 14.38666" N | 83° 55' 30.78806" W | 529.791 |
| VVA5  | 43° 31' 35.08703" N | 83° 55' 36.27219" W | 466.501 |
| VVA6  | 43° 29' 20.08721" N | 83° 54' 17.42549" W | 467.463 |
| VVA7  | 43° 18' 38.19182" N | 84° 08' 28.06257" W | 478.073 |
| VVA8  | 43° 29' 18.48449" N | 84° 05' 46.67568" W | 480.717 |
| VVA9  | 43° 31' 25.75953" N | 84° 02' 04.44775" W | 509.599 |

### Observations

|    | Station   | Target | St. ih | Tg. ih | Reading        |
|----|-----------|--------|--------|--------|----------------|
| DX | VVA25     | NVA40  |        |        | 27429.325 fti  |
| DY |           |        |        |        | -7851.683 fti  |
| DZ |           |        |        |        | -11203.052 fti |
| DX | HEMLOCK   | VA15   |        |        | 14154.471 fti  |
| DY |           |        |        |        | -14235.769 fti |
| DZ |           |        |        |        | -16587.055 fti |
| DX | CHESANING | VVA24  |        |        | -36003.527 fti |
| DY |           |        |        |        | 21457.172 fti  |
| DZ |           |        |        |        | 26532.131 fti  |
| DX | CHESANING | VVA24  |        |        | -36003.535 fti |
| DY |           |        |        |        | 21457.177 fti  |
| DZ |           |        |        |        | 26532.117 fti  |
| DX | CHESANING | VVA24  |        |        | -36003.526 fti |
| DY |           |        |        |        | 21457.175 fti  |
| DZ |           |        |        |        | 26532.105 fti  |
| DX | CHESANING | VVA24  |        |        | -36003.523 fti |
| DY |           |        |        |        | 21457.180 fti  |
| DZ |           |        |        |        | 26532.111 fti  |
| DX | CHESANING | VVA22  |        |        | 31363.652 fti  |
| DY |           |        |        |        | 29008.694 fti  |
| DZ |           |        |        |        | 27128.765 fti  |
| DX | CHESANING | VVA22  |        |        | 31363.647 fti  |
| DY |           |        |        |        | 29008.694 fti  |
| DZ |           |        |        |        | 27128.772 fti  |
| DX | CHESANING | VVA22  |        |        | 31363.648 fti  |
| DY |           |        |        |        | 29008.691 fti  |
| DZ |           |        |        |        | 27128.768 fti  |
| DX | CHESANING | VVA22  |        |        | 31363.650 fti  |
| DY |           |        |        |        | 29008.714 fti  |
| DZ |           |        |        |        | 27128.755 fti  |
| DX | CHESANING | NVA4   |        |        | -8334.663 fti  |
| DY |           |        |        |        | 27817.042 fti  |
| DZ |           |        |        |        | 30239.314 fti  |
| DX | CHESANING | NVA4   |        |        | -8334.664 fti  |
| DY |           |        |        |        | 27817.044 fti  |
| DZ |           |        |        |        | 30239.317 fti  |
| DX | CHESANING | NVA4   |        |        | -8334.660 fti  |
| DY |           |        |        |        | 27817.046 fti  |
| DZ |           |        |        |        | 30239.312 fti  |
| DX | CHESANING | NVA4   |        |        | -8334.652 fti  |
| DY |           |        |        |        | 27817.031 fti  |
| DZ |           |        |        |        | 30239.326 fti  |

|    |           |       |                |
|----|-----------|-------|----------------|
| DX | CHESANING | NVA12 | 36122.057 fti  |
| DY |           |       | -3516.503 fti  |
| DZ |           |       | -7685.285 fti  |
| DX | CHESANING | NVA12 | 36122.046 fti  |
| DY |           |       | -3516.497 fti  |
| DZ |           |       | -7685.301 fti  |
| DX | CHESANING | NVA12 | 36122.027 fti  |
| DY |           |       | -3516.476 fti  |
| DZ |           |       | -7685.330 fti  |
| DX | CHESANING | NVA12 | 36122.025 fti  |
| DY |           |       | -3516.462 fti  |
| DZ |           |       | -7685.357 fti  |
| DX | BIRCH RUN | VVA22 | -34785.166 fti |
| DY |           |       | 6748.179 fti   |
| DZ |           |       | 10958.922 fti  |
| DX | BIRCH RUN | VVA22 | -34785.169 fti |
| DY |           |       | 6748.197 fti   |
| DZ |           |       | 10958.913 fti  |
| DX | BIRCH RUN | VVA22 | -34785.156 fti |
| DY |           |       | 6748.181 fti   |
| DZ |           |       | 10958.907 fti  |
| DX | BIRCH RUN | VVA22 | -34785.155 fti |
| DY |           |       | 6748.190 fti   |
| DZ |           |       | 10958.902 fti  |
| DX | BIRCH RUN | NVA6  | 31496.225 fti  |
| DY |           |       | 23301.656 fti  |
| DZ |           |       | 20956.771 fti  |
| DX | BIRCH RUN | NVA6  | 31496.220 fti  |
| DY |           |       | 23301.677 fti  |
| DZ |           |       | 20956.766 fti  |
| DX | BIRCH RUN | NVA6  | 31496.225 fti  |
| DY |           |       | 23301.668 fti  |
| DZ |           |       | 20956.762 fti  |
| DX | BIRCH RUN | NVA6  | 31496.230 fti  |
| DY |           |       | 23301.652 fti  |
| DZ |           |       | 20956.773 fti  |
| DX | BIRCH RUN | NVA22 | -6175.262 fti  |
| DY |           |       | 26190.638 fti  |
| DZ |           |       | 28263.636 fti  |
| DX | BIRCH RUN | NVA22 | -6175.258 fti  |
| DY |           |       | 26190.638 fti  |
| DZ |           |       | 28263.622 fti  |
| DX | BIRCH RUN | NVA22 | -6175.228 fti  |
| DY |           |       | 26190.654 fti  |
| DZ |           |       | 28263.633 fti  |
| DX | BIRCH RUN | NVA22 | -6175.228 fti  |
| DY |           |       | 26190.645 fti  |
| DZ |           |       | 28263.634 fti  |
| DX | BIRCH RUN | NVA12 | -30026.783 fti |
| DY |           |       | -25776.926 fti |
| DZ |           |       | -23855.180 fti |
| DX | BIRCH RUN | NVA12 | -30026.780 fti |
| DY |           |       | -25776.935 fti |
| DZ |           |       | -23855.187 fti |
| DX | BIRCH RUN | NVA12 | -30026.786 fti |
| DY |           |       | -25776.941 fti |
| DZ |           |       | -23855.185 fti |
| DX | BIRCH RUN | NVA12 | -30026.792 fti |
| DY |           |       | -25776.937 fti |
| DZ |           |       | -23855.193 fti |
| DX | HEMLOCK   | VVA24 | -40.777 fti    |
| DY |           |       | -30536.789 fti |
| DZ |           |       | -32251.836 fti |
| DX | HEMLOCK   | VVA24 | -40.778 fti    |
| DY |           |       | -30536.784 fti |

|    |         |       |                |
|----|---------|-------|----------------|
|    |         |       | -32251.834 fti |
| DX | HEMLOCK | VVA24 | -40.778 fti    |
| DY |         |       | -30536.787 fti |
| DZ |         |       | -32251.871 fti |
| DX | HEMLOCK | VVA24 | -40.771 fti    |
| DY |         |       | -30536.787 fti |
| DZ |         |       | -32251.872 fti |
| DX | HEMLOCK | NVA8  | -24609.659 fti |
| DY |         |       | -2275.630 fti  |
| DZ |         |       | 192.591 fti    |
| DX | HEMLOCK | NVA8  | -24609.652 fti |
| DY |         |       | -2275.629 fti  |
| DZ |         |       | 192.593 fti    |
| DX | HEMLOCK | NVA8  | -24609.659 fti |
| DY |         |       | -2275.652 fti  |
| DZ |         |       | 192.568 fti    |
| DX | HEMLOCK | NVA8  | -24609.674 fti |
| DY |         |       | -2275.650 fti  |
| DZ |         |       | 192.566 fti    |
| DX | HEMLOCK | NVA7  | 1755.449 fti   |
| DY |         |       | 1033.584 fti   |
| DZ |         |       | 864.640 fti    |
| DX | HEMLOCK | NVA7  | 1755.448 fti   |
| DY |         |       | 1033.573 fti   |
| DZ |         |       | 864.644 fti    |
| DX | HEMLOCK | NVA7  | 1755.464 fti   |
| DY |         |       | 1033.543 fti   |
| DZ |         |       | 864.618 fti    |
| DX | HEMLOCK | NVA7  | 1755.459 fti   |
| DY |         |       | 1033.552 fti   |
| DZ |         |       | 864.614 fti    |
| DX | HEMLOCK | NVA4  | 27628.106 fti  |
| DY |         |       | -24176.926 fti |
| DZ |         |       | -28544.610 fti |
| DX | HEMLOCK | NVA4  | 27628.101 fti  |
| DY |         |       | -24176.918 fti |
| DZ |         |       | -28544.615 fti |
| DX | HEMLOCK | NVA4  | 27628.110 fti  |
| DY |         |       | -24176.935 fti |
| DZ |         |       | -28544.641 fti |
| DX | HEMLOCK | NVA4  | 27628.113 fti  |
| DY |         |       | -24176.935 fti |
| DZ |         |       | -28544.636 fti |
| DX | HEMLOCK | NVA39 | 1487.609 fti   |
| DY |         |       | 10086.615 fti  |
| DZ |         |       | 10389.496 fti  |
| DX | HEMLOCK | NVA39 | 1487.618 fti   |
| DY |         |       | 10086.617 fti  |
| DZ |         |       | 10389.504 fti  |
| DX | HEMLOCK | NVA39 | 1487.634 fti   |
| DY |         |       | 10086.591 fti  |
| DZ |         |       | 10389.478 fti  |
| DX | HEMLOCK | NVA39 | 1487.632 fti   |
| DY |         |       | 10086.595 fti  |
| DZ |         |       | 10389.473 fti  |
| DX | HEMLOCK | NVA30 | 17143.251 fti  |
| DY |         |       | 7456.026 fti   |
| DZ |         |       | 5932.877 fti   |
| DX | HEMLOCK | NVA30 | 17143.254 fti  |
| DY |         |       | 7456.023 fti   |
| DZ |         |       | 5932.885 fti   |
| DX | HEMLOCK | NVA30 | 17143.272 fti  |
| DY |         |       | 7456.011 fti   |
| DZ |         |       | 5932.842 fti   |
| DX | HEMLOCK | NVA30 | 17143.264 fti  |

|    |         |       |                |
|----|---------|-------|----------------|
| DZ |         |       | 7456.024 fti   |
| DX | HEMLOCK | NVA19 | 5932.835 fti   |
| DY |         |       | 18216.980 fti  |
| DZ |         |       | 19683.204 fti  |
| DX | HEMLOCK | NVA19 | 18649.952 fti  |
| DY |         |       | 18216.974 fti  |
| DZ |         |       | 19683.194 fti  |
| DX | HEMLOCK | NVA19 | 18649.952 fti  |
| DY |         |       | 18216.976 fti  |
| DZ |         |       | 19683.201 fti  |
| DX | HEMLOCK | NVA19 | 18649.966 fti  |
| DY |         |       | 18216.985 fti  |
| DZ |         |       | 19683.210 fti  |
| DX | HEMLOCK | NVA14 | 18649.959 fti  |
| DY |         |       | -20643.536 fti |
| DZ |         |       | 10739.613 fti  |
| DX | HEMLOCK | NVA14 | 13436.492 fti  |
| DY |         |       | -20643.541 fti |
| DZ |         |       | 10739.613 fti  |
| DX | HEMLOCK | NVA14 | 13436.494 fti  |
| DY |         |       | -20643.552 fti |
| DZ |         |       | 10739.633 fti  |
| DX | HEMLOCK | NVA14 | 13436.522 fti  |
| DY |         |       | -20643.545 fti |
| DZ |         |       | 10739.623 fti  |
| DX | MIBY    | NVA25 | 13436.522 fti  |
| DY |         |       | -2239.338 fti  |
| DZ |         |       | -29133.210 fti |
| DX | MIBY    | NVA25 | -30236.020 fti |
| DY |         |       | -2239.340 fti  |
| DZ |         |       | -29133.219 fti |
| DX | MIBY    | NVA25 | -30236.013 fti |
| DY |         |       | -2239.346 fti  |
| DZ |         |       | -29133.220 fti |
| DX | MIBY    | NVA25 | -30236.015 fti |
| DY |         |       | -2239.339 fti  |
| DZ |         |       | -29133.224 fti |
| DX | BAYR    | NVA9  | -30236.015 fti |
| DY |         |       | -63082.760 fti |
| DZ |         |       | 13028.213 fti  |
| DX | BAYR    | NVA9  | 20627.787 fti  |
| DY |         |       | -63082.760 fti |
| DZ |         |       | 13028.198 fti  |
| DX | BAYR    | NVA9  | 20627.795 fti  |
| DY |         |       | -63082.713 fti |
| DZ |         |       | 13028.204 fti  |
| DX | BAYR    | NVA9  | 20627.790 fti  |
| DY |         |       | -63082.709 fti |
| DZ |         |       | 13028.198 fti  |
| DX | BAYR    | NVA6  | 20627.812 fti  |
| DY |         |       | 43186.315 fti  |
| DZ |         |       | -24653.842 fti |
| DX | BAYR    | NVA6  | -30823.686 fti |
| DY |         |       | 43186.328 fti  |
| DZ |         |       | -24653.864 fti |
| DX | BAYR    | NVA6  | -30823.673 fti |
| DY |         |       | 43186.308 fti  |
| DZ |         |       | -24653.842 fti |
| DX | BAYR    | NVA6  | -30823.684 fti |
| DY |         |       | 43186.311 fti  |
| DZ |         |       | -24653.852 fti |
| DX | BAYR    | NVA38 | -30823.680 fti |
| DY |         |       | 31637.160 fti  |
| DZ |         |       | -13414.108 fti |
| DX | BAYR    | NVA38 | -17652.055 fti |

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|----|---------|-------|----------------|
|    | BAYR    | NVA38 | 31637.164 fti  |
| DY |         |       | -13414.118 fti |
| DZ |         |       | -17652.042 fti |
| DX | BAYR    | NVA38 | 31637.158 fti  |
| DY |         |       | -13414.110 fti |
| DZ |         |       | -17652.060 fti |
| DX | BAYR    | NVA38 | 31637.160 fti  |
| DY |         |       | -13414.091 fti |
| DZ |         |       | -17652.051 fti |
| DX | BAYR    | NVA36 | 50049.316 fti  |
| DY |         |       | 13693.946 fti  |
| DZ |         |       | 8659.444 fti   |
| DX | BAYR    | NVA36 | 50049.313 fti  |
| DY |         |       | 13693.937 fti  |
| DZ |         |       | 8659.456 fti   |
| DX | BAYR    | NVA36 | 50049.316 fti  |
| DY |         |       | 13693.926 fti  |
| DZ |         |       | 8659.446 fti   |
| DX | BAYR    | NVA36 | 50049.319 fti  |
| DY |         |       | 13693.928 fti  |
| DZ |         |       | 8659.456 fti   |
| DX | BAYR    | NVA25 | -21531.750 fti |
| DY |         |       | 13479.185 fti  |
| DZ |         |       | 16526.877 fti  |
| DX | BAYR    | NVA25 | -21531.750 fti |
| DY |         |       | 13479.180 fti  |
| DZ |         |       | 16526.892 fti  |
| DX | BAYR    | NVA25 | -21531.773 fti |
| DY |         |       | 13479.166 fti  |
| DZ |         |       | 16526.889 fti  |
| DX | BAYR    | NVA25 | -21531.777 fti |
| DY |         |       | 13479.164 fti  |
| DZ |         |       | 16526.889 fti  |
| DX | BAYR    | NVA22 | 5514.830 fti   |
| DY |         |       | -21764.832 fti |
| DZ |         |       | -23516.864 fti |
| DX | BAYR    | NVA22 | 5514.830 fti   |
| DY |         |       | -21764.823 fti |
| DZ |         |       | -23516.866 fti |
| DX | BAYR    | NVA22 | 5514.832 fti   |
| DY |         |       | -21764.824 fti |
| DZ |         |       | -23516.871 fti |
| DX | BAYR    | NVA22 | 5514.831 fti   |
| DY |         |       | -21764.825 fti |
| DZ |         |       | -23516.876 fti |
| DX | BAYR    | NVA10 | 50132.363 fti  |
| DY |         |       | 6618.594 fti   |
| DZ |         |       | 1248.544 fti   |
| DX | BAYR    | NVA10 | 50132.362 fti  |
| DY |         |       | 6618.598 fti   |
| DZ |         |       | 1248.552 fti   |
| DX | BAYR    | NVA10 | 50132.362 fti  |
| DY |         |       | 6618.592 fti   |
| DZ |         |       | 1248.531 fti   |
| DX | BAYR    | NVA10 | 50132.357 fti  |
| DY |         |       | 6618.592 fti   |
| DZ |         |       | 1248.527 fti   |
| DX | MIDLAND | NVA9  | 34471.876 fti  |
| DY |         |       | -19583.158 fti |
| DZ |         |       | -24263.397 fti |
| DX | MIDLAND | NVA9  | 34471.878 fti  |
| DY |         |       | -19583.153 fti |
| DZ |         |       | -24263.401 fti |
| DX | MIDLAND | NVA9  | 34471.894 fti  |
| DY |         |       | -19583.159 fti |

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|    |         |       | -24263.385 fti |
| DX | MIDLAND | NVA9  | 34471.900 fti  |
| DY |         |       | -19583.168 fti |
| DZ |         |       | -24263.393 fti |
| DX | MIDLAND | NVA8  | -17476.511 fti |
| DY |         |       | -53108.963 fti |
| DZ |         |       | -53865.032 fti |
| DX | MIDLAND | NVA8  | -17476.515 fti |
| DY |         |       | -53108.967 fti |
| DZ |         |       | -53865.031 fti |
| DX | MIDLAND | NVA8  | -17476.541 fti |
| DY |         |       | -53109.005 fti |
| DZ |         |       | -53865.045 fti |
| DX | MIDLAND | NVA8  | -17476.538 fti |
| DY |         |       | -53108.985 fti |
| DZ |         |       | -53865.056 fti |
| DX | MIDLAND | NVA7  | 8888.613 fti   |
| DY |         |       | -49799.814 fti |
| DZ |         |       | -53192.953 fti |
| DX | MIDLAND | NVA7  | 8888.611 fti   |
| DY |         |       | -49799.808 fti |
| DZ |         |       | -53192.959 fti |
| DX | MIDLAND | NVA7  | 8888.620 fti   |
| DY |         |       | -49799.823 fti |
| DZ |         |       | -53192.984 fti |
| DX | MIDLAND | NVA7  | 8888.624 fti   |
| DY |         |       | -49799.807 fti |
| DZ |         |       | -53192.996 fti |
| DX | MIDLAND | NVA30 | 24276.406 fti  |
| DY |         |       | -43377.297 fti |
| DZ |         |       | -48124.769 fti |
| DX | MIDLAND | NVA30 | 24276.414 fti  |
| DY |         |       | -43377.296 fti |
| DZ |         |       | -48124.776 fti |
| DX | MIDLAND | NVA30 | 24276.401 fti  |
| DY |         |       | -43377.354 fti |
| DZ |         |       | -48124.780 fti |
| DX | MIDLAND | NVA30 | 24276.402 fti  |
| DY |         |       | -43377.357 fti |
| DZ |         |       | -48124.778 fti |
| DX | MIDLAND | NVA19 | 25350.135 fti  |
| DY |         |       | -31150.162 fti |
| DZ |         |       | -35407.639 fti |
| DX | MIDLAND | NVA19 | 25350.136 fti  |
| DY |         |       | -31150.165 fti |
| DZ |         |       | -35407.642 fti |
| DX | MIDLAND | NVA19 | 25350.152 fti  |
| DY |         |       | -31150.158 fti |
| DZ |         |       | -35407.637 fti |
| DX | MIDLAND | NVA19 | 25350.152 fti  |
| DY |         |       | -31150.157 fti |
| DZ |         |       | -35407.636 fti |
| DX | MIDLAND | NVA14 | -13510.405 fti |
| DY |         |       | -40093.757 fti |
| DZ |         |       | -40621.082 fti |
| DX | MIDLAND | NVA14 | -13510.396 fti |
| DY |         |       | -40093.759 fti |
| DZ |         |       | -40621.082 fti |
| DX | MIDLAND | NVA14 | -13510.387 fti |
| DY |         |       | -40093.771 fti |
| DZ |         |       | -40621.078 fti |
| DX | MIDLAND | NVA14 | -13510.387 fti |
| DY |         |       | -40093.781 fti |
| DZ |         |       | -40621.091 fti |
| DX | VASSAR  | NVA38 | -51147.130 fti |



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|----|---------|-------|----------------|
| DZ |         |       | -5384.530 fti  |
| DX | VASSAR  | NVA38 | 184.644 fti    |
| DY |         |       | -51147.114 fti |
| DZ |         |       | -5384.529 fti  |
| DX | VASSAR  | NVA38 | 184.662 fti    |
| DY |         |       | -51147.106 fti |
| DZ |         |       | -5384.526 fti  |
| DX | VASSAR  | NVA38 | 184.665 fti    |
| DY |         |       | -51147.108 fti |
| DZ |         |       | -5384.519 fti  |
| DX | VASSAR  | NVA36 | 184.655 fti    |
| DY |         |       | -32734.954 fti |
| DZ |         |       | 21723.464 fti  |
| DX | VASSAR  | NVA36 | 26496.122 fti  |
| DY |         |       | -32734.964 fti |
| DZ |         |       | 21723.469 fti  |
| DX | VASSAR  | NVA36 | 26496.123 fti  |
| DY |         |       | -32734.972 fti |
| DZ |         |       | 21723.482 fti  |
| DX | VASSAR  | NVA36 | 26496.109 fti  |
| DY |         |       | -32734.969 fti |
| DZ |         |       | 21723.483 fti  |
| DX | VASSAR  | NVA10 | 26496.108 fti  |
| DY |         |       | -32651.914 fti |
| DZ |         |       | 14648.123 fti  |
| DX | VASSAR  | NVA10 | 19085.224 fti  |
| DY |         |       | -32651.919 fti |
| DZ |         |       | 14648.129 fti  |
| DX | VASSAR  | NVA10 | 19085.219 fti  |
| DY |         |       | -32651.914 fti |
| DZ |         |       | 14648.143 fti  |
| DX | VASSAR  | NVA10 | 19085.212 fti  |
| DY |         |       | -32651.916 fti |
| DZ |         |       | 14648.149 fti  |
| DX | MIDLAND | NVA39 | 19085.209 fti  |
| DY |         |       | 8620.758 fti   |
| DZ |         |       | -40746.765 fti |
| DX | MIDLAND | NVA39 | -43668.113 fti |
| DY |         |       | 8620.753 fti   |
| DZ |         |       | -40746.753 fti |
| DX | MIDLAND | NVA39 | -43668.122 fti |
| DY |         |       | 8620.742 fti   |
| DZ |         |       | -40746.756 fti |
| DX | MIDLAND | NVA39 | -43668.114 fti |
| DY |         |       | 8620.788 fti   |
| DZ |         |       | -40746.777 fti |
| DX | MIDLAND | NVA39 | -43668.117 fti |
| DY |         |       | 8620.780 fti   |
| DZ |         |       | -40746.791 fti |
| DX | HEMLOCK | VVA15 | -43668.122 fti |
| DY |         |       | 14154.467 fti  |
| DZ |         |       | -14235.787 fti |
| DX | HEMLOCK | VVA15 | -16587.034 fti |
| DY |         |       | 14154.461 fti  |
| DZ |         |       | -14235.777 fti |
| DX | HEMLOCK | VVA15 | -16587.040 fti |
| DY |         |       | 14154.475 fti  |
| DZ |         |       | -14235.784 fti |
| DX | HEMLOCK | VVA15 | -16587.059 fti |
| DY |         |       | 14154.479 fti  |
| DZ |         |       | -14235.783 fti |
| DX | HEMLOCK | VVA15 | -16587.064 fti |
| DY |         |       | 14154.464 fti  |
| DZ |         |       | -14235.757 fti |
| DX | HEMLOCK | VVA15 | -16587.044 fti |

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|----|-----------|-------|----------------|
|    | HEMLOCK   | VVA15 | 14154.458 fti  |
| DY |           |       | -14235.747 fti |
| DZ |           |       | -16587.050 fti |
| DX | HEMLOCK   | VVA15 | 14154.473 fti  |
| DY |           |       | -14235.772 fti |
| DZ |           |       | -16587.059 fti |
| DX | CHESANING | VVA30 | 20375.401 fti  |
| DY |           |       | -9031.334 fti  |
| DZ |           |       | -11759.843 fti |
| DX | CHESANING | VVA30 | 20375.396 fti  |
| DY |           |       | -9031.326 fti  |
| DZ |           |       | -11759.855 fti |
| DX | CHESANING | VVA30 | 20375.381 fti  |
| DY |           |       | -9031.300 fti  |
| DZ |           |       | -11759.864 fti |
| DX | CHESANING | VVA30 | 20375.379 fti  |
| DY |           |       | -9031.306 fti  |
| DZ |           |       | -11759.871 fti |
| DX | CHESANING | VVA30 | 20375.396 fti  |
| DY |           |       | -9031.325 fti  |
| DZ |           |       | -11759.831 fti |
| DX | CHESANING | VVA30 | 20375.402 fti  |
| DY |           |       | -9031.334 fti  |
| DZ |           |       | -11759.830 fti |
| DX | CHESANING | VVA30 | 20375.413 fti  |
| DY |           |       | -9031.338 fti  |
| DZ |           |       | -11759.834 fti |
| DX | CHESANING | VVA30 | 20375.408 fti  |
| DY |           |       | -9031.329 fti  |
| DZ |           |       | -11759.840 fti |
| DX | CHESANING | VVA27 | 23602.468 fti  |
| DY |           |       | 10000.138 fti  |
| DZ |           |       | 7932.684 fti   |
| DX | CHESANING | VVA27 | 23602.481 fti  |
| DY |           |       | 10000.116 fti  |
| DZ |           |       | 7932.699 fti   |
| DX | CHESANING | VVA27 | 23602.492 fti  |
| DY |           |       | 10000.125 fti  |
| DZ |           |       | 7932.699 fti   |
| DX | CHESANING | VVA27 | 23602.492 fti  |
| DY |           |       | 10000.133 fti  |
| DZ |           |       | 7932.706 fti   |
| DX | CHESANING | VVA27 | 23602.475 fti  |
| DY |           |       | 10000.143 fti  |
| DZ |           |       | 7932.678 fti   |
| DX | CHESANING | VVA27 | 23602.474 fti  |
| DY |           |       | 10000.137 fti  |
| DZ |           |       | 7932.694 fti   |
| DX | CHESANING | VVA27 | 23602.477 fti  |
| DY |           |       | 10000.136 fti  |
| DZ |           |       | 7932.701 fti   |
| DX | CHESANING | VVA27 | 23602.481 fti  |
| DY |           |       | 10000.142 fti  |
| DZ |           |       | 7932.710 fti   |
| DX | CHESANING | VVA26 | -10591.073 fti |
| DY |           |       | 9102.609 fti   |
| DZ |           |       | 10734.262 fti  |
| DX | CHESANING | VVA26 | -10591.076 fti |
| DY |           |       | 9102.629 fti   |
| DZ |           |       | 10734.256 fti  |
| DX | CHESANING | VVA26 | -10591.081 fti |
| DY |           |       | 9102.622 fti   |
| DZ |           |       | 10734.257 fti  |
| DX | CHESANING | VVA26 | -10591.084 fti |
| DY |           |       | 9102.621 fti   |

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|    |           |       | 10734.259 fti  |
| DX | CHESANING | VVA26 | -10591.072 fti |
| DY |           |       | 9102.639 fti   |
| DZ |           |       | 10734.260 fti  |
| DX | CHESANING | VVA26 | -10591.075 fti |
| DY |           |       | 9102.628 fti   |
| DZ |           |       | 10734.264 fti  |
| DX | CHESANING | VVA26 | -10591.085 fti |
| DY |           |       | 9102.632 fti   |
| DZ |           |       | 10734.281 fti  |
| DX | CHESANING | VVA26 | -10591.088 fti |
| DY |           |       | 9102.637 fti   |
| DZ |           |       | 10734.278 fti  |
| DX | CHESANING | VVA23 | 14166.897 fti  |
| DY |           |       | 27220.451 fti  |
| DZ |           |       | 27136.396 fti  |
| DX | CHESANING | VVA23 | 14166.890 fti  |
| DY |           |       | 27220.433 fti  |
| DZ |           |       | 27136.424 fti  |
| DX | CHESANING | VVA23 | 14166.886 fti  |
| DY |           |       | 27220.434 fti  |
| DZ |           |       | 27136.400 fti  |
| DX | CHESANING | VVA23 | 14166.882 fti  |
| DY |           |       | 27220.437 fti  |
| DZ |           |       | 27136.409 fti  |
| DX | CHESANING | VVA23 | 14166.881 fti  |
| DY |           |       | 27220.472 fti  |
| DZ |           |       | 27136.363 fti  |
| DX | CHESANING | VVA23 | 14166.878 fti  |
| DY |           |       | 27220.485 fti  |
| DZ |           |       | 27136.374 fti  |
| DX | CHESANING | VVA23 | 14166.882 fti  |
| DY |           |       | 27220.470 fti  |
| DZ |           |       | 27136.378 fti  |
| DX | CHESANING | VVA23 | 14166.889 fti  |
| DY |           |       | 27220.490 fti  |
| DZ |           |       | 27136.387 fti  |
| DX | CHESANING | NVA3  | -10905.610 fti |
| DY |           |       | -12891.644 fti |
| DZ |           |       | -12450.125 fti |
| DX | CHESANING | NVA3  | -10905.605 fti |
| DY |           |       | -12891.638 fti |
| DZ |           |       | -12450.136 fti |
| DX | CHESANING | NVA3  | -10905.580 fti |
| DY |           |       | -12891.641 fti |
| DZ |           |       | -12450.147 fti |
| DX | CHESANING | NVA3  | -10905.590 fti |
| DY |           |       | -12891.633 fti |
| DZ |           |       | -12450.148 fti |
| DX | CHESANING | NVA3  | -10905.585 fti |
| DY |           |       | -12891.638 fti |
| DZ |           |       | -12450.155 fti |
| DX | CHESANING | NVA3  | -10905.595 fti |
| DY |           |       | -12891.637 fti |
| DZ |           |       | -12450.158 fti |
| DX | CHESANING | NVA3  | -10905.605 fti |
| DY |           |       | -12891.622 fti |
| DZ |           |       | -12450.149 fti |
| DX | CHESANING | NVA3  | -10905.612 fti |
| DY |           |       | -12891.631 fti |
| DZ |           |       | -12450.139 fti |
| DX | CHESANING | NVA2  | 1319.933 fti   |
| DY |           |       | -935.641 fti   |
| DZ |           |       | -1160.435 fti  |
| DX | CHESANING | NVA2  | 1319.924 fti   |

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|----|-----------|-------|----------------|
| DZ |           |       | -935.628 fti   |
| DX | CHESANING | NVA2  | -1160.453 fti  |
| DY |           |       | 1319.931 fti   |
| DZ |           |       | -935.666 fti   |
| DX | CHESANING | NVA2  | -1160.468 fti  |
| DY |           |       | 1319.938 fti   |
| DZ |           |       | -935.671 fti   |
| DX | CHESANING | NVA2  | -1160.444 fti  |
| DY |           |       | 1319.943 fti   |
| DZ |           |       | -935.642 fti   |
| DX | CHESANING | NVA2  | -1160.440 fti  |
| DY |           |       | 1319.945 fti   |
| DZ |           |       | -935.639 fti   |
| DX | CHESANING | NVA2  | -1160.441 fti  |
| DY |           |       | 1319.938 fti   |
| DZ |           |       | -935.658 fti   |
| DX | CHESANING | NVA2  | -1160.472 fti  |
| DY |           |       | 1319.926 fti   |
| DZ |           |       | -935.645 fti   |
| DX | CHESANING | NVA18 | -1160.481 fti  |
| DY |           |       | 22452.266 fti  |
| DZ |           |       | 17113.684 fti  |
| DX | CHESANING | NVA18 | 15557.393 fti  |
| DY |           |       | 22452.259 fti  |
| DZ |           |       | 17113.679 fti  |
| DX | CHESANING | NVA18 | 15557.378 fti  |
| DY |           |       | 22452.259 fti  |
| DZ |           |       | 17113.663 fti  |
| DX | CHESANING | NVA18 | 15557.376 fti  |
| DY |           |       | 22452.256 fti  |
| DZ |           |       | 17113.662 fti  |
| DX | CHESANING | NVA18 | 15557.371 fti  |
| DY |           |       | 22452.232 fti  |
| DZ |           |       | 17113.626 fti  |
| DX | CHESANING | NVA18 | 15557.412 fti  |
| DY |           |       | 22452.233 fti  |
| DZ |           |       | 17113.622 fti  |
| DX | CHESANING | NVA18 | 15557.420 fti  |
| DY |           |       | 22452.231 fti  |
| DZ |           |       | 17113.606 fti  |
| DX | CHESANING | NVA18 | 15557.419 fti  |
| DY |           |       | 22452.228 fti  |
| DZ |           |       | 17113.619 fti  |
| DX | CHESANING | NVA17 | 15557.417 fti  |
| DY |           |       | -38605.030 fti |
| DZ |           |       | 6159.145 fti   |
| DX | CHESANING | NVA17 | 10628.735 fti  |
| DY |           |       | -38605.031 fti |
| DZ |           |       | 6159.158 fti   |
| DX | CHESANING | NVA17 | 10628.734 fti  |
| DY |           |       | -38605.025 fti |
| DZ |           |       | 6159.154 fti   |
| DX | CHESANING | NVA17 | 10628.690 fti  |
| DY |           |       | -38605.027 fti |
| DZ |           |       | 6159.160 fti   |
| DX | CHESANING | NVA17 | 10628.688 fti  |
| DY |           |       | -38605.076 fti |
| DZ |           |       | 6159.105 fti   |
| DX | CHESANING | NVA17 | 10628.789 fti  |
| DY |           |       | -38605.062 fti |
| DZ |           |       | 6159.118 fti   |
| DX | CHESANING | NVA17 | 10628.772 fti  |
| DY |           |       | -38605.028 fti |
| DZ |           |       | 6159.089 fti   |
| DX | CHESANING | NVA17 | 10628.772 fti  |

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|----|-----------|-------|----------------|
|    | CHESANING | NVA17 | -38605.027 fti |
| DY |           |       | 6159.080 fti   |
| DZ |           |       | 10628.788 fti  |
| DX | CHESANING | NVA16 | -11787.186 fti |
| DY |           |       | -2220.501 fti  |
| DZ |           |       | -1075.361 fti  |
| DX | CHESANING | NVA16 | -11787.171 fti |
| DY |           |       | -2220.505 fti  |
| DZ |           |       | -1075.359 fti  |
| DX | CHESANING | NVA16 | -11787.148 fti |
| DY |           |       | -2220.492 fti  |
| DZ |           |       | -1075.392 fti  |
| DX | CHESANING | NVA16 | -11787.150 fti |
| DY |           |       | -2220.500 fti  |
| DZ |           |       | -1075.390 fti  |
| DX | CHESANING | NVA16 | -11787.170 fti |
| DY |           |       | -2220.499 fti  |
| DZ |           |       | -1075.350 fti  |
| DX | CHESANING | NVA16 | -11787.173 fti |
| DY |           |       | -2220.491 fti  |
| DZ |           |       | -1075.354 fti  |
| DX | CHESANING | NVA16 | -11787.152 fti |
| DY |           |       | -2220.512 fti  |
| DZ |           |       | -1075.362 fti  |
| DX | CHESANING | NVA16 | -11787.159 fti |
| DY |           |       | -2220.487 fti  |
| DZ |           |       | -1075.384 fti  |
| DX | CHESANING | NVA13 | -46979.267 fti |
| DY |           |       | -19223.966 fti |
| DZ |           |       | -15264.594 fti |
| DX | CHESANING | NVA13 | -46979.251 fti |
| DY |           |       | -19223.947 fti |
| DZ |           |       | -15264.590 fti |
| DX | CHESANING | NVA13 | -46979.260 fti |
| DY |           |       | -19223.976 fti |
| DZ |           |       | -15264.583 fti |
| DX | CHESANING | NVA13 | -46979.269 fti |
| DY |           |       | -19223.973 fti |
| DZ |           |       | -15264.588 fti |
| DX | CHESANING | NVA13 | -46979.291 fti |
| DY |           |       | -19223.919 fti |
| DZ |           |       | -15264.637 fti |
| DX | CHESANING | NVA13 | -46979.289 fti |
| DY |           |       | -19223.918 fti |
| DZ |           |       | -15264.626 fti |
| DX | CHESANING | NVA13 | -46979.238 fti |
| DY |           |       | -19223.929 fti |
| DZ |           |       | -15264.608 fti |
| DX | CHESANING | NVA13 | -46979.218 fti |
| DY |           |       | -19223.930 fti |
| DZ |           |       | -15264.619 fti |
| DX | BIRCH RUN | VVA4  | -14561.628 fti |
| DY |           |       | -9120.427 fti  |
| DZ |           |       | -7996.550 fti  |
| DX | BIRCH RUN | VVA4  | -14561.618 fti |
| DY |           |       | -9120.432 fti  |
| DZ |           |       | -7996.533 fti  |
| DX | BIRCH RUN | VVA4  | -14561.658 fti |
| DY |           |       | -9120.445 fti  |
| DZ |           |       | -7996.536 fti  |
| DX | BIRCH RUN | VVA4  | -14561.619 fti |
| DY |           |       | -9120.461 fti  |
| DZ |           |       | -7996.517 fti  |
| DX | BIRCH RUN | VVA4  | -14561.642 fti |
| DY |           |       | -9120.495 fti  |

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|----|-----------|-------|----------------|
|    |           |       | -7996.507 fti  |
| DX | BIRCH RUN | VVA4  | -14561.588 fti |
| DY |           |       | -9120.394 fti  |
| DZ |           |       | -7996.561 fti  |
| DX | BIRCH RUN | VVA4  | -14561.625 fti |
| DY |           |       | -9120.443 fti  |
| DZ |           |       | -7996.526 fti  |
| DX | BIRCH RUN | VVA4  | -14561.587 fti |
| DY |           |       | -9120.413 fti  |
| DZ |           |       | -7996.530 fti  |
| DX | BIRCH RUN | VVA29 | -13336.884 fti |
| DY |           |       | -31034.257 fti |
| DZ |           |       | -31309.243 fti |
| DX | BIRCH RUN | VVA29 | -13336.880 fti |
| DY |           |       | -31034.282 fti |
| DZ |           |       | -31309.230 fti |
| DX | BIRCH RUN | VVA29 | -13336.884 fti |
| DY |           |       | -31034.285 fti |
| DZ |           |       | -31309.221 fti |
| DX | BIRCH RUN | VVA29 | -13336.880 fti |
| DY |           |       | -31034.292 fti |
| DZ |           |       | -31309.204 fti |
| DX | BIRCH RUN | VVA29 | -13336.936 fti |
| DY |           |       | -31034.311 fti |
| DZ |           |       | -31309.225 fti |
| DX | BIRCH RUN | VVA29 | -13336.933 fti |
| DY |           |       | -31034.320 fti |
| DZ |           |       | -31309.209 fti |
| DX | BIRCH RUN | VVA29 | -13336.930 fti |
| DY |           |       | -31034.337 fti |
| DZ |           |       | -31309.201 fti |
| DX | BIRCH RUN | VVA29 | -13336.921 fti |
| DY |           |       | -31034.326 fti |
| DZ |           |       | -31309.190 fti |
| DX | BIRCH RUN | VVA28 | -16396.458 fti |
| DY |           |       | -13228.935 fti |
| DZ |           |       | -12138.438 fti |
| DX | BIRCH RUN | VVA28 | -16396.463 fti |
| DY |           |       | -13228.966 fti |
| DZ |           |       | -12138.435 fti |
| DX | BIRCH RUN | VVA28 | -16396.463 fti |
| DY |           |       | -13228.963 fti |
| DZ |           |       | -12138.439 fti |
| DX | BIRCH RUN | VVA28 | -16396.464 fti |
| DY |           |       | -13228.958 fti |
| DZ |           |       | -12138.439 fti |
| DX | BIRCH RUN | VVA28 | -16396.446 fti |
| DY |           |       | -13228.967 fti |
| DZ |           |       | -12138.427 fti |
| DX | BIRCH RUN | VVA28 | -16396.440 fti |
| DY |           |       | -13228.938 fti |
| DZ |           |       | -12138.440 fti |
| DX | BIRCH RUN | VVA28 | -16396.430 fti |
| DY |           |       | -13228.901 fti |
| DZ |           |       | -12138.458 fti |
| DX | BIRCH RUN | VVA28 | -16396.440 fti |
| DY |           |       | -13228.899 fti |
| DZ |           |       | -12138.462 fti |
| DX | BIRCH RUN | VVA21 | -18607.490 fti |
| DY |           |       | 6740.131 fti   |
| DZ |           |       | 9169.306 fti   |
| DX | BIRCH RUN | VVA21 | -18607.488 fti |
| DY |           |       | 6740.119 fti   |
| DZ |           |       | 9169.314 fti   |
| DX | BIRCH RUN | VVA21 | -18607.482 fti |

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| DZ |           |       | 6740.118 fti   |
| DX | BIRCH RUN | VVA21 | 9169.315 fti   |
| DY |           |       | -18607.473 fti |
| DZ |           |       | 6740.105 fti   |
| DX | BIRCH RUN | VVA21 | 9169.326 fti   |
| DY |           |       | -18607.450 fti |
| DZ |           |       | 6740.144 fti   |
| DX | BIRCH RUN | VVA21 | 9169.336 fti   |
| DY |           |       | -18607.453 fti |
| DZ |           |       | 6740.130 fti   |
| DX | BIRCH RUN | VVA21 | 9169.350 fti   |
| DY |           |       | -18607.454 fti |
| DZ |           |       | 6740.184 fti   |
| DX | BIRCH RUN | VVA21 | 9169.313 fti   |
| DY |           |       | -18607.451 fti |
| DZ |           |       | 6740.154 fti   |
| DX | BIRCH RUN | VVA20 | 9169.327 fti   |
| DY |           |       | 146.560 fti    |
| DZ |           |       | 7376.170 fti   |
| DX | BIRCH RUN | VVA20 | 7737.941 fti   |
| DY |           |       | 146.563 fti    |
| DZ |           |       | 7376.174 fti   |
| DX | BIRCH RUN | VVA20 | 7737.934 fti   |
| DY |           |       | 146.564 fti    |
| DZ |           |       | 7376.176 fti   |
| DX | BIRCH RUN | VVA20 | 7737.937 fti   |
| DY |           |       | 146.564 fti    |
| DZ |           |       | 7376.189 fti   |
| DX | BIRCH RUN | VVA20 | 7737.940 fti   |
| DY |           |       | 146.563 fti    |
| DZ |           |       | 7376.204 fti   |
| DX | BIRCH RUN | VVA20 | 7737.936 fti   |
| DY |           |       | 146.564 fti    |
| DZ |           |       | 7376.194 fti   |
| DX | BIRCH RUN | VVA20 | 7737.933 fti   |
| DY |           |       | 146.567 fti    |
| DZ |           |       | 7376.210 fti   |
| DX | BIRCH RUN | VVA20 | 7737.932 fti   |
| DY |           |       | 146.572 fti    |
| DZ |           |       | 7376.213 fti   |
| DX | BIRCH RUN | VVA19 | 7737.936 fti   |
| DY |           |       | 14824.828 fti  |
| DZ |           |       | -5865.971 fti  |
| DX | BIRCH RUN | VVA19 | -7881.086 fti  |
| DY |           |       | 14824.826 fti  |
| DZ |           |       | -5865.971 fti  |
| DX | BIRCH RUN | VVA19 | -7881.086 fti  |
| DY |           |       | 14824.822 fti  |
| DZ |           |       | -5865.971 fti  |
| DX | BIRCH RUN | VVA19 | -7881.089 fti  |
| DY |           |       | 14824.826 fti  |
| DZ |           |       | -5865.985 fti  |
| DX | BIRCH RUN | VVA19 | -7881.081 fti  |
| DY |           |       | 14824.849 fti  |
| DZ |           |       | -5866.007 fti  |
| DX | BIRCH RUN | VVA19 | -7881.086 fti  |
| DY |           |       | 14824.849 fti  |
| DZ |           |       | -5866.000 fti  |
| DX | BIRCH RUN | VVA19 | -7881.085 fti  |
| DY |           |       | 14824.847 fti  |
| DZ |           |       | -5865.992 fti  |
| DX | BIRCH RUN | VVA19 | -7881.082 fti  |
| DY |           |       | 14824.851 fti  |
| DZ |           |       | -5865.984 fti  |
| DX | BIRCH RUN | VVA19 | -7881.081 fti  |

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|    | BIRCH RUN | VVA18 | 42715.194 fti |
| DY |           |       | -2751.915 fti |
| DZ |           |       | -7744.152 fti |
| DX | BIRCH RUN | VVA18 | 42715.193 fti |
| DY |           |       | -2751.927 fti |
| DZ |           |       | -7744.133 fti |
| DX | BIRCH RUN | VVA18 | 42715.199 fti |
| DY |           |       | -2751.939 fti |
| DZ |           |       | -7744.136 fti |
| DX | BIRCH RUN | VVA18 | 42715.199 fti |
| DY |           |       | -2751.947 fti |
| DZ |           |       | -7744.133 fti |
| DX | BIRCH RUN | VVA18 | 42715.199 fti |
| DY |           |       | -2751.871 fti |
| DZ |           |       | -7744.202 fti |
| DX | BIRCH RUN | VVA18 | 42715.209 fti |
| DY |           |       | -2751.896 fti |
| DZ |           |       | -7744.195 fti |
| DX | BIRCH RUN | VVA18 | 42715.205 fti |
| DY |           |       | -2751.903 fti |
| DZ |           |       | -7744.176 fti |
| DX | BIRCH RUN | VVA18 | 42715.205 fti |
| DY |           |       | -2751.889 fti |
| DZ |           |       | -7744.187 fti |
| DX | BIRCH RUN | VVA17 | 39887.178 fti |
| DY |           |       | 7751.297 fti  |
| DZ |           |       | 3621.933 fti  |
| DX | BIRCH RUN | VVA17 | 39887.177 fti |
| DY |           |       | 7751.303 fti  |
| DZ |           |       | 3621.932 fti  |
| DX | BIRCH RUN | VVA17 | 39887.168 fti |
| DY |           |       | 7751.320 fti  |
| DZ |           |       | 3621.922 fti  |
| DX | BIRCH RUN | VVA17 | 39887.169 fti |
| DY |           |       | 7751.323 fti  |
| DZ |           |       | 3621.924 fti  |
| DX | BIRCH RUN | VVA17 | 39887.144 fti |
| DY |           |       | 7751.346 fti  |
| DZ |           |       | 3621.915 fti  |
| DX | BIRCH RUN | VVA17 | 39887.140 fti |
| DY |           |       | 7751.345 fti  |
| DZ |           |       | 3621.925 fti  |
| DX | BIRCH RUN | VVA17 | 39887.148 fti |
| DY |           |       | 7751.326 fti  |
| DZ |           |       | 3621.946 fti  |
| DX | BIRCH RUN | VVA17 | 39887.157 fti |
| DY |           |       | 7751.310 fti  |
| DZ |           |       | 3621.936 fti  |
| DX | BIRCH RUN | VVA16 | 1247.827 fti  |
| DY |           |       | 18024.801 fti |
| DZ |           |       | 18840.536 fti |
| DX | BIRCH RUN | VVA16 | 1247.815 fti  |
| DY |           |       | 18024.814 fti |
| DZ |           |       | 18840.529 fti |
| DX | BIRCH RUN | VVA16 | 1247.812 fti  |
| DY |           |       | 18024.825 fti |
| DZ |           |       | 18840.520 fti |
| DX | BIRCH RUN | VVA16 | 1247.813 fti  |
| DY |           |       | 18024.822 fti |
| DZ |           |       | 18840.525 fti |
| DX | BIRCH RUN | VVA16 | 1247.809 fti  |
| DY |           |       | 18024.775 fti |
| DZ |           |       | 18840.558 fti |
| DX | BIRCH RUN | VVA16 | 1247.802 fti  |
| DY |           |       | 18024.767 fti |



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|    |           |       | 18840.565 fti  |
| DX | BIRCH RUN | VVA16 | 1247.803 fti   |
| DY |           |       | 18024.742 fti  |
| DZ |           |       | 18840.562 fti  |
| DX | BIRCH RUN | VVA16 | 1247.804 fti   |
| DY |           |       | 18024.788 fti  |
| DZ |           |       | 18840.537 fti  |
| DX | BIRCH RUN | NVA5  | 23175.208 fti  |
| DY |           |       | 2559.657 fti   |
| DZ |           |       | 49.730 fti     |
| DX | BIRCH RUN | NVA5  | 23175.204 fti  |
| DY |           |       | 2559.664 fti   |
| DZ |           |       | 49.721 fti     |
| DX | BIRCH RUN | NVA5  | 23175.207 fti  |
| DY |           |       | 2559.664 fti   |
| DZ |           |       | 49.716 fti     |
| DX | BIRCH RUN | NVA5  | 23175.207 fti  |
| DY |           |       | 2559.666 fti   |
| DZ |           |       | 49.717 fti     |
| DX | BIRCH RUN | NVA5  | 23175.210 fti  |
| DY |           |       | 2559.650 fti   |
| DZ |           |       | 49.773 fti     |
| DX | BIRCH RUN | NVA5  | 23175.204 fti  |
| DY |           |       | 2559.636 fti   |
| DZ |           |       | 49.782 fti     |
| DX | BIRCH RUN | NVA5  | 23175.207 fti  |
| DY |           |       | 2559.648 fti   |
| DZ |           |       | 49.771 fti     |
| DX | BIRCH RUN | NVA5  | 23175.200 fti  |
| DY |           |       | 2559.663 fti   |
| DZ |           |       | 49.766 fti     |
| DX | BIRCH RUN | NVA28 | -28686.675 fti |
| DY |           |       | 14858.247 fti  |
| DZ |           |       | 18845.170 fti  |
| DX | BIRCH RUN | NVA28 | -28686.679 fti |
| DY |           |       | 14858.244 fti  |
| DZ |           |       | 18845.174 fti  |
| DX | BIRCH RUN | NVA28 | -28686.642 fti |
| DY |           |       | 14858.248 fti  |
| DZ |           |       | 18845.180 fti  |
| DX | BIRCH RUN | NVA28 | -28686.642 fti |
| DY |           |       | 14858.239 fti  |
| DZ |           |       | 18845.173 fti  |
| DX | BIRCH RUN | NVA28 | -28686.666 fti |
| DY |           |       | 14858.254 fti  |
| DZ |           |       | 18845.210 fti  |
| DX | BIRCH RUN | NVA28 | -28686.667 fti |
| DY |           |       | 14858.267 fti  |
| DZ |           |       | 18845.195 fti  |
| DX | BIRCH RUN | NVA28 | -28686.661 fti |
| DY |           |       | 14858.263 fti  |
| DZ |           |       | 18845.157 fti  |
| DX | BIRCH RUN | NVA28 | -28686.660 fti |
| DY |           |       | 14858.273 fti  |
| DZ |           |       | 18845.163 fti  |
| DX | BIRCH RUN | NVA11 | -9429.598 fti  |
| DY |           |       | -4707.122 fti  |
| DZ |           |       | -3912.293 fti  |
| DX | BIRCH RUN | NVA11 | -9429.592 fti  |
| DY |           |       | -4707.116 fti  |
| DZ |           |       | -3912.291 fti  |
| DX | BIRCH RUN | NVA11 | -9429.604 fti  |
| DY |           |       | -4707.100 fti  |
| DZ |           |       | -3912.292 fti  |
| DX | BIRCH RUN | NVA11 | -9429.606 fti  |

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| DZ |           |       | -4707.096 fti  |
| DX | BIRCH RUN | NVA11 | -3912.284 fti  |
| DY |           |       | -9429.603 fti  |
| DZ |           |       | -4707.110 fti  |
| DX | BIRCH RUN | NVA11 | -3912.286 fti  |
| DY |           |       | -9429.601 fti  |
| DZ |           |       | -4707.101 fti  |
| DX | BIRCH RUN | NVA11 | -3912.272 fti  |
| DY |           |       | -9429.593 fti  |
| DZ |           |       | -4707.106 fti  |
| DX | BIRCH RUN | NVA11 | -3912.281 fti  |
| DY |           |       | -9429.593 fti  |
| DZ |           |       | -4707.099 fti  |
| DX | HEMLOCK   | VVA7  | -3912.280 fti  |
| DY |           |       | 28009.115 fti  |
| DZ |           |       | -22446.234 fti |
| DX | HEMLOCK   | VVA7  | -26772.141 fti |
| DY |           |       | 28009.114 fti  |
| DZ |           |       | -22446.215 fti |
| DX | HEMLOCK   | VVA7  | -26772.167 fti |
| DY |           |       | 28009.116 fti  |
| DZ |           |       | -22446.213 fti |
| DX | HEMLOCK   | VVA7  | -26772.143 fti |
| DY |           |       | 28009.115 fti  |
| DZ |           |       | -22446.203 fti |
| DX | HEMLOCK   | VVA7  | -26772.154 fti |
| DY |           |       | 28009.116 fti  |
| DZ |           |       | -22446.181 fti |
| DX | HEMLOCK   | VVA7  | -26772.187 fti |
| DY |           |       | 28009.123 fti  |
| DZ |           |       | -22446.190 fti |
| DX | HEMLOCK   | VVA7  | -26772.191 fti |
| DY |           |       | 28009.126 fti  |
| DZ |           |       | -22446.173 fti |
| DX | HEMLOCK   | VVA7  | -26772.179 fti |
| DY |           |       | 28009.120 fti  |
| DZ |           |       | -22446.179 fti |
| DX | HEMLOCK   | VVA14 | -26772.168 fti |
| DY |           |       | -21873.275 fti |
| DZ |           |       | -18560.949 fti |
| DX | HEMLOCK   | VVA14 | -17248.193 fti |
| DY |           |       | -21873.271 fti |
| DZ |           |       | -18560.963 fti |
| DX | HEMLOCK   | VVA14 | -17248.194 fti |
| DY |           |       | -21873.261 fti |
| DZ |           |       | -18560.956 fti |
| DX | HEMLOCK   | VVA14 | -17248.172 fti |
| DY |           |       | -21873.252 fti |
| DZ |           |       | -18560.979 fti |
| DX | HEMLOCK   | VVA14 | -17248.190 fti |
| DY |           |       | -21873.254 fti |
| DZ |           |       | -18560.916 fti |
| DX | HEMLOCK   | VVA14 | -17248.210 fti |
| DY |           |       | -21873.267 fti |
| DZ |           |       | -18560.914 fti |
| DX | HEMLOCK   | VVA14 | -17248.208 fti |
| DY |           |       | -21873.258 fti |
| DZ |           |       | -18560.914 fti |
| DX | HEMLOCK   | VVA14 | -17248.255 fti |
| DY |           |       | -21873.264 fti |
| DZ |           |       | -18560.925 fti |
| DX | HEMLOCK   | NVA32 | -17248.248 fti |
| DY |           |       | 3897.516 fti   |
| DZ |           |       | -19020.995 fti |
|    |           |       | -20514.099 fti |

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|----|---------|-------|----------------|
|    | HEMLOCK | NVA32 | 3897.520 fti   |
| DY |         |       | -19021.001 fti |
| DZ |         |       | -20514.090 fti |
| DX | HEMLOCK | NVA32 | 3897.541 fti   |
| DY |         |       | -19021.008 fti |
| DZ |         |       | -20514.110 fti |
| DX | HEMLOCK | NVA32 | 3897.537 fti   |
| DY |         |       | -19021.012 fti |
| DZ |         |       | -20514.110 fti |
| DX | HEMLOCK | NVA32 | 3897.539 fti   |
| DY |         |       | -19020.990 fti |
| DZ |         |       | -20514.117 fti |
| DX | HEMLOCK | NVA32 | 3897.536 fti   |
| DY |         |       | -19020.981 fti |
| DZ |         |       | -20514.134 fti |
| DX | HEMLOCK | NVA32 | 3897.521 fti   |
| DY |         |       | -19020.954 fti |
| DZ |         |       | -20514.116 fti |
| DX | HEMLOCK | NVA32 | 3897.520 fti   |
| DY |         |       | -19020.960 fti |
| DZ |         |       | -20514.113 fti |
| DX | HEMLOCK | NVA23 | 44510.105 fti  |
| DY |         |       | 5965.957 fti   |
| DZ |         |       | 1377.988 fti   |
| DX | HEMLOCK | NVA23 | 44510.098 fti  |
| DY |         |       | 5965.962 fti   |
| DZ |         |       | 1377.987 fti   |
| DX | HEMLOCK | NVA23 | 44510.106 fti  |
| DY |         |       | 5965.961 fti   |
| DZ |         |       | 1377.947 fti   |
| DX | HEMLOCK | NVA23 | 44510.103 fti  |
| DY |         |       | 5965.962 fti   |
| DZ |         |       | 1377.947 fti   |
| DX | HEMLOCK | NVA23 | 44510.086 fti  |
| DY |         |       | 5965.913 fti   |
| DZ |         |       | 1377.995 fti   |
| DX | HEMLOCK | NVA23 | 44510.086 fti  |
| DY |         |       | 5965.913 fti   |
| DZ |         |       | 1377.997 fti   |
| DX | HEMLOCK | NVA23 | 44510.112 fti  |
| DY |         |       | 5965.925 fti   |
| DZ |         |       | 1378.012 fti   |
| DX | HEMLOCK | NVA23 | 44510.103 fti  |
| DY |         |       | 5965.946 fti   |
| DZ |         |       | 1377.998 fti   |
| DX | HEMLOCK | NVA15 | -21275.460 fti |
| DY |         |       | -33224.433 fti |
| DZ |         |       | -32803.873 fti |
| DX | HEMLOCK | NVA15 | -21275.466 fti |
| DY |         |       | -33224.431 fti |
| DZ |         |       | -32803.878 fti |
| DX | HEMLOCK | NVA15 | -21275.446 fti |
| DY |         |       | -33224.412 fti |
| DZ |         |       | -32803.921 fti |
| DX | HEMLOCK | NVA15 | -21275.439 fti |
| DY |         |       | -33224.438 fti |
| DZ |         |       | -32803.907 fti |
| DX | HEMLOCK | NVA15 | -21275.490 fti |
| DY |         |       | -33224.438 fti |
| DZ |         |       | -32803.831 fti |
| DX | HEMLOCK | NVA15 | -21275.481 fti |
| DY |         |       | -33224.439 fti |
| DZ |         |       | -32803.826 fti |
| DX | HEMLOCK | NVA15 | -21275.476 fti |
| DY |         |       | -33224.446 fti |

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|    |         |       | -32803.844 fti |
| DX | HEMLOCK | NVA15 | -21275.474 fti |
| DY |         |       | -33224.458 fti |
| DZ |         |       | -32803.828 fti |
| DX | VVA25   | VVA2  | 3587.304 fti   |
| DY |         |       | 11256.271 fti  |
| DZ |         |       | 11531.593 fti  |
| DX | VVA25   | VVA2  | 3587.299 fti   |
| DY |         |       | 11256.231 fti  |
| DZ |         |       | 11531.593 fti  |
| DX | VVA25   | VVA2  | 3587.283 fti   |
| DY |         |       | 11256.253 fti  |
| DZ |         |       | 11531.606 fti  |
| DX | VVA25   | VVA2  | 3587.299 fti   |
| DY |         |       | 11256.394 fti  |
| DZ |         |       | 11531.580 fti  |
| DX | VVA25   | VVA2  | 3587.275 fti   |
| DY |         |       | 11256.425 fti  |
| DZ |         |       | 11531.595 fti  |
| DX | VVA25   | VVA2  | 3587.274 fti   |
| DY |         |       | 11256.359 fti  |
| DZ |         |       | 11531.668 fti  |
| DX | VVA25   | VVA2  | 3587.278 fti   |
| DY |         |       | 11256.416 fti  |
| DZ |         |       | 11531.591 fti  |
| DX | VVA25   | VVA2  | 3587.247 fti   |
| DY |         |       | 11256.389 fti  |
| DZ |         |       | 11531.558 fti  |
| DX | VVA25   | VVA1  | 5946.664 fti   |
| DY |         |       | -13764.776 fti |
| DZ |         |       | -15190.183 fti |
| DX | VVA25   | VVA1  | 5946.666 fti   |
| DY |         |       | -13764.788 fti |
| DZ |         |       | -15190.148 fti |
| DX | VVA25   | VVA1  | 5946.634 fti   |
| DY |         |       | -13764.767 fti |
| DZ |         |       | -15190.226 fti |
| DX | VVA25   | VVA1  | 5946.656 fti   |
| DY |         |       | -13764.745 fti |
| DZ |         |       | -15190.229 fti |
| DX | VVA25   | VVA1  | 5946.713 fti   |
| DY |         |       | -13764.786 fti |
| DZ |         |       | -15190.139 fti |
| DX | VVA25   | VVA1  | 5946.696 fti   |
| DY |         |       | -13764.800 fti |
| DZ |         |       | -15190.176 fti |
| DX | VVA25   | VVA1  | 5946.689 fti   |
| DY |         |       | -13764.800 fti |
| DZ |         |       | -15190.178 fti |
| DX | VVA25   | VVA1  | 5946.686 fti   |
| DY |         |       | -13764.747 fti |
| DZ |         |       | -15190.166 fti |
| DX | BAYR    | VVA9  | -39748.579 fti |
| DY |         |       | 15358.002 fti  |
| DZ |         |       | 20535.678 fti  |
| DX | BAYR    | VVA9  | -39748.585 fti |
| DY |         |       | 15357.992 fti  |
| DZ |         |       | 20535.686 fti  |
| DX | BAYR    | VVA9  | -39748.604 fti |
| DY |         |       | 15357.942 fti  |
| DZ |         |       | 20535.694 fti  |
| DX | BAYR    | VVA9  | -39748.606 fti |
| DY |         |       | 15357.932 fti  |
| DZ |         |       | 20535.694 fti  |
| DX | BAYR    | VVA9  | -39748.596 fti |

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| DZ |      |      | 15358.018 fti  |
| DX | BAYR | VVA9 | 20535.643 fti  |
| DY |      |      | -39748.598 fti |
| DZ |      |      | 15358.015 fti  |
| DX | BAYR | VVA9 | 20535.657 fti  |
| DY |      |      | -39748.590 fti |
| DZ |      |      | 15358.004 fti  |
| DX | BAYR | VVA9 | 20535.674 fti  |
| DY |      |      | -39748.585 fti |
| DZ |      |      | 15357.984 fti  |
| DX | BAYR | VVA8 | 20535.668 fti  |
| DY |      |      | -55124.030 fti |
| DZ |      |      | 4860.919 fti   |
| DX | BAYR | VVA8 | 11168.677 fti  |
| DY |      |      | -55124.032 fti |
| DZ |      |      | 4860.954 fti   |
| DX | BAYR | VVA8 | 11168.655 fti  |
| DY |      |      | -55124.061 fti |
| DZ |      |      | 4860.990 fti   |
| DX | BAYR | VVA8 | 11168.676 fti  |
| DY |      |      | -55124.066 fti |
| DZ |      |      | 4861.021 fti   |
| DX | BAYR | VVA8 | 11168.659 fti  |
| DY |      |      | -55124.054 fti |
| DZ |      |      | 4860.965 fti   |
| DX | BAYR | VVA8 | 11168.677 fti  |
| DY |      |      | -55124.050 fti |
| DZ |      |      | 4860.974 fti   |
| DX | BAYR | VVA8 | 11168.669 fti  |
| DY |      |      | -55124.049 fti |
| DZ |      |      | 4860.967 fti   |
| DX | BAYR | VVA8 | 11168.643 fti  |
| DY |      |      | -55124.050 fti |
| DZ |      |      | 4860.962 fti   |
| DX | BAYR | VVA6 | 11168.650 fti  |
| DY |      |      | -4602.207 fti  |
| DZ |      |      | 10292.504 fti  |
| DX | BAYR | VVA6 | 11277.269 fti  |
| DY |      |      | -4602.204 fti  |
| DZ |      |      | 10292.502 fti  |
| DX | BAYR | VVA6 | 11277.274 fti  |
| DY |      |      | -4602.201 fti  |
| DZ |      |      | 10292.492 fti  |
| DX | BAYR | VVA6 | 11277.273 fti  |
| DY |      |      | -4602.203 fti  |
| DZ |      |      | 10292.495 fti  |
| DX | BAYR | VVA6 | 11277.268 fti  |
| DY |      |      | -4602.202 fti  |
| DZ |      |      | 10292.483 fti  |
| DX | BAYR | VVA6 | 11277.285 fti  |
| DY |      |      | -4602.201 fti  |
| DZ |      |      | 10292.485 fti  |
| DX | BAYR | VVA6 | 11277.292 fti  |
| DY |      |      | -4602.193 fti  |
| DZ |      |      | 10292.483 fti  |
| DX | BAYR | VVA6 | 11277.275 fti  |
| DY |      |      | -4602.194 fti  |
| DZ |      |      | 10292.483 fti  |
| DX | BAYR | VVA5 | 11277.280 fti  |
| DY |      |      | -11377.902 fti |
| DZ |      |      | 19035.015 fti  |
| DX | BAYR | VVA5 | 21190.772 fti  |
| DY |      |      | -11377.899 fti |
| DZ |      |      | 19035.002 fti  |
| DX |      |      | 21190.771 fti  |

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|    | BAYR | VVA5  | -11377.897 fti |
| DY |      |       | 19035.003 fti  |
| DZ |      |       | 21190.777 fti  |
| DX | BAYR | VVA5  | -11377.903 fti |
| DY |      |       | 19035.015 fti  |
| DZ |      |       | 21190.787 fti  |
| DX | BAYR | VVA5  | -11377.877 fti |
| DY |      |       | 19035.003 fti  |
| DZ |      |       | 21190.817 fti  |
| DX | BAYR | VVA5  | -11377.880 fti |
| DY |      |       | 19034.994 fti  |
| DZ |      |       | 21190.833 fti  |
| DX | BAYR | VVA5  | -11377.877 fti |
| DY |      |       | 19034.980 fti  |
| DZ |      |       | 21190.829 fti  |
| DX | BAYR | VVA5  | -11377.888 fti |
| DY |      |       | 19035.014 fti  |
| DZ |      |       | 21190.819 fti  |
| DX | BAYR | VVA3  | 9108.536 fti   |
| DY |      |       | -19356.685 fti |
| DZ |      |       | -21354.695 fti |
| DX | BAYR | VVA3  | 9108.578 fti   |
| DY |      |       | -19356.701 fti |
| DZ |      |       | -21354.653 fti |
| DX | BAYR | VVA3  | 9108.556 fti   |
| DY |      |       | -19356.718 fti |
| DZ |      |       | -21354.611 fti |
| DX | BAYR | VVA3  | 9108.512 fti   |
| DY |      |       | -19356.726 fti |
| DZ |      |       | -21354.641 fti |
| DX | BAYR | VVA3  | 9108.492 fti   |
| DY |      |       | -19356.752 fti |
| DZ |      |       | -21354.629 fti |
| DX | BAYR | VVA3  | 9108.500 fti   |
| DY |      |       | -19356.780 fti |
| DZ |      |       | -21354.621 fti |
| DX | BAYR | VVA3  | 9108.540 fti   |
| DY |      |       | -19356.737 fti |
| DZ |      |       | -21354.629 fti |
| DX | BAYR | VVA3  | 9108.538 fti   |
| DY |      |       | -19356.679 fti |
| DZ |      |       | -21354.630 fti |
| DX | BAYR | VVA13 | 20660.623 fti  |
| DY |      |       | -7619.842 fti  |
| DZ |      |       | -10337.788 fti |
| DX | BAYR | VVA13 | 20660.618 fti  |
| DY |      |       | -7619.831 fti  |
| DZ |      |       | -10337.790 fti |
| DX | BAYR | VVA13 | 20660.623 fti  |
| DY |      |       | -7619.826 fti  |
| DZ |      |       | -10337.801 fti |
| DX | BAYR | VVA13 | 20660.622 fti  |
| DY |      |       | -7619.826 fti  |
| DZ |      |       | -10337.805 fti |
| DX | BAYR | VVA13 | 20660.603 fti  |
| DY |      |       | -7619.835 fti  |
| DZ |      |       | -10337.793 fti |
| DX | BAYR | VVA13 | 20660.611 fti  |
| DY |      |       | -7619.829 fti  |
| DZ |      |       | -10337.781 fti |
| DX | BAYR | VVA13 | 20660.616 fti  |
| DY |      |       | -7619.830 fti  |
| DZ |      |       | -10337.800 fti |
| DX | BAYR | VVA13 | 20660.620 fti  |
| DY |      |       | -7619.831 fti  |

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|    |      |       | -10337.792 fti |
| DX | BAYR | VVA11 | 18621.137 fti  |
| DY |      |       | 10399.225 fti  |
| DZ |      |       | 8780.924 fti   |
| DX | BAYR | VVA11 | 18621.133 fti  |
| DY |      |       | 10399.222 fti  |
| DZ |      |       | 8780.932 fti   |
| DX | BAYR | VVA11 | 18621.127 fti  |
| DY |      |       | 10399.229 fti  |
| DZ |      |       | 8780.925 fti   |
| DX | BAYR | VVA11 | 18621.128 fti  |
| DY |      |       | 10399.226 fti  |
| DZ |      |       | 8780.926 fti   |
| DX | BAYR | VVA11 | 18621.182 fti  |
| DY |      |       | 10399.194 fti  |
| DZ |      |       | 8780.926 fti   |
| DX | BAYR | VVA11 | 18621.180 fti  |
| DY |      |       | 10399.210 fti  |
| DZ |      |       | 8780.916 fti   |
| DX | BAYR | VVA11 | 18621.178 fti  |
| DY |      |       | 10399.225 fti  |
| DZ |      |       | 8780.900 fti   |
| DX | BAYR | VVA11 | 18621.176 fti  |
| DY |      |       | 10399.229 fti  |
| DZ |      |       | 8780.893 fti   |
| DX | BAYR | NVA37 | 13917.386 fti  |
| DY |      |       | 6150.089 fti   |
| DZ |      |       | 4859.266 fti   |
| DX | BAYR | NVA37 | 13917.387 fti  |
| DY |      |       | 6150.109 fti   |
| DZ |      |       | 4859.254 fti   |
| DX | BAYR | NVA37 | 13917.380 fti  |
| DY |      |       | 6150.101 fti   |
| DZ |      |       | 4859.248 fti   |
| DX | BAYR | NVA37 | 13917.376 fti  |
| DY |      |       | 6150.107 fti   |
| DZ |      |       | 4859.245 fti   |
| DX | BAYR | NVA37 | 13917.359 fti  |
| DY |      |       | 6150.136 fti   |
| DZ |      |       | 4859.253 fti   |
| DX | BAYR | NVA37 | 13917.358 fti  |
| DY |      |       | 6150.129 fti   |
| DZ |      |       | 4859.257 fti   |
| DX | BAYR | NVA37 | 13917.360 fti  |
| DY |      |       | 6150.118 fti   |
| DZ |      |       | 4859.245 fti   |
| DX | BAYR | NVA37 | 13917.365 fti  |
| DY |      |       | 6150.114 fti   |
| DZ |      |       | 4859.251 fti   |
| DX | BAYR | NVA35 | -44085.293 fti |
| DY |      |       | 14958.040 fti  |
| DZ |      |       | 20607.592 fti  |
| DX | BAYR | NVA35 | -44085.288 fti |
| DY |      |       | 14958.042 fti  |
| DZ |      |       | 20607.601 fti  |
| DX | BAYR | NVA35 | -44085.264 fti |
| DY |      |       | 14958.046 fti  |
| DZ |      |       | 20607.596 fti  |
| DX | BAYR | NVA35 | -44085.261 fti |
| DY |      |       | 14958.034 fti  |
| DZ |      |       | 20607.587 fti  |
| DX | BAYR | NVA35 | -44085.278 fti |
| DY |      |       | 14958.020 fti  |
| DZ |      |       | 20607.611 fti  |
| DX | BAYR | NVA35 | -44085.282 fti |

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| DZ |      |       | 14958.057 fti  |
| DX | BAYR | NVA35 | 20607.605 fti  |
| DY |      |       | -44085.275 fti |
| DZ |      |       | 14958.016 fti  |
| DX | BAYR | NVA35 | 20607.593 fti  |
| DY |      |       | -44085.274 fti |
| DZ |      |       | 14958.008 fti  |
| DX | BAYR | NVA33 | 20607.595 fti  |
| DY |      |       | -55595.865 fti |
| DZ |      |       | 15569.900 fti  |
| DX | BAYR | NVA33 | 22547.357 fti  |
| DY |      |       | -55595.868 fti |
| DZ |      |       | 15569.897 fti  |
| DX | BAYR | NVA33 | 22547.357 fti  |
| DY |      |       | -55595.857 fti |
| DZ |      |       | 15569.857 fti  |
| DX | BAYR | NVA33 | 22547.311 fti  |
| DY |      |       | -55595.855 fti |
| DZ |      |       | 15569.872 fti  |
| DX | BAYR | NVA33 | 22547.289 fti  |
| DY |      |       | -55595.880 fti |
| DZ |      |       | 15569.930 fti  |
| DX | BAYR | NVA33 | 22547.318 fti  |
| DY |      |       | -55595.878 fti |
| DZ |      |       | 15569.931 fti  |
| DX | BAYR | NVA33 | 22547.327 fti  |
| DY |      |       | -55595.836 fti |
| DZ |      |       | 15569.935 fti  |
| DX | BAYR | NVA33 | 22547.322 fti  |
| DY |      |       | -55595.839 fti |
| DZ |      |       | 15569.928 fti  |
| DX | BAYR | NVA31 | 22547.317 fti  |
| DY |      |       | -7522.371 fti  |
| DZ |      |       | -11092.391 fti |
| DX | BAYR | NVA31 | -10800.555 fti |
| DY |      |       | -7522.367 fti  |
| DZ |      |       | -11092.396 fti |
| DX | BAYR | NVA31 | -10800.555 fti |
| DY |      |       | -7522.379 fti  |
| DZ |      |       | -11092.390 fti |
| DX | BAYR | NVA31 | -10800.559 fti |
| DY |      |       | -7522.388 fti  |
| DZ |      |       | -11092.382 fti |
| DX | BAYR | NVA31 | -10800.563 fti |
| DY |      |       | -7522.408 fti  |
| DZ |      |       | -11092.345 fti |
| DX | BAYR | NVA31 | -10800.542 fti |
| DY |      |       | -7522.408 fti  |
| DZ |      |       | -11092.351 fti |
| DX | BAYR | NVA31 | -10800.538 fti |
| DY |      |       | -7522.403 fti  |
| DZ |      |       | -11092.356 fti |
| DX | BAYR | NVA31 | -10800.556 fti |
| DY |      |       | -7522.403 fti  |
| DZ |      |       | -11092.359 fti |
| DX | BAYR | NVA29 | -10800.567 fti |
| DY |      |       | -20909.692 fti |
| DZ |      |       | -10073.037 fti |
| DX | BAYR | NVA29 | -8235.779 fti  |
| DY |      |       | -20909.689 fti |
| DZ |      |       | -10073.028 fti |
| DX | BAYR | NVA29 | -8235.780 fti  |
| DY |      |       | -20909.663 fti |
| DZ |      |       | -10073.031 fti |
| DX | BAYR | NVA29 | -8235.802 fti  |



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|    | BAYR | NVA29 | -20909.667 fti |
| DY |      |       | -10073.026 fti |
| DZ |      |       | -8235.801 fti  |
| DX | BAYR | NVA29 | -20909.688 fti |
| DY |      |       | -10073.041 fti |
| DZ |      |       | -8235.774 fti  |
| DX | BAYR | NVA29 | -20909.682 fti |
| DY |      |       | -10073.034 fti |
| DZ |      |       | -8235.767 fti  |
| DX | BAYR | NVA29 | -20909.671 fti |
| DY |      |       | -10073.057 fti |
| DZ |      |       | -8235.778 fti  |
| DX | BAYR | NVA29 | -20909.672 fti |
| DY |      |       | -10073.057 fti |
| DZ |      |       | -8235.774 fti  |
| DX | BAYR | NVA27 | -22555.790 fti |
| DY |      |       | 4972.548 fti   |
| DZ |      |       | 7729.925 fti   |
| DX | BAYR | NVA27 | -22555.789 fti |
| DY |      |       | 4972.538 fti   |
| DZ |      |       | 7729.928 fti   |
| DX | BAYR | NVA27 | -22555.776 fti |
| DY |      |       | 4972.545 fti   |
| DZ |      |       | 7729.922 fti   |
| DX | BAYR | NVA27 | -22555.776 fti |
| DY |      |       | 4972.544 fti   |
| DZ |      |       | 7729.918 fti   |
| DX | BAYR | NVA27 | -22555.808 fti |
| DY |      |       | 4972.564 fti   |
| DZ |      |       | 7729.937 fti   |
| DX | BAYR | NVA27 | -22555.808 fti |
| DY |      |       | 4972.564 fti   |
| DZ |      |       | 7729.938 fti   |
| DX | BAYR | NVA27 | -22555.778 fti |
| DY |      |       | 4972.544 fti   |
| DZ |      |       | 7729.931 fti   |
| DX | BAYR | NVA27 | -22555.781 fti |
| DY |      |       | 4972.540 fti   |
| DZ |      |       | 7729.931 fti   |
| DX | BAYR | NVA26 | -31923.059 fti |
| DY |      |       | -1778.192 fti  |
| DZ |      |       | 1711.106 fti   |
| DX | BAYR | NVA26 | -31923.056 fti |
| DY |      |       | -1778.193 fti  |
| DZ |      |       | 1711.108 fti   |
| DX | BAYR | NVA26 | -31923.045 fti |
| DY |      |       | -1778.196 fti  |
| DZ |      |       | 1711.102 fti   |
| DX | BAYR | NVA26 | -31923.061 fti |
| DY |      |       | -1778.202 fti  |
| DZ |      |       | 1711.098 fti   |
| DX | BAYR | NVA26 | -31923.041 fti |
| DY |      |       | -1778.209 fti  |
| DZ |      |       | 1711.080 fti   |
| DX | BAYR | NVA26 | -31923.042 fti |
| DY |      |       | -1778.190 fti  |
| DZ |      |       | 1711.069 fti   |
| DX | BAYR | NVA26 | -31923.045 fti |
| DY |      |       | -1778.172 fti  |
| DZ |      |       | 1711.099 fti   |
| DX | BAYR | NVA26 | -31923.051 fti |
| DY |      |       | -1778.182 fti  |
| DZ |      |       | 1711.111 fti   |
| DX | BAYR | NVA24 | -7396.233 fti  |
| DY |      |       | 6805.448 fti   |

|    |      |       |                |
|----|------|-------|----------------|
|    |      |       | 7942.753 fti   |
| DX | BAYR | NVA24 | -7396.231 fti  |
| DY |      |       | 6805.462 fti   |
| DZ |      |       | 7942.733 fti   |
| DX | BAYR | NVA24 | -7396.215 fti  |
| DY |      |       | 6805.469 fti   |
| DZ |      |       | 7942.694 fti   |
| DX | BAYR | NVA24 | -7396.209 fti  |
| DY |      |       | 6805.477 fti   |
| DZ |      |       | 7942.691 fti   |
| DX | BAYR | NVA24 | -7396.236 fti  |
| DY |      |       | 6805.469 fti   |
| DZ |      |       | 7942.701 fti   |
| DX | BAYR | NVA24 | -7396.243 fti  |
| DY |      |       | 6805.469 fti   |
| DZ |      |       | 7942.699 fti   |
| DX | BAYR | NVA24 | -7396.238 fti  |
| DY |      |       | 6805.447 fti   |
| DZ |      |       | 7942.692 fti   |
| DX | BAYR | NVA24 | -7396.236 fti  |
| DY |      |       | 6805.446 fti   |
| DZ |      |       | 7942.709 fti   |
| DX | BAYR | NVA21 | 15450.901 fti  |
| DY |      |       | 18158.175 fti  |
| DZ |      |       | 17272.602 fti  |
| DX | BAYR | NVA21 | 15450.902 fti  |
| DY |      |       | 18158.178 fti  |
| DZ |      |       | 17272.609 fti  |
| DX | BAYR | NVA21 | 15450.891 fti  |
| DY |      |       | 18158.198 fti  |
| DZ |      |       | 17272.612 fti  |
| DX | BAYR | NVA21 | 15450.894 fti  |
| DY |      |       | 18158.189 fti  |
| DZ |      |       | 17272.621 fti  |
| DX | BAYR | NVA21 | 15450.880 fti  |
| DY |      |       | 18158.228 fti  |
| DZ |      |       | 17272.627 fti  |
| DX | BAYR | NVA21 | 15450.880 fti  |
| DY |      |       | 18158.224 fti  |
| DZ |      |       | 17272.633 fti  |
| DX | BAYR | NVA21 | 15450.882 fti  |
| DY |      |       | 18158.225 fti  |
| DZ |      |       | 17272.614 fti  |
| DX | BAYR | NVA21 | 15450.883 fti  |
| DY |      |       | 18158.231 fti  |
| DZ |      |       | 17272.610 fti  |
| DX | BAYR | NVA20 | -11949.608 fti |
| DY |      |       | -5293.254 fti  |
| DZ |      |       | -4241.328 fti  |
| DX | BAYR | NVA20 | -11949.614 fti |
| DY |      |       | -5293.243 fti  |
| DZ |      |       | -4241.326 fti  |
| DX | BAYR | NVA20 | -11949.601 fti |
| DY |      |       | -5293.235 fti  |
| DZ |      |       | -4241.357 fti  |
| DX | BAYR | NVA20 | -11949.604 fti |
| DY |      |       | -5293.219 fti  |
| DZ |      |       | -4241.359 fti  |
| DX | BAYR | NVA20 | -11949.581 fti |
| DY |      |       | -5293.184 fti  |
| DZ |      |       | -4241.386 fti  |
| DX | BAYR | NVA20 | -11949.575 fti |
| DY |      |       | -5293.209 fti  |
| DZ |      |       | -4241.367 fti  |
| DX | BAYR | NVA20 | -11949.581 fti |

|    |         |       |                |
|----|---------|-------|----------------|
| DZ |         |       | -5293.211 fti  |
| DX | BAYR    | NVA20 | -4241.366 fti  |
| DY |         |       | -11949.586 fti |
| DZ |         |       | -5293.209 fti  |
| DX | BAYR    | NVA1  | -4241.372 fti  |
| DY |         |       | -11974.586 fti |
| DZ |         |       | -5046.819 fti  |
| DX | BAYR    | NVA1  | -3979.336 fti  |
| DY |         |       | -11974.591 fti |
| DZ |         |       | -5046.834 fti  |
| DX | BAYR    | NVA1  | -3979.308 fti  |
| DY |         |       | -11974.623 fti |
| DZ |         |       | -5046.838 fti  |
| DX | BAYR    | NVA1  | -3979.360 fti  |
| DY |         |       | -11974.624 fti |
| DZ |         |       | -5046.823 fti  |
| DX | BAYR    | NVA1  | -3979.392 fti  |
| DY |         |       | -11974.598 fti |
| DZ |         |       | -5046.862 fti  |
| DX | BAYR    | NVA1  | -3979.322 fti  |
| DY |         |       | -11974.602 fti |
| DZ |         |       | -5046.848 fti  |
| DX | BAYR    | NVA1  | -3979.321 fti  |
| DY |         |       | -11974.608 fti |
| DZ |         |       | -5046.835 fti  |
| DX | BAYR    | NVA1  | -3979.324 fti  |
| DY |         |       | -11974.608 fti |
| DZ |         |       | -5046.838 fti  |
| DX | MIDLAND | NVA34 | -3979.315 fti  |
| DY |         |       | 21418.844 fti  |
| DZ |         |       | -9637.284 fti  |
| DX | MIDLAND | NVA34 | -12447.591 fti |
| DY |         |       | 21418.843 fti  |
| DZ |         |       | -9637.283 fti  |
| DX | MIDLAND | NVA34 | -12447.585 fti |
| DY |         |       | 21418.831 fti  |
| DZ |         |       | -9637.258 fti  |
| DX | MIDLAND | NVA34 | -12447.557 fti |
| DY |         |       | 21418.831 fti  |
| DZ |         |       | -9637.242 fti  |
| DX | MIDLAND | NVA34 | -12447.562 fti |
| DY |         |       | 21418.837 fti  |
| DZ |         |       | -9637.231 fti  |
| DX | MIDLAND | NVA34 | -12447.578 fti |
| DY |         |       | 21418.835 fti  |
| DZ |         |       | -9637.237 fti  |
| DX | MIDLAND | NVA34 | -12447.578 fti |
| DY |         |       | 21418.852 fti  |
| DZ |         |       | -9637.249 fti  |
| DX | MIDLAND | NVA34 | -12447.572 fti |
| DY |         |       | 21418.852 fti  |
| DZ |         |       | -9637.252 fti  |
| DX | VASSAR  | VVA12 | -12447.557 fti |
| DY |         |       | -35931.407 fti |
| DZ |         |       | 3456.117 fti   |
| DX | VASSAR  | VVA12 | 7733.944 fti   |
| DY |         |       | -35931.408 fti |
| DZ |         |       | 3456.132 fti   |
| DX | VASSAR  | VVA12 | 7733.926 fti   |
| DY |         |       | -35931.406 fti |
| DZ |         |       | 3456.131 fti   |
| DX | VASSAR  | VVA12 | 7733.920 fti   |
| DY |         |       | -35931.400 fti |
| DZ |         |       | 3456.135 fti   |
| DX | VASSAR  | VVA12 | 7733.916 fti   |

|    |           |       |                |
|----|-----------|-------|----------------|
|    | VASSAR    | VVA12 | -35931.393 fti |
| DY |           |       | 3456.090 fti   |
| DZ |           |       | 7733.992 fti   |
| DX | VASSAR    | VVA12 | -35931.397 fti |
| DY |           |       | 3456.095 fti   |
| DZ |           |       | 7733.992 fti   |
| DX | VASSAR    | VVA12 | -35931.403 fti |
| DY |           |       | 3456.109 fti   |
| DZ |           |       | 7733.993 fti   |
| DX | VASSAR    | VVA12 | -35931.405 fti |
| DY |           |       | 3456.114 fti   |
| DZ |           |       | 7733.993 fti   |
| DX | CHESANING | VVA25 | -60487.315 fti |
| DY |           |       | 3740.938 fti   |
| DZ |           |       | 10420.681 fti  |
| DX | CHESANING | VVA25 | -60487.307 fti |
| DY |           |       | 3740.955 fti   |
| DZ |           |       | 10420.685 fti  |
| DX | CHESANING | VVA25 | -60487.312 fti |
| DY |           |       | 3740.929 fti   |
| DZ |           |       | 10420.639 fti  |
| DX | CHESANING | VVA25 | -60487.306 fti |
| DY |           |       | 3740.929 fti   |
| DZ |           |       | 10420.643 fti  |
| DX | CHESANING | VVA25 | -60487.314 fti |
| DY |           |       | 3740.916 fti   |
| DZ |           |       | 10420.694 fti  |
| DX | CHESANING | VVA25 | -60487.312 fti |
| DY |           |       | 3740.912 fti   |
| DZ |           |       | 10420.708 fti  |
| DX | CHESANING | VVA25 | -60487.309 fti |
| DY |           |       | 3740.896 fti   |
| DZ |           |       | 10420.688 fti  |
| DX | CHESANING | VVA25 | -60487.325 fti |
| DY |           |       | 3740.914 fti   |
| DZ |           |       | 10420.666 fti  |
| DX | CHESANING | NVA40 | -33058.054 fti |
| DY |           |       | -4110.721 fti  |
| DZ |           |       | -782.403 fti   |
| DX | CHESANING | NVA40 | -33058.051 fti |
| DY |           |       | -4110.726 fti  |
| DZ |           |       | -782.406 fti   |
| DX | CHESANING | NVA40 | -33058.044 fti |
| DY |           |       | -4110.723 fti  |
| DZ |           |       | -782.408 fti   |
| DX | CHESANING | NVA40 | -33058.049 fti |
| DY |           |       | -4110.722 fti  |
| DZ |           |       | -782.417 fti   |
| DX | CHESANING | NVA40 | -33058.056 fti |
| DY |           |       | -4110.728 fti  |
| DZ |           |       | -782.417 fti   |
| DX | CHESANING | NVA40 | -33058.048 fti |
| DY |           |       | -4110.776 fti  |
| DZ |           |       | -782.388 fti   |
| DX | CHESANING | NVA40 | -33058.040 fti |
| DY |           |       | -4110.773 fti  |
| DZ |           |       | -782.381 fti   |
| DX | CHESANING | NVA40 | -33058.051 fti |
| DY |           |       | -4110.755 fti  |
| DZ |           |       | -782.399 fti   |
| DX | CHESANING | NVA40 | -33058.056 fti |
| DY |           |       | -4110.759 fti  |
| DZ |           |       | -782.416 fti   |
| DX | BAYR      | VVA10 | -48429.570 fti |
| DY |           |       | 3610.180 fti   |

|    |      |       |                |
|----|------|-------|----------------|
| DX | BAYR | VVA10 | 9180.543 fti   |
| DY |      |       | -48429.569 fti |
| DZ |      |       | 3610.165 fti   |
| DX | BAYR | VVA10 | 9180.539 fti   |
| DY |      |       | -48429.569 fti |
| DZ |      |       | 3610.180 fti   |
| DX | BAYR | VVA10 | 9180.549 fti   |
| DY |      |       | -48429.581 fti |
| DZ |      |       | 3610.208 fti   |
| DX | BAYR | VVA10 | 9180.570 fti   |
| DY |      |       | -48429.581 fti |
| DZ |      |       | 3610.213 fti   |
| DX | BAYR | VVA10 | 9180.561 fti   |
| DY |      |       | -48429.573 fti |
| DZ |      |       | 3610.190 fti   |
| DX | BAYR | VVA10 | 9180.615 fti   |
| DY |      |       | -48429.576 fti |
| DZ |      |       | 3610.173 fti   |
| DX | BAYR | VVA10 | 9180.620 fti   |
| DY |      |       | -48429.584 fti |
| DZ |      |       | 3610.139 fti   |
| DX | BAYR | VVA10 | 9180.565 fti   |
| DY |      |       | -48429.590 fti |
| DZ |      |       | 3610.173 fti   |
| DX | BAYR | VVA10 | 9180.544 fti   |

#### Standard deviations

|    | Station   | Target | Sd. abs / Cor | Sd. rel / Cor | Sd. tot / Cor |
|----|-----------|--------|---------------|---------------|---------------|
| DX | VVA25     | NVA40  | 0.016 fti     | 1.0 ppm       | 0.049 fti     |
| DY |           |        | 0.016 fti     | 1.0 ppm       | 0.049 fti     |
| DZ |           |        | 0.016 fti     | 1.0 ppm       | 0.049 fti     |
| DX | HEMLOCK   | VA15   | 0.016 fti     | 1.0 ppm       | 0.045 fti     |
| DY |           |        | 0.016 fti     | 1.0 ppm       | 0.045 fti     |
| DZ |           |        | 0.016 fti     | 1.0 ppm       | 0.045 fti     |
| DX | CHESANING | VVA24  | 0.016 fti     | 1.0 ppm       | 0.068 fti     |
| DY |           |        | 0.016 fti     | 1.0 ppm       | 0.068 fti     |
| DZ |           |        | 0.016 fti     | 1.0 ppm       | 0.068 fti     |
| DX | CHESANING | VVA24  | 0.016 fti     | 1.0 ppm       | 0.068 fti     |
| DY |           |        | 0.016 fti     | 1.0 ppm       | 0.068 fti     |
| DZ |           |        | 0.016 fti     | 1.0 ppm       | 0.068 fti     |
| DX | CHESANING | VVA24  | 0.016 fti     | 1.0 ppm       | 0.068 fti     |
| DY |           |        | 0.016 fti     | 1.0 ppm       | 0.068 fti     |
| DZ |           |        | 0.016 fti     | 1.0 ppm       | 0.068 fti     |
| DX | CHESANING | VVA24  | 0.016 fti     | 1.0 ppm       | 0.068 fti     |
| DY |           |        | 0.016 fti     | 1.0 ppm       | 0.068 fti     |
| DZ |           |        | 0.016 fti     | 1.0 ppm       | 0.068 fti     |
| DX | CHESANING | VVA22  | 0.016 fti     | 1.0 ppm       | 0.069 fti     |
| DY |           |        | 0.016 fti     | 1.0 ppm       | 0.069 fti     |
| DZ |           |        | 0.016 fti     | 1.0 ppm       | 0.069 fti     |
| DX | CHESANING | VVA22  | 0.016 fti     | 1.0 ppm       | 0.069 fti     |
| DY |           |        | 0.016 fti     | 1.0 ppm       | 0.069 fti     |
| DZ |           |        | 0.016 fti     | 1.0 ppm       | 0.069 fti     |
| DX | CHESANING | VVA22  | 0.016 fti     | 1.0 ppm       | 0.069 fti     |
| DY |           |        | 0.016 fti     | 1.0 ppm       | 0.069 fti     |
| DZ |           |        | 0.016 fti     | 1.0 ppm       | 0.069 fti     |
| DX | CHESANING | VVA22  | 0.016 fti     | 1.0 ppm       | 0.069 fti     |
| DY |           |        | 0.016 fti     | 1.0 ppm       | 0.069 fti     |
| DZ |           |        | 0.016 fti     | 1.0 ppm       | 0.069 fti     |
| DX | CHESANING | NVA4   | 0.016 fti     | 1.0 ppm       | 0.060 fti     |
| DY |           |        | 0.016 fti     | 1.0 ppm       | 0.060 fti     |
| DZ |           |        | 0.016 fti     | 1.0 ppm       | 0.060 fti     |
| DX | CHESANING | NVA4   | 0.016 fti     | 1.0 ppm       | 0.060 fti     |
| DY |           |        | 0.016 fti     | 1.0 ppm       | 0.060 fti     |
| DZ |           |        | 0.016 fti     | 1.0 ppm       | 0.060 fti     |

























































|    |           |       |           |         |           |
|----|-----------|-------|-----------|---------|-----------|
|    |           |       | 0.016 fti | 1.0 ppm | 0.052 fti |
| DX | CHESANING | NVA40 | 0.016 fti | 1.0 ppm | 0.052 fti |
| DY |           |       | 0.016 fti | 1.0 ppm | 0.052 fti |
| DZ |           |       | 0.016 fti | 1.0 ppm | 0.052 fti |
| DX | BAYR      | VVA10 | 0.016 fti | 1.0 ppm | 0.067 fti |
| DY |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DZ |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DX | BAYR      | VVA10 | 0.016 fti | 1.0 ppm | 0.067 fti |
| DY |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DZ |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DX | BAYR      | VVA10 | 0.016 fti | 1.0 ppm | 0.067 fti |
| DY |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DZ |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DX | BAYR      | VVA10 | 0.016 fti | 1.0 ppm | 0.067 fti |
| DY |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DZ |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DX | BAYR      | VVA10 | 0.016 fti | 1.0 ppm | 0.067 fti |
| DY |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DZ |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DX | BAYR      | VVA10 | 0.016 fti | 1.0 ppm | 0.067 fti |
| DY |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DZ |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DX | BAYR      | VVA10 | 0.016 fti | 1.0 ppm | 0.067 fti |
| DY |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DZ |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DX | BAYR      | VVA10 | 0.016 fti | 1.0 ppm | 0.067 fti |
| DY |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DZ |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DX | BAYR      | VVA10 | 0.016 fti | 1.0 ppm | 0.067 fti |
| DY |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |
| DZ |           |       | 0.016 fti | 1.0 ppm | 0.067 fti |

## Adjustment Results

### Coordinates

| Station   |           | Coordinate          | Corr       | Sd        |       |
|-----------|-----------|---------------------|------------|-----------|-------|
| BAYR      | Latitude  | 43° 26' 46.39790" N | 0.000 fti  | -         | fixed |
|           | Longitude | 83° 53' 30.20907" W | 0.000 fti  | -         | fixed |
|           | Height    | 491.962 fti         | 0.000 fti  | -         | fixed |
| BIRCH RUN | Latitude  | 43° 15' 02.80389" N | 0.000 fti  | -         | fixed |
|           | Longitude | 83° 52' 02.10185" W | 0.000 fti  | -         | fixed |
|           | Height    | 528.494 fti         | 0.000 fti  | -         | fixed |
| CHESANING | Latitude  | 43° 11' 23.49671" N | 0.000 fti  | -         | fixed |
|           | Longitude | 84° 07' 21.97723" W | 0.000 fti  | -         | fixed |
|           | Height    | 545.210 fti         | 0.000 fti  | -         | fixed |
| HEMLOCK   | Latitude  | 43° 24' 41.08302" N | 0.000 fti  | -         | fixed |
|           | Longitude | 84° 14' 14.48462" W | 0.000 fti  | -         | fixed |
|           | Height    | 562.474 fti         | 0.000 fti  | -         | fixed |
| MIBY      | Latitude  | 43° 37' 23.34781" N | 0.000 fti  | -         | fixed |
|           | Longitude | 83° 56' 49.35183" W | 0.000 fti  | -         | fixed |
|           | Height    | 502.030 fti         | 0.000 fti  | -         | fixed |
| MIDLAND   | Latitude  | 43° 36' 57.03703" N | 0.000 fti  | -         | fixed |
|           | Longitude | 84° 14' 41.57601" W | 0.000 fti  | -         | fixed |
|           | Height    | 584.658 fti         | 0.000 fti  | -         | fixed |
| NVA1      | Latitude  | 43° 25' 52.40272" N | -0.006 fti | 0.005 fti |       |
|           | Longitude | 83° 56' 18.84086" W | -0.004 fti | 0.005 fti |       |
|           | Height    | 478.103 fti         | -0.011 fti | 0.005 fti |       |
| NVA10     | Latitude  | 43° 27' 03.24586" N | -0.009 fti | 0.011 fti |       |
|           | Longitude | 83° 42' 04.92403" W | -0.004 fti | 0.011 fti |       |
|           | Height    | 506.569 fti         | 0.005 fti  | 0.011 fti |       |
| NVA11     | Latitude  | 43° 14' 09.78386" N | 0.000 fti  | 0.004 fti |       |
|           | Longitude | 83° 54' 15.54349" W | 0.000 fti  | 0.004 fti |       |
|           | Height    | 525.954 fti         | 0.000 fti  | 0.004 fti |       |

|       |           |                     |            |           |
|-------|-----------|---------------------|------------|-----------|
| NVA12 | Latitude  | 43° 09' 39.22744" N | -0.001 fti | 0.008 fti |
|       | Longitude | 83° 59' 22.04931" W | 0.002 fti  | 0.008 fti |
|       | Height    | 565.167 fti         | 0.004 fti  | 0.008 fti |
| NVA13 | Latitude  | 43° 07' 56.30591" N | 0.000 fti  | 0.010 fti |
|       | Longitude | 84° 18' 18.72706" W | 0.005 fti  | 0.010 fti |
|       | Height    | 599.890 fti         | -0.003 fti | 0.010 fti |
| NVA14 | Latitude  | 43° 27' 43.98930" N | 0.003 fti  | 0.008 fti |
|       | Longitude | 84° 18' 38.34540" W | 0.000 fti  | 0.008 fti |
|       | Height    | 545.750 fti         | 0.001 fti  | 0.008 fti |
| NVA15 | Latitude  | 43° 17' 15.73182" N | 0.000 fti  | 0.010 fti |
|       | Longitude | 84° 19' 45.77049" W | 0.001 fti  | 0.010 fti |
|       | Height    | 543.263 fti         | -0.001 fti | 0.010 fti |
| NVA16 | Latitude  | 43° 11' 08.94924" N | -0.001 fti | 0.004 fti |
|       | Longitude | 84° 10' 03.30346" W | 0.000 fti  | 0.004 fti |
|       | Height    | 543.109 fti         | 0.001 fti  | 0.004 fti |
| NVA17 | Latitude  | 43° 13' 47.85370" N | 0.003 fti  | 0.008 fti |
|       | Longitude | 84° 15' 52.15454" W | -0.003 fti | 0.008 fti |
|       | Height    | 509.810 fti         | 0.019 fti  | 0.008 fti |
| NVA18 | Latitude  | 43° 14' 54.92935" N | 0.001 fti  | 0.007 fti |
|       | Longitude | 84° 01' 56.54087" W | 0.008 fti  | 0.007 fti |
|       | Height    | 482.215 fti         | -0.004 fti | 0.007 fti |
| NVA19 | Latitude  | 43° 28' 55.29929" N | 0.001 fti  | 0.008 fti |
|       | Longitude | 84° 09' 41.85164" W | 0.000 fti  | 0.008 fti |
|       | Height    | 507.212 fti         | 0.000 fti  | 0.008 fti |
| NVA2  | Latitude  | 43° 11' 07.93496" N | 0.002 fti  | 0.003 fti |
|       | Longitude | 84° 07' 05.54867" W | 0.002 fti  | 0.003 fti |
|       | Height    | 528.197 fti         | 0.000 fti  | 0.003 fti |
| NVA20 | Latitude  | 43° 25' 48.84201" N | 0.000 fti  | 0.005 fti |
|       | Longitude | 83° 56' 18.85638" W | -0.001 fti | 0.005 fti |
|       | Height    | 477.811 fti         | 0.004 fti  | 0.005 fti |
| NVA21 | Latitude  | 43° 30' 41.63599" N | -0.002 fti | 0.007 fti |
|       | Longitude | 83° 49' 35.51808" W | 0.000 fti  | 0.007 fti |
|       | Height    | 475.875 fti         | 0.000 fti  | 0.007 fti |
| NVA22 | Latitude  | 43° 21' 26.80696" N | 0.000 fti  | 0.007 fti |
|       | Longitude | 83° 52' 47.33519" W | 0.001 fti  | 0.007 fti |
|       | Height    | 483.384 fti         | 0.000 fti  | 0.007 fti |
| NVA23 | Latitude  | 43° 25' 00.47467" N | 0.000 fti  | 0.009 fti |
|       | Longitude | 84° 04' 06.37415" W | 0.000 fti  | 0.009 fti |
|       | Height    | 492.202 fti         | -0.005 fti | 0.009 fti |
| NVA24 | Latitude  | 43° 28' 34.64175" N | -0.002 fti | 0.004 fti |
|       | Longitude | 83° 55' 00.12437" W | 0.000 fti  | 0.004 fti |
|       | Height    | 473.637 fti         | 0.001 fti  | 0.004 fti |
| NVA25 | Latitude  | 43° 30' 31.39551" N | 0.000 fti  | 0.007 fti |
|       | Longitude | 83° 58' 01.25225" W | 0.000 fti  | 0.007 fti |
|       | Height    | 484.999 fti         | 0.001 fti  | 0.007 fti |
| NVA26 | Latitude  | 43° 27' 09.50119" N | 0.001 fti  | 0.007 fti |
|       | Longitude | 84° 00' 43.07913" W | -0.001 fti | 0.007 fti |
|       | Height    | 510.581 fti         | 0.002 fti  | 0.007 fti |
| NVA27 | Latitude  | 43° 28' 31.59649" N | 0.000 fti  | 0.006 fti |
|       | Longitude | 83° 58' 27.18744" W | 0.000 fti  | 0.006 fti |
|       | Height    | 489.588 fti         | 0.000 fti  | 0.006 fti |
| NVA28 | Latitude  | 43° 19' 18.92146" N | -0.001 fti | 0.008 fti |
|       | Longitude | 83° 58' 06.46237" W | 0.000 fti  | 0.008 fti |
|       | Height    | 482.071 fti         | 0.000 fti  | 0.008 fti |
| NVA29 | Latitude  | 43° 24' 54.32574" N | 0.000 fti  | 0.006 fti |
|       | Longitude | 83° 58' 26.40721" W | 0.000 fti  | 0.006 fti |
|       | Height    | 499.263 fti         | 0.000 fti  | 0.006 fti |
| NVA3  | Latitude  | 43° 08' 34.67422" N | 0.001 fti  | 0.006 fti |
|       | Longitude | 84° 10' 06.10068" W | -0.002 fti | 0.006 fti |
|       | Height    | 570.208 fti         | 0.000 fti  | 0.006 fti |
| NVA30 | Latitude  | 43° 26' 02.24422" N | 0.005 fti  | 0.007 fti |
|       | Longitude | 84° 10' 13.18352" W | 0.001 fti  | 0.007 fti |
|       | Height    | 510.362 fti         | 0.011 fti  | 0.007 fti |
| NVA31 | Latitude  | 43° 24' 19.46705" N | 0.001 fti  | 0.005 fti |
|       | Longitude | 83° 55' 27.51628" W | 0.002 fti  | 0.005 fti |



|        |           |                     |            |           |
|--------|-----------|---------------------|------------|-----------|
| NVA32  | Height    | 498.222 fti         | 0.002 fti  | 0.005 fti |
|        | Latitude  | 43° 20' 02.79915" N | 0.002 fti  | 0.006 fti |
|        | Longitude | 84° 13' 47.85784" W | 0.000 fti  | 0.006 fti |
| NVA33  | Height    | 515.637 fti         | 0.003 fti  | 0.006 fti |
|        | Latitude  | 43° 31' 52.74428" N | 0.001 fti  | 0.011 fti |
|        | Longitude | 84° 05' 38.09449" W | -0.001 fti | 0.011 fti |
| NVA34  | Height    | 553.989 fti         | 0.001 fti  | 0.011 fti |
|        | Latitude  | 43° 34' 07.98879" N | -0.002 fti | 0.006 fti |
|        | Longitude | 84° 10' 05.24811" W | 0.000 fti  | 0.006 fti |
| NVA35  | Height    | 511.958 fti         | 0.002 fti  | 0.006 fti |
|        | Latitude  | 43° 31' 26.63022" N | 0.000 fti  | 0.010 fti |
|        | Longitude | 84° 03' 03.55230" W | 0.001 fti  | 0.010 fti |
| NVA36  | Height    | 521.213 fti         | 0.002 fti  | 0.010 fti |
|        | Latitude  | 43° 28' 44.20815" N | -0.009 fti | 0.011 fti |
|        | Longitude | 83° 41' 55.51595" W | -0.003 fti | 0.011 fti |
| NVA37  | Height    | 493.754 fti         | 0.004 fti  | 0.011 fti |
|        | Latitude  | 43° 27' 52.66719" N | 0.000 fti  | 0.005 fti |
|        | Longitude | 83° 50' 13.70000" W | 0.003 fti  | 0.005 fti |
| NVA38  | Height    | 475.049 fti         | 0.000 fti  | 0.005 fti |
|        | Latitude  | 43° 22' 46.17673" N | -0.002 fti | 0.010 fti |
|        | Longitude | 83° 46' 43.59747" W | -0.002 fti | 0.010 fti |
| NVA39  | Height    | 516.488 fti         | 0.004 fti  | 0.010 fti |
|        | Latitude  | 43° 27' 02.72029" N | 0.003 fti  | 0.006 fti |
|        | Longitude | 84° 13' 40.69128" W | 0.001 fti  | 0.006 fti |
| NVA4   | Height    | 525.778 fti         | 0.005 fti  | 0.006 fti |
|        | Latitude  | 43° 18' 14.05341" N | 0.001 fti  | 0.009 fti |
|        | Longitude | 84° 08' 35.57738" W | -0.001 fti | 0.009 fti |
| NVA40  | Height    | 486.875 fti         | 0.000 fti  | 0.009 fti |
|        | Latitude  | 43° 11' 12.85798" N | 0.001 fti  | 0.006 fti |
|        | Longitude | 84° 14' 51.51210" W | 0.001 fti  | 0.006 fti |
| NVA5   | Height    | 549.550 fti         | 0.005 fti  | 0.006 fti |
|        | Latitude  | 43° 15' 03.50917" N | 0.003 fti  | 0.006 fti |
|        | Longitude | 83° 46' 47.06534" W | 0.000 fti  | 0.006 fti |
| NVA6   | Height    | 525.187 fti         | 0.000 fti  | 0.006 fti |
|        | Latitude  | 43° 19' 47.31996" N | 0.000 fti  | 0.009 fti |
|        | Longitude | 83° 44' 24.74722" W | -0.001 fti | 0.009 fti |
| NVA7   | Height    | 511.006 fti         | 0.006 fti  | 0.009 fti |
|        | Latitude  | 43° 24' 53.06873" N | 0.004 fti  | 0.004 fti |
|        | Longitude | 84° 13' 49.41606" W | -0.002 fti | 0.004 fti |
| NVA8   | Height    | 537.808 fti         | 0.005 fti  | 0.004 fti |
|        | Latitude  | 43° 24' 43.73252" N | 0.001 fti  | 0.008 fti |
|        | Longitude | 84° 19' 49.29071" W | 0.004 fti  | 0.008 fti |
| NVA9   | Height    | 559.114 fti         | 0.014 fti  | 0.008 fti |
|        | Latitude  | 43° 31' 27.03026" N | 0.001 fti  | 0.010 fti |
|        | Longitude | 84° 07' 22.71991" W | -0.001 fti | 0.010 fti |
| VA15   | Height    | 507.911 fti         | 0.000 fti  | 0.010 fti |
|        | Latitude  | 43° 20' 56.26363" N | 0.000 fti  | 0.018 fti |
|        | Longitude | 84° 11' 23.24004" W | 0.000 fti  | 0.018 fti |
| VASSAR | Height    | 501.102 fti         | 0.000 fti  | 0.018 fti |
|        | Latitude  | 43° 22' 42.97459" N | -0.015 fti | 0.010 fti |
|        | Longitude | 83° 35' 07.24991" W | -0.007 fti | 0.010 fti |
| VVA1   | Height    | 590.764 fti         | 0.009 fti  | 0.010 fti |
|        | Latitude  | 43° 10' 18.82572" N | 0.001 fti  | 0.011 fti |
|        | Longitude | 84° 19' 47.93872" W | -0.008 fti | 0.011 fti |
| VVA10  | Height    | 552.820 fti         | 0.006 fti  | 0.011 fti |
|        | Latitude  | 43° 28' 51.09349" N | 0.001 fti  | 0.009 fti |
|        | Longitude | 84° 04' 18.10695" W | 0.000 fti  | 0.009 fti |
| VVA11  | Height    | 515.914 fti         | -0.001 fti | 0.009 fti |
|        | Latitude  | 43° 28' 46.04230" N | 0.004 fti  | 0.006 fti |
|        | Longitude | 83° 49' 04.08734" W | -0.007 fti | 0.006 fti |
| VVA12  | Height    | 474.452 fti         | 0.001 fti  | 0.006 fti |
|        | Latitude  | 43° 24' 28.74042" N | -0.010 fti | 0.013 fti |
|        | Longitude | 83° 43' 05.71464" W | -0.007 fti | 0.013 fti |
| VVA13  | Height    | 521.040 fti         | 0.018 fti  | 0.013 fti |
|        | Latitude  | 43° 24' 25.79802" N | 0.000 fti  | 0.006 fti |

|       |           |                     |            |           |
|-------|-----------|---------------------|------------|-----------|
|       | Longitude | 83° 49' 02.90717" W | 0.000 fti  | 0.006 fti |
|       | Height    | 493.931 fti         | 0.000 fti  | 0.006 fti |
| VVA14 | Latitude  | 43° 20' 46.77702" N | 0.001 fti  | 0.007 fti |
|       | Longitude | 84° 19' 34.21328" W | -0.001 fti | 0.007 fti |
|       | Height    | 555.521 fti         | 0.011 fti  | 0.007 fti |
| VVA15 | Latitude  | 43° 20' 56.26364" N | 0.002 fti  | 0.007 fti |
|       | Longitude | 84° 11' 23.24008" W | -0.001 fti | 0.007 fti |
|       | Height    | 501.107 fti         | 0.003 fti  | 0.007 fti |
| VVA16 | Latitude  | 43° 19' 18.71133" N | -0.003 fti | 0.006 fti |
|       | Longitude | 83° 51' 19.27035" W | -0.002 fti | 0.006 fti |
|       | Height    | 497.874 fti         | 0.014 fti  | 0.006 fti |
| VVA17 | Latitude  | 43° 15' 51.81343" N | 0.000 fti  | 0.008 fti |
|       | Longitude | 83° 42' 54.93841" W | 0.002 fti  | 0.008 fti |
|       | Height    | 540.187 fti         | 0.002 fti  | 0.008 fti |
| VVA18 | Latitude  | 43° 13' 17.30305" N | 0.001 fti  | 0.009 fti |
|       | Longitude | 83° 42' 32.50305" W | -0.001 fti | 0.009 fti |
|       | Height    | 584.093 fti         | 0.007 fti  | 0.009 fti |
| VVA19 | Latitude  | 43° 13' 15.87837" N | 0.000 fti  | 0.005 fti |
|       | Longitude | 83° 48' 51.50192" W | 0.000 fti  | 0.005 fti |
|       | Height    | 537.653 fti         | -0.002 fti | 0.005 fti |
| VVA2  | Latitude  | 43° 16' 21.12827" N | 0.066 fti  | 0.011 fti |
|       | Longitude | 84° 19' 46.25982" W | -0.018 fti | 0.011 fti |
|       | Height    | 539.062 fti         | -0.070 fti | 0.011 fti |
| VVA20 | Latitude  | 43° 16' 47.99266" N | 0.001 fti  | 0.004 fti |
|       | Longitude | 83° 51' 49.47951" W | -0.001 fti | 0.004 fti |
|       | Height    | 502.826 fti         | 0.000 fti  | 0.004 fti |
| VVA21 | Latitude  | 43° 17' 07.49838" N | 0.006 fti  | 0.006 fti |
|       | Longitude | 83° 56' 02.48599" W | -0.001 fti | 0.006 fti |
|       | Height    | 493.555 fti         | 0.000 fti  | 0.006 fti |
| VVA22 | Latitude  | 43° 17' 31.93794" N | 0.000 fti  | 0.008 fti |
|       | Longitude | 83° 59' 39.98414" W | 0.001 fti  | 0.008 fti |
|       | Height    | 476.581 fti         | 0.001 fti  | 0.008 fti |
| VVA23 | Latitude  | 43° 17' 32.06728" N | 0.001 fti  | 0.008 fti |
|       | Longitude | 84° 03' 33.75083" W | 0.001 fti  | 0.008 fti |
|       | Height    | 473.812 fti         | 0.001 fti  | 0.008 fti |
| VVA24 | Latitude  | 43° 17' 23.50149" N | 0.001 fti  | 0.009 fti |
|       | Longitude | 84° 14' 56.48767" W | 0.000 fti  | 0.009 fti |
|       | Height    | 513.193 fti         | 0.000 fti  | 0.009 fti |
| VVA25 | Latitude  | 43° 13' 44.76583" N | 0.001 fti  | 0.010 fti |
|       | Longitude | 84° 20' 49.49750" W | -0.013 fti | 0.010 fti |
|       | Height    | 538.606 fti         | -0.004 fti | 0.010 fti |
| VVA26 | Latitude  | 43° 13' 49.31094" N | -0.001 fti | 0.005 fti |
|       | Longitude | 84° 09' 31.68971" W | 0.000 fti  | 0.005 fti |
|       | Height    | 506.912 fti         | 0.000 fti  | 0.005 fti |
| VVA27 | Latitude  | 43° 13' 11.39194" N | -0.001 fti | 0.006 fti |
|       | Longitude | 84° 01' 51.07911" W | 0.001 fti  | 0.006 fti |
|       | Height    | 501.091 fti         | 0.001 fti  | 0.006 fti |
| VVA28 | Latitude  | 43° 12' 18.25649" N | -0.001 fti | 0.006 fti |
|       | Longitude | 83° 56' 01.29201" W | -0.001 fti | 0.006 fti |
|       | Height    | 529.906 fti         | 0.004 fti  | 0.006 fti |
| VVA29 | Latitude  | 43° 07' 58.33791" N | 0.002 fti  | 0.009 fti |
|       | Longitude | 83° 55' 45.63864" W | 0.008 fti  | 0.009 fti |
|       | Height    | 563.457 fti         | -0.009 fti | 0.009 fti |
| VVA3  | Latitude  | 43° 21' 55.96769" N | -0.003 fti | 0.007 fti |
|       | Longitude | 83° 51' 55.48917" W | -0.003 fti | 0.007 fti |
|       | Height    | 506.069 fti         | -0.002 fti | 0.007 fti |
| VVA30 | Latitude  | 43° 08' 43.90067" N | 0.000 fti  | 0.006 fti |
|       | Longitude | 84° 03' 01.06612" W | -0.001 fti | 0.006 fti |
|       | Height    | 582.925 fti         | -0.002 fti | 0.006 fti |
| VVA4  | Latitude  | 43° 13' 14.38667" N | 0.001 fti  | 0.005 fti |
|       | Longitude | 83° 55' 30.78800" W | 0.004 fti  | 0.005 fti |
|       | Height    | 529.788 fti         | -0.003 fti | 0.005 fti |
| VVA5  | Latitude  | 43° 31' 35.08705" N | 0.002 fti  | 0.007 fti |
|       | Longitude | 83° 55' 36.27213" W | 0.004 fti  | 0.007 fti |
|       | Height    | 466.505 fti         | 0.004 fti  | 0.007 fti |

|      |           |                     |            |           |
|------|-----------|---------------------|------------|-----------|
|      | Latitude  | 43° 29' 20.08721" N | 0.000 fti  | 0.005 fti |
|      | Longitude | 83° 54' 17.42549" W | -0.001 fti | 0.005 fti |
|      | Height    | 467.463 fti         | -0.001 fti | 0.005 fti |
| VVA7 | Latitude  | 43° 18' 38.19182" N | 0.000 fti  | 0.009 fti |
|      | Longitude | 84° 08' 28.06258" W | -0.001 fti | 0.009 fti |
|      | Height    | 478.072 fti         | -0.001 fti | 0.009 fti |
| VVA8 | Latitude  | 43° 29' 18.48451" N | 0.001 fti  | 0.010 fti |
|      | Longitude | 84° 05' 46.67567" W | 0.000 fti  | 0.010 fti |
|      | Height    | 480.719 fti         | 0.001 fti  | 0.010 fti |
| VVA9 | Latitude  | 43° 31' 25.75952" N | -0.001 fti | 0.009 fti |
|      | Longitude | 84° 02' 04.44777" W | -0.001 fti | 0.009 fti |
|      | Height    | 509.599 fti         | 0.001 fti  | 0.009 fti |

### Observations and Residuals

|           | Station   | Target | Adj obs        | Resid      | Resid (ENH) | Sd        |
|-----------|-----------|--------|----------------|------------|-------------|-----------|
| <b>DX</b> | VVA25     | NVA40  | 27429.282 fti  | 0.043 fti  | 0.042 fti   | 0.011 fti |
| <b>DY</b> |           |        | -7851.671 fti  | -0.012 fti | 0.003 fti   | 0.011 fti |
| <b>DZ</b> |           |        | -11203.071 fti | 0.019 fti  | 0.024 fti   | 0.011 fti |
| <b>DX</b> | HEMLOCK   | VA15   | 14154.471 fti  | 0.000 fti  | 0.000 fti   | 0.018 fti |
| <b>DY</b> |           |        | -14235.769 fti | 0.000 fti  | 0.000 fti   | 0.018 fti |
| <b>DZ</b> |           |        | -16587.055 fti | 0.000 fti  | 0.000 fti   | 0.018 fti |
| <b>DX</b> | CHESANING | VVA24  | -36003.535 fti | 0.008 fti  | 0.007 fti   | 0.009 fti |
| <b>DY</b> |           |        | 21457.179 fti  | -0.007 fti | 0.013 fti   | 0.009 fti |
| <b>DZ</b> |           |        | 26532.106 fti  | 0.025 fti  | 0.022 fti   | 0.009 fti |
| <b>DX</b> | CHESANING | VVA24  | -36003.535 fti | -0.001 fti | -0.001 fti  | 0.009 fti |
| <b>DY</b> |           |        | 21457.179 fti  | -0.002 fti | 0.006 fti   | 0.009 fti |
| <b>DZ</b> |           |        | 26532.106 fti  | 0.011 fti  | 0.009 fti   | 0.009 fti |
| <b>DX</b> | CHESANING | VVA24  | -36003.535 fti | 0.009 fti  | 0.009 fti   | 0.009 fti |
| <b>DY</b> |           |        | 21457.179 fti  | -0.004 fti | -0.004 fti  | 0.009 fti |
| <b>DZ</b> |           |        | 26532.106 fti  | -0.001 fti | 0.003 fti   | 0.009 fti |
| <b>DX</b> | CHESANING | VVA24  | -36003.535 fti | 0.012 fti  | 0.012 fti   | 0.009 fti |
| <b>DY</b> |           |        | 21457.179 fti  | 0.001 fti  | 0.003 fti   | 0.009 fti |
| <b>DZ</b> |           |        | 26532.106 fti  | 0.005 fti  | 0.003 fti   | 0.009 fti |
| <b>DX</b> | CHESANING | VVA22  | 31363.652 fti  | 0.000 fti  | 0.000 fti   | 0.008 fti |
| <b>DY</b> |           |        | 29008.691 fti  | 0.003 fti  | 0.007 fti   | 0.008 fti |
| <b>DZ</b> |           |        | 27128.758 fti  | 0.007 fti  | 0.003 fti   | 0.008 fti |
| <b>DX</b> | CHESANING | VVA22  | 31363.652 fti  | -0.005 fti | -0.005 fti  | 0.008 fti |
| <b>DY</b> |           |        | 29008.691 fti  | 0.003 fti  | 0.012 fti   | 0.008 fti |
| <b>DZ</b> |           |        | 27128.758 fti  | 0.014 fti  | 0.007 fti   | 0.008 fti |
| <b>DX</b> | CHESANING | VVA22  | 31363.652 fti  | -0.004 fti | -0.004 fti  | 0.008 fti |
| <b>DY</b> |           |        | 29008.691 fti  | 0.000 fti  | 0.007 fti   | 0.008 fti |
| <b>DZ</b> |           |        | 27128.758 fti  | 0.010 fti  | 0.006 fti   | 0.008 fti |
| <b>DX</b> | CHESANING | VVA22  | 31363.652 fti  | -0.002 fti | 0.000 fti   | 0.008 fti |
| <b>DY</b> |           |        | 29008.691 fti  | 0.023 fti  | 0.014 fti   | 0.008 fti |
| <b>DZ</b> |           |        | 27128.758 fti  | -0.003 fti | -0.019 fti  | 0.008 fti |
| <b>DX</b> | CHESANING | NVA4   | -8334.659 fti  | -0.005 fti | -0.004 fti  | 0.009 fti |
| <b>DY</b> |           |        | 27817.040 fti  | 0.001 fti  | -0.004 fti  | 0.009 fti |
| <b>DZ</b> |           |        | 30239.321 fti  | -0.007 fti | -0.006 fti  | 0.009 fti |
| <b>DX</b> | CHESANING | NVA4   | -8334.659 fti  | -0.005 fti | -0.005 fti  | 0.009 fti |
| <b>DY</b> |           |        | 27817.040 fti  | 0.004 fti  | 0.000 fti   | 0.009 fti |
| <b>DZ</b> |           |        | 30239.321 fti  | -0.004 fti | -0.006 fti  | 0.009 fti |
| <b>DX</b> | CHESANING | NVA4   | -8334.659 fti  | -0.001 fti | -0.001 fti  | 0.009 fti |
| <b>DY</b> |           |        | 27817.040 fti  | 0.006 fti  | -0.003 fti  | 0.009 fti |
| <b>DZ</b> |           |        | 30239.321 fti  | -0.009 fti | -0.011 fti  | 0.009 fti |
| <b>DX</b> | CHESANING | NVA4   | -8334.659 fti  | 0.007 fti  | 0.006 fti   | 0.009 fti |
| <b>DY</b> |           |        | 27817.040 fti  | -0.009 fti | -0.003 fti  | 0.009 fti |
| <b>DZ</b> |           |        | 30239.321 fti  | 0.005 fti  | 0.010 fti   | 0.009 fti |
| <b>DX</b> | CHESANING | NVA12  | 36122.035 fti  | 0.021 fti  | 0.017 fti   | 0.008 fti |
| <b>DY</b> |           |        | -3516.464 fti  | -0.040 fti | 0.004 fti   | 0.008 fti |
| <b>DZ</b> |           |        | -7685.329 fti  | 0.044 fti  | 0.061 fti   | 0.008 fti |
| <b>DX</b> | CHESANING | NVA12  | 36122.035 fti  | 0.011 fti  | 0.008 fti   | 0.008 fti |
| <b>DY</b> |           |        | -3516.464 fti  | -0.033 fti | -0.003 fti  | 0.008 fti |
| <b>DZ</b> |           |        | -7685.329 fti  | 0.028 fti  | 0.044 fti   | 0.008 fti |
| <b>DX</b> | CHESANING | NVA12  | 36122.035 fti  | -0.008 fti | -0.010 fti  | 0.008 fti |

|    |           |       |                |            |            |           |
|----|-----------|-------|----------------|------------|------------|-----------|
| DY |           |       | -3516.464 fti  | -0.012 fti | -0.008 fti | 0.008 fti |
| DZ |           |       | -7685.329 fti  | -0.001 fti | 0.007 fti  | 0.008 fti |
| DX | CHESANING | NVA12 | 36122.035 fti  | -0.010 fti | -0.010 fti | 0.008 fti |
| DY |           |       | -3516.464 fti  | 0.002 fti  | -0.019 fti | 0.008 fti |
| DZ |           |       | -7685.329 fti  | -0.028 fti | -0.021 fti | 0.008 fti |
| DX | BIRCH RUN | VVA22 | -34785.164 fti | -0.003 fti | -0.004 fti | 0.008 fti |
| DY |           |       | 6748.192 fti   | -0.012 fti | -0.004 fti | 0.008 fti |
| DZ |           |       | 10958.915 fti  | 0.006 fti  | 0.013 fti  | 0.008 fti |
| DX | BIRCH RUN | VVA22 | -34785.164 fti | -0.005 fti | -0.005 fti | 0.008 fti |
| DY |           |       | 6748.192 fti   | 0.006 fti  | 0.003 fti  | 0.008 fti |
| DZ |           |       | 10958.915 fti  | -0.002 fti | -0.006 fti | 0.008 fti |
| DX | BIRCH RUN | VVA22 | -34785.164 fti | 0.007 fti  | 0.006 fti  | 0.008 fti |
| DY |           |       | 6748.192 fti   | -0.010 fti | -0.014 fti | 0.008 fti |
| DZ |           |       | 10958.915 fti  | -0.008 fti | 0.002 fti  | 0.008 fti |
| DX | BIRCH RUN | VVA22 | -34785.164 fti | 0.009 fti  | 0.008 fti  | 0.008 fti |
| DY |           |       | 6748.192 fti   | -0.002 fti | -0.012 fti | 0.008 fti |
| DZ |           |       | 10958.915 fti  | -0.014 fti | -0.008 fti | 0.008 fti |
| DX | BIRCH RUN | NVA6  | 31496.225 fti  | 0.000 fti  | 0.001 fti  | 0.009 fti |
| DY |           |       | 23301.646 fti  | 0.010 fti  | 0.000 fti  | 0.009 fti |
| DZ |           |       | 20956.781 fti  | -0.010 fti | -0.014 fti | 0.009 fti |
| DX | BIRCH RUN | NVA6  | 31496.225 fti  | -0.005 fti | -0.002 fti | 0.009 fti |
| DY |           |       | 23301.646 fti  | 0.030 fti  | 0.010 fti  | 0.009 fti |
| DZ |           |       | 20956.781 fti  | -0.015 fti | -0.033 fti | 0.009 fti |
| DX | BIRCH RUN | NVA6  | 31496.225 fti  | 0.000 fti  | 0.002 fti  | 0.009 fti |
| DY |           |       | 23301.646 fti  | 0.022 fti  | 0.001 fti  | 0.009 fti |
| DZ |           |       | 20956.781 fti  | -0.019 fti | -0.029 fti | 0.009 fti |
| DX | BIRCH RUN | NVA6  | 31496.225 fti  | 0.005 fti  | 0.005 fti  | 0.009 fti |
| DY |           |       | 23301.646 fti  | 0.005 fti  | -0.002 fti | 0.009 fti |
| DZ |           |       | 20956.781 fti  | -0.008 fti | -0.009 fti | 0.009 fti |
| DX | BIRCH RUN | NVA22 | -6175.252 fti  | -0.010 fti | -0.011 fti | 0.007 fti |
| DY |           |       | 26190.645 fti  | -0.006 fti | 0.008 fti  | 0.007 fti |
| DZ |           |       | 28263.620 fti  | 0.016 fti  | 0.014 fti  | 0.007 fti |
| DX | BIRCH RUN | NVA22 | -6175.252 fti  | -0.006 fti | -0.006 fti | 0.007 fti |
| DY |           |       | 26190.645 fti  | -0.007 fti | -0.003 fti | 0.007 fti |
| DZ |           |       | 28263.620 fti  | 0.002 fti  | 0.005 fti  | 0.007 fti |
| DX | BIRCH RUN | NVA22 | -6175.252 fti  | 0.024 fti  | 0.024 fti  | 0.007 fti |
| DY |           |       | 26190.645 fti  | 0.009 fti  | 0.014 fti  | 0.007 fti |
| DZ |           |       | 28263.620 fti  | 0.013 fti  | 0.004 fti  | 0.007 fti |
| DX | BIRCH RUN | NVA22 | -6175.252 fti  | 0.024 fti  | 0.024 fti  | 0.007 fti |
| DY |           |       | 26190.645 fti  | 0.000 fti  | 0.009 fti  | 0.007 fti |
| DZ |           |       | 28263.620 fti  | 0.014 fti  | 0.011 fti  | 0.007 fti |
| DX | BIRCH RUN | NVA12 | -30026.781 fti | -0.003 fti | 0.001 fti  | 0.008 fti |
| DY |           |       | -25776.963 fti | 0.036 fti  | 0.019 fti  | 0.008 fti |
| DZ |           |       | -23855.172 fti | -0.009 fti | -0.033 fti | 0.008 fti |
| DX | BIRCH RUN | NVA12 | -30026.781 fti | 0.000 fti  | 0.003 fti  | 0.008 fti |
| DY |           |       | -25776.963 fti | 0.028 fti  | 0.008 fti  | 0.008 fti |
| DZ |           |       | -23855.172 fti | -0.015 fti | -0.030 fti | 0.008 fti |
| DX | BIRCH RUN | NVA12 | -30026.781 fti | -0.005 fti | -0.003 fti | 0.008 fti |
| DY |           |       | -25776.963 fti | 0.022 fti  | 0.006 fti  | 0.008 fti |
| DZ |           |       | -23855.172 fti | -0.013 fti | -0.025 fti | 0.008 fti |
| DX | BIRCH RUN | NVA12 | -30026.781 fti | -0.011 fti | -0.008 fti | 0.008 fti |
| DY |           |       | -25776.963 fti | 0.026 fti  | 0.003 fti  | 0.008 fti |
| DZ |           |       | -23855.172 fti | -0.021 fti | -0.034 fti | 0.008 fti |
| DX | HEMLOCK   | VVA24 | -40.770 fti    | -0.007 fti | -0.007 fti | 0.009 fti |
| DY |           |       | -30536.789 fti | 0.000 fti  | 0.007 fti  | 0.009 fti |
| DZ |           |       | -32251.845 fti | 0.009 fti  | 0.006 fti  | 0.009 fti |
| DX | HEMLOCK   | VVA24 | -40.770 fti    | -0.008 fti | -0.007 fti | 0.009 fti |
| DY |           |       | -30536.789 fti | 0.005 fti  | 0.012 fti  | 0.009 fti |
| DZ |           |       | -32251.845 fti | 0.011 fti  | 0.003 fti  | 0.009 fti |
| DX | HEMLOCK   | VVA24 | -40.770 fti    | -0.008 fti | -0.008 fti | 0.009 fti |
| DY |           |       | -30536.789 fti | 0.003 fti  | -0.017 fti | 0.009 fti |
| DZ |           |       | -32251.845 fti | -0.026 fti | -0.020 fti | 0.009 fti |
| DX | HEMLOCK   | VVA24 | -40.770 fti    | -0.001 fti | -0.001 fti | 0.009 fti |
| DY |           |       | -30536.789 fti | 0.002 fti  | -0.018 fti | 0.009 fti |
| DZ |           |       | -32251.845 fti | -0.027 fti | -0.020 fti | 0.009 fti |

|    |         |       |                |            |            |           |
|----|---------|-------|----------------|------------|------------|-----------|
|    | HEMLOCK | NVA8  | -24609.664 fti | 0.005 fti  | 0.005 fti  | 0.008 fti |
| DY |         |       | -2275.633 fti  | 0.003 fti  | 0.015 fti  | 0.008 fti |
| DZ |         |       | 192.573 fti    | 0.019 fti  | 0.011 fti  | 0.008 fti |
| DX | HEMLOCK | NVA8  | -24609.664 fti | 0.012 fti  | 0.012 fti  | 0.008 fti |
| DY |         |       | -2275.633 fti  | 0.004 fti  | 0.016 fti  | 0.008 fti |
| DZ |         |       | 192.573 fti    | 0.020 fti  | 0.012 fti  | 0.008 fti |
| DX | HEMLOCK | NVA8  | -24609.664 fti | 0.005 fti  | 0.003 fti  | 0.008 fti |
| DY |         |       | -2275.633 fti  | -0.019 fti | -0.017 fti | 0.008 fti |
| DZ |         |       | 192.573 fti    | -0.004 fti | 0.011 fti  | 0.008 fti |
| DX | HEMLOCK | NVA8  | -24609.664 fti | -0.010 fti | -0.012 fti | 0.008 fti |
| DY |         |       | -2275.633 fti  | -0.017 fti | -0.016 fti | 0.008 fti |
| DZ |         |       | 192.573 fti    | -0.007 fti | 0.007 fti  | 0.008 fti |
| DX | HEMLOCK | NVA7  | 1755.456 fti   | -0.006 fti | -0.004 fti | 0.004 fti |
| DY |         |       | 1033.563 fti   | 0.021 fti  | 0.023 fti  | 0.004 fti |
| DZ |         |       | 864.628 fti    | 0.012 fti  | -0.007 fti | 0.004 fti |
| DX | HEMLOCK | NVA7  | 1755.456 fti   | -0.007 fti | -0.006 fti | 0.004 fti |
| DY |         |       | 1033.563 fti   | 0.010 fti  | 0.019 fti  | 0.004 fti |
| DZ |         |       | 864.628 fti    | 0.017 fti  | 0.004 fti  | 0.004 fti |
| DX | HEMLOCK | NVA7  | 1755.456 fti   | 0.008 fti  | 0.006 fti  | 0.004 fti |
| DY |         |       | 1033.563 fti   | -0.020 fti | -0.021 fti | 0.004 fti |
| DZ |         |       | 864.628 fti    | -0.010 fti | 0.008 fti  | 0.004 fti |
| DX | HEMLOCK | NVA7  | 1755.456 fti   | 0.003 fti  | 0.002 fti  | 0.004 fti |
| DY |         |       | 1033.563 fti   | -0.012 fti | -0.018 fti | 0.004 fti |
| DZ |         |       | 864.628 fti    | -0.013 fti | -0.001 fti | 0.004 fti |
| DX | HEMLOCK | NVA4  | 27628.106 fti  | 0.000 fti  | 0.000 fti  | 0.009 fti |
| DY |         |       | -24176.928 fti | 0.002 fti  | 0.016 fti  | 0.009 fti |
| DZ |         |       | -28544.630 fti | 0.020 fti  | 0.012 fti  | 0.009 fti |
| DX | HEMLOCK | NVA4  | 27628.106 fti  | -0.005 fti | -0.004 fti | 0.009 fti |
| DY |         |       | -24176.928 fti | 0.010 fti  | 0.018 fti  | 0.009 fti |
| DZ |         |       | -28544.630 fti | 0.015 fti  | 0.003 fti  | 0.009 fti |
| DX | HEMLOCK | NVA4  | 27628.106 fti  | 0.004 fti  | 0.003 fti  | 0.009 fti |
| DY |         |       | -24176.928 fti | -0.007 fti | -0.013 fti | 0.009 fti |
| DZ |         |       | -28544.630 fti | -0.011 fti | -0.002 fti | 0.009 fti |
| DX | HEMLOCK | NVA4  | 27628.106 fti  | 0.007 fti  | 0.006 fti  | 0.009 fti |
| DY |         |       | -24176.928 fti | -0.007 fti | -0.010 fti | 0.009 fti |
| DZ |         |       | -28544.630 fti | -0.006 fti | 0.002 fti  | 0.009 fti |
| DX | HEMLOCK | NVA39 | 1487.621 fti   | -0.012 fti | -0.011 fti | 0.006 fti |
| DY |         |       | 10086.606 fti  | 0.009 fti  | 0.016 fti  | 0.006 fti |
| DZ |         |       | 10389.483 fti  | 0.013 fti  | 0.001 fti  | 0.006 fti |
| DX | HEMLOCK | NVA39 | 1487.621 fti   | -0.003 fti | -0.002 fti | 0.006 fti |
| DY |         |       | 10086.606 fti  | 0.011 fti  | 0.023 fti  | 0.006 fti |
| DZ |         |       | 10389.483 fti  | 0.021 fti  | 0.007 fti  | 0.006 fti |
| DX | HEMLOCK | NVA39 | 1487.621 fti   | 0.013 fti  | 0.011 fti  | 0.006 fti |
| DY |         |       | 10086.606 fti  | -0.015 fti | -0.015 fti | 0.006 fti |
| DZ |         |       | 10389.483 fti  | -0.005 fti | 0.009 fti  | 0.006 fti |
| DX | HEMLOCK | NVA39 | 1487.621 fti   | 0.011 fti  | 0.010 fti  | 0.006 fti |
| DY |         |       | 10086.606 fti  | -0.011 fti | -0.016 fti | 0.006 fti |
| DZ |         |       | 10389.483 fti  | -0.010 fti | 0.002 fti  | 0.006 fti |
| DX | HEMLOCK | NVA30 | 17143.259 fti  | -0.008 fti | -0.008 fti | 0.007 fti |
| DY |         |       | 7456.027 fti   | -0.001 fti | 0.019 fti  | 0.007 fti |
| DZ |         |       | 5932.851 fti   | 0.026 fti  | 0.018 fti  | 0.007 fti |
| DX | HEMLOCK | NVA30 | 17143.259 fti  | -0.005 fti | -0.005 fti | 0.007 fti |
| DY |         |       | 7456.027 fti   | -0.004 fti | 0.023 fti  | 0.007 fti |
| DZ |         |       | 5932.851 fti   | 0.035 fti  | 0.026 fti  | 0.007 fti |
| DX | HEMLOCK | NVA30 | 17143.259 fti  | 0.013 fti  | 0.011 fti  | 0.007 fti |
| DY |         |       | 7456.027 fti   | -0.015 fti | -0.018 fti | 0.007 fti |
| DZ |         |       | 5932.851 fti   | -0.008 fti | 0.006 fti  | 0.007 fti |
| DX | HEMLOCK | NVA30 | 17143.259 fti  | 0.005 fti  | 0.004 fti  | 0.007 fti |
| DY |         |       | 7456.027 fti   | -0.003 fti | -0.014 fti | 0.007 fti |
| DZ |         |       | 5932.851 fti   | -0.016 fti | -0.009 fti | 0.007 fti |
| DX | HEMLOCK | NVA19 | 18216.983 fti  | -0.003 fti | -0.004 fti | 0.008 fti |
| DY |         |       | 19683.208 fti  | -0.005 fti | -0.003 fti | 0.008 fti |
| DZ |         |       | 18649.952 fti  | 0.000 fti  | 0.003 fti  | 0.008 fti |
| DX | HEMLOCK | NVA19 | 18216.983 fti  | -0.009 fti | -0.011 fti | 0.008 fti |
| DY |         |       | 19683.208 fti  | -0.015 fti | -0.010 fti | 0.008 fti |

|    |         |       |                |            |            |           |
|----|---------|-------|----------------|------------|------------|-----------|
|    |         |       | 18649.952 fti  | 0.000 fti  | 0.010 fti  | 0.008 fti |
| DX | HEMLOCK | NVA19 | 18216.983 fti  | -0.007 fti | -0.008 fti | 0.008 fti |
| DY |         |       | 19683.208 fti  | -0.007 fti | 0.006 fti  | 0.008 fti |
| DZ |         |       | 18649.952 fti  | 0.014 fti  | 0.014 fti  | 0.008 fti |
| DX | HEMLOCK | NVA19 | 18216.983 fti  | 0.002 fti  | 0.003 fti  | 0.008 fti |
| DY |         |       | 19683.208 fti  | 0.002 fti  | 0.006 fti  | 0.008 fti |
| DZ |         |       | 18649.952 fti  | 0.006 fti  | 0.003 fti  | 0.008 fti |
| DX | HEMLOCK | NVA14 | -20643.544 fti | 0.008 fti  | 0.008 fti  | 0.008 fti |
| DY |         |       | 10739.619 fti  | -0.006 fti | -0.014 fti | 0.008 fti |
| DZ |         |       | 13436.505 fti  | -0.013 fti | -0.004 fti | 0.008 fti |
| DX | HEMLOCK | NVA14 | -20643.544 fti | 0.003 fti  | 0.003 fti  | 0.008 fti |
| DY |         |       | 10739.619 fti  | -0.005 fti | -0.012 fti | 0.008 fti |
| DZ |         |       | 13436.505 fti  | -0.011 fti | -0.003 fti | 0.008 fti |
| DX | HEMLOCK | NVA14 | -20643.544 fti | -0.008 fti | -0.006 fti | 0.008 fti |
| DY |         |       | 10739.619 fti  | 0.014 fti  | 0.023 fti  | 0.008 fti |
| DZ |         |       | 13436.505 fti  | 0.017 fti  | 0.001 fti  | 0.008 fti |
| DX | HEMLOCK | NVA14 | -20643.544 fti | -0.001 fti | 0.000 fti  | 0.008 fti |
| DY |         |       | 10739.619 fti  | 0.004 fti  | 0.015 fti  | 0.008 fti |
| DZ |         |       | 13436.505 fti  | 0.017 fti  | 0.009 fti  | 0.008 fti |
| DX | MIBY    | NVA25 | -2239.343 fti  | 0.004 fti  | 0.007 fti  | 0.007 fti |
| DY |         |       | -29133.231 fti | 0.021 fti  | 0.006 fti  | 0.007 fti |
| DZ |         |       | -30236.009 fti | -0.011 fti | -0.022 fti | 0.007 fti |
| DX | MIBY    | NVA25 | -2239.343 fti  | 0.003 fti  | 0.004 fti  | 0.007 fti |
| DY |         |       | -29133.231 fti | 0.012 fti  | 0.005 fti  | 0.007 fti |
| DZ |         |       | -30236.009 fti | -0.004 fti | -0.011 fti | 0.007 fti |
| DX | MIBY    | NVA25 | -2239.343 fti  | -0.003 fti | -0.002 fti | 0.007 fti |
| DY |         |       | -29133.231 fti | 0.010 fti  | 0.003 fti  | 0.007 fti |
| DZ |         |       | -30236.009 fti | -0.006 fti | -0.012 fti | 0.007 fti |
| DX | MIBY    | NVA25 | -2239.343 fti  | 0.004 fti  | 0.005 fti  | 0.007 fti |
| DY |         |       | -29133.231 fti | 0.006 fti  | 0.000 fti  | 0.007 fti |
| DZ |         |       | -30236.009 fti | -0.006 fti | -0.009 fti | 0.007 fti |
| DX | BAYR    | NVA9  | -63082.749 fti | -0.011 fti | -0.011 fti | 0.010 fti |
| DY |         |       | 13028.214 fti  | -0.001 fti | -0.015 fti | 0.010 fti |
| DZ |         |       | 20627.808 fti  | -0.021 fti | -0.015 fti | 0.010 fti |
| DX | BAYR    | NVA9  | -63082.749 fti | -0.011 fti | -0.013 fti | 0.010 fti |
| DY |         |       | 13028.214 fti  | -0.016 fti | -0.019 fti | 0.010 fti |
| DZ |         |       | 20627.808 fti  | -0.013 fti | 0.001 fti  | 0.010 fti |
| DX | BAYR    | NVA9  | -63082.749 fti | 0.036 fti  | 0.035 fti  | 0.010 fti |
| DY |         |       | 13028.214 fti  | -0.010 fti | -0.022 fti | 0.010 fti |
| DZ |         |       | 20627.808 fti  | -0.018 fti | -0.002 fti | 0.010 fti |
| DX | BAYR    | NVA9  | -63082.749 fti | 0.040 fti  | 0.038 fti  | 0.010 fti |
| DY |         |       | 13028.214 fti  | -0.016 fti | -0.011 fti | 0.010 fti |
| DZ |         |       | 20627.808 fti  | 0.004 fti  | 0.017 fti  | 0.010 fti |
| DX | BAYR    | NVA6  | 43186.315 fti  | 0.000 fti  | -0.002 fti | 0.009 fti |
| DY |         |       | -24653.825 fti | -0.017 fti | -0.002 fti | 0.009 fti |
| DZ |         |       | -30823.700 fti | 0.014 fti  | 0.022 fti  | 0.009 fti |
| DX | BAYR    | NVA6  | 43186.315 fti  | 0.013 fti  | 0.009 fti  | 0.009 fti |
| DY |         |       | -24653.825 fti | -0.039 fti | -0.008 fti | 0.009 fti |
| DZ |         |       | -30823.700 fti | 0.027 fti  | 0.048 fti  | 0.009 fti |
| DX | BAYR    | NVA6  | 43186.315 fti  | -0.007 fti | -0.009 fti | 0.009 fti |
| DY |         |       | -24653.825 fti | -0.017 fti | 0.000 fti  | 0.009 fti |
| DZ |         |       | -30823.700 fti | 0.016 fti  | 0.023 fti  | 0.009 fti |
| DX | BAYR    | NVA6  | 43186.315 fti  | -0.004 fti | -0.007 fti | 0.009 fti |
| DY |         |       | -24653.825 fti | -0.027 fti | -0.003 fti | 0.009 fti |
| DZ |         |       | -30823.700 fti | 0.020 fti  | 0.033 fti  | 0.009 fti |
| DX | BAYR    | NVA38 | 31637.161 fti  | -0.001 fti | -0.002 fti | 0.010 fti |
| DY |         |       | -13414.097 fti | -0.012 fti | -0.017 fti | 0.010 fti |
| DZ |         |       | -17652.042 fti | -0.012 fti | 0.000 fti  | 0.010 fti |
| DX | BAYR    | NVA38 | 31637.161 fti  | 0.002 fti  | 0.000 fti  | 0.010 fti |
| DY |         |       | -13414.097 fti | -0.022 fti | -0.015 fti | 0.010 fti |
| DZ |         |       | -17652.042 fti | 0.000 fti  | 0.016 fti  | 0.010 fti |
| DX | BAYR    | NVA38 | 31637.161 fti  | -0.003 fti | -0.005 fti | 0.010 fti |
| DY |         |       | -13414.097 fti | -0.014 fti | -0.022 fti | 0.010 fti |
| DZ |         |       | -17652.042 fti | -0.017 fti | -0.002 fti | 0.010 fti |
| DX | BAYR    | NVA38 | 31637.161 fti  | -0.002 fti | -0.001 fti | 0.010 fti |

|    |         |       |                |            |            |           |
|----|---------|-------|----------------|------------|------------|-----------|
|    |         |       | -13414.097 fti | 0.005 fti  | -0.002 fti | 0.010 fti |
| DZ |         |       | -17652.042 fti | -0.008 fti | -0.010 fti | 0.010 fti |
| DX | BAYR    | NVA36 | 50049.314 fti  | 0.002 fti  | 0.004 fti  | 0.011 fti |
| DY |         |       | 13693.926 fti  | 0.020 fti  | 0.016 fti  | 0.011 fti |
| DZ |         |       | 8659.440 fti   | 0.004 fti  | -0.012 fti | 0.011 fti |
| DX | BAYR    | NVA36 | 50049.314 fti  | -0.001 fti | 0.000 fti  | 0.011 fti |
| DY |         |       | 13693.926 fti  | 0.010 fti  | 0.019 fti  | 0.011 fti |
| DZ |         |       | 8659.440 fti   | 0.016 fti  | 0.003 fti  | 0.011 fti |
| DX | BAYR    | NVA36 | 50049.314 fti  | 0.002 fti  | 0.002 fti  | 0.011 fti |
| DY |         |       | 13693.926 fti  | 0.000 fti  | 0.004 fti  | 0.011 fti |
| DZ |         |       | 8659.440 fti   | 0.006 fti  | 0.004 fti  | 0.011 fti |
| DX | BAYR    | NVA36 | 50049.314 fti  | 0.005 fti  | 0.005 fti  | 0.011 fti |
| DY |         |       | 13693.926 fti  | 0.002 fti  | 0.012 fti  | 0.011 fti |
| DZ |         |       | 8659.440 fti   | 0.016 fti  | 0.010 fti  | 0.011 fti |
| DX | BAYR    | NVA25 | -21531.761 fti | 0.011 fti  | 0.012 fti  | 0.007 fti |
| DY |         |       | 13479.182 fti  | 0.003 fti  | -0.003 fti | 0.007 fti |
| DZ |         |       | 16526.882 fti  | -0.006 fti | -0.005 fti | 0.007 fti |
| DX | BAYR    | NVA25 | -21531.761 fti | 0.011 fti  | 0.011 fti  | 0.007 fti |
| DY |         |       | 13479.182 fti  | -0.002 fti | 0.005 fti  | 0.007 fti |
| DZ |         |       | 16526.882 fti  | 0.010 fti  | 0.009 fti  | 0.007 fti |
| DX | BAYR    | NVA25 | -21531.761 fti | -0.012 fti | -0.013 fti | 0.007 fti |
| DY |         |       | 13479.182 fti  | -0.016 fti | -0.005 fti | 0.007 fti |
| DZ |         |       | 16526.882 fti  | 0.007 fti  | 0.016 fti  | 0.007 fti |
| DX | BAYR    | NVA25 | -21531.761 fti | -0.016 fti | -0.018 fti | 0.007 fti |
| DY |         |       | 13479.182 fti  | -0.018 fti | -0.006 fti | 0.007 fti |
| DZ |         |       | 16526.882 fti  | 0.006 fti  | 0.016 fti  | 0.007 fti |
| DX | BAYR    | NVA22 | 5514.837 fti   | -0.007 fti | -0.007 fti | 0.007 fti |
| DY |         |       | -21764.827 fti | -0.005 fti | -0.006 fti | 0.007 fti |
| DZ |         |       | -23516.860 fti | -0.004 fti | 0.001 fti  | 0.007 fti |
| DX | BAYR    | NVA22 | 5514.837 fti   | -0.007 fti | -0.007 fti | 0.007 fti |
| DY |         |       | -21764.827 fti | 0.004 fti  | -0.001 fti | 0.007 fti |
| DZ |         |       | -23516.860 fti | -0.005 fti | -0.007 fti | 0.007 fti |
| DX | BAYR    | NVA22 | 5514.837 fti   | -0.005 fti | -0.005 fti | 0.007 fti |
| DY |         |       | -21764.827 fti | 0.002 fti  | -0.006 fti | 0.007 fti |
| DZ |         |       | -23516.860 fti | -0.010 fti | -0.009 fti | 0.007 fti |
| DX | BAYR    | NVA22 | 5514.837 fti   | -0.006 fti | -0.006 fti | 0.007 fti |
| DY |         |       | -21764.827 fti | 0.002 fti  | -0.010 fti | 0.007 fti |
| DZ |         |       | -23516.860 fti | -0.015 fti | -0.012 fti | 0.007 fti |
| DX | BAYR    | NVA10 | 50132.362 fti  | 0.002 fti  | 0.003 fti  | 0.011 fti |
| DY |         |       | 6618.586 fti   | 0.008 fti  | 0.012 fti  | 0.011 fti |
| DZ |         |       | 1248.534 fti   | 0.009 fti  | 0.001 fti  | 0.011 fti |
| DX | BAYR    | NVA10 | 50132.362 fti  | 0.000 fti  | 0.001 fti  | 0.011 fti |
| DY |         |       | 6618.586 fti   | 0.011 fti  | 0.021 fti  | 0.011 fti |
| DZ |         |       | 1248.534 fti   | 0.018 fti  | 0.004 fti  | 0.011 fti |
| DX | BAYR    | NVA10 | 50132.362 fti  | 0.001 fti  | 0.001 fti  | 0.011 fti |
| DY |         |       | 6618.586 fti   | 0.006 fti  | 0.002 fti  | 0.011 fti |
| DZ |         |       | 1248.534 fti   | -0.003 fti | -0.007 fti | 0.011 fti |
| DX | BAYR    | NVA10 | 50132.362 fti  | -0.004 fti | -0.004 fti | 0.011 fti |
| DY |         |       | 6618.586 fti   | 0.005 fti  | -0.001 fti | 0.011 fti |
| DZ |         |       | 1248.534 fti   | -0.007 fti | -0.009 fti | 0.011 fti |
| DX | MIDLAND | NVA9  | 34471.895 fti  | -0.019 fti | -0.018 fti | 0.010 fti |
| DY |         |       | -19583.165 fti | 0.007 fti  | 0.009 fti  | 0.010 fti |
| DZ |         |       | -24263.401 fti | 0.004 fti  | -0.004 fti | 0.010 fti |
| DX | MIDLAND | NVA9  | 34471.895 fti  | -0.016 fti | -0.015 fti | 0.010 fti |
| DY |         |       | -19583.165 fti | 0.013 fti  | 0.010 fti  | 0.010 fti |
| DZ |         |       | -24263.401 fti | 0.000 fti  | -0.011 fti | 0.010 fti |
| DX | MIDLAND | NVA9  | 34471.895 fti  | -0.001 fti | 0.000 fti  | 0.010 fti |
| DY |         |       | -19583.165 fti | 0.007 fti  | 0.016 fti  | 0.010 fti |
| DZ |         |       | -24263.401 fti | 0.016 fti  | 0.006 fti  | 0.010 fti |
| DX | MIDLAND | NVA9  | 34471.895 fti  | 0.005 fti  | 0.005 fti  | 0.010 fti |
| DY |         |       | -19583.165 fti | -0.002 fti | 0.004 fti  | 0.010 fti |
| DZ |         |       | -24263.401 fti | 0.008 fti  | 0.008 fti  | 0.010 fti |
| DX | MIDLAND | NVA8  | -17476.512 fti | 0.001 fti  | 0.006 fti  | 0.008 fti |
| DY |         |       | -53109.014 fti | 0.052 fti  | 0.018 fti  | 0.008 fti |
| DZ |         |       | -53865.008 fti | -0.024 fti | -0.054 fti | 0.008 fti |

|    |         |       |                |            |            |           |
|----|---------|-------|----------------|------------|------------|-----------|
|    | MIDLAND | NVA8  | -17476.512 fti | -0.003 fti | 0.001 fti  | 0.008 fti |
| DY |         |       | -53109.014 fti | 0.048 fti  | 0.016 fti  | 0.008 fti |
| DZ |         |       | -53865.008 fti | -0.023 fti | -0.051 fti | 0.008 fti |
| DX | MIDLAND | NVA8  | -17476.512 fti | -0.030 fti | -0.028 fti | 0.008 fti |
| DY |         |       | -53109.014 fti | 0.009 fti  | -0.018 fti | 0.008 fti |
| DZ |         |       | -53865.008 fti | -0.037 fti | -0.034 fti | 0.008 fti |
| DX | MIDLAND | NVA8  | -17476.512 fti | -0.027 fti | -0.024 fti | 0.008 fti |
| DY |         |       | -53109.014 fti | 0.029 fti  | -0.013 fti | 0.008 fti |
| DZ |         |       | -53865.008 fti | -0.048 fti | -0.056 fti | 0.008 fti |
| DX | MIDLAND | NVA7  | 8888.608 fti   | 0.005 fti  | 0.006 fti  | 0.004 fti |
| DY |         |       | -49799.818 fti | 0.005 fti  | 0.003 fti  | 0.004 fti |
| DZ |         |       | -53192.953 fti | 0.000 fti  | -0.003 fti | 0.004 fti |
| DX | MIDLAND | NVA7  | 8888.608 fti   | 0.002 fti  | 0.004 fti  | 0.004 fti |
| DY |         |       | -49799.818 fti | 0.011 fti  | 0.003 fti  | 0.004 fti |
| DZ |         |       | -53192.953 fti | -0.006 fti | -0.012 fti | 0.004 fti |
| DX | MIDLAND | NVA7  | 8888.608 fti   | 0.012 fti  | 0.011 fti  | 0.004 fti |
| DY |         |       | -49799.818 fti | -0.004 fti | -0.026 fti | 0.004 fti |
| DZ |         |       | -53192.953 fti | -0.031 fti | -0.017 fti | 0.004 fti |
| DX | MIDLAND | NVA7  | 8888.608 fti   | 0.016 fti  | 0.017 fti  | 0.004 fti |
| DY |         |       | -49799.818 fti | 0.011 fti  | -0.025 fti | 0.004 fti |
| DZ |         |       | -53192.953 fti | -0.043 fti | -0.036 fti | 0.004 fti |
| DX | MIDLAND | NVA30 | 24276.411 fti  | -0.006 fti | 0.000 fti  | 0.007 fti |
| DY |         |       | -43377.355 fti | 0.058 fti  | 0.012 fti  | 0.007 fti |
| DZ |         |       | -48124.730 fti | -0.039 fti | -0.069 fti | 0.007 fti |
| DX | MIDLAND | NVA30 | 24276.411 fti  | 0.002 fti  | 0.008 fti  | 0.007 fti |
| DY |         |       | -43377.355 fti | 0.059 fti  | 0.007 fti  | 0.007 fti |
| DZ |         |       | -48124.730 fti | -0.046 fti | -0.074 fti | 0.007 fti |
| DX | MIDLAND | NVA30 | 24276.411 fti  | -0.011 fti | -0.011 fti | 0.007 fti |
| DY |         |       | -43377.355 fti | 0.001 fti  | -0.035 fti | 0.007 fti |
| DZ |         |       | -48124.730 fti | -0.050 fti | -0.036 fti | 0.007 fti |
| DX | MIDLAND | NVA30 | 24276.411 fti  | -0.010 fti | -0.010 fti | 0.007 fti |
| DY |         |       | -43377.355 fti | -0.002 fti | -0.036 fti | 0.007 fti |
| DZ |         |       | -48124.730 fti | -0.048 fti | -0.032 fti | 0.007 fti |
| DX | MIDLAND | NVA19 | 25350.135 fti  | -0.001 fti | 0.000 fti  | 0.008 fti |
| DY |         |       | -31150.173 fti | 0.011 fti  | 0.000 fti  | 0.008 fti |
| DZ |         |       | -35407.629 fti | -0.010 fti | -0.015 fti | 0.008 fti |
| DX | MIDLAND | NVA19 | 25350.135 fti  | 0.001 fti  | 0.002 fti  | 0.008 fti |
| DY |         |       | -31150.173 fti | 0.008 fti  | -0.004 fti | 0.008 fti |
| DZ |         |       | -35407.629 fti | -0.013 fti | -0.015 fti | 0.008 fti |
| DX | MIDLAND | NVA19 | 25350.135 fti  | 0.017 fti  | 0.018 fti  | 0.008 fti |
| DY |         |       | -31150.173 fti | 0.014 fti  | 0.002 fti  | 0.008 fti |
| DZ |         |       | -35407.629 fti | -0.009 fti | -0.015 fti | 0.008 fti |
| DX | MIDLAND | NVA19 | 25350.135 fti  | 0.016 fti  | 0.018 fti  | 0.008 fti |
| DY |         |       | -31150.173 fti | 0.016 fti  | 0.004 fti  | 0.008 fti |
| DZ |         |       | -35407.629 fti | -0.008 fti | -0.015 fti | 0.008 fti |
| DX | MIDLAND | NVA14 | -13510.392 fti | -0.014 fti | -0.013 fti | 0.008 fti |
| DY |         |       | -40093.762 fti | 0.005 fti  | 0.000 fti  | 0.008 fti |
| DZ |         |       | -40621.076 fti | -0.006 fti | -0.009 fti | 0.008 fti |
| DX | MIDLAND | NVA14 | -13510.392 fti | -0.004 fti | -0.004 fti | 0.008 fti |
| DY |         |       | -40093.762 fti | 0.003 fti  | -0.002 fti | 0.008 fti |
| DZ |         |       | -40621.076 fti | -0.007 fti | -0.007 fti | 0.008 fti |
| DX | MIDLAND | NVA14 | -13510.392 fti | 0.005 fti  | 0.004 fti  | 0.008 fti |
| DY |         |       | -40093.762 fti | -0.008 fti | -0.007 fti | 0.008 fti |
| DZ |         |       | -40621.076 fti | -0.002 fti | 0.005 fti  | 0.008 fti |
| DX | MIDLAND | NVA14 | -13510.392 fti | 0.004 fti  | 0.003 fti  | 0.008 fti |
| DY |         |       | -40093.762 fti | -0.018 fti | -0.024 fti | 0.008 fti |
| DZ |         |       | -40621.076 fti | -0.015 fti | 0.003 fti  | 0.008 fti |
| DX | VASSAR  | NVA38 | -51147.116 fti | -0.014 fti | -0.013 fti | 0.011 fti |
| DY |         |       | -5384.541 fti  | 0.012 fti  | 0.011 fti  | 0.011 fti |
| DZ |         |       | 184.642 fti    | 0.002 fti  | -0.008 fti | 0.011 fti |
| DX | VASSAR  | NVA38 | -51147.116 fti | 0.002 fti  | 0.004 fti  | 0.011 fti |
| DY |         |       | -5384.541 fti  | 0.012 fti  | 0.022 fti  | 0.011 fti |
| DZ |         |       | 184.642 fti    | 0.020 fti  | 0.005 fti  | 0.011 fti |
| DX | VASSAR  | NVA38 | -51147.116 fti | 0.009 fti  | 0.011 fti  | 0.011 fti |
| DY |         |       | -5384.541 fti  | 0.015 fti  | 0.026 fti  | 0.011 fti |



|    |           |       |                |            |            |           |
|----|-----------|-------|----------------|------------|------------|-----------|
|    |           |       | 184.642 fti    | 0.022 fti  | 0.005 fti  | 0.011 fti |
| DX | VASSAR    | NVA38 | -51147.116 fti | 0.008 fti  | 0.010 fti  | 0.011 fti |
| DY |           |       | -5384.541 fti  | 0.023 fti  | 0.024 fti  | 0.011 fti |
| DZ |           |       | 184.642 fti    | 0.012 fti  | -0.007 fti | 0.011 fti |
| DX | VASSAR    | NVA36 | -32734.963 fti | 0.009 fti  | 0.007 fti  | 0.011 fti |
| DY |           |       | 21723.482 fti  | -0.017 fti | -0.014 fti | 0.011 fti |
| DZ |           |       | 26496.124 fti  | -0.002 fti | 0.012 fti  | 0.011 fti |
| DX | VASSAR    | NVA36 | -32734.963 fti | -0.001 fti | -0.002 fti | 0.011 fti |
| DY |           |       | 21723.482 fti  | -0.012 fti | -0.009 fti | 0.011 fti |
| DZ |           |       | 26496.124 fti  | -0.001 fti | 0.008 fti  | 0.011 fti |
| DX | VASSAR    | NVA36 | -32734.963 fti | -0.009 fti | -0.009 fti | 0.011 fti |
| DY |           |       | 21723.482 fti  | 0.000 fti  | -0.010 fti | 0.011 fti |
| DZ |           |       | 26496.124 fti  | -0.015 fti | -0.011 fti | 0.011 fti |
| DX | VASSAR    | NVA36 | -32734.963 fti | -0.006 fti | -0.005 fti | 0.011 fti |
| DY |           |       | 21723.482 fti  | 0.002 fti  | -0.011 fti | 0.011 fti |
| DZ |           |       | 26496.124 fti  | -0.017 fti | -0.013 fti | 0.011 fti |
| DX | VASSAR    | NVA10 | -32651.916 fti | 0.002 fti  | 0.000 fti  | 0.010 fti |
| DY |           |       | 14648.142 fti  | -0.018 fti | -0.009 fti | 0.010 fti |
| DZ |           |       | 19085.219 fti  | 0.005 fti  | 0.017 fti  | 0.010 fti |
| DX | VASSAR    | NVA10 | -32651.916 fti | -0.003 fti | -0.004 fti | 0.010 fti |
| DY |           |       | 14648.142 fti  | -0.013 fti | -0.008 fti | 0.010 fti |
| DZ |           |       | 19085.219 fti  | 0.000 fti  | 0.009 fti  | 0.010 fti |
| DX | VASSAR    | NVA10 | -32651.916 fti | 0.002 fti  | 0.002 fti  | 0.010 fti |
| DY |           |       | 14648.142 fti  | 0.001 fti  | -0.004 fti | 0.010 fti |
| DZ |           |       | 19085.219 fti  | -0.007 fti | -0.006 fti | 0.010 fti |
| DX | VASSAR    | NVA10 | -32651.916 fti | 0.000 fti  | 0.001 fti  | 0.010 fti |
| DY |           |       | 14648.142 fti  | 0.008 fti  | -0.002 fti | 0.010 fti |
| DZ |           |       | 19085.219 fti  | -0.010 fti | -0.013 fti | 0.010 fti |
| DX | MIDLAND   | NVA39 | 8620.773 fti   | -0.015 fti | -0.014 fti | 0.006 fti |
| DY |           |       | -40746.775 fti | 0.011 fti  | -0.002 fti | 0.006 fti |
| DZ |           |       | -43668.098 fti | -0.015 fti | -0.019 fti | 0.006 fti |
| DX | MIDLAND   | NVA39 | 8620.773 fti   | -0.020 fti | -0.018 fti | 0.006 fti |
| DY |           |       | -40746.775 fti | 0.022 fti  | -0.001 fti | 0.006 fti |
| DZ |           |       | -43668.098 fti | -0.024 fti | -0.034 fti | 0.006 fti |
| DX | MIDLAND   | NVA39 | 8620.773 fti   | -0.032 fti | -0.029 fti | 0.006 fti |
| DY |           |       | -40746.775 fti | 0.020 fti  | 0.004 fti  | 0.006 fti |
| DZ |           |       | -43668.098 fti | -0.016 fti | -0.028 fti | 0.006 fti |
| DX | MIDLAND   | NVA39 | 8620.773 fti   | 0.014 fti  | 0.014 fti  | 0.006 fti |
| DY |           |       | -40746.775 fti | -0.002 fti | -0.017 fti | 0.006 fti |
| DZ |           |       | -43668.098 fti | -0.019 fti | -0.011 fti | 0.006 fti |
| DX | MIDLAND   | NVA39 | 8620.773 fti   | 0.006 fti  | 0.005 fti  | 0.006 fti |
| DY |           |       | -40746.775 fti | -0.016 fti | -0.029 fti | 0.006 fti |
| DZ |           |       | -43668.098 fti | -0.024 fti | -0.005 fti | 0.006 fti |
| DX | HEMLOCK   | VVA15 | 14154.468 fti  | -0.001 fti | -0.002 fti | 0.007 fti |
| DY |           |       | -14235.772 fti | -0.015 fti | 0.002 fti  | 0.007 fti |
| DZ |           |       | -16587.050 fti | 0.016 fti  | 0.022 fti  | 0.007 fti |
| DX | HEMLOCK   | VVA15 | 14154.468 fti  | -0.007 fti | -0.007 fti | 0.007 fti |
| DY |           |       | -14235.772 fti | -0.004 fti | 0.005 fti  | 0.007 fti |
| DZ |           |       | -16587.050 fti | 0.010 fti  | 0.009 fti  | 0.007 fti |
| DX | HEMLOCK   | VVA15 | 14154.468 fti  | 0.007 fti  | 0.006 fti  | 0.007 fti |
| DY |           |       | -14235.772 fti | -0.012 fti | -0.015 fti | 0.007 fti |
| DZ |           |       | -16587.050 fti | -0.009 fti | 0.003 fti  | 0.007 fti |
| DX | HEMLOCK   | VVA15 | 14154.468 fti  | 0.011 fti  | 0.010 fti  | 0.007 fti |
| DY |           |       | -14235.772 fti | -0.010 fti | -0.018 fti | 0.007 fti |
| DZ |           |       | -16587.050 fti | -0.014 fti | -0.002 fti | 0.007 fti |
| DX | HEMLOCK   | VVA15 | 14154.468 fti  | -0.004 fti | -0.003 fti | 0.007 fti |
| DY |           |       | -14235.772 fti | 0.015 fti  | 0.015 fti  | 0.007 fti |
| DZ |           |       | -16587.050 fti | 0.006 fti  | -0.007 fti | 0.007 fti |
| DX | HEMLOCK   | VVA15 | 14154.468 fti  | -0.011 fti | -0.008 fti | 0.007 fti |
| DY |           |       | -14235.772 fti | 0.025 fti  | 0.018 fti  | 0.007 fti |
| DZ |           |       | -16587.050 fti | 0.000 fti  | -0.019 fti | 0.007 fti |
| DX | HEMLOCK   | VVA15 | 14154.468 fti  | 0.004 fti  | 0.004 fti  | 0.007 fti |
| DY |           |       | -14235.772 fti | 0.001 fti  | -0.006 fti | 0.007 fti |
| DZ |           |       | -16587.050 fti | -0.009 fti | -0.007 fti | 0.007 fti |
| DX | CHESANING | VVA30 | 20375.397 fti  | 0.004 fti  | 0.003 fti  | 0.006 fti |

|    |           |       |                |            |            |           |
|----|-----------|-------|----------------|------------|------------|-----------|
|    |           |       | -9031.324 fti  | -0.011 fti | -0.006 fti | 0.006 fti |
| DZ |           |       | -11759.846 fti | 0.002 fti  | 0.010 fti  | 0.006 fti |
| DX | CHESANING | VVA30 | 20375.397 fti  | -0.001 fti | -0.001 fti | 0.006 fti |
| DY |           |       | -9031.324 fti  | -0.002 fti | -0.008 fti | 0.006 fti |
| DZ |           |       | -11759.846 fti | -0.009 fti | -0.005 fti | 0.006 fti |
| DX | CHESANING | VVA30 | 20375.397 fti  | -0.016 fti | -0.014 fti | 0.006 fti |
| DY |           |       | -9031.324 fti  | 0.024 fti  | 0.005 fti  | 0.006 fti |
| DZ |           |       | -11759.846 fti | -0.018 fti | -0.031 fti | 0.006 fti |
| DX | CHESANING | VVA30 | 20375.397 fti  | -0.018 fti | -0.016 fti | 0.006 fti |
| DY |           |       | -9031.324 fti  | 0.018 fti  | -0.005 fti | 0.006 fti |
| DZ |           |       | -11759.846 fti | -0.025 fti | -0.032 fti | 0.006 fti |
| DX | CHESANING | VVA30 | 20375.397 fti  | -0.001 fti | -0.001 fti | 0.006 fti |
| DY |           |       | -9031.324 fti  | -0.001 fti | 0.010 fti  | 0.006 fti |
| DZ |           |       | -11759.846 fti | 0.015 fti  | 0.011 fti  | 0.006 fti |
| DX | CHESANING | VVA30 | 20375.397 fti  | 0.005 fti  | 0.004 fti  | 0.006 fti |
| DY |           |       | -9031.324 fti  | -0.010 fti | 0.005 fti  | 0.006 fti |
| DZ |           |       | -11759.846 fti | 0.016 fti  | 0.019 fti  | 0.006 fti |
| DX | CHESANING | VVA30 | 20375.397 fti  | 0.016 fti  | 0.015 fti  | 0.006 fti |
| DY |           |       | -9031.324 fti  | -0.014 fti | -0.002 fti | 0.006 fti |
| DZ |           |       | -11759.846 fti | 0.012 fti  | 0.019 fti  | 0.006 fti |
| DX | CHESANING | VVA30 | 20375.397 fti  | 0.011 fti  | 0.011 fti  | 0.006 fti |
| DY |           |       | -9031.324 fti  | -0.005 fti | 0.000 fti  | 0.006 fti |
| DZ |           |       | -11759.846 fti | 0.006 fti  | 0.009 fti  | 0.006 fti |
| DX | CHESANING | VVA27 | 23602.480 fti  | -0.012 fti | -0.011 fti | 0.006 fti |
| DY |           |       | 10000.134 fti  | 0.005 fti  | -0.005 fti | 0.006 fti |
| DZ |           |       | 7932.696 fti   | -0.012 fti | -0.012 fti | 0.006 fti |
| DX | CHESANING | VVA27 | 23602.480 fti  | 0.001 fti  | -0.001 fti | 0.006 fti |
| DY |           |       | 10000.134 fti  | -0.018 fti | -0.010 fti | 0.006 fti |
| DZ |           |       | 7932.696 fti   | 0.003 fti  | 0.015 fti  | 0.006 fti |
| DX | CHESANING | VVA27 | 23602.480 fti  | 0.012 fti  | 0.011 fti  | 0.006 fti |
| DY |           |       | 10000.134 fti  | -0.009 fti | -0.005 fti | 0.006 fti |
| DZ |           |       | 7932.696 fti   | 0.003 fti  | 0.009 fti  | 0.006 fti |
| DX | CHESANING | VVA27 | 23602.480 fti  | 0.013 fti  | 0.013 fti  | 0.006 fti |
| DY |           |       | 10000.134 fti  | 0.000 fti  | 0.006 fti  | 0.006 fti |
| DZ |           |       | 7932.696 fti   | 0.010 fti  | 0.008 fti  | 0.006 fti |
| DX | CHESANING | VVA27 | 23602.480 fti  | -0.005 fti | -0.004 fti | 0.006 fti |
| DY |           |       | 10000.134 fti  | 0.009 fti  | -0.007 fti | 0.006 fti |
| DZ |           |       | 7932.696 fti   | -0.018 fti | -0.020 fti | 0.006 fti |
| DX | CHESANING | VVA27 | 23602.480 fti  | -0.006 fti | -0.006 fti | 0.006 fti |
| DY |           |       | 10000.134 fti  | 0.003 fti  | 0.000 fti  | 0.006 fti |
| DZ |           |       | 7932.696 fti   | -0.003 fti | -0.005 fti | 0.006 fti |
| DX | CHESANING | VVA27 | 23602.480 fti  | -0.003 fti | -0.003 fti | 0.006 fti |
| DY |           |       | 10000.134 fti  | 0.002 fti  | 0.005 fti  | 0.006 fti |
| DZ |           |       | 7932.696 fti   | 0.004 fti  | 0.001 fti  | 0.006 fti |
| DX | CHESANING | VVA27 | 23602.480 fti  | 0.001 fti  | 0.002 fti  | 0.006 fti |
| DY |           |       | 10000.134 fti  | 0.008 fti  | 0.015 fti  | 0.006 fti |
| DZ |           |       | 7932.696 fti   | 0.013 fti  | 0.003 fti  | 0.006 fti |
| DX | CHESANING | VVA26 | -10591.079 fti | 0.006 fti  | 0.004 fti  | 0.005 fti |
| DY |           |       | 9102.627 fti   | -0.018 fti | -0.015 fti | 0.005 fti |
| DZ |           |       | 10734.265 fti  | -0.003 fti | 0.011 fti  | 0.005 fti |
| DX | CHESANING | VVA26 | -10591.079 fti | 0.003 fti  | 0.003 fti  | 0.005 fti |
| DY |           |       | 9102.627 fti   | 0.001 fti  | -0.006 fti | 0.005 fti |
| DZ |           |       | 10734.265 fti  | -0.009 fti | -0.007 fti | 0.005 fti |
| DX | CHESANING | VVA26 | -10591.079 fti | -0.002 fti | -0.003 fti | 0.005 fti |
| DY |           |       | 9102.627 fti   | -0.005 fti | -0.009 fti | 0.005 fti |
| DZ |           |       | 10734.265 fti  | -0.007 fti | -0.001 fti | 0.005 fti |
| DX | CHESANING | VVA26 | -10591.079 fti | -0.005 fti | -0.005 fti | 0.005 fti |
| DY |           |       | 9102.627 fti   | -0.006 fti | -0.008 fti | 0.005 fti |
| DZ |           |       | 10734.265 fti  | -0.006 fti | 0.000 fti  | 0.005 fti |
| DX | CHESANING | VVA26 | -10591.079 fti | 0.007 fti  | 0.009 fti  | 0.005 fti |
| DY |           |       | 9102.627 fti   | 0.012 fti  | 0.004 fti  | 0.005 fti |
| DZ |           |       | 10734.265 fti  | -0.005 fti | -0.012 fti | 0.005 fti |
| DX | CHESANING | VVA26 | -10591.079 fti | 0.004 fti  | 0.004 fti  | 0.005 fti |
| DY |           |       | 9102.627 fti   | 0.001 fti  | 0.000 fti  | 0.005 fti |
| DZ |           |       | 10734.265 fti  | 0.000 fti  | -0.001 fti | 0.005 fti |

|    |           |       |                |            |            |           |
|----|-----------|-------|----------------|------------|------------|-----------|
|    | CHESANING | VVA26 | -10591.079 fti | -0.006 fti | -0.005 fti | 0.005 fti |
| DY |           |       | 9102.627 fti   | 0.005 fti  | 0.016 fti  | 0.005 fti |
| DZ |           |       | 10734.265 fti  | 0.017 fti  | 0.007 fti  | 0.005 fti |
| DX | CHESANING | VVA26 | -10591.079 fti | -0.008 fti | -0.007 fti | 0.005 fti |
| DY |           |       | 9102.627 fti   | 0.009 fti  | 0.017 fti  | 0.005 fti |
| DZ |           |       | 10734.265 fti  | 0.013 fti  | 0.002 fti  | 0.005 fti |
| DX | CHESANING | VVA23 | 14166.886 fti  | 0.012 fti  | 0.011 fti  | 0.008 fti |
| DY |           |       | 27220.459 fti  | -0.008 fti | -0.003 fti | 0.008 fti |
| DZ |           |       | 27136.391 fti  | 0.005 fti  | 0.010 fti  | 0.008 fti |
| DX | CHESANING | VVA23 | 14166.886 fti  | 0.005 fti  | 0.002 fti  | 0.008 fti |
| DY |           |       | 27220.459 fti  | -0.026 fti | 0.006 fti  | 0.008 fti |
| DZ |           |       | 27136.391 fti  | 0.033 fti  | 0.042 fti  | 0.008 fti |
| DX | CHESANING | VVA23 | 14166.886 fti  | 0.000 fti  | -0.002 fti | 0.008 fti |
| DY |           |       | 27220.459 fti  | -0.025 fti | -0.011 fti | 0.008 fti |
| DZ |           |       | 27136.391 fti  | 0.009 fti  | 0.024 fti  | 0.008 fti |
| DX | CHESANING | VVA23 | 14166.886 fti  | -0.004 fti | -0.006 fti | 0.008 fti |
| DY |           |       | 27220.459 fti  | -0.022 fti | -0.002 fti | 0.008 fti |
| DZ |           |       | 27136.391 fti  | 0.017 fti  | 0.027 fti  | 0.008 fti |
| DX | CHESANING | VVA23 | 14166.886 fti  | -0.005 fti | -0.004 fti | 0.008 fti |
| DY |           |       | 27220.459 fti  | 0.013 fti  | -0.012 fti | 0.008 fti |
| DZ |           |       | 27136.391 fti  | -0.029 fti | -0.029 fti | 0.008 fti |
| DX | CHESANING | VVA23 | 14166.886 fti  | -0.008 fti | -0.005 fti | 0.008 fti |
| DY |           |       | 27220.459 fti  | 0.026 fti  | 0.005 fti  | 0.008 fti |
| DZ |           |       | 27136.391 fti  | -0.018 fti | -0.032 fti | 0.008 fti |
| DX | CHESANING | VVA23 | 14166.886 fti  | -0.003 fti | -0.002 fti | 0.008 fti |
| DY |           |       | 27220.459 fti  | 0.011 fti  | -0.002 fti | 0.008 fti |
| DZ |           |       | 27136.391 fti  | -0.013 fti | -0.017 fti | 0.008 fti |
| DX | CHESANING | VVA23 | 14166.886 fti  | 0.003 fti  | 0.006 fti  | 0.008 fti |
| DY |           |       | 27220.459 fti  | 0.031 fti  | 0.018 fti  | 0.008 fti |
| DZ |           |       | 27136.391 fti  | -0.004 fti | -0.025 fti | 0.008 fti |
| DX | CHESANING | NVA3  | -10905.598 fti | -0.013 fti | -0.013 fti | 0.006 fti |
| DY |           |       | -12891.635 fti | -0.008 fti | 0.009 fti  | 0.006 fti |
| DZ |           |       | -12450.145 fti | 0.019 fti  | 0.018 fti  | 0.006 fti |
| DX | CHESANING | NVA3  | -10905.598 fti | -0.008 fti | -0.008 fti | 0.006 fti |
| DY |           |       | -12891.635 fti | -0.003 fti | 0.005 fti  | 0.006 fti |
| DZ |           |       | -12450.145 fti | 0.009 fti  | 0.007 fti  | 0.006 fti |
| DX | CHESANING | NVA3  | -10905.598 fti | 0.017 fti  | 0.017 fti  | 0.006 fti |
| DY |           |       | -12891.635 fti | -0.005 fti | -0.007 fti | 0.006 fti |
| DZ |           |       | -12450.145 fti | -0.003 fti | 0.003 fti  | 0.006 fti |
| DX | CHESANING | NVA3  | -10905.598 fti | 0.008 fti  | 0.008 fti  | 0.006 fti |
| DY |           |       | -12891.635 fti | 0.003 fti  | -0.001 fti | 0.006 fti |
| DZ |           |       | -12450.145 fti | -0.003 fti | -0.004 fti | 0.006 fti |
| DX | CHESANING | NVA3  | -10905.598 fti | 0.013 fti  | 0.012 fti  | 0.006 fti |
| DY |           |       | -12891.635 fti | -0.002 fti | -0.010 fti | 0.006 fti |
| DZ |           |       | -12450.145 fti | -0.010 fti | -0.004 fti | 0.006 fti |
| DX | CHESANING | NVA3  | -10905.598 fti | 0.002 fti  | 0.002 fti  | 0.006 fti |
| DY |           |       | -12891.635 fti | -0.002 fti | -0.011 fti | 0.006 fti |
| DZ |           |       | -12450.145 fti | -0.013 fti | -0.007 fti | 0.006 fti |
| DX | CHESANING | NVA3  | -10905.598 fti | -0.007 fti | -0.005 fti | 0.006 fti |
| DY |           |       | -12891.635 fti | 0.014 fti  | 0.007 fti  | 0.006 fti |
| DZ |           |       | -12450.145 fti | -0.004 fti | -0.013 fti | 0.006 fti |
| DX | CHESANING | NVA3  | -10905.598 fti | -0.014 fti | -0.013 fti | 0.006 fti |
| DY |           |       | -12891.635 fti | 0.005 fti  | 0.008 fti  | 0.006 fti |
| DZ |           |       | -12450.145 fti | 0.006 fti  | -0.001 fti | 0.006 fti |
| DX | CHESANING | NVA2  | 1319.935 fti   | -0.002 fti | -0.001 fti | 0.003 fti |
| DY |           |       | -935.649 fti   | 0.008 fti  | 0.019 fti  | 0.003 fti |
| DZ |           |       | -1160.454 fti  | 0.019 fti  | 0.007 fti  | 0.003 fti |
| DX | CHESANING | NVA2  | 1319.935 fti   | -0.011 fti | -0.009 fti | 0.003 fti |
| DY |           |       | -935.649 fti   | 0.021 fti  | 0.016 fti  | 0.003 fti |
| DZ |           |       | -1160.454 fti  | 0.002 fti  | -0.015 fti | 0.003 fti |
| DX | CHESANING | NVA2  | 1319.935 fti   | -0.004 fti | -0.005 fti | 0.003 fti |
| DY |           |       | -935.649 fti   | -0.018 fti | -0.021 fti | 0.003 fti |
| DZ |           |       | -1160.454 fti  | -0.013 fti | 0.003 fti  | 0.003 fti |
| DX | CHESANING | NVA2  | 1319.935 fti   | 0.004 fti  | 0.001 fti  | 0.003 fti |
| DY |           |       | -935.649 fti   | -0.022 fti | -0.008 fti | 0.003 fti |

|           |           |       |                |            |            |           |
|-----------|-----------|-------|----------------|------------|------------|-----------|
|           |           |       | -1160.454 fti  | 0.010 fti  | 0.023 fti  | 0.003 fti |
| <b>DX</b> | CHESANING | NVA2  | 1319.935 fti   | 0.008 fti  | 0.009 fti  | 0.003 fti |
| <b>DY</b> |           |       | -935.649 fti   | 0.007 fti  | 0.014 fti  | 0.003 fti |
| <b>DZ</b> |           |       | -1160.454 fti  | 0.014 fti  | 0.005 fti  | 0.003 fti |
| <b>DX</b> | CHESANING | NVA2  | 1319.935 fti   | 0.011 fti  | 0.012 fti  | 0.003 fti |
| <b>DY</b> |           |       | -935.649 fti   | 0.010 fti  | 0.015 fti  | 0.003 fti |
| <b>DZ</b> |           |       | -1160.454 fti  | 0.013 fti  | 0.003 fti  | 0.003 fti |
| <b>DX</b> | CHESANING | NVA2  | 1319.935 fti   | 0.003 fti  | 0.002 fti  | 0.003 fti |
| <b>DY</b> |           |       | -935.649 fti   | -0.009 fti | -0.019 fti | 0.003 fti |
| <b>DZ</b> |           |       | -1160.454 fti  | -0.017 fti | -0.005 fti | 0.003 fti |
| <b>DX</b> | CHESANING | NVA2  | 1319.935 fti   | -0.009 fti | -0.008 fti | 0.003 fti |
| <b>DY</b> |           |       | -935.649 fti   | 0.004 fti  | -0.016 fti | 0.003 fti |
| <b>DZ</b> |           |       | -1160.454 fti  | -0.027 fti | -0.022 fti | 0.003 fti |
| <b>DX</b> | CHESANING | NVA18 | 22452.245 fti  | 0.020 fti  | 0.024 fti  | 0.007 fti |
| <b>DY</b> |           |       | 17113.645 fti  | 0.039 fti  | 0.021 fti  | 0.007 fti |
| <b>DZ</b> |           |       | 15557.398 fti  | -0.005 fti | -0.030 fti | 0.007 fti |
| <b>DX</b> | CHESANING | NVA18 | 22452.245 fti  | 0.013 fti  | 0.017 fti  | 0.007 fti |
| <b>DY</b> |           |       | 17113.645 fti  | 0.034 fti  | 0.007 fti  | 0.007 fti |
| <b>DZ</b> |           |       | 15557.398 fti  | -0.020 fti | -0.037 fti | 0.007 fti |
| <b>DX</b> | CHESANING | NVA18 | 22452.245 fti  | 0.013 fti  | 0.015 fti  | 0.007 fti |
| <b>DY</b> |           |       | 17113.645 fti  | 0.018 fti  | -0.005 fti | 0.007 fti |
| <b>DZ</b> |           |       | 15557.398 fti  | -0.023 fti | -0.028 fti | 0.007 fti |
| <b>DX</b> | CHESANING | NVA18 | 22452.245 fti  | 0.010 fti  | 0.012 fti  | 0.007 fti |
| <b>DY</b> |           |       | 17113.645 fti  | 0.016 fti  | -0.010 fti | 0.007 fti |
| <b>DZ</b> |           |       | 15557.398 fti  | -0.028 fti | -0.030 fti | 0.007 fti |
| <b>DX</b> | CHESANING | NVA18 | 22452.245 fti  | -0.013 fti | -0.015 fti | 0.007 fti |
| <b>DY</b> |           |       | 17113.645 fti  | -0.019 fti | -0.002 fti | 0.007 fti |
| <b>DZ</b> |           |       | 15557.398 fti  | 0.014 fti  | 0.022 fti  | 0.007 fti |
| <b>DX</b> | CHESANING | NVA18 | 22452.245 fti  | -0.013 fti | -0.015 fti | 0.007 fti |
| <b>DY</b> |           |       | 17113.645 fti  | -0.023 fti | 0.001 fti  | 0.007 fti |
| <b>DZ</b> |           |       | 15557.398 fti  | 0.022 fti  | 0.030 fti  | 0.007 fti |
| <b>DX</b> | CHESANING | NVA18 | 22452.245 fti  | -0.014 fti | -0.018 fti | 0.007 fti |
| <b>DY</b> |           |       | 17113.645 fti  | -0.039 fti | -0.010 fti | 0.007 fti |
| <b>DZ</b> |           |       | 15557.398 fti  | 0.021 fti  | 0.041 fti  | 0.007 fti |
| <b>DX</b> | CHESANING | NVA18 | 22452.245 fti  | -0.018 fti | -0.020 fti | 0.007 fti |
| <b>DY</b> |           |       | 17113.645 fti  | -0.026 fti | -0.002 fti | 0.007 fti |
| <b>DZ</b> |           |       | 15557.398 fti  | 0.019 fti  | 0.031 fti  | 0.007 fti |
| <b>DX</b> | CHESANING | NVA17 | -38605.038 fti | 0.008 fti  | 0.010 fti  | 0.008 fti |
| <b>DY</b> |           |       | 6159.126 fti   | 0.019 fti  | 0.004 fti  | 0.008 fti |
| <b>DZ</b> |           |       | 10628.746 fti  | -0.011 fti | -0.021 fti | 0.008 fti |
| <b>DX</b> | CHESANING | NVA17 | -38605.038 fti | 0.007 fti  | 0.011 fti  | 0.008 fti |
| <b>DY</b> |           |       | 6159.126 fti   | 0.032 fti  | 0.012 fti  | 0.008 fti |
| <b>DZ</b> |           |       | 10628.746 fti  | -0.012 fti | -0.031 fti | 0.008 fti |
| <b>DX</b> | CHESANING | NVA17 | -38605.038 fti | 0.014 fti  | 0.016 fti  | 0.008 fti |
| <b>DY</b> |           |       | 6159.126 fti   | 0.028 fti  | -0.023 fti | 0.008 fti |
| <b>DZ</b> |           |       | 10628.746 fti  | -0.056 fti | -0.058 fti | 0.008 fti |
| <b>DX</b> | CHESANING | NVA17 | -38605.038 fti | 0.011 fti  | 0.015 fti  | 0.008 fti |
| <b>DY</b> |           |       | 6159.126 fti   | 0.034 fti  | -0.020 fti | 0.008 fti |
| <b>DZ</b> |           |       | 10628.746 fti  | -0.058 fti | -0.063 fti | 0.008 fti |
| <b>DX</b> | CHESANING | NVA17 | -38605.038 fti | -0.038 fti | -0.040 fti | 0.008 fti |
| <b>DY</b> |           |       | 6159.126 fti   | -0.021 fti | 0.019 fti  | 0.008 fti |
| <b>DZ</b> |           |       | 10628.746 fti  | 0.043 fti  | 0.042 fti  | 0.008 fti |
| <b>DX</b> | CHESANING | NVA17 | -38605.038 fti | -0.024 fti | -0.024 fti | 0.008 fti |
| <b>DY</b> |           |       | 6159.126 fti   | -0.008 fti | 0.015 fti  | 0.008 fti |
| <b>DZ</b> |           |       | 10628.746 fti  | 0.026 fti  | 0.022 fti  | 0.008 fti |
| <b>DX</b> | CHESANING | NVA17 | -38605.038 fti | 0.010 fti  | 0.006 fti  | 0.008 fti |
| <b>DY</b> |           |       | 6159.126 fti   | -0.037 fti | -0.007 fti | 0.008 fti |
| <b>DZ</b> |           |       | 10628.746 fti  | 0.026 fti  | 0.046 fti  | 0.008 fti |
| <b>DX</b> | CHESANING | NVA17 | -38605.038 fti | 0.011 fti  | 0.007 fti  | 0.008 fti |
| <b>DY</b> |           |       | 6159.126 fti   | -0.046 fti | -0.001 fti | 0.008 fti |
| <b>DZ</b> |           |       | 10628.746 fti  | 0.042 fti  | 0.063 fti  | 0.008 fti |
| <b>DX</b> | CHESANING | NVA16 | -11787.164 fti | -0.023 fti | -0.023 fti | 0.004 fti |
| <b>DY</b> |           |       | -2220.498 fti  | -0.002 fti | 0.006 fti  | 0.004 fti |
| <b>DZ</b> |           |       | -1075.369 fti  | 0.008 fti  | 0.006 fti  | 0.004 fti |
| <b>DX</b> | CHESANING | NVA16 | -11787.164 fti | -0.007 fti | -0.008 fti | 0.004 fti |

|    |           |       |                |            |            |           |
|----|-----------|-------|----------------|------------|------------|-----------|
|    |           |       | -2220.498 fti  | -0.006 fti | 0.003 fti  | 0.004 fti |
| DZ |           |       | -1075.369 fti  | 0.010 fti  | 0.011 fti  | 0.004 fti |
| DX | CHESANING | NVA16 | -11787.164 fti | 0.015 fti  | 0.016 fti  | 0.004 fti |
| DY |           |       | -2220.498 fti  | 0.006 fti  | -0.014 fti | 0.004 fti |
| DZ |           |       | -1075.369 fti  | -0.023 fti | -0.019 fti | 0.004 fti |
| DX | CHESANING | NVA16 | -11787.164 fti | 0.014 fti  | 0.014 fti  | 0.004 fti |
| DY |           |       | -2220.498 fti  | -0.002 fti | -0.018 fti | 0.004 fti |
| DZ |           |       | -1075.369 fti  | -0.021 fti | -0.012 fti | 0.004 fti |
| DX | CHESANING | NVA16 | -11787.164 fti | -0.006 fti | -0.006 fti | 0.004 fti |
| DY |           |       | -2220.498 fti  | 0.000 fti  | 0.014 fti  | 0.004 fti |
| DZ |           |       | -1075.369 fti  | 0.019 fti  | 0.013 fti  | 0.004 fti |
| DX | CHESANING | NVA16 | -11787.164 fti | -0.010 fti | -0.009 fti | 0.004 fti |
| DY |           |       | -2220.498 fti  | 0.008 fti  | 0.017 fti  | 0.004 fti |
| DZ |           |       | -1075.369 fti  | 0.015 fti  | 0.004 fti  | 0.004 fti |
| DX | CHESANING | NVA16 | -11787.164 fti | 0.012 fti  | 0.010 fti  | 0.004 fti |
| DY |           |       | -2220.498 fti  | -0.014 fti | -0.005 fti | 0.004 fti |
| DZ |           |       | -1075.369 fti  | 0.007 fti  | 0.016 fti  | 0.004 fti |
| DX | CHESANING | NVA16 | -11787.164 fti | 0.005 fti  | 0.006 fti  | 0.004 fti |
| DY |           |       | -2220.498 fti  | 0.011 fti  | -0.004 fti | 0.004 fti |
| DZ |           |       | -1075.369 fti  | -0.015 fti | -0.018 fti | 0.004 fti |
| DX | CHESANING | NVA13 | -46979.260 fti | -0.007 fti | -0.009 fti | 0.010 fti |
| DY |           |       | -19223.945 fti | -0.022 fti | -0.006 fti | 0.010 fti |
| DZ |           |       | -15264.606 fti | 0.012 fti  | 0.023 fti  | 0.010 fti |
| DX | CHESANING | NVA13 | -46979.260 fti | 0.009 fti  | 0.009 fti  | 0.010 fti |
| DY |           |       | -19223.945 fti | -0.002 fti | 0.009 fti  | 0.010 fti |
| DZ |           |       | -15264.606 fti | 0.015 fti  | 0.013 fti  | 0.010 fti |
| DX | CHESANING | NVA13 | -46979.260 fti | 0.000 fti  | -0.003 fti | 0.010 fti |
| DY |           |       | -19223.945 fti | -0.031 fti | -0.005 fti | 0.010 fti |
| DZ |           |       | -15264.606 fti | 0.023 fti  | 0.038 fti  | 0.010 fti |
| DX | CHESANING | NVA13 | -46979.260 fti | -0.009 fti | -0.012 fti | 0.010 fti |
| DY |           |       | -19223.945 fti | -0.028 fti | -0.006 fti | 0.010 fti |
| DZ |           |       | -15264.606 fti | 0.018 fti  | 0.032 fti  | 0.010 fti |
| DX | CHESANING | NVA13 | -46979.260 fti | -0.030 fti | -0.027 fti | 0.010 fti |
| DY |           |       | -19223.945 fti | 0.026 fti  | -0.003 fti | 0.010 fti |
| DZ |           |       | -15264.606 fti | -0.031 fti | -0.042 fti | 0.010 fti |
| DX | CHESANING | NVA13 | -46979.260 fti | -0.028 fti | -0.025 fti | 0.010 fti |
| DY |           |       | -19223.945 fti | 0.027 fti  | 0.006 fti  | 0.010 fti |
| DZ |           |       | -15264.606 fti | -0.020 fti | -0.035 fti | 0.010 fti |
| DX | CHESANING | NVA13 | -46979.260 fti | 0.023 fti  | 0.024 fti  | 0.010 fti |
| DY |           |       | -19223.945 fti | 0.016 fti  | 0.007 fti  | 0.010 fti |
| DZ |           |       | -15264.606 fti | -0.003 fti | -0.012 fti | 0.010 fti |
| DX | CHESANING | NVA13 | -46979.260 fti | 0.042 fti  | 0.043 fti  | 0.010 fti |
| DY |           |       | -19223.945 fti | 0.015 fti  | -0.002 fti | 0.010 fti |
| DZ |           |       | -15264.606 fti | -0.013 fti | -0.016 fti | 0.010 fti |
| DX | BIRCH RUN | VVA4  | -14561.621 fti | -0.007 fti | -0.006 fti | 0.005 fti |
| DY |           |       | -9120.439 fti  | 0.012 fti  | -0.004 fti | 0.005 fti |
| DZ |           |       | -7996.533 fti  | -0.017 fti | -0.021 fti | 0.005 fti |
| DX | BIRCH RUN | VVA4  | -14561.621 fti | 0.003 fti  | 0.003 fti  | 0.005 fti |
| DY |           |       | -9120.439 fti  | 0.007 fti  | 0.004 fti  | 0.005 fti |
| DZ |           |       | -7996.533 fti  | 0.000 fti  | -0.005 fti | 0.005 fti |
| DX | BIRCH RUN | VVA4  | -14561.621 fti | -0.037 fti | -0.038 fti | 0.005 fti |
| DY |           |       | -9120.439 fti  | -0.006 fti | -0.004 fti | 0.005 fti |
| DZ |           |       | -7996.533 fti  | -0.003 fti | 0.000 fti  | 0.005 fti |
| DX | BIRCH RUN | VVA4  | -14561.621 fti | 0.001 fti  | -0.001 fti | 0.005 fti |
| DY |           |       | -9120.439 fti  | -0.022 fti | -0.004 fti | 0.005 fti |
| DZ |           |       | -7996.533 fti  | 0.016 fti  | 0.027 fti  | 0.005 fti |
| DX | BIRCH RUN | VVA4  | -14561.621 fti | -0.021 fti | -0.027 fti | 0.005 fti |
| DY |           |       | -9120.439 fti  | -0.056 fti | -0.019 fti | 0.005 fti |
| DZ |           |       | -7996.533 fti  | 0.025 fti  | 0.056 fti  | 0.005 fti |
| DX | BIRCH RUN | VVA4  | -14561.621 fti | 0.032 fti  | 0.037 fti  | 0.005 fti |
| DY |           |       | -9120.439 fti  | 0.045 fti  | 0.007 fti  | 0.005 fti |
| DZ |           |       | -7996.533 fti  | -0.029 fti | -0.050 fti | 0.005 fti |
| DX | BIRCH RUN | VVA4  | -14561.621 fti | -0.004 fti | -0.004 fti | 0.005 fti |
| DY |           |       | -9120.439 fti  | -0.005 fti | 0.002 fti  | 0.005 fti |
| DZ |           |       | -7996.533 fti  | 0.006 fti  | 0.007 fti  | 0.005 fti |

|    |           |       |                |            |            |           |
|----|-----------|-------|----------------|------------|------------|-----------|
|    | BIRCH RUN | VVA4  | -14561.621 fti | 0.033 fti  | 0.036 fti  | 0.005 fti |
| DY |           |       | -9120.439 fti  | 0.026 fti  | 0.017 fti  | 0.005 fti |
| DZ |           |       | -7996.533 fti  | 0.003 fti  | -0.014 fti | 0.005 fti |
| DX | BIRCH RUN | VVA29 | -13336.906 fti | 0.022 fti  | 0.027 fti  | 0.009 fti |
| DY |           |       | -31034.301 fti | 0.044 fti  | 0.008 fti  | 0.009 fti |
| DZ |           |       | -31309.216 fti | -0.028 fti | -0.050 fti | 0.009 fti |
| DX | BIRCH RUN | VVA29 | -13336.906 fti | 0.026 fti  | 0.028 fti  | 0.009 fti |
| DY |           |       | -31034.301 fti | 0.019 fti  | 0.000 fti  | 0.009 fti |
| DZ |           |       | -31309.216 fti | -0.015 fti | -0.022 fti | 0.009 fti |
| DX | BIRCH RUN | VVA29 | -13336.906 fti | 0.022 fti  | 0.024 fti  | 0.009 fti |
| DY |           |       | -31034.301 fti | 0.017 fti  | 0.005 fti  | 0.009 fti |
| DZ |           |       | -31309.216 fti | -0.006 fti | -0.014 fti | 0.009 fti |
| DX | BIRCH RUN | VVA29 | -13336.906 fti | 0.026 fti  | 0.027 fti  | 0.009 fti |
| DY |           |       | -31034.301 fti | 0.009 fti  | 0.013 fti  | 0.009 fti |
| DZ |           |       | -31309.216 fti | 0.012 fti  | 0.004 fti  | 0.009 fti |
| DX | BIRCH RUN | VVA29 | -13336.906 fti | -0.030 fti | -0.031 fti | 0.009 fti |
| DY |           |       | -31034.301 fti | -0.009 fti | -0.011 fti | 0.009 fti |
| DZ |           |       | -31309.216 fti | -0.010 fti | -0.002 fti | 0.009 fti |
| DX | BIRCH RUN | VVA29 | -13336.906 fti | -0.027 fti | -0.029 fti | 0.009 fti |
| DY |           |       | -31034.301 fti | -0.019 fti | -0.006 fti | 0.009 fti |
| DZ |           |       | -31309.216 fti | 0.006 fti  | 0.016 fti  | 0.009 fti |
| DX | BIRCH RUN | VVA29 | -13336.906 fti | -0.024 fti | -0.028 fti | 0.009 fti |
| DY |           |       | -31034.301 fti | -0.036 fti | -0.012 fti | 0.009 fti |
| DZ |           |       | -31309.216 fti | 0.015 fti  | 0.034 fti  | 0.009 fti |
| DX | BIRCH RUN | VVA29 | -13336.906 fti | -0.015 fti | -0.018 fti | 0.009 fti |
| DY |           |       | -31034.301 fti | -0.024 fti | 0.003 fti  | 0.009 fti |
| DZ |           |       | -31309.216 fti | 0.025 fti  | 0.034 fti  | 0.009 fti |
| DX | BIRCH RUN | VVA28 | -16396.451 fti | -0.008 fti | -0.007 fti | 0.006 fti |
| DY |           |       | -13228.941 fti | 0.006 fti  | 0.007 fti  | 0.006 fti |
| DZ |           |       | -12138.442 fti | 0.004 fti  | -0.002 fti | 0.006 fti |
| DX | BIRCH RUN | VVA28 | -16396.451 fti | -0.012 fti | -0.015 fti | 0.006 fti |
| DY |           |       | -13228.941 fti | -0.026 fti | -0.011 fti | 0.006 fti |
| DZ |           |       | -12138.442 fti | 0.007 fti  | 0.022 fti  | 0.006 fti |
| DX | BIRCH RUN | VVA28 | -16396.451 fti | -0.012 fti | -0.015 fti | 0.006 fti |
| DY |           |       | -13228.941 fti | -0.022 fti | -0.012 fti | 0.006 fti |
| DZ |           |       | -12138.442 fti | 0.003 fti  | 0.017 fti  | 0.006 fti |
| DX | BIRCH RUN | VVA28 | -16396.451 fti | -0.014 fti | -0.015 fti | 0.006 fti |
| DY |           |       | -13228.941 fti | -0.017 fti | -0.008 fti | 0.006 fti |
| DZ |           |       | -12138.442 fti | 0.004 fti  | 0.014 fti  | 0.006 fti |
| DX | BIRCH RUN | VVA28 | -16396.451 fti | 0.004 fti  | 0.002 fti  | 0.006 fti |
| DY |           |       | -13228.941 fti | -0.026 fti | -0.007 fti | 0.006 fti |
| DZ |           |       | -12138.442 fti | 0.015 fti  | 0.030 fti  | 0.006 fti |
| DX | BIRCH RUN | VVA28 | -16396.451 fti | 0.010 fti  | 0.011 fti  | 0.006 fti |
| DY |           |       | -13228.941 fti | 0.003 fti  | 0.003 fti  | 0.006 fti |
| DZ |           |       | -12138.442 fti | 0.003 fti  | 0.000 fti  | 0.006 fti |
| DX | BIRCH RUN | VVA28 | -16396.451 fti | 0.021 fti  | 0.025 fti  | 0.006 fti |
| DY |           |       | -13228.941 fti | 0.040 fti  | 0.014 fti  | 0.006 fti |
| DZ |           |       | -12138.442 fti | -0.016 fti | -0.038 fti | 0.006 fti |
| DX | BIRCH RUN | VVA28 | -16396.451 fti | 0.010 fti  | 0.015 fti  | 0.006 fti |
| DY |           |       | -13228.941 fti | 0.041 fti  | 0.013 fti  | 0.006 fti |
| DZ |           |       | -12138.442 fti | -0.020 fti | -0.043 fti | 0.006 fti |
| DX | BIRCH RUN | VVA21 | -18607.468 fti | -0.022 fti | -0.023 fti | 0.006 fti |
| DY |           |       | 6740.136 fti   | -0.005 fti | -0.014 fti | 0.006 fti |
| DZ |           |       | 9169.323 fti   | -0.017 fti | -0.010 fti | 0.006 fti |
| DX | BIRCH RUN | VVA21 | -18607.468 fti | -0.020 fti | -0.022 fti | 0.006 fti |
| DY |           |       | 6740.136 fti   | -0.017 fti | -0.017 fti | 0.006 fti |
| DZ |           |       | 9169.323 fti   | -0.010 fti | 0.004 fti  | 0.006 fti |
| DX | BIRCH RUN | VVA21 | -18607.468 fti | -0.014 fti | -0.016 fti | 0.006 fti |
| DY |           |       | 6740.136 fti   | -0.018 fti | -0.017 fti | 0.006 fti |
| DZ |           |       | 9169.323 fti   | -0.008 fti | 0.006 fti  | 0.006 fti |
| DX | BIRCH RUN | VVA21 | -18607.468 fti | -0.005 fti | -0.009 fti | 0.006 fti |
| DY |           |       | 6740.136 fti   | -0.030 fti | -0.018 fti | 0.006 fti |
| DZ |           |       | 9169.323 fti   | 0.003 fti  | 0.023 fti  | 0.006 fti |
| DX | BIRCH RUN | VVA21 | -18607.468 fti | 0.017 fti  | 0.018 fti  | 0.006 fti |
| DY |           |       | 6740.136 fti   | 0.009 fti  | 0.014 fti  | 0.006 fti |

|           |           |       |                |            |            |           |
|-----------|-----------|-------|----------------|------------|------------|-----------|
|           |           |       | 9169.323 fti   | 0.013 fti  | 0.004 fti  | 0.006 fti |
| <b>DX</b> | BIRCH RUN | VVA21 | -18607.468 fti | 0.015 fti  | 0.014 fti  | 0.006 fti |
| <b>DY</b> |           |       | 6740.136 fti   | -0.006 fti | 0.014 fti  | 0.006 fti |
| <b>DZ</b> |           |       | 9169.323 fti   | 0.026 fti  | 0.023 fti  | 0.006 fti |
| <b>DX</b> | BIRCH RUN | VVA21 | -18607.468 fti | 0.014 fti  | 0.019 fti  | 0.006 fti |
| <b>DY</b> |           |       | 6740.136 fti   | 0.049 fti  | 0.025 fti  | 0.006 fti |
| <b>DZ</b> |           |       | 9169.323 fti   | -0.010 fti | -0.041 fti | 0.006 fti |
| <b>DX</b> | BIRCH RUN | VVA21 | -18607.468 fti | 0.017 fti  | 0.019 fti  | 0.006 fti |
| <b>DY</b> |           |       | 6740.136 fti   | 0.019 fti  | 0.014 fti  | 0.006 fti |
| <b>DZ</b> |           |       | 9169.323 fti   | 0.003 fti  | -0.010 fti | 0.006 fti |
| <b>DX</b> | BIRCH RUN | VVA20 | 146.565 fti    | -0.004 fti | -0.007 fti | 0.004 fti |
| <b>DY</b> |           |       | 7376.191 fti   | -0.021 fti | -0.011 fti | 0.004 fti |
| <b>DZ</b> |           |       | 7737.936 fti   | 0.004 fti  | 0.018 fti  | 0.004 fti |
| <b>DX</b> | BIRCH RUN | VVA20 | 146.565 fti    | -0.002 fti | -0.004 fti | 0.004 fti |
| <b>DY</b> |           |       | 7376.191 fti   | -0.017 fti | -0.013 fti | 0.004 fti |
| <b>DZ</b> |           |       | 7737.936 fti   | -0.002 fti | 0.011 fti  | 0.004 fti |
| <b>DX</b> | BIRCH RUN | VVA20 | 146.565 fti    | 0.000 fti  | -0.002 fti | 0.004 fti |
| <b>DY</b> |           |       | 7376.191 fti   | -0.015 fti | -0.010 fti | 0.004 fti |
| <b>DZ</b> |           |       | 7737.936 fti   | 0.001 fti  | 0.012 fti  | 0.004 fti |
| <b>DX</b> | BIRCH RUN | VVA20 | 146.565 fti    | -0.001 fti | -0.001 fti | 0.004 fti |
| <b>DY</b> |           |       | 7376.191 fti   | -0.002 fti | 0.002 fti  | 0.004 fti |
| <b>DZ</b> |           |       | 7737.936 fti   | 0.004 fti  | 0.004 fti  | 0.004 fti |
| <b>DX</b> | BIRCH RUN | VVA20 | 146.565 fti    | -0.001 fti | 0.000 fti  | 0.004 fti |
| <b>DY</b> |           |       | 7376.191 fti   | 0.013 fti  | 0.009 fti  | 0.004 fti |
| <b>DZ</b> |           |       | 7737.936 fti   | 0.000 fti  | -0.009 fti | 0.004 fti |
| <b>DX</b> | BIRCH RUN | VVA20 | 146.565 fti    | 0.000 fti  | 0.000 fti  | 0.004 fti |
| <b>DY</b> |           |       | 7376.191 fti   | 0.002 fti  | -0.001 fti | 0.004 fti |
| <b>DZ</b> |           |       | 7737.936 fti   | -0.003 fti | -0.004 fti | 0.004 fti |
| <b>DX</b> | BIRCH RUN | VVA20 | 146.565 fti    | 0.002 fti  | 0.004 fti  | 0.004 fti |
| <b>DY</b> |           |       | 7376.191 fti   | 0.018 fti  | 0.010 fti  | 0.004 fti |
| <b>DZ</b> |           |       | 7737.936 fti   | -0.004 fti | -0.016 fti | 0.004 fti |
| <b>DX</b> | BIRCH RUN | VVA20 | 146.565 fti    | 0.007 fti  | 0.009 fti  | 0.004 fti |
| <b>DY</b> |           |       | 7376.191 fti   | 0.022 fti  | 0.014 fti  | 0.004 fti |
| <b>DZ</b> |           |       | 7737.936 fti   | 0.000 fti  | -0.016 fti | 0.004 fti |
| <b>DX</b> | BIRCH RUN | VVA19 | 14824.837 fti  | -0.009 fti | -0.008 fti | 0.005 fti |
| <b>DY</b> |           |       | -5865.985 fti  | 0.014 fti  | 0.009 fti  | 0.005 fti |
| <b>DZ</b> |           |       | -7881.084 fti  | -0.001 fti | -0.012 fti | 0.005 fti |
| <b>DX</b> | BIRCH RUN | VVA19 | 14824.837 fti  | -0.011 fti | -0.009 fti | 0.005 fti |
| <b>DY</b> |           |       | -5865.985 fti  | 0.014 fti  | 0.010 fti  | 0.005 fti |
| <b>DZ</b> |           |       | -7881.084 fti  | -0.001 fti | -0.012 fti | 0.005 fti |
| <b>DX</b> | BIRCH RUN | VVA19 | 14824.837 fti  | -0.015 fti | -0.014 fti | 0.005 fti |
| <b>DY</b> |           |       | -5865.985 fti  | 0.014 fti  | 0.008 fti  | 0.005 fti |
| <b>DZ</b> |           |       | -7881.084 fti  | -0.004 fti | -0.014 fti | 0.005 fti |
| <b>DX</b> | BIRCH RUN | VVA19 | 14824.837 fti  | -0.011 fti | -0.011 fti | 0.005 fti |
| <b>DY</b> |           |       | -5865.985 fti  | 0.000 fti  | 0.003 fti  | 0.005 fti |
| <b>DZ</b> |           |       | -7881.084 fti  | 0.003 fti  | 0.001 fti  | 0.005 fti |
| <b>DX</b> | BIRCH RUN | VVA19 | 14824.837 fti  | 0.012 fti  | 0.010 fti  | 0.005 fti |
| <b>DY</b> |           |       | -5865.985 fti  | -0.022 fti | -0.017 fti | 0.005 fti |
| <b>DZ</b> |           |       | -7881.084 fti  | -0.001 fti | 0.016 fti  | 0.005 fti |
| <b>DX</b> | BIRCH RUN | VVA19 | 14824.837 fti  | 0.012 fti  | 0.010 fti  | 0.005 fti |
| <b>DY</b> |           |       | -5865.985 fti  | -0.015 fti | -0.011 fti | 0.005 fti |
| <b>DZ</b> |           |       | -7881.084 fti  | 0.000 fti  | 0.012 fti  | 0.005 fti |
| <b>DX</b> | BIRCH RUN | VVA19 | 14824.837 fti  | 0.009 fti  | 0.009 fti  | 0.005 fti |
| <b>DY</b> |           |       | -5865.985 fti  | -0.007 fti | -0.004 fti | 0.005 fti |
| <b>DZ</b> |           |       | -7881.084 fti  | 0.002 fti  | 0.007 fti  | 0.005 fti |
| <b>DX</b> | BIRCH RUN | VVA19 | 14824.837 fti  | 0.014 fti  | 0.014 fti  | 0.005 fti |
| <b>DY</b> |           |       | -5865.985 fti  | 0.001 fti  | 0.002 fti  | 0.005 fti |
| <b>DZ</b> |           |       | -7881.084 fti  | 0.003 fti  | 0.003 fti  | 0.005 fti |
| <b>DX</b> | BIRCH RUN | VVA18 | 42715.201 fti  | -0.006 fti | -0.007 fti | 0.009 fti |
| <b>DY</b> |           |       | -2751.911 fti  | -0.004 fti | 0.007 fti  | 0.009 fti |
| <b>DZ</b> |           |       | -7744.164 fti  | 0.012 fti  | 0.010 fti  | 0.009 fti |
| <b>DX</b> | BIRCH RUN | VVA18 | 42715.201 fti  | -0.008 fti | -0.009 fti | 0.009 fti |
| <b>DY</b> |           |       | -2751.911 fti  | -0.016 fti | 0.012 fti  | 0.009 fti |
| <b>DZ</b> |           |       | -7744.164 fti  | 0.031 fti  | 0.033 fti  | 0.009 fti |
| <b>DX</b> | BIRCH RUN | VVA18 | 42715.201 fti  | -0.001 fti | -0.004 fti | 0.009 fti |

|    |           |       |               |            |            |           |
|----|-----------|-------|---------------|------------|------------|-----------|
|    |           |       | -2751.911 fti | -0.028 fti | 0.001 fti  | 0.009 fti |
| DZ |           |       | -7744.164 fti | 0.028 fti  | 0.040 fti  | 0.009 fti |
| DX | BIRCH RUN | VVA18 | 42715.201 fti | -0.001 fti | -0.005 fti | 0.009 fti |
| DY |           |       | -2751.911 fti | -0.036 fti | -0.002 fti | 0.009 fti |
| DZ |           |       | -7744.164 fti | 0.032 fti  | 0.048 fti  | 0.009 fti |
| DX | BIRCH RUN | VVA18 | 42715.201 fti | -0.001 fti | 0.003 fti  | 0.009 fti |
| DY |           |       | -2751.911 fti | 0.040 fti  | 0.000 fti  | 0.009 fti |
| DZ |           |       | -7744.164 fti | -0.037 fti | -0.055 fti | 0.009 fti |
| DX | BIRCH RUN | VVA18 | 42715.201 fti | 0.009 fti  | 0.010 fti  | 0.009 fti |
| DY |           |       | -2751.911 fti | 0.015 fti  | -0.013 fti | 0.009 fti |
| DZ |           |       | -7744.164 fti | -0.031 fti | -0.031 fti | 0.009 fti |
| DX | BIRCH RUN | VVA18 | 42715.201 fti | 0.005 fti  | 0.005 fti  | 0.009 fti |
| DY |           |       | -2751.911 fti | 0.008 fti  | -0.004 fti | 0.009 fti |
| DZ |           |       | -7744.164 fti | -0.012 fti | -0.013 fti | 0.009 fti |
| DX | BIRCH RUN | VVA18 | 42715.201 fti | 0.004 fti  | 0.006 fti  | 0.009 fti |
| DY |           |       | -2751.911 fti | 0.022 fti  | -0.002 fti | 0.009 fti |
| DZ |           |       | -7744.164 fti | -0.022 fti | -0.031 fti | 0.009 fti |
| DX | BIRCH RUN | VVA17 | 39887.160 fti | 0.018 fti  | 0.015 fti  | 0.008 fti |
| DY |           |       | 7751.321 fti  | -0.025 fti | -0.015 fti | 0.008 fti |
| DZ |           |       | 3621.929 fti  | 0.004 fti  | 0.022 fti  | 0.008 fti |
| DX | BIRCH RUN | VVA17 | 39887.160 fti | 0.017 fti  | 0.015 fti  | 0.008 fti |
| DY |           |       | 7751.321 fti  | -0.018 fti | -0.011 fti | 0.008 fti |
| DZ |           |       | 3621.929 fti  | 0.003 fti  | 0.016 fti  | 0.008 fti |
| DX | BIRCH RUN | VVA17 | 39887.160 fti | 0.008 fti  | 0.008 fti  | 0.008 fti |
| DY |           |       | 7751.321 fti  | -0.001 fti | -0.006 fti | 0.008 fti |
| DZ |           |       | 3621.929 fti  | -0.007 fti | -0.003 fti | 0.008 fti |
| DX | BIRCH RUN | VVA17 | 39887.160 fti | 0.009 fti  | 0.009 fti  | 0.008 fti |
| DY |           |       | 7751.321 fti  | 0.002 fti  | -0.004 fti | 0.008 fti |
| DZ |           |       | 3621.929 fti  | -0.005 fti | -0.004 fti | 0.008 fti |
| DX | BIRCH RUN | VVA17 | 39887.160 fti | -0.016 fti | -0.014 fti | 0.008 fti |
| DY |           |       | 7751.321 fti  | 0.024 fti  | 0.007 fti  | 0.008 fti |
| DZ |           |       | 3621.929 fti  | -0.014 fti | -0.029 fti | 0.008 fti |
| DX | BIRCH RUN | VVA17 | 39887.160 fti | -0.020 fti | -0.017 fti | 0.008 fti |
| DY |           |       | 7751.321 fti  | 0.024 fti  | 0.015 fti  | 0.008 fti |
| DZ |           |       | 3621.929 fti  | -0.004 fti | -0.022 fti | 0.008 fti |
| DX | BIRCH RUN | VVA17 | 39887.160 fti | -0.012 fti | -0.011 fti | 0.008 fti |
| DY |           |       | 7751.321 fti  | 0.005 fti  | 0.016 fti  | 0.008 fti |
| DZ |           |       | 3621.929 fti  | 0.017 fti  | 0.007 fti  | 0.008 fti |
| DX | BIRCH RUN | VVA17 | 39887.160 fti | -0.003 fti | -0.004 fti | 0.008 fti |
| DY |           |       | 7751.321 fti  | -0.011 fti | -0.002 fti | 0.008 fti |
| DZ |           |       | 3621.929 fti  | 0.007 fti  | 0.013 fti  | 0.008 fti |
| DX | BIRCH RUN | VVA16 | 1247.811 fti  | 0.016 fti  | 0.017 fti  | 0.006 fti |
| DY |           |       | 18024.792 fti | 0.009 fti  | 0.001 fti  | 0.006 fti |
| DZ |           |       | 18840.541 fti | -0.005 fti | -0.009 fti | 0.006 fti |
| DX | BIRCH RUN | VVA16 | 1247.811 fti  | 0.005 fti  | 0.007 fti  | 0.006 fti |
| DY |           |       | 18024.792 fti | 0.022 fti  | 0.005 fti  | 0.006 fti |
| DZ |           |       | 18840.541 fti | -0.012 fti | -0.024 fti | 0.006 fti |
| DX | BIRCH RUN | VVA16 | 1247.811 fti  | 0.002 fti  | 0.005 fti  | 0.006 fti |
| DY |           |       | 18024.792 fti | 0.033 fti  | 0.007 fti  | 0.006 fti |
| DZ |           |       | 18840.541 fti | -0.022 fti | -0.039 fti | 0.006 fti |
| DX | BIRCH RUN | VVA16 | 1247.811 fti  | 0.002 fti  | 0.006 fti  | 0.006 fti |
| DY |           |       | 18024.792 fti | 0.030 fti  | 0.009 fti  | 0.006 fti |
| DZ |           |       | 18840.541 fti | -0.016 fti | -0.033 fti | 0.006 fti |
| DX | BIRCH RUN | VVA16 | 1247.811 fti  | -0.002 fti | -0.003 fti | 0.006 fti |
| DY |           |       | 18024.792 fti | -0.016 fti | 0.001 fti  | 0.006 fti |
| DZ |           |       | 18840.541 fti | 0.016 fti  | 0.023 fti  | 0.006 fti |
| DX | BIRCH RUN | VVA16 | 1247.811 fti  | -0.008 fti | -0.011 fti | 0.006 fti |
| DY |           |       | 18024.792 fti | -0.025 fti | 0.001 fti  | 0.006 fti |
| DZ |           |       | 18840.541 fti | 0.023 fti  | 0.033 fti  | 0.006 fti |
| DX | BIRCH RUN | VVA16 | 1247.811 fti  | -0.007 fti | -0.013 fti | 0.006 fti |
| DY |           |       | 18024.792 fti | -0.050 fti | -0.019 fti | 0.006 fti |
| DZ |           |       | 18840.541 fti | 0.020 fti  | 0.049 fti  | 0.006 fti |
| DX | BIRCH RUN | VVA16 | 1247.811 fti  | -0.007 fti | -0.007 fti | 0.006 fti |
| DY |           |       | 18024.792 fti | -0.004 fti | -0.005 fti | 0.006 fti |
| DZ |           |       | 18840.541 fti | -0.004 fti | -0.001 fti | 0.006 fti |



|    |           |       |                |            |            |           |
|----|-----------|-------|----------------|------------|------------|-----------|
|    | BIRCH RUN | NVA5  | 23175.206 fti  | 0.002 fti  | 0.002 fti  | 0.006 fti |
| DY |           |       | 2559.656 fti   | 0.001 fti  | -0.012 fti | 0.006 fti |
| DZ |           |       | 49.747 fti     | -0.017 fti | -0.012 fti | 0.006 fti |
| DX | BIRCH RUN | NVA5  | 23175.206 fti  | -0.002 fti | -0.001 fti | 0.006 fti |
| DY |           |       | 2559.656 fti   | 0.008 fti  | -0.013 fti | 0.006 fti |
| DZ |           |       | 49.747 fti     | -0.026 fti | -0.024 fti | 0.006 fti |
| DX | BIRCH RUN | NVA5  | 23175.206 fti  | 0.001 fti  | 0.002 fti  | 0.006 fti |
| DY |           |       | 2559.656 fti   | 0.008 fti  | -0.018 fti | 0.006 fti |
| DZ |           |       | 49.747 fti     | -0.031 fti | -0.027 fti | 0.006 fti |
| DX | BIRCH RUN | NVA5  | 23175.206 fti  | 0.001 fti  | 0.002 fti  | 0.006 fti |
| DY |           |       | 2559.656 fti   | 0.010 fti  | -0.016 fti | 0.006 fti |
| DZ |           |       | 49.747 fti     | -0.030 fti | -0.028 fti | 0.006 fti |
| DX | BIRCH RUN | NVA5  | 23175.206 fti  | 0.004 fti  | 0.003 fti  | 0.006 fti |
| DY |           |       | 2559.656 fti   | -0.006 fti | 0.015 fti  | 0.006 fti |
| DZ |           |       | 49.747 fti     | 0.026 fti  | 0.022 fti  | 0.006 fti |
| DX | BIRCH RUN | NVA5  | 23175.206 fti  | -0.002 fti | -0.004 fti | 0.006 fti |
| DY |           |       | 2559.656 fti   | -0.020 fti | 0.012 fti  | 0.006 fti |
| DZ |           |       | 49.747 fti     | 0.035 fti  | 0.038 fti  | 0.006 fti |
| DX | BIRCH RUN | NVA5  | 23175.206 fti  | 0.001 fti  | 0.000 fti  | 0.006 fti |
| DY |           |       | 2559.656 fti   | -0.008 fti | 0.012 fti  | 0.006 fti |
| DZ |           |       | 49.747 fti     | 0.024 fti  | 0.022 fti  | 0.006 fti |
| DX | BIRCH RUN | NVA5  | 23175.206 fti  | -0.006 fti | -0.005 fti | 0.006 fti |
| DY |           |       | 2559.656 fti   | 0.007 fti  | 0.019 fti  | 0.006 fti |
| DZ |           |       | 49.747 fti     | 0.019 fti  | 0.008 fti  | 0.006 fti |
| DX | BIRCH RUN | NVA28 | -28686.661 fti | -0.014 fti | -0.014 fti | 0.008 fti |
| DY |           |       | 14858.254 fti  | -0.007 fti | -0.009 fti | 0.008 fti |
| DZ |           |       | 18845.178 fti  | -0.008 fti | -0.001 fti | 0.008 fti |
| DX | BIRCH RUN | NVA28 | -28686.661 fti | -0.017 fti | -0.018 fti | 0.008 fti |
| DY |           |       | 14858.254 fti  | -0.010 fti | -0.008 fti | 0.008 fti |
| DZ |           |       | 18845.178 fti  | -0.004 fti | 0.003 fti  | 0.008 fti |
| DX | BIRCH RUN | NVA28 | -28686.661 fti | 0.019 fti  | 0.018 fti  | 0.008 fti |
| DY |           |       | 14858.254 fti  | -0.007 fti | -0.004 fti | 0.008 fti |
| DZ |           |       | 18845.178 fti  | 0.003 fti  | 0.008 fti  | 0.008 fti |
| DX | BIRCH RUN | NVA28 | -28686.661 fti | 0.020 fti  | 0.018 fti  | 0.008 fti |
| DY |           |       | 14858.254 fti  | -0.016 fti | -0.016 fti | 0.008 fti |
| DZ |           |       | 18845.178 fti  | -0.005 fti | 0.010 fti  | 0.008 fti |
| DX | BIRCH RUN | NVA28 | -28686.661 fti | -0.005 fti | -0.005 fti | 0.008 fti |
| DY |           |       | 14858.254 fti  | -0.001 fti | 0.023 fti  | 0.008 fti |
| DZ |           |       | 18845.178 fti  | 0.032 fti  | 0.022 fti  | 0.008 fti |
| DX | BIRCH RUN | NVA28 | -28686.661 fti | -0.005 fti | -0.004 fti | 0.008 fti |
| DY |           |       | 14858.254 fti  | 0.013 fti  | 0.022 fti  | 0.008 fti |
| DZ |           |       | 18845.178 fti  | 0.017 fti  | 0.002 fti  | 0.008 fti |
| DX | BIRCH RUN | NVA28 | -28686.661 fti | 0.001 fti  | 0.002 fti  | 0.008 fti |
| DY |           |       | 14858.254 fti  | 0.009 fti  | -0.009 fti | 0.008 fti |
| DZ |           |       | 18845.178 fti  | -0.021 fti | -0.020 fti | 0.008 fti |
| DX | BIRCH RUN | NVA28 | -28686.661 fti | 0.001 fti  | 0.003 fti  | 0.008 fti |
| DY |           |       | 14858.254 fti  | 0.018 fti  | 0.001 fti  | 0.008 fti |
| DZ |           |       | 18845.178 fti  | -0.015 fti | -0.024 fti | 0.008 fti |
| DX | BIRCH RUN | NVA11 | -9429.599 fti  | 0.001 fti  | -0.001 fti | 0.004 fti |
| DY |           |       | -4707.106 fti  | -0.015 fti | -0.016 fti | 0.004 fti |
| DZ |           |       | -3912.285 fti  | -0.008 fti | 0.006 fti  | 0.004 fti |
| DX | BIRCH RUN | NVA11 | -9429.599 fti  | 0.007 fti  | 0.006 fti  | 0.004 fti |
| DY |           |       | -4707.106 fti  | -0.010 fti | -0.012 fti | 0.004 fti |
| DZ |           |       | -3912.285 fti  | -0.006 fti | 0.003 fti  | 0.004 fti |
| DX | BIRCH RUN | NVA11 | -9429.599 fti  | -0.005 fti | -0.004 fti | 0.004 fti |
| DY |           |       | -4707.106 fti  | 0.006 fti  | 0.000 fti  | 0.004 fti |
| DZ |           |       | -3912.285 fti  | -0.007 fti | -0.010 fti | 0.004 fti |
| DX | BIRCH RUN | NVA11 | -9429.599 fti  | -0.007 fti | -0.006 fti | 0.004 fti |
| DY |           |       | -4707.106 fti  | 0.010 fti  | 0.008 fti  | 0.004 fti |
| DZ |           |       | -3912.285 fti  | 0.001 fti  | -0.008 fti | 0.004 fti |
| DX | BIRCH RUN | NVA11 | -9429.599 fti  | -0.005 fti | -0.005 fti | 0.004 fti |
| DY |           |       | -4707.106 fti  | -0.004 fti | -0.003 fti | 0.004 fti |
| DZ |           |       | -3912.285 fti  | -0.001 fti | 0.002 fti  | 0.004 fti |
| DX | BIRCH RUN | NVA11 | -9429.599 fti  | -0.002 fti | -0.002 fti | 0.004 fti |
| DY |           |       | -4707.106 fti  | 0.005 fti  | 0.013 fti  | 0.004 fti |

|           |           |       |                |            |            |           |
|-----------|-----------|-------|----------------|------------|------------|-----------|
|           |           |       | -3912.285 fti  | 0.013 fti  | 0.005 fti  | 0.004 fti |
| <b>DX</b> | BIRCH RUN | NVA11 | -9429.599 fti  | 0.005 fti  | 0.005 fti  | 0.004 fti |
| <b>DY</b> |           |       | -4707.106 fti  | 0.000 fti  | 0.003 fti  | 0.004 fti |
| <b>DZ</b> |           |       | -3912.285 fti  | 0.004 fti  | 0.003 fti  | 0.004 fti |
| <b>DX</b> | BIRCH RUN | NVA11 | -9429.599 fti  | 0.005 fti  | 0.006 fti  | 0.004 fti |
| <b>DY</b> |           |       | -4707.106 fti  | 0.007 fti  | 0.008 fti  | 0.004 fti |
| <b>DZ</b> |           |       | -3912.285 fti  | 0.005 fti  | -0.001 fti | 0.004 fti |
| <b>DX</b> | HEMLOCK   | VVA7  | 28009.118 fti  | -0.003 fti | -0.007 fti | 0.009 fti |
| <b>DY</b> |           |       | -22446.198 fti | -0.036 fti | -0.006 fti | 0.009 fti |
| <b>DZ</b> |           |       | -26772.166 fti | 0.026 fti  | 0.043 fti  | 0.009 fti |
| <b>DX</b> | HEMLOCK   | VVA7  | 28009.118 fti  | -0.004 fti | -0.005 fti | 0.009 fti |
| <b>DY</b> |           |       | -22446.198 fti | -0.017 fti | -0.012 fti | 0.009 fti |
| <b>DZ</b> |           |       | -26772.166 fti | -0.001 fti | 0.011 fti  | 0.009 fti |
| <b>DX</b> | HEMLOCK   | VVA7  | 28009.118 fti  | -0.002 fti | -0.004 fti | 0.009 fti |
| <b>DY</b> |           |       | -22446.198 fti | -0.014 fti | 0.008 fti  | 0.009 fti |
| <b>DZ</b> |           |       | -26772.166 fti | 0.024 fti  | 0.026 fti  | 0.009 fti |
| <b>DX</b> | HEMLOCK   | VVA7  | 28009.118 fti  | -0.003 fti | -0.004 fti | 0.009 fti |
| <b>DY</b> |           |       | -22446.198 fti | -0.004 fti | 0.006 fti  | 0.009 fti |
| <b>DZ</b> |           |       | -26772.166 fti | 0.012 fti  | 0.011 fti  | 0.009 fti |
| <b>DX</b> | HEMLOCK   | VVA7  | 28009.118 fti  | -0.002 fti | -0.001 fti | 0.009 fti |
| <b>DY</b> |           |       | -22446.198 fti | 0.017 fti  | -0.003 fti | 0.009 fti |
| <b>DZ</b> |           |       | -26772.166 fti | -0.021 fti | -0.027 fti | 0.009 fti |
| <b>DX</b> | HEMLOCK   | VVA7  | 28009.118 fti  | 0.005 fti  | 0.005 fti  | 0.009 fti |
| <b>DY</b> |           |       | -22446.198 fti | 0.009 fti  | -0.012 fti | 0.009 fti |
| <b>DZ</b> |           |       | -26772.166 fti | -0.025 fti | -0.023 fti | 0.009 fti |
| <b>DX</b> | HEMLOCK   | VVA7  | 28009.118 fti  | 0.008 fti  | 0.011 fti  | 0.009 fti |
| <b>DY</b> |           |       | -22446.198 fti | 0.025 fti  | 0.007 fti  | 0.009 fti |
| <b>DZ</b> |           |       | -26772.166 fti | -0.013 fti | -0.027 fti | 0.009 fti |
| <b>DX</b> | HEMLOCK   | VVA7  | 28009.118 fti  | 0.002 fti  | 0.004 fti  | 0.009 fti |
| <b>DY</b> |           |       | -22446.198 fti | 0.019 fti  | 0.012 fti  | 0.009 fti |
| <b>DZ</b> |           |       | -26772.166 fti | -0.001 fti | -0.015 fti | 0.009 fti |
| <b>DX</b> | HEMLOCK   | VVA14 | -21873.263 fti | -0.012 fti | -0.013 fti | 0.007 fti |
| <b>DY</b> |           |       | -18560.940 fti | -0.009 fti | 0.006 fti  | 0.007 fti |
| <b>DZ</b> |           |       | -17248.209 fti | 0.016 fti  | 0.017 fti  | 0.007 fti |
| <b>DX</b> | HEMLOCK   | VVA14 | -21873.263 fti | -0.008 fti | -0.010 fti | 0.007 fti |
| <b>DY</b> |           |       | -18560.940 fti | -0.023 fti | -0.005 fti | 0.007 fti |
| <b>DZ</b> |           |       | -17248.209 fti | 0.014 fti  | 0.026 fti  | 0.007 fti |
| <b>DX</b> | HEMLOCK   | VVA14 | -21873.263 fti | 0.002 fti  | 0.000 fti  | 0.007 fti |
| <b>DY</b> |           |       | -18560.940 fti | -0.017 fti | 0.015 fti  | 0.007 fti |
| <b>DZ</b> |           |       | -17248.209 fti | 0.036 fti  | 0.037 fti  | 0.007 fti |
| <b>DX</b> | HEMLOCK   | VVA14 | -21873.263 fti | 0.011 fti  | 0.007 fti  | 0.007 fti |
| <b>DY</b> |           |       | -18560.940 fti | -0.040 fti | -0.015 fti | 0.007 fti |
| <b>DZ</b> |           |       | -17248.209 fti | 0.018 fti  | 0.042 fti  | 0.007 fti |
| <b>DX</b> | HEMLOCK   | VVA14 | -21873.263 fti | 0.009 fti  | 0.011 fti  | 0.007 fti |
| <b>DY</b> |           |       | -18560.940 fti | 0.023 fti  | 0.015 fti  | 0.007 fti |
| <b>DZ</b> |           |       | -17248.209 fti | -0.001 fti | -0.017 fti | 0.007 fti |
| <b>DX</b> | HEMLOCK   | VVA14 | -21873.263 fti | -0.004 fti | -0.002 fti | 0.007 fti |
| <b>DY</b> |           |       | -18560.940 fti | 0.026 fti  | 0.019 fti  | 0.007 fti |
| <b>DZ</b> |           |       | -17248.209 fti | 0.001 fti  | -0.018 fti | 0.007 fti |
| <b>DX</b> | HEMLOCK   | VVA14 | -21873.263 fti | 0.005 fti  | 0.007 fti  | 0.007 fti |
| <b>DY</b> |           |       | -18560.940 fti | 0.025 fti  | -0.016 fti | 0.007 fti |
| <b>DZ</b> |           |       | -17248.209 fti | -0.046 fti | -0.050 fti | 0.007 fti |
| <b>DX</b> | HEMLOCK   | VVA14 | -21873.263 fti | -0.001 fti | 0.000 fti  | 0.007 fti |
| <b>DY</b> |           |       | -18560.940 fti | 0.015 fti  | -0.018 fti | 0.007 fti |
| <b>DZ</b> |           |       | -17248.209 fti | -0.039 fti | -0.038 fti | 0.007 fti |
| <b>DX</b> | HEMLOCK   | NVA32 | 3897.529 fti   | -0.013 fti | -0.014 fti | 0.006 fti |
| <b>DY</b> |           |       | -19020.988 fti | -0.008 fti | 0.005 fti  | 0.006 fti |
| <b>DZ</b> |           |       | -20514.111 fti | 0.012 fti  | 0.013 fti  | 0.006 fti |
| <b>DX</b> | HEMLOCK   | NVA32 | 3897.529 fti   | -0.009 fti | -0.010 fti | 0.006 fti |
| <b>DY</b> |           |       | -19020.988 fti | -0.014 fti | 0.006 fti  | 0.006 fti |
| <b>DZ</b> |           |       | -20514.111 fti | 0.021 fti  | 0.023 fti  | 0.006 fti |
| <b>DX</b> | HEMLOCK   | NVA32 | 3897.529 fti   | 0.012 fti  | 0.010 fti  | 0.006 fti |
| <b>DY</b> |           |       | -19020.988 fti | -0.020 fti | -0.014 fti | 0.006 fti |
| <b>DZ</b> |           |       | -20514.111 fti | 0.001 fti  | 0.017 fti  | 0.006 fti |
| <b>DX</b> | HEMLOCK   | NVA32 | 3897.529 fti   | 0.008 fti  | 0.006 fti  | 0.006 fti |

|    |         |       |                |            |            |           |
|----|---------|-------|----------------|------------|------------|-----------|
| DZ |         |       | -19020.988 fti | -0.024 fti | -0.017 fti | 0.006 fti |
| DX | HEMLOCK | NVA32 | -20514.111 fti | 0.001 fti  | 0.019 fti  | 0.006 fti |
| DY |         |       | 3897.529 fti   | 0.010 fti  | 0.010 fti  | 0.006 fti |
| DZ |         |       | -19020.988 fti | -0.002 fti | -0.006 fti | 0.006 fti |
| DX | HEMLOCK | NVA32 | -20514.111 fti | -0.006 fti | -0.002 fti | 0.006 fti |
| DY |         |       | 3897.529 fti   | 0.007 fti  | 0.008 fti  | 0.006 fti |
| DZ |         |       | -19020.988 fti | 0.006 fti  | -0.013 fti | 0.006 fti |
| DX | HEMLOCK | NVA32 | -20514.111 fti | -0.023 fti | -0.020 fti | 0.006 fti |
| DY |         |       | 3897.529 fti   | -0.008 fti | -0.004 fti | 0.006 fti |
| DZ |         |       | -19020.988 fti | 0.033 fti  | 0.020 fti  | 0.006 fti |
| DX | HEMLOCK | NVA32 | -20514.111 fti | -0.004 fti | -0.028 fti | 0.006 fti |
| DY |         |       | 3897.529 fti   | -0.009 fti | -0.006 fti | 0.006 fti |
| DZ |         |       | -19020.988 fti | 0.028 fti  | 0.019 fti  | 0.006 fti |
| DX | HEMLOCK | NVA23 | -20514.111 fti | -0.002 fti | -0.022 fti | 0.006 fti |
| DY |         |       | 44510.100 fti  | 0.005 fti  | 0.006 fti  | 0.009 fti |
| DZ |         |       | 5965.942 fti   | 0.014 fti  | 0.013 fti  | 0.009 fti |
| DX | HEMLOCK | NVA23 | 1377.984 fti   | 0.004 fti  | -0.007 fti | 0.009 fti |
| DY |         |       | 44510.100 fti  | -0.002 fti | 0.000 fti  | 0.009 fti |
| DZ |         |       | 5965.942 fti   | 0.020 fti  | 0.016 fti  | 0.009 fti |
| DX | HEMLOCK | NVA23 | 1377.984 fti   | 0.003 fti  | -0.012 fti | 0.009 fti |
| DY |         |       | 44510.100 fti  | 0.006 fti  | 0.008 fti  | 0.009 fti |
| DZ |         |       | 5965.942 fti   | 0.019 fti  | -0.015 fti | 0.009 fti |
| DX | HEMLOCK | NVA23 | 1377.984 fti   | -0.037 fti | -0.039 fti | 0.009 fti |
| DY |         |       | 44510.100 fti  | 0.003 fti  | 0.005 fti  | 0.009 fti |
| DZ |         |       | 5965.942 fti   | 0.020 fti  | -0.013 fti | 0.009 fti |
| DX | HEMLOCK | NVA23 | 1377.984 fti   | -0.036 fti | -0.039 fti | 0.009 fti |
| DY |         |       | 44510.100 fti  | -0.014 fti | -0.017 fti | 0.009 fti |
| DZ |         |       | 5965.942 fti   | -0.030 fti | -0.011 fti | 0.009 fti |
| DX | HEMLOCK | NVA23 | 1377.984 fti   | 0.011 fti  | 0.028 fti  | 0.009 fti |
| DY |         |       | 44510.100 fti  | -0.014 fti | -0.017 fti | 0.009 fti |
| DZ |         |       | 5965.942 fti   | -0.029 fti | -0.009 fti | 0.009 fti |
| DX | HEMLOCK | NVA23 | 1377.984 fti   | 0.013 fti  | 0.029 fti  | 0.009 fti |
| DY |         |       | 44510.100 fti  | 0.012 fti  | 0.011 fti  | 0.009 fti |
| DZ |         |       | 5965.942 fti   | -0.018 fti | 0.007 fti  | 0.009 fti |
| DX | HEMLOCK | NVA23 | 1377.984 fti   | 0.028 fti  | 0.033 fti  | 0.009 fti |
| DY |         |       | 44510.100 fti  | 0.003 fti  | 0.003 fti  | 0.009 fti |
| DZ |         |       | 5965.942 fti   | 0.004 fti  | 0.012 fti  | 0.009 fti |
| DX | HEMLOCK | NVA15 | 1377.984 fti   | 0.014 fti  | 0.007 fti  | 0.009 fti |
| DY |         |       | -21275.466 fti | 0.007 fti  | 0.007 fti  | 0.010 fti |
| DZ |         |       | -33224.437 fti | 0.004 fti  | -0.005 fti | 0.010 fti |
| DX | HEMLOCK | NVA15 | -32803.863 fti | -0.009 fti | -0.009 fti | 0.010 fti |
| DY |         |       | -21275.466 fti | 0.000 fti  | 0.001 fti  | 0.010 fti |
| DZ |         |       | -33224.437 fti | 0.006 fti  | -0.006 fti | 0.010 fti |
| DX | HEMLOCK | NVA15 | -32803.863 fti | -0.014 fti | -0.014 fti | 0.010 fti |
| DY |         |       | -21275.466 fti | 0.021 fti  | 0.023 fti  | 0.010 fti |
| DZ |         |       | -33224.437 fti | 0.025 fti  | -0.027 fti | 0.010 fti |
| DX | HEMLOCK | NVA15 | -32803.863 fti | -0.058 fti | -0.056 fti | 0.010 fti |
| DY |         |       | -21275.466 fti | 0.028 fti  | 0.027 fti  | 0.010 fti |
| DZ |         |       | -33224.437 fti | -0.001 fti | -0.034 fti | 0.010 fti |
| DX | HEMLOCK | NVA15 | -32803.863 fti | -0.043 fti | -0.027 fti | 0.010 fti |
| DY |         |       | -21275.466 fti | -0.024 fti | -0.024 fti | 0.010 fti |
| DZ |         |       | -33224.437 fti | -0.001 fti | 0.024 fti  | 0.010 fti |
| DX | HEMLOCK | NVA15 | -32803.863 fti | 0.032 fti  | 0.021 fti  | 0.010 fti |
| DY |         |       | -21275.466 fti | -0.015 fti | -0.015 fti | 0.010 fti |
| DZ |         |       | -33224.437 fti | -0.002 fti | 0.027 fti  | 0.010 fti |
| DX | HEMLOCK | NVA15 | -32803.863 fti | 0.038 fti  | 0.026 fti  | 0.010 fti |
| DY |         |       | -21275.466 fti | -0.010 fti | -0.010 fti | 0.010 fti |
| DZ |         |       | -33224.437 fti | -0.009 fti | 0.009 fti  | 0.010 fti |
| DX | HEMLOCK | NVA15 | -32803.863 fti | 0.020 fti  | 0.019 fti  | 0.010 fti |
| DY |         |       | -21275.466 fti | -0.007 fti | -0.010 fti | 0.010 fti |
| DZ |         |       | -33224.437 fti | -0.022 fti | 0.012 fti  | 0.010 fti |
| DX | VVA25   | VVA2  | -32803.863 fti | 0.035 fti  | 0.039 fti  | 0.010 fti |
| DY |         |       | 3587.282 fti   | 0.022 fti  | 0.014 fti  | 0.005 fti |
| DZ |         |       | 11256.342 fti  | -0.071 fti | -0.054 fti | 0.005 fti |
| DX |         |       | 11531.598 fti  | -0.005 fti | 0.050 fti  | 0.005 fti |

|    |       |      |                |            |            |           |
|----|-------|------|----------------|------------|------------|-----------|
|    | VVA25 | VVA2 | 3587.282 fti   | 0.017 fti  | 0.005 fti  | 0.005 fti |
| DY |       |      | 11256.342 fti  | -0.111 fti | -0.081 fti | 0.005 fti |
| DZ |       |      | 11531.598 fti  | -0.005 fti | 0.078 fti  | 0.005 fti |
| DX | VVA25 | VVA2 | 3587.282 fti   | 0.000 fti  | -0.009 fti | 0.005 fti |
| DY |       |      | 11256.342 fti  | -0.089 fti | -0.055 fti | 0.005 fti |
| DZ |       |      | 11531.598 fti  | 0.008 fti  | 0.070 fti  | 0.005 fti |
| DX | VVA25 | VVA2 | 3587.282 fti   | 0.017 fti  | 0.022 fti  | 0.005 fti |
| DY |       |      | 11256.342 fti  | 0.052 fti  | 0.021 fti  | 0.005 fti |
| DZ |       |      | 11531.598 fti  | -0.018 fti | -0.049 fti | 0.005 fti |
| DX | VVA25 | VVA2 | 3587.282 fti   | -0.008 fti | 0.000 fti  | 0.005 fti |
| DY |       |      | 11256.342 fti  | 0.083 fti  | 0.055 fti  | 0.005 fti |
| DZ |       |      | 11531.598 fti  | -0.003 fti | -0.063 fti | 0.005 fti |
| DX | VVA25 | VVA2 | 3587.282 fti   | -0.008 fti | -0.006 fti | 0.005 fti |
| DY |       |      | 11256.342 fti  | 0.017 fti  | 0.063 fti  | 0.005 fti |
| DZ |       |      | 11531.598 fti  | 0.070 fti  | 0.035 fti  | 0.005 fti |
| DX | VVA25 | VVA2 | 3587.282 fti   | -0.004 fti | 0.003 fti  | 0.005 fti |
| DY |       |      | 11256.342 fti  | 0.074 fti  | 0.046 fti  | 0.005 fti |
| DZ |       |      | 11531.598 fti  | -0.007 fti | -0.058 fti | 0.005 fti |
| DX | VVA25 | VVA2 | 3587.282 fti   | -0.036 fti | -0.031 fti | 0.005 fti |
| DY |       |      | 11256.342 fti  | 0.047 fti  | 0.005 fti  | 0.005 fti |
| DZ |       |      | 11531.598 fti  | -0.040 fti | -0.064 fti | 0.005 fti |
| DX | VVA25 | VVA1 | 5946.675 fti   | -0.011 fti | -0.011 fti | 0.006 fti |
| DY |       |      | -13764.776 fti | 0.000 fti  | -0.001 fti | 0.006 fti |
| DZ |       |      | -15190.181 fti | -0.002 fti | -0.002 fti | 0.006 fti |
| DX | VVA25 | VVA1 | 5946.675 fti   | -0.009 fti | -0.011 fti | 0.006 fti |
| DY |       |      | -13764.776 fti | -0.012 fti | 0.016 fti  | 0.006 fti |
| DZ |       |      | -15190.181 fti | 0.032 fti  | 0.030 fti  | 0.006 fti |
| DX | VVA25 | VVA1 | 5946.675 fti   | -0.042 fti | -0.040 fti | 0.006 fti |
| DY |       |      | -13764.776 fti | 0.009 fti  | -0.024 fti | 0.006 fti |
| DZ |       |      | -15190.181 fti | -0.045 fti | -0.041 fti | 0.006 fti |
| DX | VVA25 | VVA1 | 5946.675 fti   | -0.019 fti | -0.016 fti | 0.006 fti |
| DY |       |      | -13764.776 fti | 0.031 fti  | -0.013 fti | 0.006 fti |
| DZ |       |      | -15190.181 fti | -0.049 fti | -0.057 fti | 0.006 fti |
| DX | VVA25 | VVA1 | 5946.675 fti   | 0.037 fti  | 0.036 fti  | 0.006 fti |
| DY |       |      | -13764.776 fti | -0.010 fti | 0.021 fti  | 0.006 fti |
| DZ |       |      | -15190.181 fti | 0.041 fti  | 0.038 fti  | 0.006 fti |
| DX | VVA25 | VVA1 | 5946.675 fti   | 0.020 fti  | 0.018 fti  | 0.006 fti |
| DY |       |      | -13764.776 fti | -0.024 fti | -0.014 fti | 0.006 fti |
| DZ |       |      | -15190.181 fti | 0.005 fti  | 0.022 fti  | 0.006 fti |
| DX | VVA25 | VVA1 | 5946.675 fti   | 0.014 fti  | 0.012 fti  | 0.006 fti |
| DY |       |      | -13764.776 fti | -0.024 fti | -0.015 fti | 0.006 fti |
| DZ |       |      | -15190.181 fti | 0.003 fti  | 0.020 fti  | 0.006 fti |
| DX | VVA25 | VVA1 | 5946.675 fti   | 0.010 fti  | 0.013 fti  | 0.006 fti |
| DY |       |      | -13764.776 fti | 0.029 fti  | 0.030 fti  | 0.006 fti |
| DZ |       |      | -15190.181 fti | 0.015 fti  | -0.010 fti | 0.006 fti |
| DX | BAYR  | VVA9 | -39748.593 fti | 0.014 fti  | 0.016 fti  | 0.009 fti |
| DY |       |      | 15357.986 fti  | 0.016 fti  | 0.012 fti  | 0.009 fti |
| DZ |       |      | 20535.674 fti  | 0.003 fti  | -0.008 fti | 0.009 fti |
| DX | BAYR  | VVA9 | -39748.593 fti | 0.008 fti  | 0.008 fti  | 0.009 fti |
| DY |       |      | 15357.986 fti  | 0.005 fti  | 0.012 fti  | 0.009 fti |
| DZ |       |      | 20535.674 fti  | 0.012 fti  | 0.005 fti  | 0.009 fti |
| DX | BAYR  | VVA9 | -39748.593 fti | -0.011 fti | -0.015 fti | 0.009 fti |
| DY |       |      | 15357.986 fti  | -0.045 fti | -0.015 fti | 0.009 fti |
| DZ |       |      | 20535.674 fti  | 0.020 fti  | 0.045 fti  | 0.009 fti |
| DX | BAYR  | VVA9 | -39748.593 fti | -0.013 fti | -0.019 fti | 0.009 fti |
| DY |       |      | 15357.986 fti  | -0.054 fti | -0.021 fti | 0.009 fti |
| DZ |       |      | 20535.674 fti  | 0.020 fti  | 0.052 fti  | 0.009 fti |
| DX | BAYR  | VVA9 | -39748.593 fti | -0.003 fti | 0.001 fti  | 0.009 fti |
| DY |       |      | 15357.986 fti  | 0.032 fti  | 0.000 fti  | 0.009 fti |
| DZ |       |      | 20535.674 fti  | -0.031 fti | -0.045 fti | 0.009 fti |
| DX | BAYR  | VVA9 | -39748.593 fti | -0.005 fti | -0.002 fti | 0.009 fti |
| DY |       |      | 15357.986 fti  | 0.029 fti  | 0.007 fti  | 0.009 fti |
| DZ |       |      | 20535.674 fti  | -0.018 fti | -0.033 fti | 0.009 fti |
| DX | BAYR  | VVA9 | -39748.593 fti | 0.003 fti  | 0.004 fti  | 0.009 fti |
| DY |       |      | 15357.986 fti  | 0.018 fti  | 0.012 fti  | 0.009 fti |

|           |      |      |                |            |            |           |
|-----------|------|------|----------------|------------|------------|-----------|
|           |      |      | 20535.674 fti  | -0.001 fti | -0.013 fti | 0.009 fti |
| <b>DX</b> | BAYR | VVA9 | -39748.593 fti | 0.007 fti  | 0.007 fti  | 0.009 fti |
| <b>DY</b> |      |      | 15357.986 fti  | -0.002 fti | -0.006 fti | 0.009 fti |
| <b>DZ</b> |      |      | 20535.674 fti  | -0.006 fti | -0.002 fti | 0.009 fti |
| <b>DX</b> | BAYR | VVA8 | -55124.049 fti | 0.019 fti  | 0.014 fti  | 0.010 fti |
| <b>DY</b> |      |      | 4860.969 fti   | -0.050 fti | -0.026 fti | 0.010 fti |
| <b>DZ</b> |      |      | 11168.663 fti  | 0.013 fti  | 0.047 fti  | 0.010 fti |
| <b>DX</b> | BAYR | VVA8 | -55124.049 fti | 0.017 fti  | 0.015 fti  | 0.010 fti |
| <b>DY</b> |      |      | 4860.969 fti   | -0.015 fti | -0.018 fti | 0.010 fti |
| <b>DZ</b> |      |      | 11168.663 fti  | -0.009 fti | 0.006 fti  | 0.010 fti |
| <b>DX</b> | BAYR | VVA8 | -55124.049 fti | -0.012 fti | -0.010 fti | 0.010 fti |
| <b>DY</b> |      |      | 4860.969 fti   | 0.021 fti  | 0.025 fti  | 0.010 fti |
| <b>DZ</b> |      |      | 11168.663 fti  | 0.013 fti  | -0.008 fti | 0.010 fti |
| <b>DX</b> | BAYR | VVA8 | -55124.049 fti | -0.017 fti | -0.012 fti | 0.010 fti |
| <b>DY</b> |      |      | 4860.969 fti   | 0.052 fti  | 0.034 fti  | 0.010 fti |
| <b>DZ</b> |      |      | 11168.663 fti  | -0.004 fti | -0.042 fti | 0.010 fti |
| <b>DX</b> | BAYR | VVA8 | -55124.049 fti | -0.005 fti | -0.005 fti | 0.010 fti |
| <b>DY</b> |      |      | 4860.969 fti   | -0.004 fti | 0.008 fti  | 0.010 fti |
| <b>DZ</b> |      |      | 11168.663 fti  | 0.014 fti  | 0.012 fti  | 0.010 fti |
| <b>DX</b> | BAYR | VVA8 | -55124.049 fti | -0.001 fti | 0.000 fti  | 0.010 fti |
| <b>DY</b> |      |      | 4860.969 fti   | 0.005 fti  | 0.008 fti  | 0.010 fti |
| <b>DZ</b> |      |      | 11168.663 fti  | 0.005 fti  | 0.000 fti  | 0.010 fti |
| <b>DX</b> | BAYR | VVA8 | -55124.049 fti | 0.000 fti  | 0.000 fti  | 0.010 fti |
| <b>DY</b> |      |      | 4860.969 fti   | -0.003 fti | -0.016 fti | 0.010 fti |
| <b>DZ</b> |      |      | 11168.663 fti  | -0.020 fti | -0.012 fti | 0.010 fti |
| <b>DX</b> | BAYR | VVA8 | -55124.049 fti | -0.001 fti | -0.002 fti | 0.010 fti |
| <b>DY</b> |      |      | 4860.969 fti   | -0.007 fti | -0.014 fti | 0.010 fti |
| <b>DZ</b> |      |      | 11168.663 fti  | -0.013 fti | -0.004 fti | 0.010 fti |
| <b>DX</b> | BAYR | VVA6 | -4602.201 fti  | -0.006 fti | -0.005 fti | 0.005 fti |
| <b>DY</b> |      |      | 10292.491 fti  | 0.013 fti  | 0.004 fti  | 0.005 fti |
| <b>DZ</b> |      |      | 11277.277 fti  | -0.008 fti | -0.015 fti | 0.005 fti |
| <b>DX</b> | BAYR | VVA6 | -4602.201 fti  | -0.003 fti | -0.002 fti | 0.005 fti |
| <b>DY</b> |      |      | 10292.491 fti  | 0.011 fti  | 0.006 fti  | 0.005 fti |
| <b>DZ</b> |      |      | 11277.277 fti  | -0.003 fti | -0.011 fti | 0.005 fti |
| <b>DX</b> | BAYR | VVA6 | -4602.201 fti  | -0.001 fti | -0.001 fti | 0.005 fti |
| <b>DY</b> |      |      | 10292.491 fti  | 0.001 fti  | -0.002 fti | 0.005 fti |
| <b>DZ</b> |      |      | 11277.277 fti  | -0.004 fti | -0.003 fti | 0.005 fti |
| <b>DX</b> | BAYR | VVA6 | -4602.201 fti  | -0.003 fti | -0.002 fti | 0.005 fti |
| <b>DY</b> |      |      | 10292.491 fti  | 0.004 fti  | -0.003 fti | 0.005 fti |
| <b>DZ</b> |      |      | 11277.277 fti  | -0.009 fti | -0.010 fti | 0.005 fti |
| <b>DX</b> | BAYR | VVA6 | -4602.201 fti  | -0.001 fti | -0.002 fti | 0.005 fti |
| <b>DY</b> |      |      | 10292.491 fti  | -0.008 fti | 0.000 fti  | 0.005 fti |
| <b>DZ</b> |      |      | 11277.277 fti  | 0.008 fti  | 0.011 fti  | 0.005 fti |
| <b>DX</b> | BAYR | VVA6 | -4602.201 fti  | 0.000 fti  | -0.001 fti | 0.005 fti |
| <b>DY</b> |      |      | 10292.491 fti  | -0.006 fti | 0.007 fti  | 0.005 fti |
| <b>DZ</b> |      |      | 11277.277 fti  | 0.015 fti  | 0.015 fti  | 0.005 fti |
| <b>DX</b> | BAYR | VVA6 | -4602.201 fti  | 0.008 fti  | 0.007 fti  | 0.005 fti |
| <b>DY</b> |      |      | 10292.491 fti  | -0.008 fti | -0.008 fti | 0.005 fti |
| <b>DZ</b> |      |      | 11277.277 fti  | -0.002 fti | 0.005 fti  | 0.005 fti |
| <b>DX</b> | BAYR | VVA6 | -4602.201 fti  | 0.006 fti  | 0.005 fti  | 0.005 fti |
| <b>DY</b> |      |      | 10292.491 fti  | -0.008 fti | -0.003 fti | 0.005 fti |
| <b>DZ</b> |      |      | 11277.277 fti  | 0.003 fti  | 0.008 fti  | 0.005 fti |
| <b>DX</b> | BAYR | VVA5 | -11377.890 fti | -0.011 fti | -0.010 fti | 0.007 fti |
| <b>DY</b> |      |      | 19035.003 fti  | 0.011 fti  | -0.012 fti | 0.007 fti |
| <b>DZ</b> |      |      | 21190.801 fti  | -0.028 fti | -0.029 fti | 0.007 fti |
| <b>DX</b> | BAYR | VVA5 | -11377.890 fti | -0.008 fti | -0.008 fti | 0.007 fti |
| <b>DY</b> |      |      | 19035.003 fti  | -0.002 fti | -0.022 fti | 0.007 fti |
| <b>DZ</b> |      |      | 21190.801 fti  | -0.030 fti | -0.020 fti | 0.007 fti |
| <b>DX</b> | BAYR | VVA5 | -11377.890 fti | -0.007 fti | -0.007 fti | 0.007 fti |
| <b>DY</b> |      |      | 19035.003 fti  | 0.000 fti  | -0.017 fti | 0.007 fti |
| <b>DZ</b> |      |      | 21190.801 fti  | -0.024 fti | -0.017 fti | 0.007 fti |
| <b>DX</b> | BAYR | VVA5 | -11377.890 fti | -0.013 fti | -0.012 fti | 0.007 fti |
| <b>DY</b> |      |      | 19035.003 fti  | 0.012 fti  | -0.001 fti | 0.007 fti |
| <b>DZ</b> |      |      | 21190.801 fti  | -0.014 fti | -0.019 fti | 0.007 fti |
| <b>DX</b> | BAYR | VVA5 | -11377.890 fti | 0.013 fti  | 0.013 fti  | 0.007 fti |

|    |      |       |                |            |            |           |
|----|------|-------|----------------|------------|------------|-----------|
|    |      |       | 19035.003 fti  | 0.000 fti  | 0.011 fti  | 0.007 fti |
| DZ |      |       | 21190.801 fti  | 0.017 fti  | 0.013 fti  | 0.007 fti |
| DX | BAYR | VVA5  | -11377.890 fti | 0.010 fti  | 0.009 fti  | 0.007 fti |
| DY |      |       | 19035.003 fti  | -0.009 fti | 0.017 fti  | 0.007 fti |
| DZ |      |       | 21190.801 fti  | 0.033 fti  | 0.030 fti  | 0.007 fti |
| DX | BAYR | VVA5  | -11377.890 fti | 0.014 fti  | 0.011 fti  | 0.007 fti |
| DY |      |       | 19035.003 fti  | -0.023 fti | 0.004 fti  | 0.007 fti |
| DZ |      |       | 21190.801 fti  | 0.029 fti  | 0.038 fti  | 0.007 fti |
| DX | BAYR | VVA5  | -11377.890 fti | 0.002 fti  | 0.003 fti  | 0.007 fti |
| DY |      |       | 19035.003 fti  | 0.011 fti  | 0.021 fti  | 0.007 fti |
| DZ |      |       | 21190.801 fti  | 0.018 fti  | 0.004 fti  | 0.007 fti |
| DX | BAYR | VVA3  | 9108.531 fti   | 0.004 fti  | 0.008 fti  | 0.007 fti |
| DY |      |       | -19356.722 fti | 0.037 fti  | -0.016 fti | 0.007 fti |
| DZ |      |       | -21354.639 fti | -0.056 fti | -0.065 fti | 0.007 fti |
| DX | BAYR | VVA3  | 9108.531 fti   | 0.047 fti  | 0.049 fti  | 0.007 fti |
| DY |      |       | -19356.722 fti | 0.021 fti  | 0.001 fti  | 0.007 fti |
| DZ |      |       | -21354.639 fti | -0.014 fti | -0.022 fti | 0.007 fti |
| DX | BAYR | VVA3  | 9108.531 fti   | 0.024 fti  | 0.025 fti  | 0.007 fti |
| DY |      |       | -19356.722 fti | 0.004 fti  | 0.021 fti  | 0.007 fti |
| DZ |      |       | -21354.639 fti | 0.027 fti  | 0.018 fti  | 0.007 fti |
| DX | BAYR | VVA3  | 9108.531 fti   | -0.020 fti | -0.020 fti | 0.007 fti |
| DY |      |       | -19356.722 fti | -0.003 fti | -0.003 fti | 0.007 fti |
| DZ |      |       | -21354.639 fti | -0.003 fti | -0.001 fti | 0.007 fti |
| DX | BAYR | VVA3  | 9108.531 fti   | -0.039 fti | -0.042 fti | 0.007 fti |
| DY |      |       | -19356.722 fti | -0.030 fti | -0.011 fti | 0.007 fti |
| DZ |      |       | -21354.639 fti | 0.009 fti  | 0.025 fti  | 0.007 fti |
| DX | BAYR | VVA3  | 9108.531 fti   | -0.032 fti | -0.038 fti | 0.007 fti |
| DY |      |       | -19356.722 fti | -0.058 fti | -0.025 fti | 0.007 fti |
| DZ |      |       | -21354.639 fti | 0.017 fti  | 0.051 fti  | 0.007 fti |
| DX | BAYR | VVA3  | 9108.531 fti   | 0.009 fti  | 0.007 fti  | 0.007 fti |
| DY |      |       | -19356.722 fti | -0.014 fti | -0.003 fti | 0.007 fti |
| DZ |      |       | -21354.639 fti | 0.010 fti  | 0.018 fti  | 0.007 fti |
| DX | BAYR | VVA3  | 9108.531 fti   | 0.007 fti  | 0.011 fti  | 0.007 fti |
| DY |      |       | -19356.722 fti | 0.044 fti  | 0.036 fti  | 0.007 fti |
| DZ |      |       | -21354.639 fti | 0.009 fti  | -0.025 fti | 0.007 fti |
| DX | BAYR | VVA13 | 20660.617 fti  | 0.006 fti  | 0.005 fti  | 0.006 fti |
| DY |      |       | -7619.831 fti  | -0.010 fti | -0.003 fti | 0.006 fti |
| DZ |      |       | -10337.794 fti | 0.006 fti  | 0.012 fti  | 0.006 fti |
| DX | BAYR | VVA13 | 20660.617 fti  | 0.001 fti  | 0.001 fti  | 0.006 fti |
| DY |      |       | -7619.831 fti  | 0.000 fti  | 0.003 fti  | 0.006 fti |
| DZ |      |       | -10337.794 fti | 0.004 fti  | 0.003 fti  | 0.006 fti |
| DX | BAYR | VVA13 | 20660.617 fti  | 0.006 fti  | 0.006 fti  | 0.006 fti |
| DY |      |       | -7619.831 fti  | 0.005 fti  | -0.002 fti | 0.006 fti |
| DZ |      |       | -10337.794 fti | -0.007 fti | -0.008 fti | 0.006 fti |
| DX | BAYR | VVA13 | 20660.617 fti  | 0.005 fti  | 0.006 fti  | 0.006 fti |
| DY |      |       | -7619.831 fti  | 0.006 fti  | -0.004 fti | 0.006 fti |
| DZ |      |       | -10337.794 fti | -0.011 fti | -0.011 fti | 0.006 fti |
| DX | BAYR | VVA13 | 20660.617 fti  | -0.014 fti | -0.014 fti | 0.006 fti |
| DY |      |       | -7619.831 fti  | -0.004 fti | -0.001 fti | 0.006 fti |
| DZ |      |       | -10337.794 fti | 0.001 fti  | 0.002 fti  | 0.006 fti |
| DX | BAYR | VVA13 | 20660.617 fti  | -0.006 fti | -0.006 fti | 0.006 fti |
| DY |      |       | -7619.831 fti  | 0.002 fti  | 0.011 fti  | 0.006 fti |
| DZ |      |       | -10337.794 fti | 0.012 fti  | 0.006 fti  | 0.006 fti |
| DX | BAYR | VVA13 | 20660.617 fti  | -0.001 fti | -0.001 fti | 0.006 fti |
| DY |      |       | -7619.831 fti  | 0.001 fti  | -0.004 fti | 0.006 fti |
| DZ |      |       | -10337.794 fti | -0.006 fti | -0.005 fti | 0.006 fti |
| DX | BAYR | VVA13 | 20660.617 fti  | 0.003 fti  | 0.003 fti  | 0.006 fti |
| DY |      |       | -7619.831 fti  | 0.000 fti  | 0.001 fti  | 0.006 fti |
| DZ |      |       | -10337.794 fti | 0.002 fti  | 0.002 fti  | 0.006 fti |
| DX | BAYR | VVA11 | 18621.155 fti  | -0.018 fti | -0.018 fti | 0.006 fti |
| DY |      |       | 10399.220 fti  | 0.005 fti  | 0.009 fti  | 0.006 fti |
| DZ |      |       | 8780.918 fti   | 0.006 fti  | -0.001 fti | 0.006 fti |
| DX | BAYR | VVA11 | 18621.155 fti  | -0.022 fti | -0.021 fti | 0.006 fti |
| DY |      |       | 10399.220 fti  | 0.002 fti  | 0.013 fti  | 0.006 fti |
| DZ |      |       | 8780.918 fti   | 0.014 fti  | 0.007 fti  | 0.006 fti |

|    |      |       |                |            |            |           |
|----|------|-------|----------------|------------|------------|-----------|
|    | BAYR | VVA11 | 18621.155 fti  | -0.028 fti | -0.027 fti | 0.006 fti |
| DY |      |       | 10399.220 fti  | 0.009 fti  | 0.014 fti  | 0.006 fti |
| DZ |      |       | 8780.918 fti   | 0.008 fti  | -0.004 fti | 0.006 fti |
| DX | BAYR | VVA11 | 18621.155 fti  | -0.027 fti | -0.026 fti | 0.006 fti |
| DY |      |       | 10399.220 fti  | 0.006 fti  | 0.012 fti  | 0.006 fti |
| DZ |      |       | 8780.918 fti   | 0.009 fti  | 0.000 fti  | 0.006 fti |
| DX | BAYR | VVA11 | 18621.155 fti  | 0.027 fti  | 0.024 fti  | 0.006 fti |
| DY |      |       | 10399.220 fti  | -0.026 fti | -0.014 fti | 0.006 fti |
| DZ |      |       | 8780.918 fti   | 0.008 fti  | 0.026 fti  | 0.006 fti |
| DX | BAYR | VVA11 | 18621.155 fti  | 0.025 fti  | 0.024 fti  | 0.006 fti |
| DY |      |       | 10399.220 fti  | -0.010 fti | -0.010 fti | 0.006 fti |
| DZ |      |       | 8780.918 fti   | -0.002 fti | 0.008 fti  | 0.006 fti |
| DX | BAYR | VVA11 | 18621.155 fti  | 0.022 fti  | 0.023 fti  | 0.006 fti |
| DY |      |       | 10399.220 fti  | 0.005 fti  | -0.011 fti | 0.006 fti |
| DZ |      |       | 8780.918 fti   | -0.018 fti | -0.014 fti | 0.006 fti |
| DX | BAYR | VVA11 | 18621.155 fti  | 0.021 fti  | 0.022 fti  | 0.006 fti |
| DY |      |       | 10399.220 fti  | 0.009 fti  | -0.013 fti | 0.006 fti |
| DZ |      |       | 8780.918 fti   | -0.025 fti | -0.022 fti | 0.006 fti |
| DX | BAYR | NVA37 | 13917.371 fti  | 0.014 fti  | 0.012 fti  | 0.005 fti |
| DY |      |       | 6150.113 fti   | -0.024 fti | -0.007 fti | 0.005 fti |
| DZ |      |       | 4859.252 fti   | 0.014 fti  | 0.028 fti  | 0.005 fti |
| DX | BAYR | NVA37 | 13917.371 fti  | 0.016 fti  | 0.015 fti  | 0.005 fti |
| DY |      |       | 6150.113 fti   | -0.004 fti | -0.002 fti | 0.005 fti |
| DZ |      |       | 4859.252 fti   | 0.002 fti  | 0.005 fti  | 0.005 fti |
| DX | BAYR | NVA37 | 13917.371 fti  | 0.009 fti  | 0.008 fti  | 0.005 fti |
| DY |      |       | 6150.113 fti   | -0.012 fti | -0.012 fti | 0.005 fti |
| DZ |      |       | 4859.252 fti   | -0.004 fti | 0.006 fti  | 0.005 fti |
| DX | BAYR | NVA37 | 13917.371 fti  | 0.004 fti  | 0.004 fti  | 0.005 fti |
| DY |      |       | 6150.113 fti   | -0.006 fti | -0.010 fti | 0.005 fti |
| DZ |      |       | 4859.252 fti   | -0.008 fti | -0.001 fti | 0.005 fti |
| DX | BAYR | NVA37 | 13917.371 fti  | -0.012 fti | -0.010 fti | 0.005 fti |
| DY |      |       | 6150.113 fti   | 0.023 fti  | 0.018 fti  | 0.005 fti |
| DZ |      |       | 4859.252 fti   | 0.001 fti  | -0.017 fti | 0.005 fti |
| DX | BAYR | NVA37 | 13917.371 fti  | -0.014 fti | -0.012 fti | 0.005 fti |
| DY |      |       | 6150.113 fti   | 0.016 fti  | 0.016 fti  | 0.005 fti |
| DZ |      |       | 4859.252 fti   | 0.005 fti  | -0.009 fti | 0.005 fti |
| DX | BAYR | NVA37 | 13917.371 fti  | -0.011 fti | -0.011 fti | 0.005 fti |
| DY |      |       | 6150.113 fti   | 0.005 fti  | -0.002 fti | 0.005 fti |
| DZ |      |       | 4859.252 fti   | -0.008 fti | -0.010 fti | 0.005 fti |
| DX | BAYR | NVA37 | 13917.371 fti  | -0.006 fti | -0.006 fti | 0.005 fti |
| DY |      |       | 6150.113 fti   | 0.001 fti  | 0.000 fti  | 0.005 fti |
| DZ |      |       | 4859.252 fti   | -0.002 fti | -0.002 fti | 0.005 fti |
| DX | BAYR | NVA35 | -44085.277 fti | -0.016 fti | -0.015 fti | 0.010 fti |
| DY |      |       | 14958.033 fti  | 0.007 fti  | 0.002 fti  | 0.010 fti |
| DZ |      |       | 20607.597 fti  | -0.006 fti | -0.010 fti | 0.010 fti |
| DX | BAYR | NVA35 | -44085.277 fti | -0.011 fti | -0.010 fti | 0.010 fti |
| DY |      |       | 14958.033 fti  | 0.010 fti  | 0.010 fti  | 0.010 fti |
| DZ |      |       | 20607.597 fti  | 0.004 fti  | -0.005 fti | 0.010 fti |
| DX | BAYR | NVA35 | -44085.277 fti | 0.013 fti  | 0.014 fti  | 0.010 fti |
| DY |      |       | 14958.033 fti  | 0.013 fti  | 0.007 fti  | 0.010 fti |
| DZ |      |       | 20607.597 fti  | -0.002 fti | -0.010 fti | 0.010 fti |
| DX | BAYR | NVA35 | -44085.277 fti | 0.016 fti  | 0.016 fti  | 0.010 fti |
| DY |      |       | 14958.033 fti  | 0.001 fti  | -0.008 fti | 0.010 fti |
| DZ |      |       | 20607.597 fti  | -0.010 fti | -0.007 fti | 0.010 fti |
| DX | BAYR | NVA35 | -44085.277 fti | -0.001 fti | -0.002 fti | 0.010 fti |
| DY |      |       | 14958.033 fti  | -0.013 fti | 0.001 fti  | 0.010 fti |
| DZ |      |       | 20607.597 fti  | 0.014 fti  | 0.018 fti  | 0.010 fti |
| DX | BAYR | NVA35 | -44085.277 fti | -0.005 fti | -0.003 fti | 0.010 fti |
| DY |      |       | 14958.033 fti  | 0.024 fti  | 0.022 fti  | 0.010 fti |
| DZ |      |       | 20607.597 fti  | 0.007 fti  | -0.012 fti | 0.010 fti |
| DX | BAYR | NVA35 | -44085.277 fti | 0.002 fti  | 0.001 fti  | 0.010 fti |
| DY |      |       | 14958.033 fti  | -0.017 fti | -0.015 fti | 0.010 fti |
| DZ |      |       | 20607.597 fti  | -0.005 fti | 0.009 fti  | 0.010 fti |
| DX | BAYR | NVA35 | -44085.277 fti | 0.003 fti  | 0.000 fti  | 0.010 fti |
| DY |      |       | 14958.033 fti  | -0.025 fti | -0.019 fti | 0.010 fti |

|    |      |       |                |            |            |           |
|----|------|-------|----------------|------------|------------|-----------|
|    |      |       | 20607.597 fti  | -0.003 fti | 0.016 fti  | 0.010 fti |
| DX | BAYR | NVA33 | -55595.860 fti | -0.005 fti | -0.006 fti | 0.011 fti |
| DY |      |       | 15569.906 fti  | -0.006 fti | 0.019 fti  | 0.011 fti |
| DZ |      |       | 22547.325 fti  | 0.032 fti  | 0.027 fti  | 0.011 fti |
| DX | BAYR | NVA33 | -55595.860 fti | -0.008 fti | -0.009 fti | 0.011 fti |
| DY |      |       | 15569.906 fti  | -0.009 fti | 0.018 fti  | 0.011 fti |
| DZ |      |       | 22547.325 fti  | 0.033 fti  | 0.029 fti  | 0.011 fti |
| DX | BAYR | NVA33 | -55595.860 fti | 0.003 fti  | -0.002 fti | 0.011 fti |
| DY |      |       | 15569.906 fti  | -0.049 fti | -0.044 fti | 0.011 fti |
| DZ |      |       | 22547.325 fti  | -0.014 fti | 0.026 fti  | 0.011 fti |
| DX | BAYR | NVA33 | -55595.860 fti | 0.005 fti  | 0.001 fti  | 0.011 fti |
| DY |      |       | 15569.906 fti  | -0.034 fti | -0.050 fti | 0.011 fti |
| DZ |      |       | 22547.325 fti  | -0.036 fti | 0.000 fti  | 0.011 fti |
| DX | BAYR | NVA33 | -55595.860 fti | -0.021 fti | -0.018 fti | 0.011 fti |
| DY |      |       | 15569.906 fti  | 0.024 fti  | 0.013 fti  | 0.011 fti |
| DZ |      |       | 22547.325 fti  | -0.007 fti | -0.024 fti | 0.011 fti |
| DX | BAYR | NVA33 | -55595.860 fti | -0.018 fti | -0.016 fti | 0.011 fti |
| DY |      |       | 15569.906 fti  | 0.025 fti  | 0.020 fti  | 0.011 fti |
| DZ |      |       | 22547.325 fti  | 0.002 fti  | -0.018 fti | 0.011 fti |
| DX | BAYR | NVA33 | -55595.860 fti | 0.024 fti  | 0.027 fti  | 0.011 fti |
| DY |      |       | 15569.906 fti  | 0.029 fti  | 0.016 fti  | 0.011 fti |
| DZ |      |       | 22547.325 fti  | -0.003 fti | -0.021 fti | 0.011 fti |
| DX | BAYR | NVA33 | -55595.860 fti | 0.020 fti  | 0.023 fti  | 0.011 fti |
| DY |      |       | 15569.906 fti  | 0.021 fti  | 0.008 fti  | 0.011 fti |
| DZ |      |       | 22547.325 fti  | -0.008 fti | -0.019 fti | 0.011 fti |
| DX | BAYR | NVA31 | -7522.391 fti  | 0.020 fti  | 0.017 fti  | 0.005 fti |
| DY |      |       | -11092.371 fti | -0.020 fti | -0.016 fti | 0.005 fti |
| DZ |      |       | -10800.554 fti | -0.001 fti | 0.016 fti  | 0.005 fti |
| DX | BAYR | NVA31 | -7522.391 fti  | 0.024 fti  | 0.021 fti  | 0.005 fti |
| DY |      |       | -11092.371 fti | -0.025 fti | -0.019 fti | 0.005 fti |
| DZ |      |       | -10800.554 fti | -0.001 fti | 0.019 fti  | 0.005 fti |
| DX | BAYR | NVA31 | -7522.391 fti  | 0.012 fti  | 0.010 fti  | 0.005 fti |
| DY |      |       | -11092.371 fti | -0.019 fti | -0.017 fti | 0.005 fti |
| DZ |      |       | -10800.554 fti | -0.005 fti | 0.011 fti  | 0.005 fti |
| DX | BAYR | NVA31 | -7522.391 fti  | 0.003 fti  | 0.002 fti  | 0.005 fti |
| DY |      |       | -11092.371 fti | -0.011 fti | -0.014 fti | 0.005 fti |
| DZ |      |       | -10800.554 fti | -0.009 fti | 0.002 fti  | 0.005 fti |
| DX | BAYR | NVA31 | -7522.391 fti  | -0.018 fti | -0.015 fti | 0.005 fti |
| DY |      |       | -11092.371 fti | 0.027 fti  | 0.029 fti  | 0.005 fti |
| DZ |      |       | -10800.554 fti | 0.013 fti  | -0.012 fti | 0.005 fti |
| DX | BAYR | NVA31 | -7522.391 fti  | -0.017 fti | -0.015 fti | 0.005 fti |
| DY |      |       | -11092.371 fti | 0.020 fti  | 0.027 fti  | 0.005 fti |
| DZ |      |       | -10800.554 fti | 0.016 fti  | -0.004 fti | 0.005 fti |
| DX | BAYR | NVA31 | -7522.391 fti  | -0.012 fti | -0.011 fti | 0.005 fti |
| DY |      |       | -11092.371 fti | 0.015 fti  | 0.010 fti  | 0.005 fti |
| DZ |      |       | -10800.554 fti | -0.002 fti | -0.013 fti | 0.005 fti |
| DX | BAYR | NVA31 | -7522.391 fti  | -0.012 fti | -0.011 fti | 0.005 fti |
| DY |      |       | -11092.371 fti | 0.013 fti  | 0.000 fti  | 0.005 fti |
| DZ |      |       | -10800.554 fti | -0.013 fti | -0.019 fti | 0.005 fti |
| DX | BAYR | NVA29 | -20909.678 fti | -0.014 fti | -0.014 fti | 0.006 fti |
| DY |      |       | -10073.039 fti | 0.002 fti  | 0.004 fti  | 0.006 fti |
| DZ |      |       | -8235.782 fti  | 0.002 fti  | -0.001 fti | 0.006 fti |
| DX | BAYR | NVA29 | -20909.678 fti | -0.011 fti | -0.009 fti | 0.006 fti |
| DY |      |       | -10073.039 fti | 0.011 fti  | 0.009 fti  | 0.006 fti |
| DZ |      |       | -8235.782 fti  | 0.002 fti  | -0.007 fti | 0.006 fti |
| DX | BAYR | NVA29 | -20909.678 fti | 0.015 fti  | 0.016 fti  | 0.006 fti |
| DY |      |       | -10073.039 fti | 0.008 fti  | -0.010 fti | 0.006 fti |
| DZ |      |       | -8235.782 fti  | -0.020 fti | -0.019 fti | 0.006 fti |
| DX | BAYR | NVA29 | -20909.678 fti | 0.011 fti  | 0.013 fti  | 0.006 fti |
| DY |      |       | -10073.039 fti | 0.013 fti  | -0.006 fti | 0.006 fti |
| DZ |      |       | -8235.782 fti  | -0.019 fti | -0.022 fti | 0.006 fti |
| DX | BAYR | NVA29 | -20909.678 fti | -0.010 fti | -0.011 fti | 0.006 fti |
| DY |      |       | -10073.039 fti | -0.002 fti | 0.005 fti  | 0.006 fti |
| DZ |      |       | -8235.782 fti  | 0.008 fti  | 0.007 fti  | 0.006 fti |
| DX | BAYR | NVA29 | -20909.678 fti | -0.004 fti | -0.003 fti | 0.006 fti |



|    |      |       |                |            |            |           |
|----|------|-------|----------------|------------|------------|-----------|
| DZ |      |       | -10073.039 fti | 0.005 fti  | 0.015 fti  | 0.006 fti |
| DX | BAYR | NVA29 | -8235.782 fti  | 0.015 fti  | 0.006 fti  | 0.006 fti |
| DY |      |       | -20909.678 fti | 0.007 fti  | 0.005 fti  | 0.006 fti |
| DZ |      |       | -10073.039 fti | -0.018 fti | -0.010 fti | 0.006 fti |
| DX | BAYR | NVA29 | -8235.782 fti  | 0.004 fti  | 0.016 fti  | 0.006 fti |
| DY |      |       | -20909.678 fti | 0.006 fti  | 0.004 fti  | 0.006 fti |
| DZ |      |       | -10073.039 fti | -0.018 fti | -0.007 fti | 0.006 fti |
| DX | BAYR | NVA27 | -8235.782 fti  | 0.008 fti  | 0.019 fti  | 0.006 fti |
| DY |      |       | -22555.788 fti | -0.002 fti | -0.002 fti | 0.006 fti |
| DZ |      |       | 4972.549 fti   | 0.000 fti  | -0.003 fti | 0.006 fti |
| DX | BAYR | NVA27 | 7729.929 fti   | -0.003 fti | -0.002 fti | 0.006 fti |
| DY |      |       | -22555.788 fti | 0.000 fti  | -0.002 fti | 0.006 fti |
| DZ |      |       | 4972.549 fti   | -0.010 fti | -0.007 fti | 0.006 fti |
| DX | BAYR | NVA27 | 7729.929 fti   | -0.001 fti | 0.007 fti  | 0.006 fti |
| DY |      |       | -22555.788 fti | 0.013 fti  | 0.012 fti  | 0.006 fti |
| DZ |      |       | 4972.549 fti   | -0.004 fti | -0.008 fti | 0.006 fti |
| DX | BAYR | NVA27 | 7729.929 fti   | -0.006 fti | -0.001 fti | 0.006 fti |
| DY |      |       | -22555.788 fti | 0.012 fti  | 0.012 fti  | 0.006 fti |
| DZ |      |       | 4972.549 fti   | -0.004 fti | -0.011 fti | 0.006 fti |
| DX | BAYR | NVA27 | 7729.929 fti   | -0.011 fti | -0.003 fti | 0.006 fti |
| DY |      |       | -22555.788 fti | -0.019 fti | -0.018 fti | 0.006 fti |
| DZ |      |       | 4972.549 fti   | 0.015 fti  | 0.018 fti  | 0.006 fti |
| DX | BAYR | NVA27 | 7729.929 fti   | 0.008 fti  | -0.007 fti | 0.006 fti |
| DY |      |       | -22555.788 fti | -0.020 fti | -0.018 fti | 0.006 fti |
| DZ |      |       | 4972.549 fti   | 0.016 fti  | 0.019 fti  | 0.006 fti |
| DX | BAYR | NVA27 | 7729.929 fti   | 0.009 fti  | -0.007 fti | 0.006 fti |
| DY |      |       | -22555.788 fti | 0.010 fti  | 0.010 fti  | 0.006 fti |
| DZ |      |       | 4972.549 fti   | -0.004 fti | -0.002 fti | 0.006 fti |
| DX | BAYR | NVA27 | 7729.929 fti   | 0.002 fti  | 0.005 fti  | 0.006 fti |
| DY |      |       | -22555.788 fti | 0.007 fti  | 0.006 fti  | 0.006 fti |
| DZ |      |       | 4972.549 fti   | -0.009 fti | -0.005 fti | 0.006 fti |
| DX | BAYR | NVA27 | 7729.929 fti   | 0.002 fti  | 0.008 fti  | 0.006 fti |
| DY |      |       | -31923.050 fti | -0.009 fti | -0.009 fti | 0.007 fti |
| DZ |      |       | -1778.192 fti  | 0.000 fti  | 0.007 fti  | 0.007 fti |
| DX | BAYR | NVA26 | 1711.097 fti   | 0.009 fti  | 0.006 fti  | 0.007 fti |
| DY |      |       | -31923.050 fti | -0.006 fti | -0.006 fti | 0.007 fti |
| DZ |      |       | -1778.192 fti  | -0.001 fti | 0.009 fti  | 0.007 fti |
| DX | BAYR | NVA26 | 1711.097 fti   | 0.012 fti  | 0.008 fti  | 0.007 fti |
| DY |      |       | -31923.050 fti | 0.005 fti  | 0.005 fti  | 0.007 fti |
| DZ |      |       | -1778.192 fti  | -0.004 fti | 0.001 fti  | 0.007 fti |
| DX | BAYR | NVA26 | 1711.097 fti   | 0.005 fti  | 0.007 fti  | 0.007 fti |
| DY |      |       | -31923.050 fti | -0.011 fti | -0.012 fti | 0.007 fti |
| DZ |      |       | -1778.192 fti  | -0.010 fti | -0.005 fti | 0.007 fti |
| DX | BAYR | NVA26 | 1711.097 fti   | 0.001 fti  | 0.007 fti  | 0.007 fti |
| DY |      |       | -31923.050 fti | 0.009 fti  | 0.007 fti  | 0.007 fti |
| DZ |      |       | -1778.192 fti  | -0.017 fti | -0.025 fti | 0.007 fti |
| DX | BAYR | NVA26 | 1711.097 fti   | -0.017 fti | 0.001 fti  | 0.007 fti |
| DY |      |       | -31923.050 fti | 0.008 fti  | 0.008 fti  | 0.007 fti |
| DZ |      |       | -1778.192 fti  | 0.002 fti  | -0.019 fti | 0.007 fti |
| DX | BAYR | NVA26 | 1711.097 fti   | -0.027 fti | -0.019 fti | 0.007 fti |
| DY |      |       | -31923.050 fti | 0.005 fti  | 0.007 fti  | 0.007 fti |
| DZ |      |       | -1778.192 fti  | 0.020 fti  | 0.015 fti  | 0.007 fti |
| DX | BAYR | NVA26 | 1711.097 fti   | 0.002 fti  | -0.013 fti | 0.007 fti |
| DY |      |       | -31923.050 fti | -0.001 fti | 0.001 fti  | 0.007 fti |
| DZ |      |       | -1778.192 fti  | 0.010 fti  | 0.018 fti  | 0.007 fti |
| DX | BAYR | NVA24 | 1711.097 fti   | 0.015 fti  | 0.003 fti  | 0.007 fti |
| DY |      |       | -7396.230 fti  | -0.003 fti | -0.004 fti | 0.004 fti |
| DZ |      |       | 6805.461 fti   | -0.012 fti | 0.024 fti  | 0.004 fti |
| DX | BAYR | NVA24 | 7942.709 fti   | 0.044 fti  | 0.039 fti  | 0.004 fti |
| DY |      |       | -7396.230 fti  | -0.001 fti | 0.000 fti  | 0.004 fti |
| DZ |      |       | 6805.461 fti   | 0.001 fti  | 0.018 fti  | 0.004 fti |
| DX | BAYR | NVA24 | 7942.709 fti   | 0.024 fti  | 0.016 fti  | 0.004 fti |
| DY |      |       | -7396.230 fti  | 0.015 fti  | 0.016 fti  | 0.004 fti |
| DZ |      |       | 6805.461 fti   | 0.008 fti  | -0.006 fti | 0.004 fti |
| DX | BAYR | NVA24 | 7942.709 fti   | -0.015 fti | -0.015 fti | 0.004 fti |

|    |      |       |                |            |            |           |
|----|------|-------|----------------|------------|------------|-----------|
|    | BAYR | NVA24 | -7396.230 fti  | 0.021 fti  | 0.023 fti  | 0.004 fti |
| DY |      |       | 6805.461 fti   | 0.017 fti  | -0.003 fti | 0.004 fti |
| DZ |      |       | 7942.709 fti   | -0.018 fti | -0.023 fti | 0.004 fti |
| DX | BAYR | NVA24 | -7396.230 fti  | -0.006 fti | -0.005 fti | 0.004 fti |
| DY |      |       | 6805.461 fti   | 0.008 fti  | 0.000 fti  | 0.004 fti |
| DZ |      |       | 7942.709 fti   | -0.008 fti | -0.012 fti | 0.004 fti |
| DX | BAYR | NVA24 | -7396.230 fti  | -0.013 fti | -0.012 fti | 0.004 fti |
| DY |      |       | 6805.461 fti   | 0.008 fti  | 0.000 fti  | 0.004 fti |
| DZ |      |       | 7942.709 fti   | -0.010 fti | -0.014 fti | 0.004 fti |
| DX | BAYR | NVA24 | -7396.230 fti  | -0.008 fti | -0.010 fti | 0.004 fti |
| DY |      |       | 6805.461 fti   | -0.014 fti | -0.021 fti | 0.004 fti |
| DZ |      |       | 7942.709 fti   | -0.017 fti | -0.002 fti | 0.004 fti |
| DX | BAYR | NVA24 | -7396.230 fti  | -0.006 fti | -0.008 fti | 0.004 fti |
| DY |      |       | 6805.461 fti   | -0.015 fti | -0.010 fti | 0.004 fti |
| DZ |      |       | 7942.709 fti   | 0.000 fti  | 0.010 fti  | 0.004 fti |
| DX | BAYR | NVA21 | 15450.889 fti  | 0.012 fti  | 0.008 fti  | 0.007 fti |
| DY |      |       | 18158.206 fti  | -0.031 fti | -0.032 fti | 0.007 fti |
| DZ |      |       | 17272.616 fti  | -0.014 fti | 0.014 fti  | 0.007 fti |
| DX | BAYR | NVA21 | 15450.889 fti  | 0.013 fti  | 0.010 fti  | 0.007 fti |
| DY |      |       | 18158.206 fti  | -0.028 fti | -0.025 fti | 0.007 fti |
| DZ |      |       | 17272.616 fti  | -0.007 fti | 0.016 fti  | 0.007 fti |
| DX | BAYR | NVA21 | 15450.889 fti  | 0.002 fti  | 0.001 fti  | 0.007 fti |
| DY |      |       | 18158.206 fti  | -0.008 fti | -0.009 fti | 0.007 fti |
| DZ |      |       | 17272.616 fti  | -0.004 fti | 0.003 fti  | 0.007 fti |
| DX | BAYR | NVA21 | 15450.889 fti  | 0.004 fti  | 0.003 fti  | 0.007 fti |
| DY |      |       | 18158.206 fti  | -0.017 fti | -0.008 fti | 0.007 fti |
| DZ |      |       | 17272.616 fti  | 0.005 fti  | 0.016 fti  | 0.007 fti |
| DX | BAYR | NVA21 | 15450.889 fti  | -0.009 fti | -0.007 fti | 0.007 fti |
| DY |      |       | 18158.206 fti  | 0.021 fti  | 0.023 fti  | 0.007 fti |
| DZ |      |       | 17272.616 fti  | 0.011 fti  | -0.008 fti | 0.007 fti |
| DX | BAYR | NVA21 | 15450.889 fti  | -0.009 fti | -0.007 fti | 0.007 fti |
| DY |      |       | 18158.206 fti  | 0.018 fti  | 0.025 fti  | 0.007 fti |
| DZ |      |       | 17272.616 fti  | 0.017 fti  | -0.002 fti | 0.007 fti |
| DX | BAYR | NVA21 | 15450.889 fti  | -0.007 fti | -0.005 fti | 0.007 fti |
| DY |      |       | 18158.206 fti  | 0.019 fti  | 0.012 fti  | 0.007 fti |
| DZ |      |       | 17272.616 fti  | -0.002 fti | -0.016 fti | 0.007 fti |
| DX | BAYR | NVA21 | 15450.889 fti  | -0.006 fti | -0.003 fti | 0.007 fti |
| DY |      |       | 18158.206 fti  | 0.025 fti  | 0.013 fti  | 0.007 fti |
| DZ |      |       | 17272.616 fti  | -0.006 fti | -0.023 fti | 0.007 fti |
| DX | BAYR | NVA20 | -11949.593 fti | -0.014 fti | -0.018 fti | 0.005 fti |
| DY |      |       | -5293.221 fti  | -0.034 fti | 0.000 fti  | 0.005 fti |
| DZ |      |       | -4241.358 fti  | 0.030 fti  | 0.044 fti  | 0.005 fti |
| DX | BAYR | NVA20 | -11949.593 fti | -0.020 fti | -0.022 fti | 0.005 fti |
| DY |      |       | -5293.221 fti  | -0.022 fti | 0.009 fti  | 0.005 fti |
| DZ |      |       | -4241.358 fti  | 0.031 fti  | 0.036 fti  | 0.005 fti |
| DX | BAYR | NVA20 | -11949.593 fti | -0.007 fti | -0.009 fti | 0.005 fti |
| DY |      |       | -5293.221 fti  | -0.014 fti | -0.009 fti | 0.005 fti |
| DZ |      |       | -4241.358 fti  | 0.001 fti  | 0.010 fti  | 0.005 fti |
| DX | BAYR | NVA20 | -11949.593 fti | -0.010 fti | -0.010 fti | 0.005 fti |
| DY |      |       | -5293.221 fti  | 0.001 fti  | 0.001 fti  | 0.005 fti |
| DZ |      |       | -4241.358 fti  | -0.001 fti | -0.003 fti | 0.005 fti |
| DX | BAYR | NVA20 | -11949.593 fti | 0.013 fti  | 0.016 fti  | 0.005 fti |
| DY |      |       | -5293.221 fti  | 0.036 fti  | 0.003 fti  | 0.005 fti |
| DZ |      |       | -4241.358 fti  | -0.028 fti | -0.045 fti | 0.005 fti |
| DX | BAYR | NVA20 | -11949.593 fti | 0.018 fti  | 0.019 fti  | 0.005 fti |
| DY |      |       | -5293.221 fti  | 0.011 fti  | 0.000 fti  | 0.005 fti |
| DZ |      |       | -4241.358 fti  | -0.009 fti | -0.013 fti | 0.005 fti |
| DX | BAYR | NVA20 | -11949.593 fti | 0.013 fti  | 0.014 fti  | 0.005 fti |
| DY |      |       | -5293.221 fti  | 0.009 fti  | -0.001 fti | 0.005 fti |
| DZ |      |       | -4241.358 fti  | -0.009 fti | -0.012 fti | 0.005 fti |
| DX | BAYR | NVA20 | -11949.593 fti | 0.008 fti  | 0.009 fti  | 0.005 fti |
| DY |      |       | -5293.221 fti  | 0.012 fti  | -0.003 fti | 0.005 fti |
| DZ |      |       | -4241.358 fti  | -0.014 fti | -0.018 fti | 0.005 fti |
| DX | BAYR | NVA1  | -11974.605 fti | 0.019 fti  | 0.021 fti  | 0.005 fti |
| DY |      |       | -5046.837 fti  | 0.019 fti  | 0.010 fti  | 0.005 fti |

|    |         |       |                |            |            |           |
|----|---------|-------|----------------|------------|------------|-----------|
|    |         |       | -3979.335 fti  | -0.001 fti | -0.013 fti | 0.005 fti |
| DX | BAYR    | NVA1  | -11974.605 fti | 0.014 fti  | 0.014 fti  | 0.005 fti |
| DY |         |       | -5046.837 fti  | 0.003 fti  | 0.021 fti  | 0.005 fti |
| DZ |         |       | -3979.335 fti  | 0.027 fti  | 0.018 fti  | 0.005 fti |
| DX | BAYR    | NVA1  | -11974.605 fti | -0.018 fti | -0.018 fti | 0.005 fti |
| DY |         |       | -5046.837 fti  | -0.001 fti | -0.018 fti | 0.005 fti |
| DZ |         |       | -3979.335 fti  | -0.026 fti | -0.018 fti | 0.005 fti |
| DX | BAYR    | NVA1  | -11974.605 fti | -0.019 fti | -0.018 fti | 0.005 fti |
| DY |         |       | -5046.837 fti  | 0.014 fti  | -0.030 fti | 0.005 fti |
| DZ |         |       | -3979.335 fti  | -0.057 fti | -0.051 fti | 0.005 fti |
| DX | BAYR    | NVA1  | -11974.605 fti | 0.007 fti  | 0.004 fti  | 0.005 fti |
| DY |         |       | -5046.837 fti  | -0.024 fti | -0.008 fti | 0.005 fti |
| DZ |         |       | -3979.335 fti  | 0.013 fti  | 0.027 fti  | 0.005 fti |
| DX | BAYR    | NVA1  | -11974.605 fti | 0.003 fti  | 0.001 fti  | 0.005 fti |
| DY |         |       | -5046.837 fti  | -0.011 fti | 0.002 fti  | 0.005 fti |
| DZ |         |       | -3979.335 fti  | 0.013 fti  | 0.017 fti  | 0.005 fti |
| DX | BAYR    | NVA1  | -11974.605 fti | -0.003 fti | -0.003 fti | 0.005 fti |
| DY |         |       | -5046.837 fti  | 0.002 fti  | 0.009 fti  | 0.005 fti |
| DZ |         |       | -3979.335 fti  | 0.011 fti  | 0.006 fti  | 0.005 fti |
| DX | BAYR    | NVA1  | -11974.605 fti | -0.003 fti | -0.003 fti | 0.005 fti |
| DY |         |       | -5046.837 fti  | -0.001 fti | 0.014 fti  | 0.005 fti |
| DZ |         |       | -3979.335 fti  | 0.019 fti  | 0.014 fti  | 0.005 fti |
| DX | MIDLAND | NVA34 | 21418.841 fti  | 0.003 fti  | 0.000 fti  | 0.006 fti |
| DY |         |       | -9637.254 fti  | -0.030 fti | -0.034 fti | 0.006 fti |
| DZ |         |       | -12447.573 fti | -0.019 fti | 0.009 fti  | 0.006 fti |
| DX | MIDLAND | NVA34 | 21418.841 fti  | 0.003 fti  | 0.000 fti  | 0.006 fti |
| DY |         |       | -9637.254 fti  | -0.028 fti | -0.028 fti | 0.006 fti |
| DZ |         |       | -12447.573 fti | -0.012 fti | 0.012 fti  | 0.006 fti |
| DX | MIDLAND | NVA34 | 21418.841 fti  | -0.009 fti | -0.010 fti | 0.006 fti |
| DY |         |       | -9637.254 fti  | -0.003 fti | 0.010 fti  | 0.006 fti |
| DZ |         |       | -12447.573 fti | 0.016 fti  | 0.013 fti  | 0.006 fti |
| DX | MIDLAND | NVA34 | 21418.841 fti  | -0.010 fti | -0.009 fti | 0.006 fti |
| DY |         |       | -9637.254 fti  | 0.013 fti  | 0.017 fti  | 0.006 fti |
| DZ |         |       | -12447.573 fti | 0.010 fti  | -0.003 fti | 0.006 fti |
| DX | MIDLAND | NVA34 | 21418.841 fti  | -0.003 fti | -0.001 fti | 0.006 fti |
| DY |         |       | -9637.254 fti  | 0.023 fti  | 0.012 fti  | 0.006 fti |
| DZ |         |       | -12447.573 fti | -0.006 fti | -0.021 fti | 0.006 fti |
| DX | MIDLAND | NVA34 | 21418.841 fti  | -0.006 fti | -0.004 fti | 0.006 fti |
| DY |         |       | -9637.254 fti  | 0.017 fti  | 0.008 fti  | 0.006 fti |
| DZ |         |       | -12447.573 fti | -0.006 fti | -0.017 fti | 0.006 fti |
| DX | MIDLAND | NVA34 | 21418.841 fti  | 0.011 fti  | 0.011 fti  | 0.006 fti |
| DY |         |       | -9637.254 fti  | 0.006 fti  | 0.003 fti  | 0.006 fti |
| DZ |         |       | -12447.573 fti | 0.000 fti  | -0.003 fti | 0.006 fti |
| DX | MIDLAND | NVA34 | 21418.841 fti  | 0.011 fti  | 0.011 fti  | 0.006 fti |
| DY |         |       | -9637.254 fti  | 0.002 fti  | 0.012 fti  | 0.006 fti |
| DZ |         |       | -12447.573 fti | 0.016 fti  | 0.010 fti  | 0.006 fti |
| DX | VASSAR  | VVA12 | -35931.402 fti | -0.005 fti | -0.005 fti | 0.008 fti |
| DY |         |       | 3456.115 fti   | 0.002 fti  | -0.009 fti | 0.008 fti |
| DZ |         |       | 7733.960 fti   | -0.015 fti | -0.012 fti | 0.008 fti |
| DX | VASSAR  | VVA12 | -35931.402 fti | -0.006 fti | -0.004 fti | 0.008 fti |
| DY |         |       | 3456.115 fti   | 0.016 fti  | -0.013 fti | 0.008 fti |
| DZ |         |       | 7733.960 fti   | -0.033 fti | -0.035 fti | 0.008 fti |
| DX | VASSAR  | VVA12 | -35931.402 fti | -0.004 fti | -0.002 fti | 0.008 fti |
| DY |         |       | 3456.115 fti   | 0.016 fti  | -0.018 fti | 0.008 fti |
| DZ |         |       | 7733.960 fti   | -0.040 fti | -0.039 fti | 0.008 fti |
| DX | VASSAR  | VVA12 | -35931.402 fti | 0.002 fti  | 0.004 fti  | 0.008 fti |
| DY |         |       | 3456.115 fti   | 0.019 fti  | -0.019 fti | 0.008 fti |
| DZ |         |       | 7733.960 fti   | -0.044 fti | -0.044 fti | 0.008 fti |
| DX | VASSAR  | VVA12 | -35931.402 fti | 0.010 fti  | 0.007 fti  | 0.008 fti |
| DY |         |       | 3456.115 fti   | -0.026 fti | 0.006 fti  | 0.008 fti |
| DZ |         |       | 7733.960 fti   | 0.033 fti  | 0.042 fti  | 0.008 fti |
| DX | VASSAR  | VVA12 | -35931.402 fti | 0.005 fti  | 0.003 fti  | 0.008 fti |
| DY |         |       | 3456.115 fti   | -0.021 fti | 0.010 fti  | 0.008 fti |
| DZ |         |       | 7733.960 fti   | 0.033 fti  | 0.038 fti  | 0.008 fti |
| DX | VASSAR  | VVA12 | -35931.402 fti | -0.001 fti | -0.001 fti | 0.008 fti |

|    |           |       |                |            |            |           |
|----|-----------|-------|----------------|------------|------------|-----------|
|    |           |       | 3456.115 fti   | -0.006 fti | 0.020 fti  | 0.008 fti |
| DZ |           |       | 7733.960 fti   | 0.033 fti  | 0.027 fti  | 0.008 fti |
| DX | VASSAR    | VVA12 | -35931.402 fti | -0.002 fti | -0.002 fti | 0.008 fti |
| DY |           |       | 3456.115 fti   | -0.001 fti | 0.023 fti  | 0.008 fti |
| DZ |           |       | 7733.960 fti   | 0.033 fti  | 0.023 fti  | 0.008 fti |
| DX | CHESANING | VVA25 | -60487.327 fti | 0.012 fti  | 0.013 fti  | 0.010 fti |
| DY |           |       | 3740.927 fti   | 0.011 fti  | 0.015 fti  | 0.010 fti |
| DZ |           |       | 10420.669 fti  | 0.012 fti  | 0.001 fti  | 0.010 fti |
| DX | CHESANING | VVA25 | -60487.327 fti | 0.019 fti  | 0.022 fti  | 0.010 fti |
| DY |           |       | 3740.927 fti   | 0.027 fti  | 0.029 fti  | 0.010 fti |
| DZ |           |       | 10420.669 fti  | 0.016 fti  | -0.007 fti | 0.010 fti |
| DX | CHESANING | VVA25 | -60487.327 fti | 0.015 fti  | 0.015 fti  | 0.010 fti |
| DY |           |       | 3740.927 fti   | 0.002 fti  | -0.022 fti | 0.010 fti |
| DZ |           |       | 10420.669 fti  | -0.030 fti | -0.021 fti | 0.010 fti |
| DX | CHESANING | VVA25 | -60487.327 fti | 0.021 fti  | 0.021 fti  | 0.010 fti |
| DY |           |       | 3740.927 fti   | 0.001 fti  | -0.020 fti | 0.010 fti |
| DZ |           |       | 10420.669 fti  | -0.027 fti | -0.018 fti | 0.010 fti |
| DX | CHESANING | VVA25 | -60487.327 fti | 0.012 fti  | 0.011 fti  | 0.010 fti |
| DY |           |       | 3740.927 fti   | -0.011 fti | 0.009 fti  | 0.010 fti |
| DZ |           |       | 10420.669 fti  | 0.024 fti  | 0.026 fti  | 0.010 fti |
| DX | CHESANING | VVA25 | -60487.327 fti | 0.015 fti  | 0.013 fti  | 0.010 fti |
| DY |           |       | 3740.927 fti   | -0.016 fti | 0.016 fti  | 0.010 fti |
| DZ |           |       | 10420.669 fti  | 0.038 fti  | 0.039 fti  | 0.010 fti |
| DX | CHESANING | VVA25 | -60487.327 fti | 0.017 fti  | 0.014 fti  | 0.010 fti |
| DY |           |       | 3740.927 fti   | -0.031 fti | -0.009 fti | 0.010 fti |
| DZ |           |       | 10420.669 fti  | 0.018 fti  | 0.036 fti  | 0.010 fti |
| DX | CHESANING | VVA25 | -60487.327 fti | 0.002 fti  | 0.000 fti  | 0.010 fti |
| DY |           |       | 3740.927 fti   | -0.014 fti | -0.012 fti | 0.010 fti |
| DZ |           |       | 10420.669 fti  | -0.004 fti | 0.007 fti  | 0.010 fti |
| DX | CHESANING | NVA40 | -33058.044 fti | -0.009 fti | -0.007 fti | 0.006 fti |
| DY |           |       | -4110.744 fti  | 0.023 fti  | 0.015 fti  | 0.006 fti |
| DZ |           |       | -782.402 fti   | -0.002 fti | -0.018 fti | 0.006 fti |
| DX | CHESANING | NVA40 | -33058.044 fti | -0.006 fti | -0.004 fti | 0.006 fti |
| DY |           |       | -4110.744 fti  | 0.018 fti  | 0.009 fti  | 0.006 fti |
| DZ |           |       | -782.402 fti   | -0.005 fti | -0.017 fti | 0.006 fti |
| DX | CHESANING | NVA40 | -33058.044 fti | 0.001 fti  | 0.003 fti  | 0.006 fti |
| DY |           |       | -4110.744 fti  | 0.021 fti  | 0.009 fti  | 0.006 fti |
| DZ |           |       | -782.402 fti   | -0.006 fti | -0.019 fti | 0.006 fti |
| DX | CHESANING | NVA40 | -33058.044 fti | -0.004 fti | -0.002 fti | 0.006 fti |
| DY |           |       | -4110.744 fti  | 0.022 fti  | 0.004 fti  | 0.006 fti |
| DZ |           |       | -782.402 fti   | -0.016 fti | -0.027 fti | 0.006 fti |
| DX | CHESANING | NVA40 | -33058.044 fti | -0.012 fti | -0.010 fti | 0.006 fti |
| DY |           |       | -4110.744 fti  | 0.016 fti  | 0.000 fti  | 0.006 fti |
| DZ |           |       | -782.402 fti   | -0.015 fti | -0.023 fti | 0.006 fti |
| DX | CHESANING | NVA40 | -33058.044 fti | -0.003 fti | -0.006 fti | 0.006 fti |
| DY |           |       | -4110.744 fti  | -0.032 fti | -0.012 fti | 0.006 fti |
| DZ |           |       | -782.402 fti   | 0.014 fti  | 0.033 fti  | 0.006 fti |
| DX | CHESANING | NVA40 | -33058.044 fti | 0.004 fti  | 0.001 fti  | 0.006 fti |
| DY |           |       | -4110.744 fti  | -0.029 fti | -0.005 fti | 0.006 fti |
| DZ |           |       | -782.402 fti   | 0.021 fti  | 0.035 fti  | 0.006 fti |
| DX | CHESANING | NVA40 | -33058.044 fti | -0.007 fti | -0.008 fti | 0.006 fti |
| DY |           |       | -4110.744 fti  | -0.011 fti | -0.005 fti | 0.006 fti |
| DZ |           |       | -782.402 fti   | 0.003 fti  | 0.009 fti  | 0.006 fti |
| DX | CHESANING | NVA40 | -33058.044 fti | -0.012 fti | -0.014 fti | 0.006 fti |
| DY |           |       | -4110.744 fti  | -0.015 fti | -0.020 fti | 0.006 fti |
| DZ |           |       | -782.402 fti   | -0.014 fti | 0.000 fti  | 0.006 fti |
| DX | BAYR      | VVA10 | -48429.577 fti | 0.007 fti  | 0.007 fti  | 0.009 fti |
| DY |           |       | 3610.180 fti   | 0.000 fti  | -0.018 fti | 0.009 fti |
| DZ |           |       | 9180.567 fti   | -0.025 fti | -0.017 fti | 0.009 fti |
| DX | BAYR      | VVA10 | -48429.577 fti | 0.008 fti  | 0.006 fti  | 0.009 fti |
| DY |           |       | 3610.180 fti   | -0.015 fti | -0.031 fti | 0.009 fti |
| DZ |           |       | 9180.567 fti   | -0.028 fti | -0.008 fti | 0.009 fti |
| DX | BAYR      | VVA10 | -48429.577 fti | 0.008 fti  | 0.008 fti  | 0.009 fti |
| DY |           |       | 3610.180 fti   | 0.000 fti  | -0.014 fti | 0.009 fti |
| DZ |           |       | 9180.567 fti   | -0.019 fti | -0.012 fti | 0.009 fti |

|    |      |       |                |            |            |           |
|----|------|-------|----------------|------------|------------|-----------|
|    | BAYR | VVA10 | -48429.577 fti | -0.004 fti | -0.001 fti | 0.009 fti |
| DY |      |       | 3610.180 fti   | 0.027 fti  | 0.021 fti  | 0.009 fti |
| DZ |      |       | 9180.567 fti   | 0.003 fti  | -0.018 fti | 0.009 fti |
| DX | BAYR | VVA10 | -48429.577 fti | -0.004 fti | 0.000 fti  | 0.009 fti |
| DY |      |       | 3610.180 fti   | 0.033 fti  | 0.018 fti  | 0.009 fti |
| DZ |      |       | 9180.567 fti   | -0.006 fti | -0.029 fti | 0.009 fti |
| DX | BAYR | VVA10 | -48429.577 fti | 0.004 fti  | 0.005 fti  | 0.009 fti |
| DY |      |       | 3610.180 fti   | 0.010 fti  | 0.041 fti  | 0.009 fti |
| DZ |      |       | 9180.567 fti   | 0.048 fti  | 0.026 fti  | 0.009 fti |
| DX | BAYR | VVA10 | -48429.577 fti | 0.001 fti  | 0.001 fti  | 0.009 fti |
| DY |      |       | 3610.180 fti   | -0.007 fti | 0.033 fti  | 0.009 fti |
| DZ |      |       | 9180.567 fti   | 0.052 fti  | 0.041 fti  | 0.009 fti |
| DX | BAYR | VVA10 | -48429.577 fti | -0.007 fti | -0.012 fti | 0.009 fti |
| DY |      |       | 3610.180 fti   | -0.041 fti | -0.029 fti | 0.009 fti |
| DZ |      |       | 9180.567 fti   | -0.002 fti | 0.028 fti  | 0.009 fti |
| DX | BAYR | VVA10 | -48429.577 fti | -0.013 fti | -0.013 fti | 0.009 fti |
| DY |      |       | 3610.180 fti   | -0.007 fti | -0.021 fti | 0.009 fti |
| DZ |      |       | 9180.567 fti   | -0.023 fti | -0.012 fti | 0.009 fti |

### GPS Baseline Vector Residuals

|    | Station   | Target | Adj vector [fti] | Resid [fti] | Resid [ppm] |
|----|-----------|--------|------------------|-------------|-------------|
| DV | VVA25     | NVA40  | 30651.640        | 0.049       | 1.6         |
| DV | HEMLOCK   | VA15   | 26041.055        | 0.000       | 0.0         |
| DV | CHESANING | VVA24  | 49604.614        | 0.027       | 0.5         |
| DV | CHESANING | VVA24  | 49604.614        | 0.011       | 0.2         |
| DV | CHESANING | VVA24  | 49604.614        | 0.010       | 0.2         |
| DV | CHESANING | VVA24  | 49604.614        | 0.012       | 0.3         |
| DV | CHESANING | VVA22  | 50607.829        | 0.008       | 0.2         |
| DV | CHESANING | VVA22  | 50607.829        | 0.015       | 0.3         |
| DV | CHESANING | VVA22  | 50607.829        | 0.011       | 0.2         |
| DV | CHESANING | VVA22  | 50607.829        | 0.024       | 0.5         |
| DV | CHESANING | NVA4   | 41924.585        | 0.009       | 0.2         |
| DV | CHESANING | NVA4   | 41924.585        | 0.007       | 0.2         |
| DV | CHESANING | NVA4   | 41924.585        | 0.011       | 0.3         |
| DV | CHESANING | NVA4   | 41924.585        | 0.012       | 0.3         |
| DV | CHESANING | NVA12  | 37097.590        | 0.063       | 1.7         |
| DV | CHESANING | NVA12  | 37097.590        | 0.045       | 1.2         |
| DV | CHESANING | NVA12  | 37097.590        | 0.015       | 0.4         |
| DV | CHESANING | NVA12  | 37097.590        | 0.030       | 0.8         |
| DV | BIRCH RUN | VVA22  | 37089.669        | 0.014       | 0.4         |
| DV | BIRCH RUN | VVA22  | 37089.669        | 0.008       | 0.2         |
| DV | BIRCH RUN | VVA22  | 37089.669        | 0.015       | 0.4         |
| DV | BIRCH RUN | VVA22  | 37089.669        | 0.017       | 0.4         |
| DV | BIRCH RUN | NVA6   | 44431.583        | 0.014       | 0.3         |
| DV | BIRCH RUN | NVA6   | 44431.583        | 0.034       | 0.8         |
| DV | BIRCH RUN | NVA6   | 44431.583        | 0.029       | 0.7         |
| DV | BIRCH RUN | NVA6   | 44431.583        | 0.010       | 0.2         |
| DV | BIRCH RUN | NVA22  | 39024.554        | 0.020       | 0.5         |
| DV | BIRCH RUN | NVA22  | 39024.554        | 0.009       | 0.2         |
| DV | BIRCH RUN | NVA22  | 39024.554        | 0.028       | 0.7         |
| DV | BIRCH RUN | NVA22  | 39024.554        | 0.028       | 0.7         |
| DV | BIRCH RUN | NVA12  | 46207.451        | 0.037       | 0.8         |
| DV | BIRCH RUN | NVA12  | 46207.451        | 0.032       | 0.7         |
| DV | BIRCH RUN | NVA12  | 46207.451        | 0.026       | 0.6         |
| DV | BIRCH RUN | NVA12  | 46207.451        | 0.035       | 0.8         |
| DV | HEMLOCK   | VVA24  | 44414.847        | 0.011       | 0.3         |
| DV | HEMLOCK   | VVA24  | 44414.847        | 0.014       | 0.3         |
| DV | HEMLOCK   | VVA24  | 44414.847        | 0.027       | 0.6         |
| DV | HEMLOCK   | VVA24  | 44414.847        | 0.027       | 0.6         |
| DV | HEMLOCK   | NVA8   | 24715.403        | 0.020       | 0.8         |
| DV | HEMLOCK   | NVA8   | 24715.403        | 0.024       | 1.0         |
| DV | HEMLOCK   | NVA8   | 24715.403        | 0.020       | 0.8         |
| DV | HEMLOCK   | NVA8   | 24715.403        | 0.021       | 0.8         |
| DV | HEMLOCK   | NVA7   | 2213.020         | 0.025       | 11.2        |

|    |         |       |           |       |      |
|----|---------|-------|-----------|-------|------|
| DV | HEMLOCK | NVA7  | 2213.020  | 0.020 | 9.2  |
| DV | HEMLOCK | NVA7  | 2213.020  | 0.024 | 10.7 |
| DV | HEMLOCK | NVA7  | 2213.020  | 0.018 | 8.1  |
| DV | HEMLOCK | NVA4  | 46504.107 | 0.020 | 0.4  |
| DV | HEMLOCK | NVA4  | 46504.107 | 0.019 | 0.4  |
| DV | HEMLOCK | NVA4  | 46504.107 | 0.013 | 0.3  |
| DV | HEMLOCK | NVA4  | 46504.107 | 0.012 | 0.3  |
| DV | HEMLOCK | NVA39 | 14556.579 | 0.020 | 1.4  |
| DV | HEMLOCK | NVA39 | 14556.579 | 0.024 | 1.6  |
| DV | HEMLOCK | NVA39 | 14556.579 | 0.020 | 1.4  |
| DV | HEMLOCK | NVA39 | 14556.579 | 0.018 | 1.3  |
| DV | HEMLOCK | NVA30 | 19613.321 | 0.027 | 1.4  |
| DV | HEMLOCK | NVA30 | 19613.321 | 0.035 | 1.8  |
| DV | HEMLOCK | NVA30 | 19613.321 | 0.022 | 1.1  |
| DV | HEMLOCK | NVA30 | 19613.321 | 0.017 | 0.9  |
| DV | HEMLOCK | NVA19 | 32666.617 | 0.006 | 0.2  |
| DV | HEMLOCK | NVA19 | 32666.617 | 0.017 | 0.5  |
| DV | HEMLOCK | NVA19 | 32666.617 | 0.017 | 0.5  |
| DV | HEMLOCK | NVA19 | 32666.617 | 0.007 | 0.2  |
| DV | HEMLOCK | NVA14 | 26870.709 | 0.016 | 0.6  |
| DV | HEMLOCK | NVA14 | 26870.709 | 0.013 | 0.5  |
| DV | HEMLOCK | NVA14 | 26870.709 | 0.023 | 0.9  |
| DV | HEMLOCK | NVA14 | 26870.709 | 0.018 | 0.7  |
| DV | MIBY    | NVA25 | 42047.307 | 0.024 | 0.6  |
| DV | MIBY    | NVA25 | 42047.307 | 0.013 | 0.3  |
| DV | MIBY    | NVA25 | 42047.307 | 0.012 | 0.3  |
| DV | MIBY    | NVA25 | 42047.307 | 0.010 | 0.2  |
| DV | BAYR    | NVA9  | 67636.337 | 0.024 | 0.4  |
| DV | BAYR    | NVA9  | 67636.337 | 0.023 | 0.3  |
| DV | BAYR    | NVA9  | 67636.337 | 0.041 | 0.6  |
| DV | BAYR    | NVA9  | 67636.337 | 0.043 | 0.6  |
| DV | BAYR    | NVA6  | 58506.148 | 0.022 | 0.4  |
| DV | BAYR    | NVA6  | 58506.148 | 0.049 | 0.8  |
| DV | BAYR    | NVA6  | 58506.148 | 0.024 | 0.4  |
| DV | BAYR    | NVA6  | 58506.148 | 0.034 | 0.6  |
| DV | BAYR    | NVA38 | 38632.144 | 0.017 | 0.4  |
| DV | BAYR    | NVA38 | 38632.144 | 0.022 | 0.6  |
| DV | BAYR    | NVA38 | 38632.144 | 0.022 | 0.6  |
| DV | BAYR    | NVA38 | 38632.144 | 0.010 | 0.3  |
| DV | BAYR    | NVA36 | 52606.496 | 0.020 | 0.4  |
| DV | BAYR    | NVA36 | 52606.496 | 0.019 | 0.4  |
| DV | BAYR    | NVA36 | 52606.496 | 0.006 | 0.1  |
| DV | BAYR    | NVA36 | 52606.496 | 0.017 | 0.3  |
| DV | BAYR    | NVA25 | 30305.823 | 0.013 | 0.4  |
| DV | BAYR    | NVA25 | 30305.823 | 0.015 | 0.5  |
| DV | BAYR    | NVA25 | 30305.823 | 0.021 | 0.7  |
| DV | BAYR    | NVA25 | 30305.823 | 0.025 | 0.8  |
| DV | BAYR    | NVA22 | 32514.056 | 0.009 | 0.3  |
| DV | BAYR    | NVA22 | 32514.056 | 0.010 | 0.3  |
| DV | BAYR    | NVA22 | 32514.056 | 0.012 | 0.4  |
| DV | BAYR    | NVA22 | 32514.056 | 0.017 | 0.5  |
| DV | BAYR    | NVA10 | 50582.786 | 0.012 | 0.2  |
| DV | BAYR    | NVA10 | 50582.786 | 0.021 | 0.4  |
| DV | BAYR    | NVA10 | 50582.786 | 0.007 | 0.1  |
| DV | BAYR    | NVA10 | 50582.786 | 0.010 | 0.2  |
| DV | MIDLAND | NVA9  | 46481.443 | 0.020 | 0.4  |
| DV | MIDLAND | NVA9  | 46481.443 | 0.021 | 0.4  |
| DV | MIDLAND | NVA9  | 46481.443 | 0.017 | 0.4  |
| DV | MIDLAND | NVA9  | 46481.443 | 0.010 | 0.2  |
| DV | MIDLAND | NVA8  | 77636.557 | 0.057 | 0.7  |
| DV | MIDLAND | NVA8  | 77636.557 | 0.053 | 0.7  |
| DV | MIDLAND | NVA8  | 77636.557 | 0.048 | 0.6  |
| DV | MIDLAND | NVA8  | 77636.557 | 0.063 | 0.8  |
| DV | MIDLAND | NVA7  | 73406.536 | 0.007 | 0.1  |
| DV | MIDLAND | NVA7  | 73406.536 | 0.012 | 0.2  |

|    |           |       |           |       |     |
|----|-----------|-------|-----------|-------|-----|
|    | MIDLAND   | NVA7  | 73406.536 | 0.033 | 0.5 |
| DV | MIDLAND   | NVA7  | 73406.536 | 0.047 | 0.6 |
| DV | MIDLAND   | NVA30 | 69187.634 | 0.070 | 1.0 |
| DV | MIDLAND   | NVA30 | 69187.634 | 0.075 | 1.1 |
| DV | MIDLAND   | NVA30 | 69187.634 | 0.051 | 0.7 |
| DV | MIDLAND   | NVA30 | 69187.634 | 0.049 | 0.7 |
| DV | MIDLAND   | NVA19 | 53541.225 | 0.015 | 0.3 |
| DV | MIDLAND   | NVA19 | 53541.225 | 0.016 | 0.3 |
| DV | MIDLAND   | NVA19 | 53541.225 | 0.024 | 0.4 |
| DV | MIDLAND   | NVA19 | 53541.225 | 0.024 | 0.4 |
| DV | MIDLAND   | NVA14 | 58652.470 | 0.016 | 0.3 |
| DV | MIDLAND   | NVA14 | 58652.470 | 0.009 | 0.1 |
| DV | MIDLAND   | NVA14 | 58652.470 | 0.010 | 0.2 |
| DV | MIDLAND   | NVA14 | 58652.470 | 0.024 | 0.4 |
| DV | VASSAR    | NVA38 | 51430.097 | 0.019 | 0.4 |
| DV | VASSAR    | NVA38 | 51430.097 | 0.023 | 0.5 |
| DV | VASSAR    | NVA38 | 51430.097 | 0.029 | 0.6 |
| DV | VASSAR    | NVA38 | 51430.097 | 0.027 | 0.5 |
| DV | VASSAR    | NVA36 | 47387.045 | 0.020 | 0.4 |
| DV | VASSAR    | NVA36 | 47387.045 | 0.012 | 0.3 |
| DV | VASSAR    | NVA36 | 47387.045 | 0.017 | 0.4 |
| DV | VASSAR    | NVA36 | 47387.045 | 0.018 | 0.4 |
| DV | VASSAR    | NVA10 | 40558.122 | 0.019 | 0.5 |
| DV | VASSAR    | NVA10 | 40558.122 | 0.013 | 0.3 |
| DV | VASSAR    | NVA10 | 40558.122 | 0.007 | 0.2 |
| DV | VASSAR    | NVA10 | 40558.122 | 0.013 | 0.3 |
| DV | MIDLAND   | NVA39 | 60345.010 | 0.024 | 0.4 |
| DV | MIDLAND   | NVA39 | 60345.010 | 0.039 | 0.6 |
| DV | MIDLAND   | NVA39 | 60345.010 | 0.041 | 0.7 |
| DV | MIDLAND   | NVA39 | 60345.010 | 0.024 | 0.4 |
| DV | MIDLAND   | NVA39 | 60345.010 | 0.030 | 0.5 |
| DV | HEMLOCK   | VVA15 | 26041.052 | 0.022 | 0.8 |
| DV | HEMLOCK   | VVA15 | 26041.052 | 0.013 | 0.5 |
| DV | HEMLOCK   | VVA15 | 26041.052 | 0.017 | 0.6 |
| DV | HEMLOCK   | VVA15 | 26041.052 | 0.020 | 0.8 |
| DV | HEMLOCK   | VVA15 | 26041.052 | 0.017 | 0.6 |
| DV | HEMLOCK   | VVA15 | 26041.052 | 0.027 | 1.1 |
| DV | HEMLOCK   | VVA15 | 26041.052 | 0.010 | 0.4 |
| DV | CHESANING | VVA30 | 25199.516 | 0.012 | 0.5 |
| DV | CHESANING | VVA30 | 25199.516 | 0.009 | 0.4 |
| DV | CHESANING | VVA30 | 25199.516 | 0.034 | 1.4 |
| DV | CHESANING | VVA30 | 25199.516 | 0.036 | 1.4 |
| DV | CHESANING | VVA30 | 25199.516 | 0.015 | 0.6 |
| DV | CHESANING | VVA30 | 25199.516 | 0.020 | 0.8 |
| DV | CHESANING | VVA30 | 25199.516 | 0.024 | 1.0 |
| DV | CHESANING | VVA30 | 25199.516 | 0.014 | 0.5 |
| DV | CHESANING | VVA27 | 26832.954 | 0.017 | 0.7 |
| DV | CHESANING | VVA27 | 26832.954 | 0.018 | 0.7 |
| DV | CHESANING | VVA27 | 26832.954 | 0.015 | 0.6 |
| DV | CHESANING | VVA27 | 26832.954 | 0.016 | 0.6 |
| DV | CHESANING | VVA27 | 26832.954 | 0.021 | 0.8 |
| DV | CHESANING | VVA27 | 26832.954 | 0.007 | 0.3 |
| DV | CHESANING | VVA27 | 26832.954 | 0.006 | 0.2 |
| DV | CHESANING | VVA27 | 26832.954 | 0.016 | 0.6 |
| DV | CHESANING | VVA26 | 17614.006 | 0.019 | 1.1 |
| DV | CHESANING | VVA26 | 17614.006 | 0.009 | 0.5 |
| DV | CHESANING | VVA26 | 17614.006 | 0.009 | 0.5 |
| DV | CHESANING | VVA26 | 17614.006 | 0.009 | 0.5 |
| DV | CHESANING | VVA26 | 17614.006 | 0.015 | 0.9 |
| DV | CHESANING | VVA26 | 17614.006 | 0.004 | 0.2 |
| DV | CHESANING | VVA26 | 17614.006 | 0.018 | 1.0 |
| DV | CHESANING | VVA26 | 17614.006 | 0.018 | 1.0 |
| DV | CHESANING | VVA23 | 40963.859 | 0.015 | 0.4 |
| DV | CHESANING | VVA23 | 40963.859 | 0.042 | 1.0 |
| DV | CHESANING | VVA23 | 40963.859 | 0.026 | 0.6 |

|    |           |       |           |       |      |
|----|-----------|-------|-----------|-------|------|
|    | CHESANING | VVA23 | 40963.859 | 0.028 | 0.7  |
| DV | CHESANING | VVA23 | 40963.859 | 0.032 | 0.8  |
| DV | CHESANING | VVA23 | 40963.859 | 0.033 | 0.8  |
| DV | CHESANING | VVA23 | 40963.859 | 0.018 | 0.4  |
| DV | CHESANING | VVA23 | 40963.859 | 0.032 | 0.8  |
| DV | CHESANING | NVA3  | 20979.333 | 0.025 | 1.2  |
| DV | CHESANING | NVA3  | 20979.333 | 0.012 | 0.6  |
| DV | CHESANING | NVA3  | 20979.333 | 0.018 | 0.9  |
| DV | CHESANING | NVA3  | 20979.333 | 0.009 | 0.4  |
| DV | CHESANING | NVA3  | 20979.333 | 0.017 | 0.8  |
| DV | CHESANING | NVA3  | 20979.333 | 0.013 | 0.6  |
| DV | CHESANING | NVA3  | 20979.333 | 0.016 | 0.7  |
| DV | CHESANING | NVA3  | 20979.333 | 0.016 | 0.7  |
| DV | CHESANING | NVA2  | 1991.060  | 0.021 | 10.4 |
| DV | CHESANING | NVA2  | 1991.060  | 0.023 | 11.7 |
| DV | CHESANING | NVA2  | 1991.060  | 0.022 | 11.2 |
| DV | CHESANING | NVA2  | 1991.060  | 0.024 | 12.2 |
| DV | CHESANING | NVA2  | 1991.060  | 0.017 | 8.7  |
| DV | CHESANING | NVA2  | 1991.060  | 0.019 | 9.7  |
| DV | CHESANING | NVA2  | 1991.060  | 0.020 | 10.0 |
| DV | CHESANING | NVA2  | 1991.060  | 0.029 | 14.5 |
| DV | CHESANING | NVA18 | 32233.722 | 0.044 | 1.4  |
| DV | CHESANING | NVA18 | 32233.722 | 0.042 | 1.3  |
| DV | CHESANING | NVA18 | 32233.722 | 0.032 | 1.0  |
| DV | CHESANING | NVA18 | 32233.722 | 0.034 | 1.0  |
| DV | CHESANING | NVA18 | 32233.722 | 0.027 | 0.8  |
| DV | CHESANING | NVA18 | 32233.722 | 0.034 | 1.1  |
| DV | CHESANING | NVA18 | 32233.722 | 0.046 | 1.4  |
| DV | CHESANING | NVA18 | 32233.722 | 0.037 | 1.1  |
| DV | CHESANING | NVA17 | 40512.394 | 0.023 | 0.6  |
| DV | CHESANING | NVA17 | 40512.394 | 0.035 | 0.9  |
| DV | CHESANING | NVA17 | 40512.394 | 0.064 | 1.6  |
| DV | CHESANING | NVA17 | 40512.394 | 0.068 | 1.7  |
| DV | CHESANING | NVA17 | 40512.394 | 0.061 | 1.5  |
| DV | CHESANING | NVA17 | 40512.394 | 0.036 | 0.9  |
| DV | CHESANING | NVA17 | 40512.394 | 0.046 | 1.1  |
| DV | CHESANING | NVA17 | 40512.394 | 0.063 | 1.6  |
| DV | CHESANING | NVA16 | 12042.602 | 0.024 | 2.0  |
| DV | CHESANING | NVA16 | 12042.602 | 0.014 | 1.1  |
| DV | CHESANING | NVA16 | 12042.602 | 0.028 | 2.3  |
| DV | CHESANING | NVA16 | 12042.602 | 0.025 | 2.1  |
| DV | CHESANING | NVA16 | 12042.602 | 0.020 | 1.7  |
| DV | CHESANING | NVA16 | 12042.602 | 0.019 | 1.6  |
| DV | CHESANING | NVA16 | 12042.602 | 0.019 | 1.6  |
| DV | CHESANING | NVA16 | 12042.602 | 0.019 | 1.6  |
| DV | CHESANING | NVA13 | 53005.841 | 0.026 | 0.5  |
| DV | CHESANING | NVA13 | 53005.841 | 0.018 | 0.3  |
| DV | CHESANING | NVA13 | 53005.841 | 0.038 | 0.7  |
| DV | CHESANING | NVA13 | 53005.841 | 0.034 | 0.6  |
| DV | CHESANING | NVA13 | 53005.841 | 0.051 | 1.0  |
| DV | CHESANING | NVA13 | 53005.841 | 0.044 | 0.8  |
| DV | CHESANING | NVA13 | 53005.841 | 0.028 | 0.5  |
| DV | CHESANING | NVA13 | 53005.841 | 0.046 | 0.9  |
| DV | BIRCH RUN | VVA4  | 18951.721 | 0.022 | 1.2  |
| DV | BIRCH RUN | VVA4  | 18951.721 | 0.007 | 0.4  |
| DV | BIRCH RUN | VVA4  | 18951.721 | 0.038 | 2.0  |
| DV | BIRCH RUN | VVA4  | 18951.721 | 0.027 | 1.4  |
| DV | BIRCH RUN | VVA4  | 18951.721 | 0.065 | 3.4  |
| DV | BIRCH RUN | VVA4  | 18951.721 | 0.062 | 3.3  |
| DV | BIRCH RUN | VVA4  | 18951.721 | 0.009 | 0.5  |
| DV | BIRCH RUN | VVA4  | 18951.721 | 0.042 | 2.2  |
| DV | BIRCH RUN | VVA29 | 46057.224 | 0.057 | 1.2  |
| DV | BIRCH RUN | VVA29 | 46057.224 | 0.035 | 0.8  |
| DV | BIRCH RUN | VVA29 | 46057.224 | 0.028 | 0.6  |
| DV | BIRCH RUN | VVA29 | 46057.224 | 0.030 | 0.7  |



|    |           |       |           |       |     |
|----|-----------|-------|-----------|-------|-----|
|    | BIRCH RUN | VVA29 | 46057.224 | 0.033 | 0.7 |
| DV | BIRCH RUN | VVA29 | 46057.224 | 0.034 | 0.7 |
| DV | BIRCH RUN | VVA29 | 46057.224 | 0.046 | 1.0 |
| DV | BIRCH RUN | VVA29 | 46057.224 | 0.038 | 0.8 |
| DV | BIRCH RUN | VVA28 | 24314.404 | 0.010 | 0.4 |
| DV | BIRCH RUN | VVA28 | 24314.404 | 0.029 | 1.2 |
| DV | BIRCH RUN | VVA28 | 24314.404 | 0.025 | 1.0 |
| DV | BIRCH RUN | VVA28 | 24314.404 | 0.022 | 0.9 |
| DV | BIRCH RUN | VVA28 | 24314.404 | 0.030 | 1.3 |
| DV | BIRCH RUN | VVA28 | 24314.404 | 0.011 | 0.5 |
| DV | BIRCH RUN | VVA28 | 24314.404 | 0.048 | 2.0 |
| DV | BIRCH RUN | VVA28 | 24314.404 | 0.047 | 1.9 |
| DV | BIRCH RUN | VVA21 | 21811.552 | 0.028 | 1.3 |
| DV | BIRCH RUN | VVA21 | 21811.552 | 0.028 | 1.3 |
| DV | BIRCH RUN | VVA21 | 21811.552 | 0.024 | 1.1 |
| DV | BIRCH RUN | VVA21 | 21811.552 | 0.031 | 1.4 |
| DV | BIRCH RUN | VVA21 | 21811.552 | 0.023 | 1.1 |
| DV | BIRCH RUN | VVA21 | 21811.552 | 0.031 | 1.4 |
| DV | BIRCH RUN | VVA21 | 21811.552 | 0.052 | 2.4 |
| DV | BIRCH RUN | VVA21 | 21811.552 | 0.025 | 1.2 |
| DV | BIRCH RUN | VVA20 | 10691.367 | 0.022 | 2.0 |
| DV | BIRCH RUN | VVA20 | 10691.367 | 0.018 | 1.6 |
| DV | BIRCH RUN | VVA20 | 10691.367 | 0.015 | 1.4 |
| DV | BIRCH RUN | VVA20 | 10691.367 | 0.004 | 0.4 |
| DV | BIRCH RUN | VVA20 | 10691.367 | 0.013 | 1.2 |
| DV | BIRCH RUN | VVA20 | 10691.367 | 0.004 | 0.4 |
| DV | BIRCH RUN | VVA20 | 10691.367 | 0.019 | 1.8 |
| DV | BIRCH RUN | VVA20 | 10691.367 | 0.023 | 2.2 |
| DV | BIRCH RUN | VVA19 | 17784.743 | 0.017 | 1.0 |
| DV | BIRCH RUN | VVA19 | 17784.743 | 0.018 | 1.0 |
| DV | BIRCH RUN | VVA19 | 17784.743 | 0.021 | 1.2 |
| DV | BIRCH RUN | VVA19 | 17784.743 | 0.012 | 0.7 |
| DV | BIRCH RUN | VVA19 | 17784.743 | 0.012 | 0.7 |
| DV | BIRCH RUN | VVA19 | 17784.743 | 0.014 | 0.8 |
| DV | BIRCH RUN | VVA18 | 43498.660 | 0.014 | 0.3 |
| DV | BIRCH RUN | VVA18 | 43498.660 | 0.036 | 0.8 |
| DV | BIRCH RUN | VVA18 | 43498.660 | 0.040 | 0.9 |
| DV | BIRCH RUN | VVA18 | 43498.660 | 0.048 | 1.1 |
| DV | BIRCH RUN | VVA18 | 43498.660 | 0.055 | 1.3 |
| DV | BIRCH RUN | VVA18 | 43498.660 | 0.036 | 0.8 |
| DV | BIRCH RUN | VVA18 | 43498.660 | 0.015 | 0.3 |
| DV | BIRCH RUN | VVA18 | 43498.660 | 0.032 | 0.7 |
| DV | BIRCH RUN | VVA17 | 40794.447 | 0.031 | 0.7 |
| DV | BIRCH RUN | VVA17 | 40794.447 | 0.025 | 0.6 |
| DV | BIRCH RUN | VVA17 | 40794.447 | 0.010 | 0.3 |
| DV | BIRCH RUN | VVA17 | 40794.447 | 0.011 | 0.3 |
| DV | BIRCH RUN | VVA17 | 40794.447 | 0.033 | 0.8 |
| DV | BIRCH RUN | VVA17 | 40794.447 | 0.032 | 0.8 |
| DV | BIRCH RUN | VVA17 | 40794.447 | 0.021 | 0.5 |
| DV | BIRCH RUN | VVA17 | 40794.447 | 0.014 | 0.3 |
| DV | BIRCH RUN | VVA16 | 26103.949 | 0.020 | 0.7 |
| DV | BIRCH RUN | VVA16 | 26103.949 | 0.025 | 1.0 |
| DV | BIRCH RUN | VVA16 | 26103.949 | 0.039 | 1.5 |
| DV | BIRCH RUN | VVA16 | 26103.949 | 0.035 | 1.3 |
| DV | BIRCH RUN | VVA16 | 26103.949 | 0.023 | 0.9 |
| DV | BIRCH RUN | VVA16 | 26103.949 | 0.035 | 1.3 |
| DV | BIRCH RUN | VVA16 | 26103.949 | 0.054 | 2.1 |
| DV | BIRCH RUN | VVA16 | 26103.949 | 0.009 | 0.3 |
| DV | BIRCH RUN | NVA5  | 23316.185 | 0.017 | 0.7 |
| DV | BIRCH RUN | NVA5  | 23316.185 | 0.027 | 1.2 |
| DV | BIRCH RUN | NVA5  | 23316.185 | 0.032 | 1.4 |
| DV | BIRCH RUN | NVA5  | 23316.185 | 0.032 | 1.4 |
| DV | BIRCH RUN | NVA5  | 23316.185 | 0.027 | 1.1 |

|    |           |       |           |       |     |
|----|-----------|-------|-----------|-------|-----|
|    | BIRCH RUN | NVA5  | 23316.185 | 0.040 | 1.7 |
| DV | BIRCH RUN | NVA5  | 23316.185 | 0.025 | 1.1 |
| DV | BIRCH RUN | NVA5  | 23316.185 | 0.021 | 0.9 |
| DV | BIRCH RUN | NVA28 | 37400.976 | 0.017 | 0.5 |
| DV | BIRCH RUN | NVA28 | 37400.976 | 0.020 | 0.5 |
| DV | BIRCH RUN | NVA28 | 37400.976 | 0.020 | 0.5 |
| DV | BIRCH RUN | NVA28 | 37400.976 | 0.026 | 0.7 |
| DV | BIRCH RUN | NVA28 | 37400.976 | 0.032 | 0.9 |
| DV | BIRCH RUN | NVA28 | 37400.976 | 0.022 | 0.6 |
| DV | BIRCH RUN | NVA28 | 37400.976 | 0.022 | 0.6 |
| DV | BIRCH RUN | NVA28 | 37400.976 | 0.024 | 0.6 |
| DV | BIRCH RUN | NVA11 | 11241.893 | 0.017 | 1.5 |
| DV | BIRCH RUN | NVA11 | 11241.893 | 0.014 | 1.2 |
| DV | BIRCH RUN | NVA11 | 11241.893 | 0.011 | 0.9 |
| DV | BIRCH RUN | NVA11 | 11241.893 | 0.013 | 1.1 |
| DV | BIRCH RUN | NVA11 | 11241.893 | 0.006 | 0.6 |
| DV | BIRCH RUN | NVA11 | 11241.893 | 0.014 | 1.2 |
| DV | BIRCH RUN | NVA11 | 11241.893 | 0.007 | 0.6 |
| DV | BIRCH RUN | NVA11 | 11241.893 | 0.010 | 0.9 |
| DV | HEMLOCK   | VVA7  | 44778.247 | 0.044 | 1.0 |
| DV | HEMLOCK   | VVA7  | 44778.247 | 0.017 | 0.4 |
| DV | HEMLOCK   | VVA7  | 44778.247 | 0.028 | 0.6 |
| DV | HEMLOCK   | VVA7  | 44778.247 | 0.013 | 0.3 |
| DV | HEMLOCK   | VVA7  | 44778.247 | 0.027 | 0.6 |
| DV | HEMLOCK   | VVA7  | 44778.247 | 0.027 | 0.6 |
| DV | HEMLOCK   | VVA7  | 44778.247 | 0.030 | 0.7 |
| DV | HEMLOCK   | VVA7  | 44778.247 | 0.020 | 0.4 |
| DV | HEMLOCK   | VVA14 | 33473.106 | 0.022 | 0.7 |
| DV | HEMLOCK   | VVA14 | 33473.106 | 0.029 | 0.9 |
| DV | HEMLOCK   | VVA14 | 33473.106 | 0.040 | 1.2 |
| DV | HEMLOCK   | VVA14 | 33473.106 | 0.045 | 1.3 |
| DV | HEMLOCK   | VVA14 | 33473.106 | 0.025 | 0.7 |
| DV | HEMLOCK   | VVA14 | 33473.106 | 0.026 | 0.8 |
| DV | HEMLOCK   | VVA14 | 33473.106 | 0.053 | 1.6 |
| DV | HEMLOCK   | VVA14 | 33473.106 | 0.042 | 1.3 |
| DV | HEMLOCK   | NVA32 | 28245.663 | 0.019 | 0.7 |
| DV | HEMLOCK   | NVA32 | 28245.663 | 0.026 | 0.9 |
| DV | HEMLOCK   | NVA32 | 28245.663 | 0.024 | 0.9 |
| DV | HEMLOCK   | NVA32 | 28245.663 | 0.026 | 0.9 |
| DV | HEMLOCK   | NVA32 | 28245.663 | 0.012 | 0.4 |
| DV | HEMLOCK   | NVA32 | 28245.663 | 0.025 | 0.9 |
| DV | HEMLOCK   | NVA32 | 28245.663 | 0.035 | 1.2 |
| DV | HEMLOCK   | NVA32 | 28245.663 | 0.029 | 1.0 |
| DV | HEMLOCK   | NVA23 | 44929.281 | 0.016 | 0.4 |
| DV | HEMLOCK   | NVA23 | 44929.281 | 0.020 | 0.4 |
| DV | HEMLOCK   | NVA23 | 44929.281 | 0.042 | 0.9 |
| DV | HEMLOCK   | NVA23 | 44929.281 | 0.042 | 0.9 |
| DV | HEMLOCK   | NVA23 | 44929.281 | 0.035 | 0.8 |
| DV | HEMLOCK   | NVA23 | 44929.281 | 0.035 | 0.8 |
| DV | HEMLOCK   | NVA23 | 44929.281 | 0.035 | 0.8 |
| DV | HEMLOCK   | NVA23 | 44929.281 | 0.015 | 0.3 |
| DV | HEMLOCK   | NVA15 | 51308.890 | 0.012 | 0.2 |
| DV | HEMLOCK   | NVA15 | 51308.890 | 0.016 | 0.3 |
| DV | HEMLOCK   | NVA15 | 51308.890 | 0.066 | 1.3 |
| DV | HEMLOCK   | NVA15 | 51308.890 | 0.051 | 1.0 |
| DV | HEMLOCK   | NVA15 | 51308.890 | 0.040 | 0.8 |
| DV | HEMLOCK   | NVA15 | 51308.890 | 0.040 | 0.8 |
| DV | HEMLOCK   | NVA15 | 51308.890 | 0.024 | 0.5 |
| DV | HEMLOCK   | NVA15 | 51308.890 | 0.042 | 0.8 |
| DV | VVA25     | VVA2  | 16509.136 | 0.075 | 4.5 |
| DV | VVA25     | VVA2  | 16509.136 | 0.113 | 6.8 |
| DV | VVA25     | VVA2  | 16509.136 | 0.090 | 5.4 |
| DV | VVA25     | VVA2  | 16509.136 | 0.057 | 3.5 |
| DV | VVA25     | VVA2  | 16509.136 | 0.083 | 5.0 |
| DV | VVA25     | VVA2  | 16509.136 | 0.073 | 4.4 |

|    |       |       |           |       |     |
|----|-------|-------|-----------|-------|-----|
|    | VVA25 | VVA2  | 16509.136 | 0.074 | 4.5 |
| DV | VVA25 | VVA2  | 16509.136 | 0.071 | 4.3 |
| DV | VVA25 | VVA1  | 21344.170 | 0.012 | 0.5 |
| DV | VVA25 | VVA1  | 21344.170 | 0.036 | 1.7 |
| DV | VVA25 | VVA1  | 21344.170 | 0.062 | 2.9 |
| DV | VVA25 | VVA1  | 21344.170 | 0.061 | 2.9 |
| DV | VVA25 | VVA1  | 21344.170 | 0.057 | 2.7 |
| DV | VVA25 | VVA1  | 21344.170 | 0.031 | 1.5 |
| DV | VVA25 | VVA1  | 21344.170 | 0.028 | 1.3 |
| DV | VVA25 | VVA1  | 21344.170 | 0.034 | 1.6 |
| DV | BAYR  | VVA9  | 47302.561 | 0.022 | 0.5 |
| DV | BAYR  | VVA9  | 47302.561 | 0.015 | 0.3 |
| DV | BAYR  | VVA9  | 47302.561 | 0.050 | 1.1 |
| DV | BAYR  | VVA9  | 47302.561 | 0.059 | 1.3 |
| DV | BAYR  | VVA9  | 47302.561 | 0.045 | 1.0 |
| DV | BAYR  | VVA9  | 47302.561 | 0.034 | 0.7 |
| DV | BAYR  | VVA9  | 47302.561 | 0.018 | 0.4 |
| DV | BAYR  | VVA9  | 47302.561 | 0.010 | 0.2 |
| DV | BAYR  | VVA8  | 56453.776 | 0.056 | 1.0 |
| DV | BAYR  | VVA8  | 56453.776 | 0.024 | 0.4 |
| DV | BAYR  | VVA8  | 56453.776 | 0.028 | 0.5 |
| DV | BAYR  | VVA8  | 56453.776 | 0.055 | 1.0 |
| DV | BAYR  | VVA8  | 56453.776 | 0.015 | 0.3 |
| DV | BAYR  | VVA8  | 56453.776 | 0.008 | 0.1 |
| DV | BAYR  | VVA8  | 56453.776 | 0.020 | 0.4 |
| DV | BAYR  | VVA8  | 56453.776 | 0.015 | 0.3 |
| DV | BAYR  | VVA6  | 15946.554 | 0.017 | 1.0 |
| DV | BAYR  | VVA6  | 15946.554 | 0.012 | 0.8 |
| DV | BAYR  | VVA6  | 15946.554 | 0.004 | 0.2 |
| DV | BAYR  | VVA6  | 15946.554 | 0.011 | 0.7 |
| DV | BAYR  | VVA6  | 15946.554 | 0.011 | 0.7 |
| DV | BAYR  | VVA6  | 15946.554 | 0.016 | 1.0 |
| DV | BAYR  | VVA6  | 15946.554 | 0.012 | 0.7 |
| DV | BAYR  | VVA6  | 15946.554 | 0.010 | 0.7 |
| DV | BAYR  | VVA5  | 30673.079 | 0.033 | 1.1 |
| DV | BAYR  | VVA5  | 30673.079 | 0.031 | 1.0 |
| DV | BAYR  | VVA5  | 30673.079 | 0.025 | 0.8 |
| DV | BAYR  | VVA5  | 30673.079 | 0.022 | 0.7 |
| DV | BAYR  | VVA5  | 30673.079 | 0.021 | 0.7 |
| DV | BAYR  | VVA5  | 30673.079 | 0.035 | 1.2 |
| DV | BAYR  | VVA5  | 30673.079 | 0.040 | 1.3 |
| DV | BAYR  | VVA5  | 30673.079 | 0.021 | 0.7 |
| DV | BAYR  | VVA3  | 30226.952 | 0.067 | 2.2 |
| DV | BAYR  | VVA3  | 30226.952 | 0.053 | 1.8 |
| DV | BAYR  | VVA3  | 30226.952 | 0.037 | 1.2 |
| DV | BAYR  | VVA3  | 30226.952 | 0.020 | 0.7 |
| DV | BAYR  | VVA3  | 30226.952 | 0.050 | 1.7 |
| DV | BAYR  | VVA3  | 30226.952 | 0.068 | 2.3 |
| DV | BAYR  | VVA3  | 30226.952 | 0.020 | 0.7 |
| DV | BAYR  | VVA3  | 30226.952 | 0.045 | 1.5 |
| DV | BAYR  | VVA13 | 24326.794 | 0.013 | 0.5 |
| DV | BAYR  | VVA13 | 24326.794 | 0.004 | 0.2 |
| DV | BAYR  | VVA13 | 24326.794 | 0.011 | 0.4 |
| DV | BAYR  | VVA13 | 24326.794 | 0.013 | 0.5 |
| DV | BAYR  | VVA13 | 24326.794 | 0.014 | 0.6 |
| DV | BAYR  | VVA13 | 24326.794 | 0.014 | 0.6 |
| DV | BAYR  | VVA13 | 24326.794 | 0.007 | 0.3 |
| DV | BAYR  | VVA13 | 24326.794 | 0.003 | 0.1 |
| DV | BAYR  | VVA11 | 23065.032 | 0.020 | 0.9 |
| DV | BAYR  | VVA11 | 23065.032 | 0.026 | 1.1 |
| DV | BAYR  | VVA11 | 23065.032 | 0.030 | 1.3 |
| DV | BAYR  | VVA11 | 23065.032 | 0.029 | 1.3 |
| DV | BAYR  | VVA11 | 23065.032 | 0.038 | 1.7 |
| DV | BAYR  | VVA11 | 23065.032 | 0.027 | 1.2 |
| DV | BAYR  | VVA11 | 23065.032 | 0.029 | 1.3 |

|    |      |       |           |       |     |
|----|------|-------|-----------|-------|-----|
|    | BAYR | VVA11 | 23065.032 | 0.034 | 1.5 |
| DV | BAYR | NVA37 | 15972.772 | 0.031 | 2.0 |
| DV | BAYR | NVA37 | 15972.772 | 0.016 | 1.0 |
| DV | BAYR | NVA37 | 15972.772 | 0.015 | 1.0 |
| DV | BAYR | NVA37 | 15972.772 | 0.011 | 0.7 |
| DV | BAYR | NVA37 | 15972.772 | 0.026 | 1.6 |
| DV | BAYR | NVA37 | 15972.772 | 0.022 | 1.4 |
| DV | BAYR | NVA37 | 15972.772 | 0.014 | 0.9 |
| DV | BAYR | NVA37 | 15972.772 | 0.007 | 0.4 |
| DV | BAYR | NVA35 | 50910.976 | 0.018 | 0.4 |
| DV | BAYR | NVA35 | 50910.976 | 0.015 | 0.3 |
| DV | BAYR | NVA35 | 50910.976 | 0.018 | 0.4 |
| DV | BAYR | NVA35 | 50910.976 | 0.019 | 0.4 |
| DV | BAYR | NVA35 | 50910.976 | 0.019 | 0.4 |
| DV | BAYR | NVA35 | 50910.976 | 0.025 | 0.5 |
| DV | BAYR | NVA35 | 50910.976 | 0.018 | 0.3 |
| DV | BAYR | NVA35 | 50910.976 | 0.025 | 0.5 |
| DV | BAYR | NVA33 | 61981.477 | 0.033 | 0.5 |
| DV | BAYR | NVA33 | 61981.477 | 0.035 | 0.6 |
| DV | BAYR | NVA33 | 61981.477 | 0.051 | 0.8 |
| DV | BAYR | NVA33 | 61981.477 | 0.050 | 0.8 |
| DV | BAYR | NVA33 | 61981.477 | 0.032 | 0.5 |
| DV | BAYR | NVA33 | 61981.477 | 0.031 | 0.5 |
| DV | BAYR | NVA33 | 61981.477 | 0.037 | 0.6 |
| DV | BAYR | NVA33 | 61981.477 | 0.031 | 0.5 |
| DV | BAYR | NVA31 | 17212.758 | 0.028 | 1.6 |
| DV | BAYR | NVA31 | 17212.758 | 0.035 | 2.0 |
| DV | BAYR | NVA31 | 17212.758 | 0.023 | 1.3 |
| DV | BAYR | NVA31 | 17212.758 | 0.014 | 0.8 |
| DV | BAYR | NVA31 | 17212.758 | 0.034 | 2.0 |
| DV | BAYR | NVA31 | 17212.758 | 0.031 | 1.8 |
| DV | BAYR | NVA31 | 17212.758 | 0.020 | 1.1 |
| DV | BAYR | NVA31 | 17212.758 | 0.022 | 1.3 |
| DV | BAYR | NVA29 | 24627.400 | 0.015 | 0.6 |
| DV | BAYR | NVA29 | 24627.400 | 0.015 | 0.6 |
| DV | BAYR | NVA29 | 24627.400 | 0.026 | 1.1 |
| DV | BAYR | NVA29 | 24627.400 | 0.026 | 1.0 |
| DV | BAYR | NVA29 | 24627.400 | 0.013 | 0.5 |
| DV | BAYR | NVA29 | 24627.400 | 0.016 | 0.7 |
| DV | BAYR | NVA29 | 24627.400 | 0.020 | 0.8 |
| DV | BAYR | NVA29 | 24627.400 | 0.021 | 0.9 |
| DV | BAYR | NVA27 | 24356.552 | 0.004 | 0.2 |
| DV | BAYR | NVA27 | 24356.552 | 0.010 | 0.4 |
| DV | BAYR | NVA27 | 24356.552 | 0.015 | 0.6 |
| DV | BAYR | NVA27 | 24356.552 | 0.017 | 0.7 |
| DV | BAYR | NVA27 | 24356.552 | 0.026 | 1.1 |
| DV | BAYR | NVA27 | 24356.552 | 0.027 | 1.1 |
| DV | BAYR | NVA27 | 24356.552 | 0.011 | 0.5 |
| DV | BAYR | NVA27 | 24356.552 | 0.011 | 0.5 |
| DV | BAYR | NVA26 | 32018.291 | 0.013 | 0.4 |
| DV | BAYR | NVA26 | 32018.291 | 0.013 | 0.4 |
| DV | BAYR | NVA26 | 32018.291 | 0.009 | 0.3 |
| DV | BAYR | NVA26 | 32018.291 | 0.015 | 0.5 |
| DV | BAYR | NVA26 | 32018.291 | 0.026 | 0.8 |
| DV | BAYR | NVA26 | 32018.291 | 0.029 | 0.9 |
| DV | BAYR | NVA26 | 32018.291 | 0.021 | 0.7 |
| DV | BAYR | NVA26 | 32018.291 | 0.018 | 0.6 |
| DV | BAYR | NVA24 | 12810.353 | 0.046 | 3.6 |
| DV | BAYR | NVA24 | 12810.353 | 0.024 | 1.8 |
| DV | BAYR | NVA24 | 12810.353 | 0.023 | 1.8 |
| DV | BAYR | NVA24 | 12810.353 | 0.033 | 2.5 |
| DV | BAYR | NVA24 | 12810.353 | 0.013 | 1.0 |
| DV | BAYR | NVA24 | 12810.353 | 0.018 | 1.4 |
| DV | BAYR | NVA24 | 12810.353 | 0.023 | 1.8 |
| DV | BAYR | NVA24 | 12810.353 | 0.016 | 1.3 |

|    |           |       |           |       |     |
|----|-----------|-------|-----------|-------|-----|
|    | BAYR      | NVA21 | 29441.360 | 0.036 | 1.2 |
| DV | BAYR      | NVA21 | 29441.360 | 0.032 | 1.1 |
| DV | BAYR      | NVA21 | 29441.360 | 0.009 | 0.3 |
| DV | BAYR      | NVA21 | 29441.360 | 0.018 | 0.6 |
| DV | BAYR      | NVA21 | 29441.360 | 0.026 | 0.9 |
| DV | BAYR      | NVA21 | 29441.360 | 0.027 | 0.9 |
| DV | BAYR      | NVA21 | 29441.360 | 0.020 | 0.7 |
| DV | BAYR      | NVA21 | 29441.360 | 0.027 | 0.9 |
| DV | BAYR      | NVA20 | 13740.454 | 0.047 | 3.4 |
| DV | BAYR      | NVA20 | 13740.454 | 0.043 | 3.2 |
| DV | BAYR      | NVA20 | 13740.454 | 0.016 | 1.2 |
| DV | BAYR      | NVA20 | 13740.454 | 0.010 | 0.7 |
| DV | BAYR      | NVA20 | 13740.454 | 0.048 | 3.5 |
| DV | BAYR      | NVA20 | 13740.454 | 0.023 | 1.7 |
| DV | BAYR      | NVA20 | 13740.454 | 0.018 | 1.3 |
| DV | BAYR      | NVA20 | 13740.454 | 0.020 | 1.5 |
| DV | BAYR      | NVA1  | 13590.322 | 0.027 | 2.0 |
| DV | BAYR      | NVA1  | 13590.322 | 0.031 | 2.3 |
| DV | BAYR      | NVA1  | 13590.322 | 0.031 | 2.3 |
| DV | BAYR      | NVA1  | 13590.322 | 0.062 | 4.5 |
| DV | BAYR      | NVA1  | 13590.322 | 0.028 | 2.1 |
| DV | BAYR      | NVA1  | 13590.322 | 0.017 | 1.3 |
| DV | BAYR      | NVA1  | 13590.322 | 0.012 | 0.8 |
| DV | BAYR      | NVA1  | 13590.322 | 0.020 | 1.4 |
| DV | MIDLAND   | NVA34 | 26581.675 | 0.036 | 1.3 |
| DV | MIDLAND   | NVA34 | 26581.675 | 0.031 | 1.2 |
| DV | MIDLAND   | NVA34 | 26581.675 | 0.019 | 0.7 |
| DV | MIDLAND   | NVA34 | 26581.675 | 0.019 | 0.7 |
| DV | MIDLAND   | NVA34 | 26581.675 | 0.024 | 0.9 |
| DV | MIDLAND   | NVA34 | 26581.675 | 0.019 | 0.7 |
| DV | MIDLAND   | NVA34 | 26581.675 | 0.012 | 0.5 |
| DV | MIDLAND   | NVA34 | 26581.675 | 0.020 | 0.7 |
| DV | VASSAR    | VVA12 | 36916.453 | 0.016 | 0.4 |
| DV | VASSAR    | VVA12 | 36916.453 | 0.038 | 1.0 |
| DV | VASSAR    | VVA12 | 36916.453 | 0.043 | 1.2 |
| DV | VASSAR    | VVA12 | 36916.453 | 0.048 | 1.3 |
| DV | VASSAR    | VVA12 | 36916.453 | 0.043 | 1.2 |
| DV | VASSAR    | VVA12 | 36916.453 | 0.039 | 1.1 |
| DV | VASSAR    | VVA12 | 36916.453 | 0.034 | 0.9 |
| DV | VASSAR    | VVA12 | 36916.453 | 0.033 | 0.9 |
| DV | CHESANING | VVA25 | 61492.289 | 0.020 | 0.3 |
| DV | CHESANING | VVA25 | 61492.289 | 0.037 | 0.6 |
| DV | CHESANING | VVA25 | 61492.289 | 0.034 | 0.5 |
| DV | CHESANING | VVA25 | 61492.289 | 0.034 | 0.6 |
| DV | CHESANING | VVA25 | 61492.289 | 0.030 | 0.5 |
| DV | CHESANING | VVA25 | 61492.289 | 0.044 | 0.7 |
| DV | CHESANING | VVA25 | 61492.289 | 0.040 | 0.6 |
| DV | CHESANING | VVA25 | 61492.289 | 0.014 | 0.2 |
| DV | CHESANING | NVA40 | 33321.835 | 0.025 | 0.7 |
| DV | CHESANING | NVA40 | 33321.835 | 0.020 | 0.6 |
| DV | CHESANING | NVA40 | 33321.835 | 0.022 | 0.6 |
| DV | CHESANING | NVA40 | 33321.835 | 0.027 | 0.8 |
| DV | CHESANING | NVA40 | 33321.835 | 0.025 | 0.8 |
| DV | CHESANING | NVA40 | 33321.835 | 0.035 | 1.1 |
| DV | CHESANING | NVA40 | 33321.835 | 0.036 | 1.1 |
| DV | CHESANING | NVA40 | 33321.835 | 0.013 | 0.4 |
| DV | CHESANING | NVA40 | 33321.835 | 0.024 | 0.7 |
| DV | BAYR      | VVA10 | 49424.085 | 0.026 | 0.5 |
| DV | BAYR      | VVA10 | 49424.085 | 0.033 | 0.7 |
| DV | BAYR      | VVA10 | 49424.085 | 0.020 | 0.4 |
| DV | BAYR      | VVA10 | 49424.085 | 0.028 | 0.6 |
| DV | BAYR      | VVA10 | 49424.085 | 0.034 | 0.7 |
| DV | BAYR      | VVA10 | 49424.085 | 0.049 | 1.0 |
| DV | BAYR      | VVA10 | 49424.085 | 0.053 | 1.1 |
| DV | BAYR      | VVA10 | 49424.085 | 0.042 | 0.9 |

BAYR

VVA10

49424.085

0.028

0.6

**External Reliability**

| Station   |           | Ext Rel [ft] |    | Station   | Target |
|-----------|-----------|--------------|----|-----------|--------|
| BAYR      | Latitude  | 0.000        | DZ | MIBY      | NVA25  |
|           | Longitude | 0.000        | DX | MIBY      | NVA25  |
|           | Height    | 0.000        | DY | MIBY      | NVA25  |
| BIRCH RUN | Latitude  | 0.000        | DZ | BIRCH RUN | NVA22  |
|           | Longitude | 0.000        | DX | BIRCH RUN | NVA22  |
|           | Height    | 0.000        | DY | BIRCH RUN | NVA22  |
| CHESANING | Latitude  | 0.000        | DZ | BIRCH RUN | NVA12  |
|           | Longitude | 0.000        | DX | BIRCH RUN | NVA12  |
|           | Height    | 0.000        | DY | BIRCH RUN | NVA12  |
| HEMLOCK   | Latitude  | 0.000        | DZ | MIDLAND   | NVA39  |
|           | Longitude | 0.000        | DX | MIDLAND   | NVA39  |
|           | Height    | 0.000        | DY | MIDLAND   | NVA39  |
| MIBY      | Latitude  | 0.000        | DZ | MIBY      | NVA25  |
|           | Longitude | 0.000        | DX | MIBY      | NVA25  |
|           | Height    | 0.000        | DY | MIBY      | NVA25  |
| MIDLAND   | Latitude  | 0.000        | DZ | MIDLAND   | NVA39  |
|           | Longitude | 0.000        | DX | MIDLAND   | NVA39  |
|           | Height    | 0.000        | DY | MIDLAND   | NVA39  |
| NVA1      | Latitude  | 0.004        | DZ | BAYR      | NVA1   |
|           | Longitude | 0.005        | DX | BAYR      | NVA1   |
|           | Height    | -0.004       | DY | BAYR      | NVA1   |
| NVA10     | Latitude  | 0.009        | DZ | BAYR      | NVA10  |
|           | Longitude | 0.013        | DX | BAYR      | NVA10  |
|           | Height    | -0.009       | DY | BAYR      | NVA10  |
| NVA11     | Latitude  | 0.003        | DZ | BIRCH RUN | NVA11  |
|           | Longitude | 0.005        | DX | BIRCH RUN | NVA11  |
|           | Height    | -0.003       | DY | BIRCH RUN | NVA11  |
| NVA12     | Latitude  | 0.007        | DZ | CHESANING | NVA12  |
|           | Longitude | 0.009        | DX | CHESANING | NVA12  |
|           | Height    | -0.007       | DY | CHESANING | NVA12  |
| NVA13     | Latitude  | 0.008        | DZ | CHESANING | NVA13  |
|           | Longitude | 0.010        | DX | CHESANING | NVA13  |
|           | Height    | -0.008       | DY | CHESANING | NVA13  |
| NVA14     | Latitude  | 0.007        | DZ | HEMLOCK   | NVA14  |
|           | Longitude | 0.010        | DX | HEMLOCK   | NVA14  |
|           | Height    | -0.007       | DY | HEMLOCK   | NVA14  |
| NVA15     | Latitude  | 0.007        | DZ | HEMLOCK   | NVA15  |
|           | Longitude | 0.010        | DX | HEMLOCK   | NVA15  |
|           | Height    | -0.007       | DY | HEMLOCK   | NVA15  |
| NVA16     | Latitude  | 0.003        | DZ | CHESANING | NVA16  |
|           | Longitude | 0.005        | DX | CHESANING | NVA16  |
|           | Height    | -0.003       | DY | CHESANING | NVA16  |
| NVA17     | Latitude  | 0.006        | DZ | CHESANING | NVA17  |
|           | Longitude | 0.009        | DX | CHESANING | NVA17  |
|           | Height    | -0.006       | DY | CHESANING | NVA17  |
| NVA18     | Latitude  | 0.005        | DZ | CHESANING | NVA18  |
|           | Longitude | 0.007        | DX | CHESANING | NVA18  |
|           | Height    | -0.005       | DY | CHESANING | NVA18  |
| NVA19     | Latitude  | 0.007        | DZ | HEMLOCK   | NVA19  |
|           | Longitude | 0.010        | DX | HEMLOCK   | NVA19  |
|           | Height    | -0.007       | DY | HEMLOCK   | NVA19  |
| NVA2      | Latitude  | 0.002        | DZ | CHESANING | NVA2   |
|           | Longitude | 0.003        | DX | CHESANING | NVA2   |
|           | Height    | -0.002       | DY | CHESANING | NVA2   |
| NVA20     | Latitude  | 0.004        | DZ | BAYR      | NVA20  |
|           | Longitude | 0.005        | DX | BAYR      | NVA20  |
|           | Height    | -0.004       | DY | BAYR      | NVA20  |
| NVA21     | Latitude  | 0.005        | DZ | BAYR      | NVA21  |
|           | Longitude | 0.007        | DX | BAYR      | NVA21  |
|           | Height    | -0.005       | DY | BAYR      | NVA21  |

|       |           |        |    |           |       |
|-------|-----------|--------|----|-----------|-------|
| NVA22 | Latitude  | 0.006  | DZ | BAYR      | NVA22 |
|       | Longitude | 0.008  | DX | BAYR      | NVA22 |
|       | Height    | -0.006 | DY | BAYR      | NVA22 |
| NVA23 | Latitude  | 0.007  | DZ | HEMLOCK   | NVA23 |
|       | Longitude | 0.009  | DX | HEMLOCK   | NVA23 |
|       | Height    | -0.007 | DY | HEMLOCK   | NVA23 |
| NVA24 | Latitude  | 0.003  | DZ | BAYR      | NVA24 |
|       | Longitude | 0.005  | DX | BAYR      | NVA24 |
|       | Height    | -0.003 | DY | BAYR      | NVA24 |
| NVA25 | Latitude  | 0.006  | DZ | BAYR      | NVA25 |
|       | Longitude | 0.009  | DX | BAYR      | NVA25 |
|       | Height    | -0.006 | DY | BAYR      | NVA25 |
| NVA26 | Latitude  | 0.005  | DZ | BAYR      | NVA26 |
|       | Longitude | 0.007  | DX | BAYR      | NVA26 |
|       | Height    | -0.005 | DY | BAYR      | NVA26 |
| NVA27 | Latitude  | 0.005  | DZ | BAYR      | NVA27 |
|       | Longitude | 0.006  | DX | BAYR      | NVA27 |
|       | Height    | -0.005 | DY | BAYR      | NVA27 |
| NVA28 | Latitude  | 0.006  | DZ | BIRCH RUN | NVA28 |
|       | Longitude | 0.008  | DX | BIRCH RUN | NVA28 |
|       | Height    | -0.006 | DY | BIRCH RUN | NVA28 |
| NVA29 | Latitude  | 0.005  | DZ | BAYR      | NVA29 |
|       | Longitude | 0.006  | DX | BAYR      | NVA29 |
|       | Height    | -0.005 | DY | BAYR      | NVA29 |
| NVA3  | Latitude  | 0.004  | DZ | CHESANING | NVA3  |
|       | Longitude | 0.006  | DX | CHESANING | NVA3  |
|       | Height    | -0.004 | DY | CHESANING | NVA3  |
| NVA30 | Latitude  | 0.007  | DZ | HEMLOCK   | NVA30 |
|       | Longitude | 0.010  | DX | HEMLOCK   | NVA30 |
|       | Height    | -0.007 | DY | HEMLOCK   | NVA30 |
| NVA31 | Latitude  | 0.004  | DZ | BAYR      | NVA31 |
|       | Longitude | 0.005  | DX | BAYR      | NVA31 |
|       | Height    | -0.004 | DY | BAYR      | NVA31 |
| NVA32 | Latitude  | 0.005  | DZ | HEMLOCK   | NVA32 |
|       | Longitude | 0.007  | DX | HEMLOCK   | NVA32 |
|       | Height    | -0.005 | DY | HEMLOCK   | NVA32 |
| NVA33 | Latitude  | 0.008  | DZ | BAYR      | NVA33 |
|       | Longitude | 0.012  | DX | BAYR      | NVA33 |
|       | Height    | -0.008 | DY | BAYR      | NVA33 |
| NVA34 | Latitude  | 0.005  | DZ | MIDLAND   | NVA34 |
|       | Longitude | 0.007  | DX | MIDLAND   | NVA34 |
|       | Height    | -0.005 | DY | MIDLAND   | NVA34 |
| NVA35 | Latitude  | 0.007  | DZ | BAYR      | NVA35 |
|       | Longitude | 0.010  | DX | BAYR      | NVA35 |
|       | Height    | -0.007 | DY | BAYR      | NVA35 |
| NVA36 | Latitude  | 0.010  | DZ | BAYR      | NVA36 |
|       | Longitude | 0.013  | DX | BAYR      | NVA36 |
|       | Height    | -0.010 | DY | BAYR      | NVA36 |
| NVA37 | Latitude  | 0.004  | DZ | BAYR      | NVA37 |
|       | Longitude | 0.005  | DX | BAYR      | NVA37 |
|       | Height    | -0.004 | DY | BAYR      | NVA37 |
| NVA38 | Latitude  | 0.009  | DZ | BAYR      | NVA38 |
|       | Longitude | 0.013  | DX | BAYR      | NVA38 |
|       | Height    | -0.009 | DY | BAYR      | NVA38 |
| NVA39 | Latitude  | 0.006  | DZ | HEMLOCK   | NVA39 |
|       | Longitude | 0.008  | DX | HEMLOCK   | NVA39 |
|       | Height    | -0.006 | DY | HEMLOCK   | NVA39 |
| NVA4  | Latitude  | 0.007  | DZ | CHESANING | NVA4  |
|       | Longitude | 0.009  | DX | CHESANING | NVA4  |
|       | Height    | -0.007 | DY | CHESANING | NVA4  |
| NVA40 | Latitude  | 0.004  | DZ | CHESANING | NVA40 |
|       | Longitude | 0.006  | DX | CHESANING | NVA40 |
|       | Height    | -0.004 | DY | CHESANING | NVA40 |
| NVA5  | Latitude  | 0.005  | DZ | BIRCH RUN | NVA5  |
|       | Longitude | 0.006  | DX | BIRCH RUN | NVA5  |

|        |           |        |    |           |       |
|--------|-----------|--------|----|-----------|-------|
|        | Height    | -0.004 | DY | BIRCH RUN | NVA5  |
| NVA6   | Latitude  | 0.008  | DZ | BIRCH RUN | NVA6  |
|        | Longitude | 0.011  | DX | BIRCH RUN | NVA6  |
|        | Height    | -0.008 | DY | BIRCH RUN | NVA6  |
| NVA7   | Latitude  | 0.005  | DZ | HEMLOCK   | NVA7  |
|        | Longitude | 0.007  | DX | HEMLOCK   | NVA7  |
|        | Height    | -0.005 | DY | HEMLOCK   | NVA7  |
| NVA8   | Latitude  | 0.008  | DZ | HEMLOCK   | NVA8  |
|        | Longitude | 0.011  | DX | HEMLOCK   | NVA8  |
|        | Height    | -0.008 | DY | HEMLOCK   | NVA8  |
| NVA9   | Latitude  | 0.009  | DZ | MIDLAND   | NVA9  |
|        | Longitude | 0.012  | DX | MIDLAND   | NVA9  |
|        | Height    | -0.009 | DY | MIDLAND   | NVA9  |
| VA15   | Latitude  | None   |    |           |       |
|        | Longitude | None   |    |           |       |
|        | Height    | None   |    |           |       |
| VASSAR | Latitude  | -0.005 | DZ | VASSAR    | NVA38 |
|        | Longitude | -0.007 | DX | VASSAR    | NVA38 |
|        | Height    | 0.005  | DY | VASSAR    | NVA38 |
| VVA1   | Latitude  | -0.011 | DZ | VVA25     | NVA40 |
|        | Longitude | -0.015 | DX | VVA25     | NVA40 |
|        | Height    | 0.011  | DY | VVA25     | NVA40 |
| VVA10  | Latitude  | 0.006  | DZ | BAYR      | VVA10 |
|        | Longitude | 0.009  | DX | BAYR      | VVA10 |
|        | Height    | -0.006 | DY | BAYR      | VVA10 |
| VVA11  | Latitude  | 0.004  | DZ | BAYR      | VVA11 |
|        | Longitude | 0.006  | DX | BAYR      | VVA11 |
|        | Height    | -0.004 | DY | BAYR      | VVA11 |
| VVA12  | Latitude  | 0.006  | DZ | VASSAR    | VVA12 |
|        | Longitude | 0.008  | DX | VASSAR    | VVA12 |
|        | Height    | -0.006 | DY | VASSAR    | VVA12 |
| VVA13  | Latitude  | 0.005  | DZ | BAYR      | VVA13 |
|        | Longitude | 0.006  | DX | BAYR      | VVA13 |
|        | Height    | -0.005 | DY | BAYR      | VVA13 |
| VVA14  | Latitude  | 0.006  | DZ | HEMLOCK   | VVA14 |
|        | Longitude | 0.008  | DX | HEMLOCK   | VVA14 |
|        | Height    | -0.006 | DY | HEMLOCK   | VVA14 |
| VVA15  | Latitude  | 0.006  | DZ | HEMLOCK   | VVA15 |
|        | Longitude | 0.008  | DX | HEMLOCK   | VVA15 |
|        | Height    | -0.005 | DY | HEMLOCK   | VVA15 |
| VVA16  | Latitude  | 0.005  | DZ | BIRCH RUN | VVA16 |
|        | Longitude | 0.007  | DX | BIRCH RUN | VVA16 |
|        | Height    | -0.005 | DY | BIRCH RUN | VVA16 |
| VVA17  | Latitude  | 0.006  | DZ | BIRCH RUN | VVA17 |
|        | Longitude | 0.009  | DX | BIRCH RUN | VVA17 |
|        | Height    | -0.006 | DY | BIRCH RUN | VVA17 |
| VVA18  | Latitude  | 0.007  | DZ | BIRCH RUN | VVA18 |
|        | Longitude | 0.009  | DX | BIRCH RUN | VVA18 |
|        | Height    | -0.007 | DY | BIRCH RUN | VVA18 |
| VVA19  | Latitude  | 0.004  | DZ | BIRCH RUN | VVA19 |
|        | Longitude | 0.005  | DX | BIRCH RUN | VVA19 |
|        | Height    | -0.004 | DY | BIRCH RUN | VVA19 |
| VVA2   | Latitude  | -0.011 | DZ | VVA25     | NVA40 |
|        | Longitude | -0.015 | DX | VVA25     | NVA40 |
|        | Height    | 0.011  | DY | VVA25     | NVA40 |
| VVA20  | Latitude  | 0.003  | DZ | BIRCH RUN | VVA20 |
|        | Longitude | 0.004  | DX | BIRCH RUN | VVA20 |
|        | Height    | -0.003 | DY | BIRCH RUN | VVA20 |
| VVA21  | Latitude  | 0.004  | DZ | BIRCH RUN | VVA21 |
|        | Longitude | 0.006  | DX | BIRCH RUN | VVA21 |
|        | Height    | -0.004 | DY | BIRCH RUN | VVA21 |
| VVA22  | Latitude  | 0.007  | DZ | BIRCH RUN | VVA22 |
|        | Longitude | 0.010  | DX | BIRCH RUN | VVA22 |
|        | Height    | -0.007 | DY | BIRCH RUN | VVA22 |
| VVA23  | Latitude  | 0.006  | DZ | CHESANING | VVA23 |



|       |           |        |    |           |       |
|-------|-----------|--------|----|-----------|-------|
|       | Longitude | 0.009  | DX | CHESANING | VVA23 |
|       | Height    | -0.006 | DY | CHESANING | VVA23 |
| VVA24 | Latitude  | 0.007  | DZ | HEMLOCK   | VVA24 |
|       | Longitude | 0.010  | DX | HEMLOCK   | VVA24 |
|       | Height    | -0.007 | DY | HEMLOCK   | VVA24 |
| VVA25 | Latitude  | -0.011 | DZ | VVA25     | NVA40 |
|       | Longitude | -0.015 | DX | VVA25     | NVA40 |
|       | Height    | 0.011  | DY | VVA25     | NVA40 |
| VVA26 | Latitude  | 0.004  | DZ | CHESANING | VVA26 |
|       | Longitude | 0.005  | DX | CHESANING | VVA26 |
|       | Height    | -0.004 | DY | CHESANING | VVA26 |
| VVA27 | Latitude  | 0.005  | DZ | CHESANING | VVA27 |
|       | Longitude | 0.007  | DX | CHESANING | VVA27 |
|       | Height    | -0.005 | DY | CHESANING | VVA27 |
| VVA28 | Latitude  | 0.005  | DZ | BIRCH RUN | VVA28 |
|       | Longitude | 0.006  | DX | BIRCH RUN | VVA28 |
|       | Height    | -0.005 | DY | BIRCH RUN | VVA28 |
| VVA29 | Latitude  | 0.007  | DZ | BIRCH RUN | VVA29 |
|       | Longitude | 0.009  | DX | BIRCH RUN | VVA29 |
|       | Height    | -0.007 | DY | BIRCH RUN | VVA29 |
| VVA3  | Latitude  | 0.005  | DZ | BAYR      | VVA3  |
|       | Longitude | 0.007  | DX | BAYR      | VVA3  |
|       | Height    | -0.005 | DY | BAYR      | VVA3  |
| VVA30 | Latitude  | 0.005  | DZ | CHESANING | VVA30 |
|       | Longitude | 0.006  | DX | CHESANING | VVA30 |
|       | Height    | -0.005 | DY | CHESANING | VVA30 |
| VVA4  | Latitude  | 0.004  | DZ | BIRCH RUN | VVA4  |
|       | Longitude | 0.006  | DX | BIRCH RUN | VVA4  |
|       | Height    | -0.004 | DY | BIRCH RUN | VVA4  |
| VVA5  | Latitude  | 0.005  | DZ | BAYR      | VVA5  |
|       | Longitude | 0.007  | DX | BAYR      | VVA5  |
|       | Height    | -0.005 | DY | BAYR      | VVA5  |
| VVA6  | Latitude  | 0.004  | DZ | BAYR      | VVA6  |
|       | Longitude | 0.005  | DX | BAYR      | VVA6  |
|       | Height    | -0.004 | DY | BAYR      | VVA6  |
| VVA7  | Latitude  | 0.007  | DZ | HEMLOCK   | VVA7  |
|       | Longitude | 0.009  | DX | HEMLOCK   | VVA7  |
|       | Height    | -0.007 | DY | HEMLOCK   | VVA7  |
| VVA8  | Latitude  | 0.008  | DZ | BAYR      | VVA8  |
|       | Longitude | 0.011  | DX | BAYR      | VVA8  |
|       | Height    | -0.008 | DY | BAYR      | VVA8  |
| VVA9  | Latitude  | 0.007  | DZ | BAYR      | VVA9  |
|       | Longitude | 0.010  | DX | BAYR      | VVA9  |
|       | Height    | -0.007 | DY | BAYR      | VVA9  |

**Absolute Error Ellipses (2D - 39.4% 1D - 68.3%)**

| Station   | A [fti] | B [fti] | A/B | Phi | Sd Hgt [fti] |
|-----------|---------|---------|-----|-----|--------------|
| BAYR      | 0.000   | 0.000   | 1.0 | 90° | 0.000        |
| BIRCH RUN | 0.000   | 0.000   | 1.0 | 90° | 0.000        |
| CHESANING | 0.000   | 0.000   | 1.0 | 90° | 0.000        |
| HEMLOCK   | 0.000   | 0.000   | 1.0 | 90° | 0.000        |
| MIBY      | 0.000   | 0.000   | 1.0 | 90° | 0.000        |
| MIDLAND   | 0.000   | 0.000   | 1.0 | 90° | 0.000        |
| NVA1      | 0.005   | 0.005   | 1.0 | 90° | 0.005        |
| NVA10     | 0.011   | 0.011   | 1.0 | 2°  | 0.011        |
| NVA11     | 0.004   | 0.004   | 1.0 | 90° | 0.004        |
| NVA12     | 0.008   | 0.008   | 1.0 | -1° | 0.008        |
| NVA13     | 0.010   | 0.010   | 1.0 | 1°  | 0.010        |
| NVA14     | 0.008   | 0.008   | 1.0 | 90° | 0.008        |
| NVA15     | 0.010   | 0.010   | 1.0 | 1°  | 0.010        |
| NVA16     | 0.004   | 0.004   | 1.0 | 90° | 0.004        |
| NVA17     | 0.008   | 0.008   | 1.0 | 90° | 0.008        |
| NVA18     | 0.007   | 0.007   | 1.0 | -3° | 0.007        |
| NVA19     | 0.008   | 0.008   | 1.0 | 3°  | 0.008        |

|        |       |       |     |      |       |
|--------|-------|-------|-----|------|-------|
| NVA2   | 0.003 | 0.003 | 1.0 | -2°  | 0.003 |
| NVA20  | 0.005 | 0.005 | 1.0 | 90°  | 0.005 |
| NVA21  | 0.007 | 0.007 | 1.0 | 90°  | 0.007 |
| NVA22  | 0.007 | 0.007 | 1.0 | 90°  | 0.007 |
| NVA23  | 0.009 | 0.009 | 1.0 | -6°  | 0.009 |
| NVA24  | 0.004 | 0.004 | 1.0 | 7°   | 0.004 |
| NVA25  | 0.007 | 0.007 | 1.0 | 90°  | 0.007 |
| NVA26  | 0.007 | 0.007 | 1.0 | 90°  | 0.007 |
| NVA27  | 0.006 | 0.006 | 1.0 | 90°  | 0.006 |
| NVA28  | 0.008 | 0.008 | 1.0 | -7°  | 0.008 |
| NVA29  | 0.006 | 0.006 | 1.0 | 90°  | 0.006 |
| NVA3   | 0.006 | 0.006 | 1.0 | -6°  | 0.006 |
| NVA30  | 0.007 | 0.007 | 1.0 | 2°   | 0.007 |
| NVA31  | 0.005 | 0.005 | 1.0 | -14° | 0.005 |
| NVA32  | 0.006 | 0.006 | 1.0 | 90°  | 0.006 |
| NVA33  | 0.011 | 0.011 | 1.0 | 4°   | 0.011 |
| NVA34  | 0.006 | 0.006 | 1.0 | 90°  | 0.006 |
| NVA35  | 0.010 | 0.010 | 1.0 | 90°  | 0.010 |
| NVA36  | 0.011 | 0.011 | 1.0 | 0°   | 0.011 |
| NVA37  | 0.005 | 0.005 | 1.0 | 90°  | 0.005 |
| NVA38  | 0.010 | 0.010 | 1.0 | 2°   | 0.010 |
| NVA39  | 0.006 | 0.006 | 1.0 | 4°   | 0.006 |
| NVA4   | 0.009 | 0.009 | 1.0 | 1°   | 0.009 |
| NVA40  | 0.006 | 0.006 | 1.0 | 90°  | 0.006 |
| NVA5   | 0.006 | 0.006 | 1.0 | 90°  | 0.006 |
| NVA6   | 0.009 | 0.009 | 1.0 | 90°  | 0.009 |
| NVA7   | 0.004 | 0.004 | 1.0 | 90°  | 0.004 |
| NVA8   | 0.008 | 0.008 | 1.0 | 4°   | 0.008 |
| NVA9   | 0.010 | 0.010 | 1.0 | 1°   | 0.010 |
| VA15   | 0.018 | 0.018 | 1.0 | 90°  | 0.018 |
| VASSAR | 0.010 | 0.010 | 1.0 | 11°  | 0.010 |
| VVA1   | 0.011 | 0.011 | 1.0 | 0°   | 0.011 |
| VVA10  | 0.009 | 0.009 | 1.0 | 90°  | 0.009 |
| VVA11  | 0.006 | 0.006 | 1.0 | 90°  | 0.006 |
| VVA12  | 0.013 | 0.013 | 1.0 | 90°  | 0.013 |
| VVA13  | 0.006 | 0.006 | 1.0 | 0°   | 0.006 |
| VVA14  | 0.007 | 0.007 | 1.0 | 1°   | 0.007 |
| VVA15  | 0.007 | 0.007 | 1.0 | 0°   | 0.007 |
| VVA16  | 0.006 | 0.006 | 1.0 | 90°  | 0.006 |
| VVA17  | 0.008 | 0.008 | 1.0 | 0°   | 0.008 |
| VVA18  | 0.009 | 0.009 | 1.0 | 90°  | 0.009 |
| VVA19  | 0.005 | 0.005 | 1.0 | 90°  | 0.005 |
| VVA2   | 0.011 | 0.011 | 1.0 | 0°   | 0.011 |
| VVA20  | 0.004 | 0.004 | 1.0 | 90°  | 0.004 |
| VVA21  | 0.006 | 0.006 | 1.0 | 90°  | 0.006 |
| VVA22  | 0.008 | 0.008 | 1.0 | 90°  | 0.008 |
| VVA23  | 0.008 | 0.008 | 1.0 | 90°  | 0.008 |
| VVA24  | 0.009 | 0.009 | 1.0 | 90°  | 0.009 |
| VVA25  | 0.010 | 0.010 | 1.0 | 0°   | 0.010 |
| VVA26  | 0.005 | 0.005 | 1.0 | 90°  | 0.005 |
| VVA27  | 0.006 | 0.006 | 1.0 | 90°  | 0.006 |
| VVA28  | 0.006 | 0.006 | 1.0 | 0°   | 0.006 |
| VVA29  | 0.009 | 0.009 | 1.0 | 90°  | 0.009 |
| VVA3   | 0.007 | 0.007 | 1.0 | 90°  | 0.007 |
| VVA30  | 0.006 | 0.006 | 1.0 | -1°  | 0.006 |
| VVA4   | 0.005 | 0.005 | 1.0 | -13° | 0.005 |
| VVA5   | 0.007 | 0.007 | 1.0 | 90°  | 0.007 |
| VVA6   | 0.005 | 0.005 | 1.0 | 90°  | 0.005 |
| VVA7   | 0.009 | 0.009 | 1.0 | 90°  | 0.009 |
| VVA8   | 0.010 | 0.010 | 1.0 | 90°  | 0.010 |
| VVA9   | 0.009 | 0.009 | 1.0 | 90°  | 0.009 |

**Relative Error Ellipses (2D - 39.4%)**

| Station | Station | A [fti] | B [fti] | A/B | Psi | Sd Hgt [fti] |
|---------|---------|---------|---------|-----|-----|--------------|
|---------|---------|---------|---------|-----|-----|--------------|

|           |       |       |       |     |      |       |
|-----------|-------|-------|-------|-----|------|-------|
| VVA25     | NVA40 | 0.011 | 0.011 | 1.0 | 0°   | 0.011 |
| HEMLOCK   | VA15  | 0.018 | 0.018 | 1.0 | -61° | 0.018 |
| CHESANING | VVA24 | 0.009 | 0.009 | 1.0 | -47° | 0.009 |
| CHESANING | VVA22 | 0.008 | 0.008 | 1.0 | 48°  | 0.008 |
| CHESANING | NVA4  | 0.009 | 0.009 | 1.0 | 8°   | 0.009 |
| CHESANING | NVA12 | 0.008 | 0.008 | 1.0 | 72°  | 0.008 |
| BIRCH RUN | VVA22 | 0.008 | 0.008 | 1.0 | -24° | 0.008 |
| BIRCH RUN | NVA6  | 0.009 | 0.009 | 1.0 | 40°  | 0.009 |
| BIRCH RUN | NVA22 | 0.007 | 0.007 | 1.0 | -85° | 0.007 |
| BIRCH RUN | NVA12 | 0.008 | 0.008 | 1.0 | -45° | 0.008 |
| HEMLOCK   | VVA24 | 0.009 | 0.009 | 1.0 | 86°  | 0.009 |
| HEMLOCK   | NVA8  | 0.008 | 0.008 | 1.0 | -87° | 0.008 |
| HEMLOCK   | NVA7  | 0.004 | 0.004 | 1.0 | 33°  | 0.004 |
| HEMLOCK   | NVA4  | 0.009 | 0.009 | 1.0 | 31°  | 0.009 |
| HEMLOCK   | NVA39 | 0.006 | 0.006 | 1.0 | -6°  | 0.006 |
| HEMLOCK   | NVA30 | 0.007 | 0.007 | 1.0 | -63° | 0.007 |
| HEMLOCK   | NVA19 | 0.008 | 0.008 | 1.0 | -33° | 0.008 |
| HEMLOCK   | NVA14 | 0.008 | 0.008 | 1.0 | -44° | 0.008 |
| MIBY      | NVA25 | 0.007 | 0.007 | 1.0 | 83°  | 0.007 |
| BAYR      | NVA9  | 0.010 | 0.010 | 1.0 | 62°  | 0.010 |
| BAYR      | NVA6  | 0.009 | 0.009 | 1.0 | -46° | 0.009 |
| BAYR      | NVA38 | 0.010 | 0.010 | 1.0 | 50°  | 0.010 |
| BAYR      | NVA36 | 0.011 | 0.011 | 1.0 | 13°  | 0.011 |
| BAYR      | NVA25 | 0.007 | 0.007 | 1.0 | -49° | 0.007 |
| BAYR      | NVA22 | 0.007 | 0.007 | 1.0 | -84° | 0.007 |
| BAYR      | NVA10 | 0.011 | 0.011 | 1.0 | -85° | 0.011 |
| MIDLAND   | NVA9  | 0.010 | 0.010 | 1.0 | 42°  | 0.010 |
| MIDLAND   | NVA8  | 0.008 | 0.008 | 1.0 | -13° | 0.008 |
| MIDLAND   | NVA7  | 0.004 | 0.004 | 1.0 | -87° | 0.004 |
| MIDLAND   | NVA30 | 0.007 | 0.007 | 1.0 | 17°  | 0.007 |
| MIDLAND   | NVA19 | 0.008 | 0.008 | 1.0 | 24°  | 0.008 |
| MIDLAND   | NVA14 | 0.008 | 0.008 | 1.0 | 73°  | 0.008 |
| VASSAR    | NVA38 | 0.011 | 0.011 | 1.0 | 0°   | 0.011 |
| VASSAR    | NVA36 | 0.011 | 0.011 | 1.0 | 0°   | 0.011 |
| VASSAR    | NVA10 | 0.010 | 0.010 | 1.0 | 0°   | 0.010 |
| MIDLAND   | NVA39 | 0.006 | 0.006 | 1.0 | 7°   | 0.006 |
| HEMLOCK   | VVA15 | 0.007 | 0.007 | 1.0 | -61° | 0.007 |
| CHESANING | VVA30 | 0.006 | 0.006 | 1.0 | 46°  | 0.006 |
| CHESANING | VVA27 | 0.006 | 0.006 | 1.0 | 24°  | 0.006 |
| CHESANING | VVA26 | 0.005 | 0.005 | 1.0 | 34°  | 0.005 |
| CHESANING | VVA23 | 0.008 | 0.008 | 1.0 | 66°  | 0.008 |
| CHESANING | NVA3  | 0.006 | 0.006 | 1.0 | -38° | 0.006 |
| CHESANING | NVA2  | 0.003 | 0.003 | 1.0 | 36°  | 0.003 |
| CHESANING | NVA18 | 0.007 | 0.007 | 1.0 | -47° | 0.007 |
| CHESANING | NVA17 | 0.008 | 0.008 | 1.0 | -21° | 0.008 |
| CHESANING | NVA16 | 0.004 | 0.004 | 1.0 | 7°   | 0.004 |
| CHESANING | NVA13 | 0.010 | 0.010 | 1.0 | -56° | 0.010 |
| BIRCH RUN | VVA4  | 0.005 | 0.005 | 1.0 | -63° | 0.005 |
| BIRCH RUN | VVA29 | 0.009 | 0.009 | 1.0 | 69°  | 0.009 |
| BIRCH RUN | VVA28 | 0.006 | 0.006 | 1.0 | -44° | 0.006 |
| BIRCH RUN | VVA21 | 0.006 | 0.006 | 1.0 | -35° | 0.006 |
| BIRCH RUN | VVA20 | 0.004 | 0.004 | 1.0 | 85°  | 0.004 |
| BIRCH RUN | VVA19 | 0.005 | 0.005 | 1.0 | -37° | 0.005 |
| BIRCH RUN | VVA18 | 0.009 | 0.009 | 1.0 | 69°  | 0.009 |
| BIRCH RUN | VVA17 | 0.008 | 0.008 | 1.0 | 7°   | 0.008 |
| BIRCH RUN | VVA16 | 0.006 | 0.006 | 1.0 | -11° | 0.006 |
| BIRCH RUN | NVA5  | 0.006 | 0.006 | 1.0 | 0°   | 0.006 |
| BIRCH RUN | NVA28 | 0.008 | 0.008 | 1.0 | -44° | 0.008 |
| BIRCH RUN | NVA11 | 0.004 | 0.004 | 1.0 | 29°  | 0.004 |
| HEMLOCK   | VVA7  | 0.009 | 0.009 | 1.0 | -55° | 0.009 |
| HEMLOCK   | VVA14 | 0.007 | 0.007 | 1.0 | -41° | 0.007 |
| HEMLOCK   | NVA32 | 0.006 | 0.006 | 1.0 | -86° | 0.006 |
| HEMLOCK   | NVA23 | 0.009 | 0.009 | 1.0 | 3°   | 0.009 |
| HEMLOCK   | NVA15 | 0.010 | 0.010 | 1.0 | -26° | 0.010 |
| VVA25     | VVA2  | 0.005 | 0.005 | 1.0 | 0°   | 0.005 |

|           |       |       |       |     |      |       |
|-----------|-------|-------|-------|-----|------|-------|
|           | VVA1  | 0.006 | 0.006 | 1.0 | 0°   | 0.006 |
| BAYR      | VVA9  | 0.009 | 0.009 | 1.0 | -37° | 0.009 |
| BAYR      | VVA8  | 0.010 | 0.010 | 1.0 | 77°  | 0.010 |
| BAYR      | VVA6  | 0.005 | 0.005 | 1.0 | -77° | 0.005 |
| BAYR      | VVA5  | 0.007 | 0.007 | 1.0 | -72° | 0.007 |
| BAYR      | VVA3  | 0.007 | 0.007 | 1.0 | -77° | 0.007 |
| BAYR      | VVA13 | 0.006 | 0.006 | 1.0 | 46°  | 0.006 |
| BAYR      | VVA11 | 0.006 | 0.006 | 1.0 | 32°  | 0.006 |
| BAYR      | NVA37 | 0.005 | 0.005 | 1.0 | 25°  | 0.005 |
| BAYR      | NVA35 | 0.010 | 0.010 | 1.0 | 39°  | 0.010 |
| BAYR      | NVA33 | 0.011 | 0.011 | 1.0 | -30° | 0.011 |
| BAYR      | NVA31 | 0.005 | 0.005 | 1.0 | 60°  | 0.005 |
| BAYR      | NVA29 | 0.006 | 0.006 | 1.0 | 27°  | 0.006 |
| BAYR      | NVA27 | 0.006 | 0.006 | 1.0 | -26° | 0.006 |
| BAYR      | NVA26 | 0.007 | 0.007 | 1.0 | -4°  | 0.007 |
| BAYR      | NVA24 | 0.004 | 0.004 | 1.0 | 33°  | 0.004 |
| BAYR      | NVA21 | 0.007 | 0.007 | 1.0 | 54°  | 0.007 |
| BAYR      | NVA20 | 0.005 | 0.005 | 1.0 | 25°  | 0.005 |
| BAYR      | NVA1  | 0.005 | 0.005 | 1.0 | -57° | 0.005 |
| MIDLAND   | NVA34 | 0.006 | 0.006 | 1.0 | -40° | 0.006 |
| VASSAR    | VVA12 | 0.008 | 0.008 | 1.0 | 0°   | 0.008 |
| CHESANING | VVA25 | 0.010 | 0.010 | 1.0 | 77°  | 0.010 |
| CHESANING | NVA40 | 0.006 | 0.006 | 1.0 | 83°  | 0.006 |
| BAYR      | VVA10 | 0.009 | 0.009 | 1.0 | -15° | 0.009 |




## Testing and Estimated Errors

### Coordinate Tests

| Station   |           | MDB       | BNR   | W-Test | T-Test |
|-----------|-----------|-----------|-------|--------|--------|
| BAYR      | Latitude  | 0.024 fti | 999.9 | 0.00   | 0.00   |
|           | Longitude | 0.024 fti | 999.9 | 0.00   |        |
|           | Height    | 0.024 fti | 999.9 | 0.00   |        |
| BIRCH RUN | Latitude  | 0.024 fti | 999.9 | 0.00   | 0.00   |
|           | Longitude | 0.024 fti | 999.9 | 0.00   |        |
|           | Height    | 0.024 fti | 999.9 | 0.00   |        |
| CHESANING | Latitude  | 0.024 fti | 999.9 | 0.00   | 0.00   |
|           | Longitude | 0.024 fti | 999.9 | 0.00   |        |
|           | Height    | 0.024 fti | 999.9 | 0.00   |        |
| HEMLOCK   | Latitude  | 0.018 fti | 999.9 | 0.00   | 0.00   |
|           | Longitude | 0.018 fti | 999.9 | 0.00   |        |
|           | Height    | 0.018 fti | 999.9 | 0.00   |        |
| MIBY      | Latitude  | 0.043 fti | 999.9 | 0.00   | 0.00   |
|           | Longitude | 0.043 fti | 999.9 | 0.00   |        |
|           | Height    | 0.043 fti | 999.9 | 0.00   |        |
| MIDLAND   | Latitude  | 0.019 fti | 999.9 | 0.00   | 0.00   |
|           | Longitude | 0.019 fti | 999.9 | 0.00   |        |
|           | Height    | 0.019 fti | 999.9 | 0.00   |        |

### Observation Tests

|    | Station   | Target | MDB       | Red | BNR | W-Test | T-Test |
|----|-----------|--------|-----------|-----|-----|--------|--------|
| DX | VVA25     | NVA40  | 0.065 fti | 69  | 1.9 | 2.70   | 3.05   |
| DY |           |        | 0.065 fti | 69  | 1.9 | -0.72  |        |
| DZ |           |        | 0.065 fti | 69  | 1.9 | 1.16   |        |
| DX | HEMLOCK   | VA15   |           |     |     |        |        |
| DY |           |        |           |     |     |        |        |
| DZ |           |        |           |     |     |        |        |
| DX | CHESANING | VVA24  | 0.079 fti | 88  | 1.0 | 0.30   | 0.38   |
| DY |           |        | 0.079 fti | 88  | 1.0 | -0.28  |        |
| DZ |           |        | 0.079 fti | 88  | 1.0 | 0.99   |        |
| DX | CHESANING | VVA24  | 0.079 fti | 88  | 1.0 | -0.03  | 0.06   |
| DY |           |        | 0.079 fti | 88  | 1.0 | -0.08  |        |
| DZ |           |        | 0.079 fti | 88  | 1.0 | 0.42   |        |

|    |           |       |           |    |     |       |   |
|----|-----------|-------|-----------|----|-----|-------|---|
| DX | CHESANING | VVA24 | 0.079 fti | 88 | 1.0 | 0.37  | 0.05  |
| DY |           |       | 0.079 fti | 88 | 1.0 | -0.16 |   |
| DZ |           |       | 0.079 fti | 88 | 1.0 | -0.04 |   |
| DX | CHESANING | VVA24 | 0.079 fti | 88 | 1.0 | 0.46  | 0.08  |
| DY |           |       | 0.079 fti | 88 | 1.0 | 0.04  |   |
| DZ |           |       | 0.079 fti | 88 | 1.0 | 0.18  |   |
| DX | CHESANING | VVA22 | 0.079 fti | 90 | 0.9 | 0.01  | 0.03  |
| DY |           |       | 0.079 fti | 90 | 0.9 | 0.12  |   |
| DZ |           |       | 0.079 fti | 90 | 0.9 | 0.28  |   |
| DX | CHESANING | VVA22 | 0.079 fti | 90 | 0.9 | -0.20 | 0.12  |
| DY |           |       | 0.079 fti | 90 | 0.9 | 0.12  |   |
| DZ |           |       | 0.079 fti | 90 | 0.9 | 0.54  |   |
| DX | CHESANING | VVA22 | 0.079 fti | 90 | 0.9 | -0.17 | 0.06  |
| DY |           |       | 0.079 fti | 90 | 0.9 | -0.01 |   |
| DZ |           |       | 0.079 fti | 90 | 0.9 | 0.38  |   |
| DX | CHESANING | VVA22 | 0.079 fti | 90 | 0.9 | -0.10 | 0.29  |
| DY |           |       | 0.079 fti | 90 | 0.9 | 0.92  |   |
| DZ |           |       | 0.079 fti | 90 | 0.9 | -0.10 |   |
| DX | CHESANING | NVA4  | 0.071 fti | 86 | 1.1 | -0.21 | 0.05  |
| DY |           |       | 0.071 fti | 86 | 1.1 | 0.06  |   |
| DZ |           |       | 0.071 fti | 86 | 1.1 | -0.34 |   |
| DX | CHESANING | NVA4  | 0.071 fti | 86 | 1.1 | -0.23 | 0.04  |
| DY |           |       | 0.071 fti | 86 | 1.1 | 0.18  |   |
| DZ |           |       | 0.071 fti | 86 | 1.1 | -0.17 |   |
| DX | CHESANING | NVA4  | 0.071 fti | 86 | 1.1 | -0.06 | 0.09  |
| DY |           |       | 0.071 fti | 86 | 1.1 | 0.27  |   |
| DZ |           |       | 0.071 fti | 86 | 1.1 | -0.43 |   |
| DX | CHESANING | NVA4  | 0.071 fti | 86 | 1.1 | 0.30  | 0.10  |
| DY |           |       | 0.071 fti | 86 | 1.1 | -0.42 |   |
| DZ |           |       | 0.071 fti | 86 | 1.1 | 0.21  |   |
| DX | CHESANING | NVA12 | 0.066 fti | 85 | 1.1 | 1.07  | 3.29  |
| DY |           |       | 0.066 fti | 85 | 1.1 | -1.97 |      |
| DZ |           |       | 0.066 fti | 85 | 1.1 | 2.20  |      |
| DX | CHESANING | NVA12 | 0.066 fti | 85 | 1.1 | 0.56  | 1.65  |
| DY |           |       | 0.066 fti | 85 | 1.1 | -1.64 |   |
| DZ |           |       | 0.066 fti | 85 | 1.1 | 1.39  |   |
| DX | CHESANING | NVA12 | 0.066 fti | 85 | 1.1 | -0.42 | 0.18  |
| DY |           |       | 0.066 fti | 85 | 1.1 | -0.59 |   |
| DZ |           |       | 0.066 fti | 85 | 1.1 | -0.06 |   |
| DX | CHESANING | NVA12 | 0.066 fti | 85 | 1.1 | -0.50 | 0.73  |
| DY |           |       | 0.066 fti | 85 | 1.1 | 0.08  |   |
| DZ |           |       | 0.066 fti | 85 | 1.1 | -1.39 |   |
| DX | BIRCH RUN | VVA22 | 0.066 fti | 84 | 1.2 | -0.14 | 0.17  |
| DY |           |       | 0.066 fti | 84 | 1.2 | -0.62 |   |
| DZ |           |       | 0.066 fti | 84 | 1.2 | 0.31  |   |
| DX | BIRCH RUN | VVA22 | 0.066 fti | 84 | 1.2 | -0.27 | 0.05  |
| DY |           |       | 0.066 fti | 84 | 1.2 | 0.28  |   |
| DZ |           |       | 0.066 fti | 84 | 1.2 | -0.11 |   |
| DX | BIRCH RUN | VVA22 | 0.066 fti | 84 | 1.2 | 0.37  | 0.19  |
| DY |           |       | 0.066 fti | 84 | 1.2 | -0.52 |   |
| DZ |           |       | 0.066 fti | 84 | 1.2 | -0.42 |   |
| DX | BIRCH RUN | VVA22 | 0.066 fti | 84 | 1.2 | 0.44  | 0.23  |
| DY |           |       | 0.066 fti | 84 | 1.2 | -0.09 |   |
| DZ |           |       | 0.066 fti | 84 | 1.2 | -0.69 |   |
| DX | BIRCH RUN | NVA6  | 0.075 fti | 85 | 1.2 | -0.02 | 0.13  |
| DY |           |       | 0.075 fti | 85 | 1.2 | 0.44  |   |
| DZ |           |       | 0.075 fti | 85 | 1.2 | -0.44 |   |
| DX | BIRCH RUN | NVA6  | 0.075 fti | 85 | 1.2 | -0.24 | 0.76  |
| DY |           |       | 0.075 fti | 85 | 1.2 | 1.33  |   |
| DZ |           |       | 0.075 fti | 85 | 1.2 | -0.67 |   |
| DX | BIRCH RUN | NVA6  | 0.075 fti | 85 | 1.2 | -0.01 | 0.55  |
| DY |           |       | 0.075 fti | 85 | 1.2 | 0.97  |   |
| DZ |           |       | 0.075 fti | 85 | 1.2 | -0.83 |   |
| DX | BIRCH RUN | NVA6  | 0.075 fti | 85 | 1.2 | 0.20  | 0.07  |

|    |           |       |           |    |     |       |      |   |
|----|-----------|-------|-----------|----|-----|-------|------|---|
| DY |           |       | 0.075 fti | 85 | 1.2 | 0.23  |      |   |
| DZ |           |       | 0.075 fti | 85 | 1.2 | -0.34 |      |   |
| DX | BIRCH RUN | NVA22 | 0.067 fti | 88 | 1.0 | -0.47 | 0.28 |   |
| DY |           |       | 0.067 fti | 88 | 1.0 | -0.30 |      |   |
| DZ |           |       | 0.067 fti | 88 | 1.0 | 0.74  |      |   |
| DX | BIRCH RUN | NVA22 | 0.067 fti | 88 | 1.0 | -0.27 | 0.06 |   |
| DY |           |       | 0.067 fti | 88 | 1.0 | -0.32 |      |   |
| DZ |           |       | 0.067 fti | 88 | 1.0 | 0.07  |      |   |
| DX | BIRCH RUN | NVA22 | 0.067 fti | 88 | 1.0 | 1.12  | 0.59 |   |
| DY |           |       | 0.067 fti | 88 | 1.0 | 0.42  |      |   |
| DZ |           |       | 0.067 fti | 88 | 1.0 | 0.60  |      |   |
| DX | BIRCH RUN | NVA22 | 0.067 fti | 88 | 1.0 | 1.15  | 0.59 |   |
| DY |           |       | 0.067 fti | 88 | 1.0 | 0.01  |      |   |
| DZ |           |       | 0.067 fti | 88 | 1.0 | 0.67  |      |   |
| DX | BIRCH RUN | NVA12 | 0.075 fti | 89 | 1.0 | -0.12 | 0.82 |   |
| DY |           |       | 0.075 fti | 89 | 1.0 | 1.52  |      |   |
| DZ |           |       | 0.075 fti | 89 | 1.0 | -0.37 |      |   |
| DX | BIRCH RUN | NVA12 | 0.075 fti | 89 | 1.0 | 0.01  | 0.59 |   |
| DY |           |       | 0.075 fti | 89 | 1.0 | 1.17  |      |   |
| DZ |           |       | 0.075 fti | 89 | 1.0 | -0.63 |      |   |
| DX | BIRCH RUN | NVA12 | 0.075 fti | 89 | 1.0 | -0.23 | 0.40 |   |
| DY |           |       | 0.075 fti | 89 | 1.0 | 0.91  |      |   |
| DZ |           |       | 0.075 fti | 89 | 1.0 | -0.56 |      |   |
| DX | BIRCH RUN | NVA12 | 0.075 fti | 89 | 1.0 | -0.46 | 0.72 |   |
| DY |           |       | 0.075 fti | 89 | 1.0 | 1.08  |      |   |
| DZ |           |       | 0.075 fti | 89 | 1.0 | -0.88 |      |   |
| DX | HEMLOCK   | VVA24 | 0.074 fti | 86 | 1.1 | -0.30 | 0.08 |   |
| DY |           |       | 0.074 fti | 86 | 1.1 | 0.00  |      |   |
| DZ |           |       | 0.074 fti | 86 | 1.1 | 0.39  |      |   |
| DX | HEMLOCK   | VVA24 | 0.074 fti | 86 | 1.1 | -0.33 | 0.13 |   |
| DY |           |       | 0.074 fti | 86 | 1.1 | 0.23  |      |   |
| DZ |           |       | 0.074 fti | 86 | 1.1 | 0.47  |      |   |
| DX | HEMLOCK   | VVA24 | 0.074 fti | 86 | 1.1 | -0.36 | 0.48 |   |
| DY |           |       | 0.074 fti | 86 | 1.1 | 0.11  |      |   |
| DZ |           |       | 0.074 fti | 86 | 1.1 | -1.14 |      |   |
| DX | HEMLOCK   | VVA24 | 0.074 fti | 86 | 1.1 | -0.05 | 0.46 |   |
| DY |           |       | 0.074 fti | 86 | 1.1 | 0.11  |      |   |
| DZ |           |       | 0.074 fti | 86 | 1.1 | -1.17 |      |   |
| DX | HEMLOCK   | NVA8  | 0.054 fti | 79 | 1.4 | 0.34  | 0.56 |   |
| DY |           |       | 0.054 fti | 79 | 1.4 | 0.22  |      |   |
| DZ |           |       | 0.054 fti | 79 | 1.4 | 1.23  |      |   |
| DX | HEMLOCK   | NVA8  | 0.054 fti | 79 | 1.4 | 0.80  | 0.82 |   |
| DY |           |       | 0.054 fti | 79 | 1.4 | 0.25  |      |   |
| DZ |           |       | 0.054 fti | 79 | 1.4 | 1.33  |      |   |
| DX | HEMLOCK   | NVA8  | 0.054 fti | 79 | 1.4 | 0.33  | 0.59 |   |
| DY |           |       | 0.054 fti | 79 | 1.4 | -1.26 |      |   |
| DZ |           |       | 0.054 fti | 79 | 1.4 | -0.28 |      |   |
| DX | HEMLOCK   | NVA8  | 0.054 fti | 79 | 1.4 | -0.66 | 0.61 |   |
| DY |           |       | 0.054 fti | 79 | 1.4 | -1.10 |      |   |
| DZ |           |       | 0.054 fti | 79 | 1.4 | -0.45 |      |   |
| DX | HEMLOCK   | NVA7  | 0.029 fti | 76 | 1.5 | -0.80 | 3.16 | ⚠ |
| DY |           |       | 0.029 fti | 76 | 1.5 | 2.58  | ⚠    |   |
| DZ |           |       | 0.029 fti | 76 | 1.5 | 1.49  |      |   |
| DX | HEMLOCK   | NVA7  | 0.029 fti | 76 | 1.5 | -0.89 | 2.13 | ⚠ |
| DY |           |       | 0.029 fti | 76 | 1.5 | 1.19  |      |   |
| DZ |           |       | 0.029 fti | 76 | 1.5 | 2.05  | ⚠    |   |
| DX | HEMLOCK   | NVA7  | 0.029 fti | 76 | 1.5 | 1.00  | 2.91 | ⚠ |
| DY |           |       | 0.029 fti | 76 | 1.5 | -2.50 | ⚠    |   |
| DZ |           |       | 0.029 fti | 76 | 1.5 | -1.22 |      |   |
| DX | HEMLOCK   | NVA7  | 0.029 fti | 76 | 1.5 | 0.40  | 1.67 |   |
| DY |           |       | 0.029 fti | 76 | 1.5 | -1.44 |      |   |
| DZ |           |       | 0.029 fti | 76 | 1.5 | -1.67 |      |   |
| DX | HEMLOCK   | NVA4  | 0.075 fti | 88 | 1.0 | -0.02 | 0.25 |   |
| DY |           |       | 0.075 fti | 88 | 1.0 | 0.09  |      |   |

|    |         |       |           |    |     |       |      |
|----|---------|-------|-----------|----|-----|-------|------|
| DZ |         |       | 0.075 fti | 88 | 1.0 | 0.85  |      |
| DX | HEMLOCK | NVA4  | 0.075 fti | 88 | 1.0 | -0.21 | 0.21 |
| DY |         |       | 0.075 fti | 88 | 1.0 | 0.41  |      |
| DZ |         |       | 0.075 fti | 88 | 1.0 | 0.64  |      |
| DX | HEMLOCK | NVA4  | 0.075 fti | 88 | 1.0 | 0.15  | 0.10 |
| DY |         |       | 0.075 fti | 88 | 1.0 | -0.28 |      |
| DZ |         |       | 0.075 fti | 88 | 1.0 | -0.45 |      |
| DX | HEMLOCK | NVA4  | 0.075 fti | 88 | 1.0 | 0.28  | 0.08 |
| DY |         |       | 0.075 fti | 88 | 1.0 | -0.31 |      |
| DZ |         |       | 0.075 fti | 88 | 1.0 | -0.26 |      |
| DX | HEMLOCK | NVA39 | 0.042 fti | 79 | 1.4 | -1.02 | 0.90 |
| DY |         |       | 0.042 fti | 79 | 1.4 | 0.73  |      |
| DZ |         |       | 0.042 fti | 79 | 1.4 | 1.06  |      |
| DX | HEMLOCK | NVA39 | 0.042 fti | 79 | 1.4 | -0.24 | 1.31 |
| DY |         |       | 0.042 fti | 79 | 1.4 | 0.89  |      |
| DZ |         |       | 0.042 fti | 79 | 1.4 | 1.75  |      |
| DX | HEMLOCK | NVA39 | 0.042 fti | 79 | 1.4 | 1.07  | 0.97 |
| DY |         |       | 0.042 fti | 79 | 1.4 | -1.27 |      |
| DZ |         |       | 0.042 fti | 79 | 1.4 | -0.39 |      |
| DX | HEMLOCK | NVA39 | 0.042 fti | 79 | 1.4 | 0.92  | 0.80 |
| DY |         |       | 0.042 fti | 79 | 1.4 | -0.90 |      |
| DZ |         |       | 0.042 fti | 79 | 1.4 | -0.85 |      |
| DX | HEMLOCK | NVA30 | 0.048 fti | 79 | 1.4 | -0.57 | 1.35 |
| DY |         |       | 0.048 fti | 79 | 1.4 | -0.08 |      |
| DZ |         |       | 0.048 fti | 79 | 1.4 | 1.93  |      |
| DX | HEMLOCK | NVA30 | 0.048 fti | 79 | 1.4 | -0.37 | 2.27 |
| DY |         |       | 0.048 fti | 79 | 1.4 | -0.29 |      |
| DZ |         |       | 0.048 fti | 79 | 1.4 | 2.57  |      |
| DX | HEMLOCK | NVA30 | 0.048 fti | 79 | 1.4 | 0.94  | 0.86 |
| DY |         |       | 0.048 fti | 79 | 1.4 | -1.14 |      |
| DZ |         |       | 0.048 fti | 79 | 1.4 | -0.63 |      |
| DX | HEMLOCK | NVA30 | 0.048 fti | 79 | 1.4 | 0.35  | 0.52 |
| DY |         |       | 0.048 fti | 79 | 1.4 | -0.19 |      |
| DZ |         |       | 0.048 fti | 79 | 1.4 | -1.18 |      |
| DX | HEMLOCK | NVA19 | 0.062 fti | 83 | 1.2 | -0.18 | 0.03 |
| DY |         |       | 0.062 fti | 83 | 1.2 | -0.25 |      |
| DZ |         |       | 0.062 fti | 83 | 1.2 | 0.02  |      |
| DX | HEMLOCK | NVA19 | 0.062 fti | 83 | 1.2 | -0.50 | 0.30 |
| DY |         |       | 0.062 fti | 83 | 1.2 | -0.80 |      |
| DZ |         |       | 0.062 fti | 83 | 1.2 | -0.01 |      |
| DX | HEMLOCK | NVA19 | 0.062 fti | 83 | 1.2 | -0.38 | 0.30 |
| DY |         |       | 0.062 fti | 83 | 1.2 | -0.41 |      |
| DZ |         |       | 0.062 fti | 83 | 1.2 | 0.76  |      |
| DX | HEMLOCK | NVA19 | 0.062 fti | 83 | 1.2 | 0.13  | 0.05 |
| DY |         |       | 0.062 fti | 83 | 1.2 | 0.10  |      |
| DZ |         |       | 0.062 fti | 83 | 1.2 | 0.35  |      |
| DX | HEMLOCK | NVA14 | 0.055 fti | 81 | 1.3 | 0.51  | 0.34 |
| DY |         |       | 0.055 fti | 81 | 1.3 | -0.37 |      |
| DZ |         |       | 0.055 fti | 81 | 1.3 | -0.79 |      |
| DX | HEMLOCK | NVA14 | 0.055 fti | 81 | 1.3 | 0.20  | 0.20 |
| DY |         |       | 0.055 fti | 81 | 1.3 | -0.34 |      |
| DZ |         |       | 0.055 fti | 81 | 1.3 | -0.68 |      |
| DX | HEMLOCK | NVA14 | 0.055 fti | 81 | 1.3 | -0.48 | 0.70 |
| DY |         |       | 0.055 fti | 81 | 1.3 | 0.85  |      |
| DZ |         |       | 0.055 fti | 81 | 1.3 | 1.07  |      |
| DX | HEMLOCK | NVA14 | 0.055 fti | 81 | 1.3 | -0.05 | 0.39 |
| DY |         |       | 0.055 fti | 81 | 1.3 | 0.25  |      |
| DZ |         |       | 0.055 fti | 81 | 1.3 | 1.06  |      |
| DX | MIBY    | NVA25 | 0.070 fti | 90 | 0.9 | 0.20  | 0.38 |
| DY |         |       | 0.070 fti | 90 | 0.9 | 0.93  |      |
| DZ |         |       | 0.070 fti | 90 | 0.9 | -0.50 |      |
| DX | MIBY    | NVA25 | 0.070 fti | 90 | 0.9 | 0.12  | 0.11 |
| DY |         |       | 0.070 fti | 90 | 0.9 | 0.54  |      |
| DZ |         |       | 0.070 fti | 90 | 0.9 | -0.17 |      |

|    |      |       |           |    |     |       |      |
|----|------|-------|-----------|----|-----|-------|------|
| DX | MIBY | NVA25 | 0.070 fti | 90 | 0.9 | -0.12 | 0.10 |
| DY |      |       | 0.070 fti | 90 | 0.9 | 0.46  |      |
| DZ |      |       | 0.070 fti | 90 | 0.9 | -0.28 |      |
| DX | MIBY | NVA25 | 0.070 fti | 90 | 0.9 | 0.17  | 0.06 |
| DY |      |       | 0.070 fti | 90 | 0.9 | 0.28  |      |
| DZ |      |       | 0.070 fti | 90 | 0.9 | -0.28 |      |
| DX | BAYR | NVA9  | 0.098 fti | 90 | 0.9 | -0.35 | 0.19 |
| DY |      |       | 0.098 fti | 90 | 0.9 | -0.04 |      |
| DZ |      |       | 0.098 fti | 90 | 0.9 | -0.66 |      |
| DX | BAYR | NVA9  | 0.098 fti | 90 | 0.9 | -0.35 | 0.18 |
| DY |      |       | 0.098 fti | 90 | 0.9 | -0.49 |      |
| DZ |      |       | 0.098 fti | 90 | 0.9 | -0.41 |      |
| DX | BAYR | NVA9  | 0.098 fti | 90 | 0.9 | 1.13  | 0.56 |
| DY |      |       | 0.098 fti | 90 | 0.9 | -0.31 |      |
| DZ |      |       | 0.098 fti | 90 | 0.9 | -0.56 |      |
| DX | BAYR | NVA9  | 0.098 fti | 90 | 0.9 | 1.26  | 0.61 |
| DY |      |       | 0.098 fti | 90 | 0.9 | -0.49 |      |
| DZ |      |       | 0.098 fti | 90 | 0.9 | 0.12  |      |
| DX | BAYR | NVA6  | 0.088 fti | 89 | 0.9 | 0.00  | 0.20 |
| DY |      |       | 0.088 fti | 89 | 0.9 | -0.60 |      |
| DZ |      |       | 0.088 fti | 89 | 0.9 | 0.49  |      |
| DX | BAYR | NVA6  | 0.088 fti | 89 | 0.9 | 0.46  | 1.00 |
| DY |      |       | 0.088 fti | 89 | 0.9 | -1.37 |      |
| DZ |      |       | 0.088 fti | 89 | 0.9 | 0.95  |      |
| DX | BAYR | NVA6  | 0.088 fti | 89 | 0.9 | -0.24 | 0.24 |
| DY |      |       | 0.088 fti | 89 | 0.9 | -0.60 |      |
| DZ |      |       | 0.088 fti | 89 | 0.9 | 0.56  |      |
| DX | BAYR | NVA6  | 0.088 fti | 89 | 0.9 | -0.15 | 0.48 |
| DY |      |       | 0.088 fti | 89 | 0.9 | -0.96 |      |
| DZ |      |       | 0.088 fti | 89 | 0.9 | 0.72  |      |
| DX | BAYR | NVA38 | 0.069 fti | 81 | 1.3 | -0.05 | 0.23 |
| DY |      |       | 0.069 fti | 81 | 1.3 | -0.57 |      |
| DZ |      |       | 0.069 fti | 81 | 1.3 | -0.61 |      |
| DX | BAYR | NVA38 | 0.069 fti | 81 | 1.3 | 0.11  | 0.39 |
| DY |      |       | 0.069 fti | 81 | 1.3 | -1.08 |      |
| DZ |      |       | 0.069 fti | 81 | 1.3 | 0.00  |      |
| DX | BAYR | NVA38 | 0.069 fti | 81 | 1.3 | -0.15 | 0.41 |
| DY |      |       | 0.069 fti | 81 | 1.3 | -0.68 |      |
| DZ |      |       | 0.069 fti | 81 | 1.3 | -0.86 |      |
| DX | BAYR | NVA38 | 0.069 fti | 81 | 1.3 | -0.08 | 0.08 |
| DY |      |       | 0.069 fti | 81 | 1.3 | 0.27  |      |
| DZ |      |       | 0.069 fti | 81 | 1.3 | -0.42 |      |
| DX | BAYR | NVA36 | 0.084 fti | 84 | 1.2 | 0.07  | 0.21 |
| DY |      |       | 0.084 fti | 84 | 1.2 | 0.78  |      |
| DZ |      |       | 0.084 fti | 84 | 1.2 | 0.14  |      |
| DX | BAYR | NVA36 | 0.084 fti | 84 | 1.2 | -0.06 | 0.19 |
| DY |      |       | 0.084 fti | 84 | 1.2 | 0.41  |      |
| DZ |      |       | 0.084 fti | 84 | 1.2 | 0.62  |      |
| DX | BAYR | NVA36 | 0.084 fti | 84 | 1.2 | 0.06  | 0.02 |
| DY |      |       | 0.084 fti | 84 | 1.2 | 0.01  |      |
| DZ |      |       | 0.084 fti | 84 | 1.2 | 0.24  |      |
| DX | BAYR | NVA36 | 0.084 fti | 84 | 1.2 | 0.20  | 0.15 |
| DY |      |       | 0.084 fti | 84 | 1.2 | 0.06  |      |
| DZ |      |       | 0.084 fti | 84 | 1.2 | 0.63  |      |
| DX | BAYR | NVA25 | 0.058 fti | 84 | 1.2 | 0.64  | 0.18 |
| DY |      |       | 0.058 fti | 84 | 1.2 | 0.17  |      |
| DZ |      |       | 0.058 fti | 84 | 1.2 | -0.31 |      |
| DX | BAYR | NVA25 | 0.058 fti | 84 | 1.2 | 0.62  | 0.24 |
| DY |      |       | 0.058 fti | 84 | 1.2 | -0.09 |      |
| DZ |      |       | 0.058 fti | 84 | 1.2 | 0.58  |      |
| DX | BAYR | NVA25 | 0.058 fti | 84 | 1.2 | -0.66 | 0.49 |
| DY |      |       | 0.058 fti | 84 | 1.2 | -0.93 |      |
| DZ |      |       | 0.058 fti | 84 | 1.2 | 0.39  |      |
| DX | BAYR | NVA25 | 0.058 fti | 84 | 1.2 | -0.91 | 0.65 |
| DY |      |       | 0.058 fti | 84 | 1.2 | -0.99 |      |



|           |         |       |           |    |     |       |      |
|-----------|---------|-------|-----------|----|-----|-------|------|
|           |         |       | 0.058 fti | 84 | 1.2 | 0.37  |      |
| <b>DX</b> | BAYR    | NVA22 | 0.060 fti | 86 | 1.1 | -0.38 | 0.08 |
| <b>DY</b> |         |       | 0.060 fti | 86 | 1.1 | -0.27 |      |
| <b>DZ</b> |         |       | 0.060 fti | 86 | 1.1 | -0.19 |      |
| <b>DX</b> | BAYR    | NVA22 | 0.060 fti | 86 | 1.1 | -0.40 | 0.10 |
| <b>DY</b> |         |       | 0.060 fti | 86 | 1.1 | 0.21  |      |
| <b>DZ</b> |         |       | 0.060 fti | 86 | 1.1 | -0.29 |      |
| <b>DX</b> | BAYR    | NVA22 | 0.060 fti | 86 | 1.1 | -0.26 | 0.13 |
| <b>DY</b> |         |       | 0.060 fti | 86 | 1.1 | 0.13  |      |
| <b>DZ</b> |         |       | 0.060 fti | 86 | 1.1 | -0.56 |      |
| <b>DX</b> | BAYR    | NVA22 | 0.060 fti | 86 | 1.1 | -0.34 | 0.27 |
| <b>DY</b> |         |       | 0.060 fti | 86 | 1.1 | 0.09  |      |
| <b>DZ</b> |         |       | 0.060 fti | 86 | 1.1 | -0.83 |      |
| <b>DX</b> | BAYR    | NVA10 | 0.082 fti | 84 | 1.2 | 0.08  | 0.08 |
| <b>DY</b> |         |       | 0.082 fti | 84 | 1.2 | 0.30  |      |
| <b>DZ</b> |         |       | 0.082 fti | 84 | 1.2 | 0.37  |      |
| <b>DX</b> | BAYR    | NVA10 | 0.082 fti | 84 | 1.2 | 0.00  | 0.24 |
| <b>DY</b> |         |       | 0.082 fti | 84 | 1.2 | 0.46  |      |
| <b>DZ</b> |         |       | 0.082 fti | 84 | 1.2 | 0.71  |      |
| <b>DX</b> | BAYR    | NVA10 | 0.082 fti | 84 | 1.2 | 0.03  | 0.03 |
| <b>DY</b> |         |       | 0.082 fti | 84 | 1.2 | 0.24  |      |
| <b>DZ</b> |         |       | 0.082 fti | 84 | 1.2 | -0.14 |      |
| <b>DX</b> | BAYR    | NVA10 | 0.082 fti | 84 | 1.2 | -0.17 | 0.06 |
| <b>DY</b> |         |       | 0.082 fti | 84 | 1.2 | 0.22  |      |
| <b>DZ</b> |         |       | 0.082 fti | 84 | 1.2 | -0.30 |      |
| <b>DX</b> | MIDLAND | NVA9  | 0.077 fti | 84 | 1.2 | -0.81 | 0.26 |
| <b>DY</b> |         |       | 0.077 fti | 84 | 1.2 | 0.30  |      |
| <b>DZ</b> |         |       | 0.077 fti | 84 | 1.2 | 0.17  |      |
| <b>DX</b> | MIDLAND | NVA9  | 0.077 fti | 84 | 1.2 | -0.70 | 0.26 |
| <b>DY</b> |         |       | 0.077 fti | 84 | 1.2 | 0.55  |      |
| <b>DZ</b> |         |       | 0.077 fti | 84 | 1.2 | -0.02 |      |
| <b>DX</b> | MIDLAND | NVA9  | 0.077 fti | 84 | 1.2 | -0.03 | 0.19 |
| <b>DY</b> |         |       | 0.077 fti | 84 | 1.2 | 0.30  |      |
| <b>DZ</b> |         |       | 0.077 fti | 84 | 1.2 | 0.69  |      |
| <b>DX</b> | MIDLAND | NVA9  | 0.077 fti | 84 | 1.2 | 0.22  | 0.06 |
| <b>DY</b> |         |       | 0.077 fti | 84 | 1.2 | -0.10 |      |
| <b>DZ</b> |         |       | 0.077 fti | 84 | 1.2 | 0.35  |      |
| <b>DX</b> | MIDLAND | NVA8  | 0.107 fti | 95 | 0.6 | 0.02  | 0.81 |
| <b>DY</b> |         |       | 0.107 fti | 95 | 0.6 | 1.41  |      |
| <b>DZ</b> |         |       | 0.107 fti | 95 | 0.6 | -0.66 |      |
| <b>DX</b> | MIDLAND | NVA8  | 0.107 fti | 95 | 0.6 | -0.09 | 0.71 |
| <b>DY</b> |         |       | 0.107 fti | 95 | 0.6 | 1.31  |      |
| <b>DZ</b> |         |       | 0.107 fti | 95 | 0.6 | -0.64 |      |
| <b>DX</b> | MIDLAND | NVA8  | 0.107 fti | 95 | 0.6 | -0.81 | 0.58 |
| <b>DY</b> |         |       | 0.107 fti | 95 | 0.6 | 0.25  |      |
| <b>DZ</b> |         |       | 0.107 fti | 95 | 0.6 | -1.01 |      |
| <b>DX</b> | MIDLAND | NVA8  | 0.107 fti | 95 | 0.6 | -0.74 | 0.98 |
| <b>DY</b> |         |       | 0.107 fti | 95 | 0.6 | 0.79  |      |
| <b>DZ</b> |         |       | 0.107 fti | 95 | 0.6 | -1.32 |      |
| <b>DX</b> | MIDLAND | NVA7  | 0.101 fti | 98 | 0.4 | 0.15  | 0.01 |
| <b>DY</b> |         |       | 0.101 fti | 98 | 0.4 | 0.13  |      |
| <b>DZ</b> |         |       | 0.101 fti | 98 | 0.4 | 0.00  |      |
| <b>DX</b> | MIDLAND | NVA7  | 0.101 fti | 98 | 0.4 | 0.07  | 0.04 |
| <b>DY</b> |         |       | 0.101 fti | 98 | 0.4 | 0.30  |      |
| <b>DZ</b> |         |       | 0.101 fti | 98 | 0.4 | -0.18 |      |
| <b>DX</b> | MIDLAND | NVA7  | 0.101 fti | 98 | 0.4 | 0.33  | 0.30 |
| <b>DY</b> |         |       | 0.101 fti | 98 | 0.4 | -0.13 |      |
| <b>DZ</b> |         |       | 0.101 fti | 98 | 0.4 | -0.88 |      |
| <b>DX</b> | MIDLAND | NVA7  | 0.101 fti | 98 | 0.4 | 0.45  | 0.58 |
| <b>DY</b> |         |       | 0.101 fti | 98 | 0.4 | 0.31  |      |
| <b>DZ</b> |         |       | 0.101 fti | 98 | 0.4 | -1.21 |      |
| <b>DX</b> | MIDLAND | NVA30 | 0.097 fti | 95 | 0.6 | -0.17 | 1.48 |
| <b>DY</b> |         |       | 0.097 fti | 95 | 0.6 | 1.74  |      |
| <b>DZ</b> |         |       | 0.097 fti | 95 | 0.6 | -1.17 |      |
| <b>DX</b> | MIDLAND | NVA30 | 0.097 fti | 95 | 0.6 | 0.07  | 1.66 |

|    |         |       |           |    |     |       |      |
|----|---------|-------|-----------|----|-----|-------|------|
|    |         |       | 0.097 fti | 95 | 0.6 | 1.77  |      |
| DZ |         |       | 0.097 fti | 95 | 0.6 | -1.37 |      |
| DX | MIDLAND | NVA30 | 0.097 fti | 95 | 0.6 | -0.32 | 0.78 |
| DY |         |       | 0.097 fti | 95 | 0.6 | 0.03  |      |
| DZ |         |       | 0.097 fti | 95 | 0.6 | -1.49 |      |
| DX | MIDLAND | NVA30 | 0.097 fti | 95 | 0.6 | -0.29 | 0.72 |
| DY |         |       | 0.097 fti | 95 | 0.6 | -0.07 |      |
| DZ |         |       | 0.097 fti | 95 | 0.6 | -1.44 |      |
| DX | MIDLAND | NVA19 | 0.082 fti | 91 | 0.9 | -0.03 | 0.10 |
| DY |         |       | 0.082 fti | 91 | 0.9 | 0.40  |      |
| DZ |         |       | 0.082 fti | 91 | 0.9 | -0.38 |      |
| DX | MIDLAND | NVA19 | 0.082 fti | 91 | 0.9 | 0.03  | 0.11 |
| DY |         |       | 0.082 fti | 91 | 0.9 | 0.30  |      |
| DZ |         |       | 0.082 fti | 91 | 0.9 | -0.50 |      |
| DX | MIDLAND | NVA19 | 0.082 fti | 91 | 0.9 | 0.64  | 0.26 |
| DY |         |       | 0.082 fti | 91 | 0.9 | 0.54  |      |
| DZ |         |       | 0.082 fti | 91 | 0.9 | -0.32 |      |
| DX | MIDLAND | NVA19 | 0.082 fti | 91 | 0.9 | 0.60  | 0.26 |
| DY |         |       | 0.082 fti | 91 | 0.9 | 0.58  |      |
| DZ |         |       | 0.082 fti | 91 | 0.9 | -0.28 |      |
| DX | MIDLAND | NVA14 | 0.087 fti | 93 | 0.7 | -0.47 | 0.10 |
| DY |         |       | 0.087 fti | 93 | 0.7 | 0.19  |      |
| DZ |         |       | 0.087 fti | 93 | 0.7 | -0.20 |      |
| DX | MIDLAND | NVA14 | 0.087 fti | 93 | 0.7 | -0.14 | 0.03 |
| DY |         |       | 0.087 fti | 93 | 0.7 | 0.11  |      |
| DZ |         |       | 0.087 fti | 93 | 0.7 | -0.23 |      |
| DX | MIDLAND | NVA14 | 0.087 fti | 93 | 0.7 | 0.18  | 0.04 |
| DY |         |       | 0.087 fti | 93 | 0.7 | -0.29 |      |
| DZ |         |       | 0.087 fti | 93 | 0.7 | -0.07 |      |
| DX | MIDLAND | NVA14 | 0.087 fti | 93 | 0.7 | 0.15  | 0.23 |
| DY |         |       | 0.087 fti | 93 | 0.7 | -0.62 |      |
| DZ |         |       | 0.087 fti | 93 | 0.7 | -0.53 |      |
| DX | VASSAR  | NVA38 | 0.083 fti | 84 | 1.2 | -0.57 | 0.19 |
| DY |         |       | 0.083 fti | 84 | 1.2 | 0.47  |      |
| DZ |         |       | 0.083 fti | 84 | 1.2 | 0.08  |      |
| DX | VASSAR  | NVA38 | 0.083 fti | 84 | 1.2 | 0.09  | 0.29 |
| DY |         |       | 0.083 fti | 84 | 1.2 | 0.48  |      |
| DZ |         |       | 0.083 fti | 84 | 1.2 | 0.78  |      |
| DX | VASSAR  | NVA38 | 0.083 fti | 84 | 1.2 | 0.38  | 0.43 |
| DY |         |       | 0.083 fti | 84 | 1.2 | 0.60  |      |
| DZ |         |       | 0.083 fti | 84 | 1.2 | 0.89  |      |
| DX | VASSAR  | NVA38 | 0.083 fti | 84 | 1.2 | 0.31  | 0.39 |
| DY |         |       | 0.083 fti | 84 | 1.2 | 0.91  |      |
| DZ |         |       | 0.083 fti | 84 | 1.2 | 0.50  |      |
| DX | VASSAR  | NVA36 | 0.079 fti | 83 | 1.3 | 0.37  | 0.23 |
| DY |         |       | 0.079 fti | 83 | 1.3 | -0.74 |      |
| DZ |         |       | 0.079 fti | 83 | 1.3 | -0.10 |      |
| DX | VASSAR  | NVA36 | 0.079 fti | 83 | 1.3 | -0.03 | 0.09 |
| DY |         |       | 0.079 fti | 83 | 1.3 | -0.52 |      |
| DZ |         |       | 0.079 fti | 83 | 1.3 | -0.06 |      |
| DX | VASSAR  | NVA36 | 0.079 fti | 83 | 1.3 | -0.37 | 0.18 |
| DY |         |       | 0.079 fti | 83 | 1.3 | 0.01  |      |
| DZ |         |       | 0.079 fti | 83 | 1.3 | -0.65 |      |
| DX | VASSAR  | NVA36 | 0.079 fti | 83 | 1.3 | -0.24 | 0.19 |
| DY |         |       | 0.079 fti | 83 | 1.3 | 0.07  |      |
| DZ |         |       | 0.079 fti | 83 | 1.3 | -0.72 |      |
| DX | VASSAR  | NVA10 | 0.071 fti | 81 | 1.3 | 0.09  | 0.28 |
| DY |         |       | 0.071 fti | 81 | 1.3 | -0.87 |      |
| DZ |         |       | 0.071 fti | 81 | 1.3 | 0.25  |      |
| DX | VASSAR  | NVA10 | 0.071 fti | 81 | 1.3 | -0.13 | 0.13 |
| DY |         |       | 0.071 fti | 81 | 1.3 | -0.62 |      |
| DZ |         |       | 0.071 fti | 81 | 1.3 | 0.01  |      |
| DX | VASSAR  | NVA10 | 0.071 fti | 81 | 1.3 | 0.11  | 0.04 |
| DY |         |       | 0.071 fti | 81 | 1.3 | 0.07  |      |
| DZ |         |       | 0.071 fti | 81 | 1.3 | -0.33 |      |

|    |           |       |           |    |     |       |      |
|----|-----------|-------|-----------|----|-----|-------|------|
|    | VASSAR    | NVA10 | 0.071 fti | 81 | 1.3 | -0.01 | 0.13 |
| DY |           |       | 0.071 fti | 81 | 1.3 | 0.37  |      |
| DZ |           |       | 0.071 fti | 81 | 1.3 | -0.50 |      |
| DX | MIDLAND   | NVA39 | 0.088 fti | 96 | 0.6 | -0.50 | 0.21 |
| DY |           |       | 0.088 fti | 96 | 0.6 | 0.35  |      |
| DZ |           |       | 0.088 fti | 96 | 0.6 | -0.50 |      |
| DX | MIDLAND   | NVA39 | 0.088 fti | 96 | 0.6 | -0.68 | 0.55 |
| DY |           |       | 0.088 fti | 96 | 0.6 | 0.74  |      |
| DZ |           |       | 0.088 fti | 96 | 0.6 | -0.81 |      |
| DX | MIDLAND   | NVA39 | 0.088 fti | 96 | 0.6 | -1.05 | 0.61 |
| DY |           |       | 0.088 fti | 96 | 0.6 | 0.65  |      |
| DZ |           |       | 0.088 fti | 96 | 0.6 | -0.54 |      |
| DX | MIDLAND   | NVA39 | 0.088 fti | 96 | 0.6 | 0.48  | 0.22 |
| DY |           |       | 0.088 fti | 96 | 0.6 | -0.07 |      |
| DZ |           |       | 0.088 fti | 96 | 0.6 | -0.65 |      |
| DX | MIDLAND   | NVA39 | 0.088 fti | 96 | 0.6 | 0.21  | 0.32 |
| DY |           |       | 0.088 fti | 96 | 0.6 | -0.53 |      |
| DZ |           |       | 0.088 fti | 96 | 0.6 | -0.80 |      |
| DX | HEMLOCK   | VVA15 | 0.053 fti | 85 | 1.1 | -0.05 | 0.61 |
| DY |           |       | 0.053 fti | 85 | 1.1 | -0.91 |      |
| DZ |           |       | 0.053 fti | 85 | 1.1 | 1.00  |      |
| DX | HEMLOCK   | VVA15 | 0.053 fti | 85 | 1.1 | -0.41 | 0.20 |
| DY |           |       | 0.053 fti | 85 | 1.1 | -0.26 |      |
| DZ |           |       | 0.053 fti | 85 | 1.1 | 0.60  |      |
| DX | HEMLOCK   | VVA15 | 0.053 fti | 85 | 1.1 | 0.45  | 0.35 |
| DY |           |       | 0.053 fti | 85 | 1.1 | -0.72 |      |
| DZ |           |       | 0.053 fti | 85 | 1.1 | -0.57 |      |
| DX | HEMLOCK   | VVA15 | 0.053 fti | 85 | 1.1 | 0.66  | 0.53 |
| DY |           |       | 0.053 fti | 85 | 1.1 | -0.63 |      |
| DZ |           |       | 0.053 fti | 85 | 1.1 | -0.87 |      |
| DX | HEMLOCK   | VVA15 | 0.053 fti | 85 | 1.1 | -0.27 | 0.35 |
| DY |           |       | 0.053 fti | 85 | 1.1 | 0.92  |      |
| DZ |           |       | 0.053 fti | 85 | 1.1 | 0.38  |      |
| DX | HEMLOCK   | VVA15 | 0.053 fti | 85 | 1.1 | -0.65 | 0.95 |
| DY |           |       | 0.053 fti | 85 | 1.1 | 1.56  |      |
| DZ |           |       | 0.053 fti | 85 | 1.1 | 0.02  |      |
| DX | HEMLOCK   | VVA15 | 0.053 fti | 85 | 1.1 | 0.27  | 0.13 |
| DY |           |       | 0.053 fti | 85 | 1.1 | 0.05  |      |
| DZ |           |       | 0.053 fti | 85 | 1.1 | -0.57 |      |
| DX | CHESANING | VVA30 | 0.052 fti | 87 | 1.1 | 0.25  | 0.17 |
| DY |           |       | 0.052 fti | 87 | 1.1 | -0.66 |      |
| DZ |           |       | 0.052 fti | 87 | 1.1 | 0.15  |      |
| DX | CHESANING | VVA30 | 0.052 fti | 87 | 1.1 | -0.07 | 0.11 |
| DY |           |       | 0.052 fti | 87 | 1.1 | -0.13 |      |
| DZ |           |       | 0.052 fti | 87 | 1.1 | -0.55 |      |
| DX | CHESANING | VVA30 | 0.052 fti | 87 | 1.1 | -1.01 | 1.48 |
| DY |           |       | 0.052 fti | 87 | 1.1 | 1.49  |      |
| DZ |           |       | 0.052 fti | 87 | 1.1 | -1.10 |      |
| DX | CHESANING | VVA30 | 0.052 fti | 87 | 1.1 | -1.10 | 1.64 |
| DY |           |       | 0.052 fti | 87 | 1.1 | 1.13  |      |
| DZ |           |       | 0.052 fti | 87 | 1.1 | -1.55 |      |
| DX | CHESANING | VVA30 | 0.052 fti | 87 | 1.1 | -0.06 | 0.28 |
| DY |           |       | 0.052 fti | 87 | 1.1 | -0.06 |      |
| DZ |           |       | 0.052 fti | 87 | 1.1 | 0.91  |      |
| DX | CHESANING | VVA30 | 0.052 fti | 87 | 1.1 | 0.30  | 0.49 |
| DY |           |       | 0.052 fti | 87 | 1.1 | -0.61 |      |
| DZ |           |       | 0.052 fti | 87 | 1.1 | 1.00  |      |
| DX | CHESANING | VVA30 | 0.052 fti | 87 | 1.1 | 1.00  | 0.76 |
| DY |           |       | 0.052 fti | 87 | 1.1 | -0.85 |      |
| DZ |           |       | 0.052 fti | 87 | 1.1 | 0.75  |      |
| DX | CHESANING | VVA30 | 0.052 fti | 87 | 1.1 | 0.69  | 0.24 |
| DY |           |       | 0.052 fti | 87 | 1.1 | -0.31 |      |
| DZ |           |       | 0.052 fti | 87 | 1.1 | 0.39  |      |
| DX | CHESANING | VVA27 | 0.054 fti | 87 | 1.1 | -0.71 | 0.36 |
| DY |           |       | 0.054 fti | 87 | 1.1 | 0.28  |      |

|           |           |       |           |    |     |       |      |
|-----------|-----------|-------|-----------|----|-----|-------|------|
|           |           |       | 0.054 fti | 87 | 1.1 | -0.72 |      |
| <b>DX</b> | CHESANING | VVA27 | 0.054 fti | 87 | 1.1 | 0.06  | 0.39 |
| <b>DY</b> |           |       | 0.054 fti | 87 | 1.1 | -1.07 |      |
| <b>DZ</b> |           |       | 0.054 fti | 87 | 1.1 | 0.17  |      |
| <b>DX</b> | CHESANING | VVA27 | 0.054 fti | 87 | 1.1 | 0.70  | 0.27 |
| <b>DY</b> |           |       | 0.054 fti | 87 | 1.1 | -0.53 |      |
| <b>DZ</b> |           |       | 0.054 fti | 87 | 1.1 | 0.18  |      |
| <b>DX</b> | CHESANING | VVA27 | 0.054 fti | 87 | 1.1 | 0.76  | 0.30 |
| <b>DY</b> |           |       | 0.054 fti | 87 | 1.1 | -0.01 |      |
| <b>DZ</b> |           |       | 0.054 fti | 87 | 1.1 | 0.58  |      |
| <b>DX</b> | CHESANING | VVA27 | 0.054 fti | 87 | 1.1 | -0.30 | 0.53 |
| <b>DY</b> |           |       | 0.054 fti | 87 | 1.1 | 0.55  |      |
| <b>DZ</b> |           |       | 0.054 fti | 87 | 1.1 | -1.10 |      |
| <b>DX</b> | CHESANING | VVA27 | 0.054 fti | 87 | 1.1 | -0.37 | 0.07 |
| <b>DY</b> |           |       | 0.054 fti | 87 | 1.1 | 0.18  |      |
| <b>DZ</b> |           |       | 0.054 fti | 87 | 1.1 | -0.17 |      |
| <b>DX</b> | CHESANING | VVA27 | 0.054 fti | 87 | 1.1 | -0.20 | 0.04 |
| <b>DY</b> |           |       | 0.054 fti | 87 | 1.1 | 0.12  |      |
| <b>DZ</b> |           |       | 0.054 fti | 87 | 1.1 | 0.26  |      |
| <b>DX</b> | CHESANING | VVA27 | 0.054 fti | 87 | 1.1 | 0.06  | 0.29 |
| <b>DY</b> |           |       | 0.054 fti | 87 | 1.1 | 0.49  |      |
| <b>DZ</b> |           |       | 0.054 fti | 87 | 1.1 | 0.80  |      |
| <b>DX</b> | CHESANING | VVA26 | 0.043 fti | 87 | 1.1 | 0.45  | 0.66 |
| <b>DY</b> |           |       | 0.043 fti | 87 | 1.1 | -1.32 |      |
| <b>DZ</b> |           |       | 0.043 fti | 87 | 1.1 | -0.22 |      |
| <b>DX</b> | CHESANING | VVA26 | 0.043 fti | 87 | 1.1 | 0.25  | 0.16 |
| <b>DY</b> |           |       | 0.043 fti | 87 | 1.1 | 0.11  |      |
| <b>DZ</b> |           |       | 0.043 fti | 87 | 1.1 | -0.64 |      |
| <b>DX</b> | CHESANING | VVA26 | 0.043 fti | 87 | 1.1 | -0.16 | 0.15 |
| <b>DY</b> |           |       | 0.043 fti | 87 | 1.1 | -0.39 |      |
| <b>DZ</b> |           |       | 0.043 fti | 87 | 1.1 | -0.53 |      |
| <b>DX</b> | CHESANING | VVA26 | 0.043 fti | 87 | 1.1 | -0.35 | 0.16 |
| <b>DY</b> |           |       | 0.043 fti | 87 | 1.1 | -0.45 |      |
| <b>DZ</b> |           |       | 0.043 fti | 87 | 1.1 | -0.41 |      |
| <b>DX</b> | CHESANING | VVA26 | 0.043 fti | 87 | 1.1 | 0.55  | 0.42 |
| <b>DY</b> |           |       | 0.043 fti | 87 | 1.1 | 0.91  |      |
| <b>DZ</b> |           |       | 0.043 fti | 87 | 1.1 | -0.37 |      |
| <b>DX</b> | CHESANING | VVA26 | 0.043 fti | 87 | 1.1 | 0.30  | 0.03 |
| <b>DY</b> |           |       | 0.043 fti | 87 | 1.1 | 0.07  |      |
| <b>DZ</b> |           |       | 0.043 fti | 87 | 1.1 | -0.03 |      |
| <b>DX</b> | CHESANING | VVA26 | 0.043 fti | 87 | 1.1 | -0.42 | 0.61 |
| <b>DY</b> |           |       | 0.043 fti | 87 | 1.1 | 0.38  |      |
| <b>DZ</b> |           |       | 0.043 fti | 87 | 1.1 | 1.23  |      |
| <b>DX</b> | CHESANING | VVA26 | 0.043 fti | 87 | 1.1 | -0.62 | 0.61 |
| <b>DY</b> |           |       | 0.043 fti | 87 | 1.1 | 0.70  |      |
| <b>DZ</b> |           |       | 0.043 fti | 87 | 1.1 | 0.97  |      |
| <b>DX</b> | CHESANING | VVA23 | 0.069 fti | 87 | 1.1 | 0.54  | 0.16 |
| <b>DY</b> |           |       | 0.069 fti | 87 | 1.1 | -0.39 |      |
| <b>DZ</b> |           |       | 0.069 fti | 87 | 1.1 | 0.23  |      |
| <b>DX</b> | CHESANING | VVA23 | 0.069 fti | 87 | 1.1 | 0.21  | 1.27 |
| <b>DY</b> |           |       | 0.069 fti | 87 | 1.1 | -1.21 |      |
| <b>DZ</b> |           |       | 0.069 fti | 87 | 1.1 | 1.51  |      |
| <b>DX</b> | CHESANING | VVA23 | 0.069 fti | 87 | 1.1 | 0.01  | 0.50 |
| <b>DY</b> |           |       | 0.069 fti | 87 | 1.1 | -1.15 |      |
| <b>DZ</b> |           |       | 0.069 fti | 87 | 1.1 | 0.41  |      |
| <b>DX</b> | CHESANING | VVA23 | 0.069 fti | 87 | 1.1 | -0.16 | 0.56 |
| <b>DY</b> |           |       | 0.069 fti | 87 | 1.1 | -1.01 |      |
| <b>DZ</b> |           |       | 0.069 fti | 87 | 1.1 | 0.79  |      |
| <b>DX</b> | CHESANING | VVA23 | 0.069 fti | 87 | 1.1 | -0.22 | 0.72 |
| <b>DY</b> |           |       | 0.069 fti | 87 | 1.1 | 0.59  |      |
| <b>DZ</b> |           |       | 0.069 fti | 87 | 1.1 | -1.32 |      |
| <b>DX</b> | CHESANING | VVA23 | 0.069 fti | 87 | 1.1 | -0.37 | 0.75 |
| <b>DY</b> |           |       | 0.069 fti | 87 | 1.1 | 1.20  |      |
| <b>DZ</b> |           |       | 0.069 fti | 87 | 1.1 | -0.82 |      |
| <b>DX</b> | CHESANING | VVA23 | 0.069 fti | 87 | 1.1 | -0.16 | 0.22 |

|    |           |       |           |    |     |       |   |      |
|----|-----------|-------|-----------|----|-----|-------|---|------|
|    |           |       | 0.069 fti | 87 | 1.1 | 0.52  |   |      |
| DZ |           |       | 0.069 fti | 87 | 1.1 | -0.60 |   |      |
| DX | CHESANING | VVA23 | 0.069 fti | 87 | 1.1 | 0.15  |   | 0.72 |
| DY |           |       | 0.069 fti | 87 | 1.1 | 1.45  |   |      |
| DZ |           |       | 0.069 fti | 87 | 1.1 | -0.20 |   |      |
| DX | CHESANING | NVA3  | 0.047 fti | 87 | 1.1 | -0.86 |   | 0.93 |
| DY |           |       | 0.047 fti | 87 | 1.1 | -0.58 |   |      |
| DZ |           |       | 0.047 fti | 87 | 1.1 | 1.31  |   |      |
| DX | CHESANING | NVA3  | 0.047 fti | 87 | 1.1 | -0.52 |   | 0.22 |
| DY |           |       | 0.047 fti | 87 | 1.1 | -0.20 |   |      |
| DZ |           |       | 0.047 fti | 87 | 1.1 | 0.59  |   |      |
| DX | CHESANING | NVA3  | 0.047 fti | 87 | 1.1 | 1.19  |   | 0.52 |
| DY |           |       | 0.047 fti | 87 | 1.1 | -0.35 |   |      |
| DZ |           |       | 0.047 fti | 87 | 1.1 | -0.18 |   |      |
| DX | CHESANING | NVA3  | 0.047 fti | 87 | 1.1 | 0.56  |   | 0.14 |
| DY |           |       | 0.047 fti | 87 | 1.1 | 0.18  |   |      |
| DZ |           |       | 0.047 fti | 87 | 1.1 | -0.24 |   |      |
| DX | CHESANING | NVA3  | 0.047 fti | 87 | 1.1 | 0.87  |   | 0.42 |
| DY |           |       | 0.047 fti | 87 | 1.1 | -0.17 |   |      |
| DZ |           |       | 0.047 fti | 87 | 1.1 | -0.70 |   |      |
| DX | CHESANING | NVA3  | 0.047 fti | 87 | 1.1 | 0.16  |   | 0.27 |
| DY |           |       | 0.047 fti | 87 | 1.1 | -0.13 |   |      |
| DZ |           |       | 0.047 fti | 87 | 1.1 | -0.88 |   |      |
| DX | CHESANING | NVA3  | 0.047 fti | 87 | 1.1 | -0.46 |   | 0.38 |
| DY |           |       | 0.047 fti | 87 | 1.1 | 0.92  |   |      |
| DZ |           |       | 0.047 fti | 87 | 1.1 | -0.27 |   |      |
| DX | CHESANING | NVA3  | 0.047 fti | 87 | 1.1 | -0.94 |   | 0.38 |
| DY |           |       | 0.047 fti | 87 | 1.1 | 0.32  |   |      |
| DZ |           |       | 0.047 fti | 87 | 1.1 | 0.37  |   |      |
| DX | CHESANING | NVA2  | 0.027 fti | 87 | 1.1 | -0.24 |   | 1.95 |
| DY |           |       | 0.027 fti | 87 | 1.1 | 0.91  |   |      |
| DZ |           |       | 0.027 fti | 87 | 1.1 | 2.23  | ⚠ |      |
| DX | CHESANING | NVA2  | 0.027 fti | 87 | 1.1 | -1.28 |   | 2.50 |
| DY |           |       | 0.027 fti | 87 | 1.1 | 2.42  | ⚠ |      |
| DZ |           |       | 0.027 fti | 87 | 1.1 | 0.21  |   |      |
| DX | CHESANING | NVA2  | 0.027 fti | 87 | 1.1 | -0.41 |   | 2.29 |
| DY |           |       | 0.027 fti | 87 | 1.1 | -2.06 | ⚠ |      |
| DZ |           |       | 0.027 fti | 87 | 1.1 | -1.57 |   |      |
| DX | CHESANING | NVA2  | 0.027 fti | 87 | 1.1 | 0.43  |   | 2.69 |
| DY |           |       | 0.027 fti | 87 | 1.1 | -2.56 | ⚠ |      |
| DZ |           |       | 0.027 fti | 87 | 1.1 | 1.17  |   |      |
| DX | CHESANING | NVA2  | 0.027 fti | 87 | 1.1 | 0.94  |   | 1.39 |
| DY |           |       | 0.027 fti | 87 | 1.1 | 0.78  |   |      |
| DZ |           |       | 0.027 fti | 87 | 1.1 | 1.64  |   |      |
| DX | CHESANING | NVA2  | 0.027 fti | 87 | 1.1 | 1.24  |   | 1.72 |
| DY |           |       | 0.027 fti | 87 | 1.1 | 1.12  |   |      |
| DZ |           |       | 0.027 fti | 87 | 1.1 | 1.53  |   |      |
| DX | CHESANING | NVA2  | 0.027 fti | 87 | 1.1 | 0.37  |   | 1.81 |
| DY |           |       | 0.027 fti | 87 | 1.1 | -1.09 |   |      |
| DZ |           |       | 0.027 fti | 87 | 1.1 | -2.03 | ⚠ |      |
| DX | CHESANING | NVA2  | 0.027 fti | 87 | 1.1 | -1.05 |   | 3.81 |
| DY |           |       | 0.027 fti | 87 | 1.1 | 0.48  |   |      |
| DZ |           |       | 0.027 fti | 87 | 1.1 | -3.18 | ⚠ |      |
| DX | CHESANING | NVA18 | 0.060 fti | 87 | 1.1 | 1.09  |   | 1.85 |
| DY |           |       | 0.060 fti | 87 | 1.1 | 2.07  | ⚠ |      |
| DZ |           |       | 0.060 fti | 87 | 1.1 | -0.28 |   |      |
| DX | CHESANING | NVA18 | 0.060 fti | 87 | 1.1 | 0.72  |   | 1.66 |
| DY |           |       | 0.060 fti | 87 | 1.1 | 1.82  |   |      |
| DZ |           |       | 0.060 fti | 87 | 1.1 | -1.08 |   |      |
| DX | CHESANING | NVA18 | 0.060 fti | 87 | 1.1 | 0.72  |   | 0.98 |
| DY |           |       | 0.060 fti | 87 | 1.1 | 0.97  |   |      |
| DZ |           |       | 0.060 fti | 87 | 1.1 | -1.21 |   |      |
| DX | CHESANING | NVA18 | 0.060 fti | 87 | 1.1 | 0.56  |   | 1.09 |
| DY |           |       | 0.060 fti | 87 | 1.1 | 0.88  |   |      |

|    |           |       |           |    |     |       |      |   |
|----|-----------|-------|-----------|----|-----|-------|------|---|
| DZ |           |       | 0.060 fti | 87 | 1.1 | -1.48 |      |   |
| DX | CHESANING | NVA18 | 0.060 fti | 87 | 1.1 | -0.71 | 0.71 |   |
| DY |           |       | 0.060 fti | 87 | 1.1 | -1.02 |      |   |
| DZ |           |       | 0.060 fti | 87 | 1.1 | 0.75  |      |   |
| DX | CHESANING | NVA18 | 0.060 fti | 87 | 1.1 | -0.68 | 1.10 |   |
| DY |           |       | 0.060 fti | 87 | 1.1 | -1.23 |      |   |
| DZ |           |       | 0.060 fti | 87 | 1.1 | 1.16  |      |   |
| DX | CHESANING | NVA18 | 0.060 fti | 87 | 1.1 | -0.75 | 2.06 | ⚠ |
| DY |           |       | 0.060 fti | 87 | 1.1 | -2.10 |      | ⚠ |
| DZ |           |       | 0.060 fti | 87 | 1.1 | 1.11  |      |   |
| DX | CHESANING | NVA18 | 0.060 fti | 87 | 1.1 | -0.96 | 1.30 |   |
| DY |           |       | 0.060 fti | 87 | 1.1 | -1.39 |      |   |
| DZ |           |       | 0.060 fti | 87 | 1.1 | 1.03  |      |   |
| DX | CHESANING | NVA17 | 0.069 fti | 87 | 1.1 | 0.37  | 0.39 |   |
| DY |           |       | 0.069 fti | 87 | 1.1 | 0.87  |      |   |
| DZ |           |       | 0.069 fti | 87 | 1.1 | -0.51 |      |   |
| DX | CHESANING | NVA17 | 0.069 fti | 87 | 1.1 | 0.34  | 0.89 |   |
| DY |           |       | 0.069 fti | 87 | 1.1 | 1.49  |      |   |
| DZ |           |       | 0.069 fti | 87 | 1.1 | -0.58 |      |   |
| DX | CHESANING | NVA17 | 0.069 fti | 87 | 1.1 | 0.63  | 2.95 | ⚠ |
| DY |           |       | 0.069 fti | 87 | 1.1 | 1.29  |      |   |
| DZ |           |       | 0.069 fti | 87 | 1.1 | -2.61 |      | ⚠ |
| DX | CHESANING | NVA17 | 0.069 fti | 87 | 1.1 | 0.52  | 3.30 | ⚠ |
| DY |           |       | 0.069 fti | 87 | 1.1 | 1.56  |      |   |
| DZ |           |       | 0.069 fti | 87 | 1.1 | -2.68 |      | ⚠ |
| DX | CHESANING | NVA17 | 0.069 fti | 87 | 1.1 | -1.75 | 2.69 | ⚠ |
| DY |           |       | 0.069 fti | 87 | 1.1 | -1.00 |      |   |
| DZ |           |       | 0.069 fti | 87 | 1.1 | 2.00  |      | ⚠ |
| DX | CHESANING | NVA17 | 0.069 fti | 87 | 1.1 | -1.10 | 0.93 |   |
| DY |           |       | 0.069 fti | 87 | 1.1 | -0.38 |      |   |
| DZ |           |       | 0.069 fti | 87 | 1.1 | 1.20  |      |   |
| DX | CHESANING | NVA17 | 0.069 fti | 87 | 1.1 | 0.46  | 1.55 |   |
| DY |           |       | 0.069 fti | 87 | 1.1 | -1.72 |      |   |
| DZ |           |       | 0.069 fti | 87 | 1.1 | 1.22  |      |   |
| DX | CHESANING | NVA17 | 0.069 fti | 87 | 1.1 | 0.52  | 2.87 | ⚠ |
| DY |           |       | 0.069 fti | 87 | 1.1 | -2.12 |      | ⚠ |
| DZ |           |       | 0.069 fti | 87 | 1.1 | 1.95  |      |   |
| DX | CHESANING | NVA16 | 0.037 fti | 87 | 1.1 | -1.93 | 1.43 |   |
| DY |           |       | 0.037 fti | 87 | 1.1 | -0.20 |      |   |
| DZ |           |       | 0.037 fti | 87 | 1.1 | 0.72  |      |   |
| DX | CHESANING | NVA16 | 0.037 fti | 87 | 1.1 | -0.60 | 0.47 |   |
| DY |           |       | 0.037 fti | 87 | 1.1 | -0.56 |      |   |
| DZ |           |       | 0.037 fti | 87 | 1.1 | 0.86  |      |   |
| DX | CHESANING | NVA16 | 0.037 fti | 87 | 1.1 | 1.32  | 1.93 | ⚠ |
| DY |           |       | 0.037 fti | 87 | 1.1 | 0.51  |      |   |
| DZ |           |       | 0.037 fti | 87 | 1.1 | -1.95 |      |   |
| DX | CHESANING | NVA16 | 0.037 fti | 87 | 1.1 | 1.18  | 1.59 |   |
| DY |           |       | 0.037 fti | 87 | 1.1 | -0.15 |      |   |
| DZ |           |       | 0.037 fti | 87 | 1.1 | -1.83 |      |   |
| DX | CHESANING | NVA16 | 0.037 fti | 87 | 1.1 | -0.55 | 0.98 |   |
| DY |           |       | 0.037 fti | 87 | 1.1 | -0.04 |      |   |
| DZ |           |       | 0.037 fti | 87 | 1.1 | 1.62  |      |   |
| DX | CHESANING | NVA16 | 0.037 fti | 87 | 1.1 | -0.82 | 0.92 |   |
| DY |           |       | 0.037 fti | 87 | 1.1 | 0.66  |      |   |
| DZ |           |       | 0.037 fti | 87 | 1.1 | 1.28  |      |   |
| DX | CHESANING | NVA16 | 0.037 fti | 87 | 1.1 | 1.00  | 0.92 |   |
| DY |           |       | 0.037 fti | 87 | 1.1 | -1.18 |      |   |
| DZ |           |       | 0.037 fti | 87 | 1.1 | 0.60  |      |   |
| DX | CHESANING | NVA16 | 0.037 fti | 87 | 1.1 | 0.40  | 0.92 |   |
| DY |           |       | 0.037 fti | 87 | 1.1 | 0.95  |      |   |
| DZ |           |       | 0.037 fti | 87 | 1.1 | -1.31 |      |   |
| DX | CHESANING | NVA13 | 0.083 fti | 87 | 1.1 | -0.27 | 0.33 |   |
| DY |           |       | 0.083 fti | 87 | 1.1 | -0.83 |      |   |
| DZ |           |       | 0.083 fti | 87 | 1.1 | 0.46  |      |   |

|    |           |       |           |    |     |       |      |   |  |
|----|-----------|-------|-----------|----|-----|-------|------|---|--|
| DX | CHESANING | NVA13 | 0.083 fti | 87 | 1.1 | 0.35  | 0.16 |   |  |
| DY |           |       | 0.083 fti | 87 | 1.1 | -0.09 |      |   |  |
| DZ |           |       | 0.083 fti | 87 | 1.1 | 0.59  |      |   |  |
| DX | CHESANING | NVA13 | 0.083 fti | 87 | 1.1 | 0.01  | 0.72 |   |  |
| DY |           |       | 0.083 fti | 87 | 1.1 | -1.19 |      |   |  |
| DZ |           |       | 0.083 fti | 87 | 1.1 | 0.86  |      |   |  |
| DX | CHESANING | NVA13 | 0.083 fti | 87 | 1.1 | -0.33 | 0.57 |   |  |
| DY |           |       | 0.083 fti | 87 | 1.1 | -1.08 |      |   |  |
| DZ |           |       | 0.083 fti | 87 | 1.1 | 0.67  |      |   |  |
| DX | CHESANING | NVA13 | 0.083 fti | 87 | 1.1 | -1.16 | 1.26 |   |  |
| DY |           |       | 0.083 fti | 87 | 1.1 | 0.99  |      |   |  |
| DZ |           |       | 0.083 fti | 87 | 1.1 | -1.20 |      |   |  |
| DX | CHESANING | NVA13 | 0.083 fti | 87 | 1.1 | -1.09 | 0.95 |   |  |
| DY |           |       | 0.083 fti | 87 | 1.1 | 1.04  |      |   |  |
| DZ |           |       | 0.083 fti | 87 | 1.1 | -0.77 |      |   |  |
| DX | CHESANING | NVA13 | 0.083 fti | 87 | 1.1 | 0.88  | 0.38 |   |  |
| DY |           |       | 0.083 fti | 87 | 1.1 | 0.60  |      |   |  |
| DZ |           |       | 0.083 fti | 87 | 1.1 | -0.11 |      |   |  |
| DX | CHESANING | NVA13 | 0.083 fti | 87 | 1.1 | 1.62  | 1.06 |   |  |
| DY |           |       | 0.083 fti | 87 | 1.1 | 0.56  |      |   |  |
| DZ |           |       | 0.083 fti | 87 | 1.1 | -0.50 |      |   |  |
| DX | BIRCH RUN | VVA4  | 0.045 fti | 87 | 1.1 | -0.50 | 0.82 |   |  |
| DY |           |       | 0.045 fti | 87 | 1.1 | 0.86  |      |   |  |
| DZ |           |       | 0.045 fti | 87 | 1.1 | -1.22 |      |   |  |
| DX | BIRCH RUN | VVA4  | 0.045 fti | 87 | 1.1 | 0.18  | 0.09 |   |  |
| DY |           |       | 0.045 fti | 87 | 1.1 | 0.50  |      |   |  |
| DZ |           |       | 0.045 fti | 87 | 1.1 | -0.04 |      |   |  |
| DX | BIRCH RUN | VVA4  | 0.045 fti | 87 | 1.1 | -2.65 | 2.42 | ⚠ |  |
| DY |           |       | 0.045 fti | 87 | 1.1 | -0.46 |      |   |  |
| DZ |           |       | 0.045 fti | 87 | 1.1 | -0.23 |      |   |  |
| DX | BIRCH RUN | VVA4  | 0.045 fti | 87 | 1.1 | 0.08  | 1.28 |   |  |
| DY |           |       | 0.045 fti | 87 | 1.1 | -1.60 |      |   |  |
| DZ |           |       | 0.045 fti | 87 | 1.1 | 1.12  |      |   |  |
| DX | BIRCH RUN | VVA4  | 0.045 fti | 87 | 1.1 | -1.52 | 7.23 | ⚠ |  |
| DY |           |       | 0.045 fti | 87 | 1.1 | -4.02 |      | ⚠ |  |
| DZ |           |       | 0.045 fti | 87 | 1.1 | 1.79  |      |   |  |
| DX | BIRCH RUN | VVA4  | 0.045 fti | 87 | 1.1 | 2.32  | 6.64 | ⚠ |  |
| DY |           |       | 0.045 fti | 87 | 1.1 | 3.21  |      | ⚠ |  |
| DZ |           |       | 0.045 fti | 87 | 1.1 | -2.06 |      | ⚠ |  |
| DX | BIRCH RUN | VVA4  | 0.045 fti | 87 | 1.1 | -0.29 | 0.13 |   |  |
| DY |           |       | 0.045 fti | 87 | 1.1 | -0.32 |      |   |  |
| DZ |           |       | 0.045 fti | 87 | 1.1 | 0.44  |      |   |  |
| DX | BIRCH RUN | VVA4  | 0.045 fti | 87 | 1.1 | 2.38  | 3.02 | ⚠ |  |
| DY |           |       | 0.045 fti | 87 | 1.1 | 1.84  |      |   |  |
| DZ |           |       | 0.045 fti | 87 | 1.1 | 0.20  |      |   |  |
| DX | BIRCH RUN | VVA29 | 0.075 fti | 87 | 1.1 | 0.93  | 1.94 | ⚠ |  |
| DY |           |       | 0.075 fti | 87 | 1.1 | 1.89  |      |   |  |
| DZ |           |       | 0.075 fti | 87 | 1.1 | -1.18 |      |   |  |
| DX | BIRCH RUN | VVA29 | 0.075 fti | 87 | 1.1 | 1.10  | 0.75 |   |  |
| DY |           |       | 0.075 fti | 87 | 1.1 | 0.80  |      |   |  |
| DZ |           |       | 0.075 fti | 87 | 1.1 | -0.63 |      |   |  |
| DX | BIRCH RUN | VVA29 | 0.075 fti | 87 | 1.1 | 0.94  | 0.48 |   |  |
| DY |           |       | 0.075 fti | 87 | 1.1 | 0.70  |      |   |  |
| DZ |           |       | 0.075 fti | 87 | 1.1 | -0.25 |      |   |  |
| DX | BIRCH RUN | VVA29 | 0.075 fti | 87 | 1.1 | 1.12  | 0.55 |   |  |
| DY |           |       | 0.075 fti | 87 | 1.1 | 0.37  |      |   |  |
| DZ |           |       | 0.075 fti | 87 | 1.1 | 0.50  |      |   |  |
| DX | BIRCH RUN | VVA29 | 0.075 fti | 87 | 1.1 | -1.27 | 0.65 |   |  |
| DY |           |       | 0.075 fti | 87 | 1.1 | -0.40 |      |   |  |
| DZ |           |       | 0.075 fti | 87 | 1.1 | -0.42 |      |   |  |
| DX | BIRCH RUN | VVA29 | 0.075 fti | 87 | 1.1 | -1.16 | 0.68 |   |  |
| DY |           |       | 0.075 fti | 87 | 1.1 | -0.79 |      |   |  |
| DZ |           |       | 0.075 fti | 87 | 1.1 | 0.27  |      |   |  |
| DX | BIRCH RUN | VVA29 | 0.075 fti | 87 | 1.1 | -1.02 | 1.26 |   |  |

|    |           |       |           |    |     |       |      |   |
|----|-----------|-------|-----------|----|-----|-------|------|---|
| DY |           |       | 0.075 fti | 87 | 1.1 | -1.53 |      |   |
| DZ |           |       | 0.075 fti | 87 | 1.1 | 0.62  |      |   |
| DX | BIRCH RUN | VVA29 | 0.075 fti | 87 | 1.1 | -0.64 | 0.88 |   |
| DY |           |       | 0.075 fti | 87 | 1.1 | -1.04 |      |   |
| DZ |           |       | 0.075 fti | 87 | 1.1 | 1.08  |      |   |
| DX | BIRCH RUN | VVA28 | 0.051 fti | 87 | 1.1 | -0.48 | 0.14 |   |
| DY |           |       | 0.051 fti | 87 | 1.1 | 0.39  |      |   |
| DZ |           |       | 0.051 fti | 87 | 1.1 | 0.24  |      |   |
| DX | BIRCH RUN | VVA28 | 0.051 fti | 87 | 1.1 | -0.79 | 1.14 |   |
| DY |           |       | 0.051 fti | 87 | 1.1 | -1.61 |      |   |
| DZ |           |       | 0.051 fti | 87 | 1.1 | 0.45  |      |   |
| DX | BIRCH RUN | VVA28 | 0.051 fti | 87 | 1.1 | -0.78 | 0.85 |   |
| DY |           |       | 0.051 fti | 87 | 1.1 | -1.38 |      |   |
| DZ |           |       | 0.051 fti | 87 | 1.1 | 0.18  |      |   |
| DX | BIRCH RUN | VVA28 | 0.051 fti | 87 | 1.1 | -0.86 | 0.67 |   |
| DY |           |       | 0.051 fti | 87 | 1.1 | -1.10 |      |   |
| DZ |           |       | 0.051 fti | 87 | 1.1 | 0.22  |      |   |
| DX | BIRCH RUN | VVA28 | 0.051 fti | 87 | 1.1 | 0.27  | 1.23 |   |
| DY |           |       | 0.051 fti | 87 | 1.1 | -1.63 |      |   |
| DZ |           |       | 0.051 fti | 87 | 1.1 | 0.97  |      |   |
| DX | BIRCH RUN | VVA28 | 0.051 fti | 87 | 1.1 | 0.65  | 0.16 |   |
| DY |           |       | 0.051 fti | 87 | 1.1 | 0.20  |      |   |
| DZ |           |       | 0.051 fti | 87 | 1.1 | 0.16  |      |   |
| DX | BIRCH RUN | VVA28 | 0.051 fti | 87 | 1.1 | 1.32  | 3.04 | ⚠ |
| DY |           |       | 0.051 fti | 87 | 1.1 | 2.53  |      | ⚠ |
| DZ |           |       | 0.051 fti | 87 | 1.1 | -0.98 |      |   |
| DX | BIRCH RUN | VVA28 | 0.051 fti | 87 | 1.1 | 0.66  | 2.93 | ⚠ |
| DY |           |       | 0.051 fti | 87 | 1.1 | 2.61  |      | ⚠ |
| DZ |           |       | 0.051 fti | 87 | 1.1 | -1.23 |      |   |
| DX | BIRCH RUN | VVA21 | 0.048 fti | 87 | 1.1 | -1.48 | 1.20 |   |
| DY |           |       | 0.048 fti | 87 | 1.1 | -0.34 |      |   |
| DZ |           |       | 0.048 fti | 87 | 1.1 | -1.13 |      |   |
| DX | BIRCH RUN | VVA21 | 0.048 fti | 87 | 1.1 | -1.36 | 1.18 |   |
| DY |           |       | 0.048 fti | 87 | 1.1 | -1.14 |      |   |
| DZ |           |       | 0.048 fti | 87 | 1.1 | -0.64 |      |   |
| DX | BIRCH RUN | VVA21 | 0.048 fti | 87 | 1.1 | -0.97 | 0.88 |   |
| DY |           |       | 0.048 fti | 87 | 1.1 | -1.18 |      |   |
| DZ |           |       | 0.048 fti | 87 | 1.1 | -0.55 |      |   |
| DX | BIRCH RUN | VVA21 | 0.048 fti | 87 | 1.1 | -0.36 | 1.42 |   |
| DY |           |       | 0.048 fti | 87 | 1.1 | -2.03 |      | ⚠ |
| DZ |           |       | 0.048 fti | 87 | 1.1 | 0.17  |      |   |
| DX | BIRCH RUN | VVA21 | 0.048 fti | 87 | 1.1 | 1.16  | 0.82 |   |
| DY |           |       | 0.048 fti | 87 | 1.1 | 0.58  |      |   |
| DZ |           |       | 0.048 fti | 87 | 1.1 | 0.88  |      |   |
| DX | BIRCH RUN | VVA21 | 0.048 fti | 87 | 1.1 | 0.97  | 1.39 |   |
| DY |           |       | 0.048 fti | 87 | 1.1 | -0.40 |      |   |
| DZ |           |       | 0.048 fti | 87 | 1.1 | 1.75  |      |   |
| DX | BIRCH RUN | VVA21 | 0.048 fti | 87 | 1.1 | 0.90  | 3.96 | ⚠ |
| DY |           |       | 0.048 fti | 87 | 1.1 | 3.25  |      | ⚠ |
| DZ |           |       | 0.048 fti | 87 | 1.1 | -0.70 |      |   |
| DX | BIRCH RUN | VVA21 | 0.048 fti | 87 | 1.1 | 1.13  | 0.97 |   |
| DY |           |       | 0.048 fti | 87 | 1.1 | 1.25  |      |   |
| DZ |           |       | 0.048 fti | 87 | 1.1 | 0.23  |      |   |
| DX | BIRCH RUN | VVA20 | 0.036 fti | 87 | 1.1 | -0.39 | 1.26 |   |
| DY |           |       | 0.036 fti | 87 | 1.1 | -1.86 |      |   |
| DZ |           |       | 0.036 fti | 87 | 1.1 | 0.39  |      |   |
| DX | BIRCH RUN | VVA20 | 0.036 fti | 87 | 1.1 | -0.16 | 0.82 |   |
| DY |           |       | 0.036 fti | 87 | 1.1 | -1.55 |      |   |
| DZ |           |       | 0.036 fti | 87 | 1.1 | -0.19 |      |   |
| DX | BIRCH RUN | VVA20 | 0.036 fti | 87 | 1.1 | -0.02 | 0.62 |   |
| DY |           |       | 0.036 fti | 87 | 1.1 | -1.36 |      |   |
| DZ |           |       | 0.036 fti | 87 | 1.1 | 0.11  |      |   |
| DX | BIRCH RUN | VVA20 | 0.036 fti | 87 | 1.1 | -0.08 | 0.05 |   |
| DY |           |       | 0.036 fti | 87 | 1.1 | -0.16 |      |   |



















|    |           |       |           |    |     |       |      |
|----|-----------|-------|-----------|----|-----|-------|------|
| DZ |           |       | 0.036 fti | 87 | 1.1 | 0.34  |      |
| DX | BIRCH RUN | VVA20 | 0.036 fti | 87 | 1.1 | -0.12 | 0.44 |
| DY |           |       | 0.036 fti | 87 | 1.1 | 1.14  |      |
| DZ |           |       | 0.036 fti | 87 | 1.1 | 0.00  |      |
| DX | BIRCH RUN | VVA20 | 0.036 fti | 87 | 1.1 | -0.03 | 0.04 |
| DY |           |       | 0.036 fti | 87 | 1.1 | 0.20  |      |
| DZ |           |       | 0.036 fti | 87 | 1.1 | -0.28 |      |
| DX | BIRCH RUN | VVA20 | 0.036 fti | 87 | 1.1 | 0.17  | 0.94 |
| DY |           |       | 0.036 fti | 87 | 1.1 | 1.64  |      |
| DZ |           |       | 0.036 fti | 87 | 1.1 | -0.35 |      |
| DX | BIRCH RUN | VVA20 | 0.036 fti | 87 | 1.1 | 0.62  | 1.40 |
| DY |           |       | 0.036 fti | 87 | 1.1 | 1.95  |      |
| DZ |           |       | 0.036 fti | 87 | 1.1 | -0.02 |      |
| DX | BIRCH RUN | VVA19 | 0.044 fti | 87 | 1.1 | -0.69 | 0.53 |
| DY |           |       | 0.044 fti | 87 | 1.1 | 1.05  |      |
| DZ |           |       | 0.044 fti | 87 | 1.1 | -0.10 |      |
| DX | BIRCH RUN | VVA19 | 0.044 fti | 87 | 1.1 | -0.80 | 0.59 |
| DY |           |       | 0.044 fti | 87 | 1.1 | 1.06  |      |
| DZ |           |       | 0.044 fti | 87 | 1.1 | -0.11 |      |
| DX | BIRCH RUN | VVA19 | 0.044 fti | 87 | 1.1 | -1.13 | 0.80 |
| DY |           |       | 0.044 fti | 87 | 1.1 | 1.02  |      |
| DZ |           |       | 0.044 fti | 87 | 1.1 | -0.30 |      |
| DX | BIRCH RUN | VVA19 | 0.044 fti | 87 | 1.1 | -0.84 | 0.26 |
| DY |           |       | 0.044 fti | 87 | 1.1 | 0.01  |      |
| DZ |           |       | 0.044 fti | 87 | 1.1 | 0.25  |      |
| DX | BIRCH RUN | VVA19 | 0.044 fti | 87 | 1.1 | 0.88  | 1.13 |
| DY |           |       | 0.044 fti | 87 | 1.1 | -1.61 |      |
| DZ |           |       | 0.044 fti | 87 | 1.1 | -0.11 |      |
| DX | BIRCH RUN | VVA19 | 0.044 fti | 87 | 1.1 | 0.86  | 0.65 |
| DY |           |       | 0.044 fti | 87 | 1.1 | -1.10 |      |
| DZ |           |       | 0.044 fti | 87 | 1.1 | -0.01 |      |
| DX | BIRCH RUN | VVA19 | 0.044 fti | 87 | 1.1 | 0.69  | 0.25 |
| DY |           |       | 0.044 fti | 87 | 1.1 | -0.49 |      |
| DZ |           |       | 0.044 fti | 87 | 1.1 | 0.16  |      |
| DX | BIRCH RUN | VVA19 | 0.044 fti | 87 | 1.1 | 1.04  | 0.38 |
| DY |           |       | 0.044 fti | 87 | 1.1 | 0.06  |      |
| DZ |           |       | 0.044 fti | 87 | 1.1 | 0.22  |      |
| DX | BIRCH RUN | VVA18 | 0.072 fti | 87 | 1.1 | -0.27 | 0.13 |
| DY |           |       | 0.072 fti | 87 | 1.1 | -0.16 |      |
| DZ |           |       | 0.072 fti | 87 | 1.1 | 0.53  |      |
| DX | BIRCH RUN | VVA18 | 0.072 fti | 87 | 1.1 | -0.33 | 0.84 |
| DY |           |       | 0.072 fti | 87 | 1.1 | -0.71 |      |
| DZ |           |       | 0.072 fti | 87 | 1.1 | 1.38  |      |
| DX | BIRCH RUN | VVA18 | 0.072 fti | 87 | 1.1 | -0.05 | 1.03 |
| DY |           |       | 0.072 fti | 87 | 1.1 | -1.25 |      |
| DZ |           |       | 0.072 fti | 87 | 1.1 | 1.23  |      |
| DX | BIRCH RUN | VVA18 | 0.072 fti | 87 | 1.1 | -0.05 | 1.50 |
| DY |           |       | 0.072 fti | 87 | 1.1 | -1.60 |      |
| DZ |           |       | 0.072 fti | 87 | 1.1 | 1.39  |      |
| DX | BIRCH RUN | VVA18 | 0.072 fti | 87 | 1.1 | -0.05 | 1.95 |
| DY |           |       | 0.072 fti | 87 | 1.1 | 1.77  |      |
| DZ |           |       | 0.072 fti | 87 | 1.1 | -1.65 |      |
| DX | BIRCH RUN | VVA18 | 0.072 fti | 87 | 1.1 | 0.38  | 0.82 |
| DY |           |       | 0.072 fti | 87 | 1.1 | 0.66  |      |
| DZ |           |       | 0.072 fti | 87 | 1.1 | -1.38 |      |
| DX | BIRCH RUN | VVA18 | 0.072 fti | 87 | 1.1 | 0.21  | 0.14 |
| DY |           |       | 0.072 fti | 87 | 1.1 | 0.33  |      |
| DZ |           |       | 0.072 fti | 87 | 1.1 | -0.53 |      |
| DX | BIRCH RUN | VVA18 | 0.072 fti | 87 | 1.1 | 0.18  | 0.65 |
| DY |           |       | 0.072 fti | 87 | 1.1 | 0.97  |      |
| DZ |           |       | 0.072 fti | 87 | 1.1 | -0.99 |      |
| DX | BIRCH RUN | VVA17 | 0.069 fti | 87 | 1.1 | 0.81  | 0.66 |
| DY |           |       | 0.069 fti | 87 | 1.1 | -1.14 |      |
| DZ |           |       | 0.069 fti | 87 | 1.1 | 0.19  |      |



|    |           |       |           |    |     |       |   |      |
|----|-----------|-------|-----------|----|-----|-------|---|------|
| DX | BIRCH RUN | VVA17 | 0.069 fti | 87 | 1.1 | 0.78  |   | 0.44 |
| DY |           |       | 0.069 fti | 87 | 1.1 | -0.83 |   |      |
| DZ |           |       | 0.069 fti | 87 | 1.1 | 0.14  |   |      |
| DX | BIRCH RUN | VVA17 | 0.069 fti | 87 | 1.1 | 0.36  |   | 0.08 |
| DY |           |       | 0.069 fti | 87 | 1.1 | -0.04 |   |      |
| DZ |           |       | 0.069 fti | 87 | 1.1 | -0.31 |   |      |
| DX | BIRCH RUN | VVA17 | 0.069 fti | 87 | 1.1 | 0.42  |   | 0.08 |
| DY |           |       | 0.069 fti | 87 | 1.1 | 0.07  |   |      |
| DZ |           |       | 0.069 fti | 87 | 1.1 | -0.25 |   |      |
| DX | BIRCH RUN | VVA17 | 0.069 fti | 87 | 1.1 | -0.75 |   | 0.75 |
| DY |           |       | 0.069 fti | 87 | 1.1 | 1.12  |   |      |
| DZ |           |       | 0.069 fti | 87 | 1.1 | -0.66 |   |      |
| DX | BIRCH RUN | VVA17 | 0.069 fti | 87 | 1.1 | -0.92 |   | 0.71 |
| DY |           |       | 0.069 fti | 87 | 1.1 | 1.11  |   |      |
| DZ |           |       | 0.069 fti | 87 | 1.1 | -0.20 |   |      |
| DX | BIRCH RUN | VVA17 | 0.069 fti | 87 | 1.1 | -0.55 |   | 0.32 |
| DY |           |       | 0.069 fti | 87 | 1.1 | 0.23  |   |      |
| DZ |           |       | 0.069 fti | 87 | 1.1 | 0.78  |   |      |
| DX | BIRCH RUN | VVA17 | 0.069 fti | 87 | 1.1 | -0.15 |   | 0.13 |
| DY |           |       | 0.069 fti | 87 | 1.1 | -0.52 |   |      |
| DZ |           |       | 0.069 fti | 87 | 1.1 | 0.31  |   |      |
| DX | BIRCH RUN | VVA16 | 0.053 fti | 87 | 1.1 | 0.98  |   | 0.47 |
| DY |           |       | 0.053 fti | 87 | 1.1 | 0.57  |   |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | -0.33 |   |      |
| DX | BIRCH RUN | VVA16 | 0.053 fti | 87 | 1.1 | 0.28  |   | 0.79 |
| DY |           |       | 0.053 fti | 87 | 1.1 | 1.31  |   |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | -0.75 |   |      |
| DX | BIRCH RUN | VVA16 | 0.053 fti | 87 | 1.1 | 0.10  |   | 1.91 |
| DY |           |       | 0.053 fti | 87 | 1.1 | 2.00  | ⚠ |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | -1.32 |   |      |
| DX | BIRCH RUN | VVA16 | 0.053 fti | 87 | 1.1 | 0.14  |   | 1.47 |
| DY |           |       | 0.053 fti | 87 | 1.1 | 1.85  |   |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | -0.99 |   |      |
| DX | BIRCH RUN | VVA16 | 0.053 fti | 87 | 1.1 | -0.10 |   | 0.66 |
| DY |           |       | 0.053 fti | 87 | 1.1 | -1.00 |   |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | 0.99  |   |      |
| DX | BIRCH RUN | VVA16 | 0.053 fti | 87 | 1.1 | -0.51 |   | 1.51 |
| DY |           |       | 0.053 fti | 87 | 1.1 | -1.49 |   |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | 1.43  |   |      |
| DX | BIRCH RUN | VVA16 | 0.053 fti | 87 | 1.1 | -0.45 |   | 3.63 |
| DY |           |       | 0.053 fti | 87 | 1.1 | -3.03 | ⚠ |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | 1.23  |   |      |
| DX | BIRCH RUN | VVA16 | 0.053 fti | 87 | 1.1 | -0.43 |   | 0.10 |
| DY |           |       | 0.053 fti | 87 | 1.1 | -0.21 |   |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | -0.26 |   |      |
| DX | BIRCH RUN | NVA5  | 0.050 fti | 87 | 1.1 | 0.14  |   | 0.40 |
| DY |           |       | 0.050 fti | 87 | 1.1 | 0.05  |   |      |
| DZ |           |       | 0.050 fti | 87 | 1.1 | -1.09 |   |      |
| DX | BIRCH RUN | NVA5  | 0.050 fti | 87 | 1.1 | -0.11 |   | 1.01 |
| DY |           |       | 0.050 fti | 87 | 1.1 | 0.54  |   |      |
| DZ |           |       | 0.050 fti | 87 | 1.1 | -1.65 |   |      |
| DX | BIRCH RUN | NVA5  | 0.050 fti | 87 | 1.1 | 0.09  |   | 1.45 |
| DY |           |       | 0.050 fti | 87 | 1.1 | 0.50  |   |      |
| DZ |           |       | 0.050 fti | 87 | 1.1 | -2.02 | ⚠ |      |
| DX | BIRCH RUN | NVA5  | 0.050 fti | 87 | 1.1 | 0.06  |   | 1.42 |
| DY |           |       | 0.050 fti | 87 | 1.1 | 0.63  |   |      |
| DZ |           |       | 0.050 fti | 87 | 1.1 | -1.96 | ⚠ |      |
| DX | BIRCH RUN | NVA5  | 0.050 fti | 87 | 1.1 | 0.24  |   | 0.99 |
| DY |           |       | 0.050 fti | 87 | 1.1 | -0.37 |   |      |
| DZ |           |       | 0.050 fti | 87 | 1.1 | 1.67  |   |      |
| DX | BIRCH RUN | NVA5  | 0.050 fti | 87 | 1.1 | -0.12 |   | 2.25 |
| DY |           |       | 0.050 fti | 87 | 1.1 | -1.28 |   |      |
| DZ |           |       | 0.050 fti | 87 | 1.1 | 2.26  | ⚠ |      |
| DX | BIRCH RUN | NVA5  | 0.050 fti | 87 | 1.1 | 0.09  |   | 0.90 |

|    |           |       |           |    |     |       |      |
|----|-----------|-------|-----------|----|-----|-------|------|
| DY |           |       | 0.050 fti | 87 | 1.1 | -0.50 |      |
| DZ |           |       | 0.050 fti | 87 | 1.1 | 1.56  |      |
| DX | BIRCH RUN | NVA5  | 0.050 fti | 87 | 1.1 | -0.38 | 0.62 |
| DY |           |       | 0.050 fti | 87 | 1.1 | 0.43  |      |
| DZ |           |       | 0.050 fti | 87 | 1.1 | 1.24  |      |
| DX | BIRCH RUN | NVA28 | 0.065 fti | 87 | 1.1 | -0.67 | 0.23 |
| DY |           |       | 0.065 fti | 87 | 1.1 | -0.33 |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | -0.38 |      |
| DX | BIRCH RUN | NVA28 | 0.065 fti | 87 | 1.1 | -0.85 | 0.33 |
| DY |           |       | 0.065 fti | 87 | 1.1 | -0.49 |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | -0.19 |      |
| DX | BIRCH RUN | NVA28 | 0.065 fti | 87 | 1.1 | 0.94  | 0.33 |
| DY |           |       | 0.065 fti | 87 | 1.1 | -0.32 |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | 0.13  |      |
| DX | BIRCH RUN | NVA28 | 0.065 fti | 87 | 1.1 | 0.96  | 0.52 |
| DY |           |       | 0.065 fti | 87 | 1.1 | -0.76 |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | -0.24 |      |
| DX | BIRCH RUN | NVA28 | 0.065 fti | 87 | 1.1 | -0.22 | 0.84 |
| DY |           |       | 0.065 fti | 87 | 1.1 | -0.03 |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | 1.57  |      |
| DX | BIRCH RUN | NVA28 | 0.065 fti | 87 | 1.1 | -0.25 | 0.39 |
| DY |           |       | 0.065 fti | 87 | 1.1 | 0.62  |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | 0.85  |      |
| DX | BIRCH RUN | NVA28 | 0.065 fti | 87 | 1.1 | 0.03  | 0.40 |
| DY |           |       | 0.065 fti | 87 | 1.1 | 0.42  |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | -1.00 |      |
| DX | BIRCH RUN | NVA28 | 0.065 fti | 87 | 1.1 | 0.06  | 0.46 |
| DY |           |       | 0.065 fti | 87 | 1.1 | 0.90  |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | -0.75 |      |
| DX | BIRCH RUN | NVA11 | 0.037 fti | 87 | 1.1 | 0.09  | 0.77 |
| DY |           |       | 0.037 fti | 87 | 1.1 | -1.35 |      |
| DZ |           |       | 0.037 fti | 87 | 1.1 | -0.69 |      |
| DX | BIRCH RUN | NVA11 | 0.037 fti | 87 | 1.1 | 0.63  | 0.47 |
| DY |           |       | 0.037 fti | 87 | 1.1 | -0.84 |      |
| DZ |           |       | 0.037 fti | 87 | 1.1 | -0.55 |      |
| DX | BIRCH RUN | NVA11 | 0.037 fti | 87 | 1.1 | -0.42 | 0.28 |
| DY |           |       | 0.037 fti | 87 | 1.1 | 0.55  |      |
| DZ |           |       | 0.037 fti | 87 | 1.1 | -0.61 |      |
| DX | BIRCH RUN | NVA11 | 0.037 fti | 87 | 1.1 | -0.62 | 0.41 |
| DY |           |       | 0.037 fti | 87 | 1.1 | 0.92  |      |
| DZ |           |       | 0.037 fti | 87 | 1.1 | 0.06  |      |
| DX | BIRCH RUN | NVA11 | 0.037 fti | 87 | 1.1 | -0.40 | 0.10 |
| DY |           |       | 0.037 fti | 87 | 1.1 | -0.38 |      |
| DZ |           |       | 0.037 fti | 87 | 1.1 | -0.09 |      |
| DX | BIRCH RUN | NVA11 | 0.037 fti | 87 | 1.1 | -0.21 | 0.50 |
| DY |           |       | 0.037 fti | 87 | 1.1 | 0.46  |      |
| DZ |           |       | 0.037 fti | 87 | 1.1 | 1.11  |      |
| DX | BIRCH RUN | NVA11 | 0.037 fti | 87 | 1.1 | 0.47  | 0.12 |
| DY |           |       | 0.037 fti | 87 | 1.1 | 0.04  |      |
| DZ |           |       | 0.037 fti | 87 | 1.1 | 0.36  |      |
| DX | BIRCH RUN | NVA11 | 0.037 fti | 87 | 1.1 | 0.47  | 0.26 |
| DY |           |       | 0.037 fti | 87 | 1.1 | 0.60  |      |
| DZ |           |       | 0.037 fti | 87 | 1.1 | 0.42  |      |
| DX | HEMLOCK   | VVA7  | 0.074 fti | 87 | 1.1 | -0.15 | 1.23 |
| DY |           |       | 0.074 fti | 87 | 1.1 | -1.56 |      |
| DZ |           |       | 0.074 fti | 87 | 1.1 | 1.11  |      |
| DX | HEMLOCK   | VVA7  | 0.074 fti | 87 | 1.1 | -0.16 | 0.18 |
| DY |           |       | 0.074 fti | 87 | 1.1 | -0.71 |      |
| DZ |           |       | 0.074 fti | 87 | 1.1 | -0.05 |      |
| DX | HEMLOCK   | VVA7  | 0.074 fti | 87 | 1.1 | -0.10 | 0.48 |
| DY |           |       | 0.074 fti | 87 | 1.1 | -0.62 |      |
| DZ |           |       | 0.074 fti | 87 | 1.1 | 1.02  |      |
| DX | HEMLOCK   | VVA7  | 0.074 fti | 87 | 1.1 | -0.15 | 0.11 |
| DY |           |       | 0.074 fti | 87 | 1.1 | -0.18 |      |
| DZ |           |       | 0.074 fti | 87 | 1.1 | 0.51  |      |

|    |         |       |           |    |     |       |      |   |
|----|---------|-------|-----------|----|-----|-------|------|---|
|    | HEMLOCK | VVA7  | 0.074 fti | 87 | 1.1 | -0.10 | 0.46 |   |
| DY |         |       | 0.074 fti | 87 | 1.1 | 0.75  |      |   |
| DZ |         |       | 0.074 fti | 87 | 1.1 | -0.89 |      |   |
| DX | HEMLOCK | VVA7  | 0.074 fti | 87 | 1.1 | 0.20  | 0.44 |   |
| DY |         |       | 0.074 fti | 87 | 1.1 | 0.39  |      |   |
| DZ |         |       | 0.074 fti | 87 | 1.1 | -1.07 |      |   |
| DX | HEMLOCK | VVA7  | 0.074 fti | 87 | 1.1 | 0.35  | 0.55 |   |
| DY |         |       | 0.074 fti | 87 | 1.1 | 1.09  |      |   |
| DZ |         |       | 0.074 fti | 87 | 1.1 | -0.57 |      |   |
| DX | HEMLOCK | VVA7  | 0.074 fti | 87 | 1.1 | 0.10  | 0.24 |   |
| DY |         |       | 0.074 fti | 87 | 1.1 | 0.84  |      |   |
| DZ |         |       | 0.074 fti | 87 | 1.1 | -0.06 |      |   |
| DX | HEMLOCK | VVA14 | 0.061 fti | 87 | 1.1 | -0.64 | 0.45 |   |
| DY |         |       | 0.061 fti | 87 | 1.1 | -0.49 |      |   |
| DZ |         |       | 0.061 fti | 87 | 1.1 | 0.83  |      |   |
| DX | HEMLOCK | VVA14 | 0.061 fti | 87 | 1.1 | -0.42 | 0.75 |   |
| DY |         |       | 0.061 fti | 87 | 1.1 | -1.23 |      |   |
| DZ |         |       | 0.061 fti | 87 | 1.1 | 0.75  |      |   |
| DX | HEMLOCK | VVA14 | 0.061 fti | 87 | 1.1 | 0.09  | 1.48 |   |
| DY |         |       | 0.061 fti | 87 | 1.1 | -0.89 |      |   |
| DZ |         |       | 0.061 fti | 87 | 1.1 | 1.91  |      |   |
| DX | HEMLOCK | VVA14 | 0.061 fti | 87 | 1.1 | 0.56  | 1.85 |   |
| DY |         |       | 0.061 fti | 87 | 1.1 | -2.08 |      | ⚠ |
| DZ |         |       | 0.061 fti | 87 | 1.1 | 0.96  |      |   |
| DX | HEMLOCK | VVA14 | 0.061 fti | 87 | 1.1 | 0.46  | 0.57 |   |
| DY |         |       | 0.061 fti | 87 | 1.1 | 1.22  |      |   |
| DZ |         |       | 0.061 fti | 87 | 1.1 | -0.04 |      |   |
| DX | HEMLOCK | VVA14 | 0.061 fti | 87 | 1.1 | -0.22 | 0.62 |   |
| DY |         |       | 0.061 fti | 87 | 1.1 | 1.35  |      |   |
| DZ |         |       | 0.061 fti | 87 | 1.1 | 0.05  |      |   |
| DX | HEMLOCK | VVA14 | 0.061 fti | 87 | 1.1 | 0.24  | 2.54 | ⚠ |
| DY |         |       | 0.061 fti | 87 | 1.1 | 1.33  |      |   |
| DZ |         |       | 0.061 fti | 87 | 1.1 | -2.41 |      | ⚠ |
| DX | HEMLOCK | VVA14 | 0.061 fti | 87 | 1.1 | -0.08 | 1.62 |   |
| DY |         |       | 0.061 fti | 87 | 1.1 | 0.78  |      |   |
| DZ |         |       | 0.061 fti | 87 | 1.1 | -2.06 |      | ⚠ |
| DX | HEMLOCK | NVA32 | 0.055 fti | 87 | 1.1 | -0.75 | 0.42 |   |
| DY |         |       | 0.055 fti | 87 | 1.1 | -0.44 |      |   |
| DZ |         |       | 0.055 fti | 87 | 1.1 | 0.72  |      |   |
| DX | HEMLOCK | NVA32 | 0.055 fti | 87 | 1.1 | -0.52 | 0.78 |   |
| DY |         |       | 0.055 fti | 87 | 1.1 | -0.79 |      |   |
| DZ |         |       | 0.055 fti | 87 | 1.1 | 1.20  |      |   |
| DX | HEMLOCK | NVA32 | 0.055 fti | 87 | 1.1 | 0.73  | 0.65 |   |
| DY |         |       | 0.055 fti | 87 | 1.1 | -1.19 |      |   |
| DZ |         |       | 0.055 fti | 87 | 1.1 | 0.09  |      |   |
| DX | HEMLOCK | NVA32 | 0.055 fti | 87 | 1.1 | 0.49  | 0.75 |   |
| DY |         |       | 0.055 fti | 87 | 1.1 | -1.42 |      |   |
| DZ |         |       | 0.055 fti | 87 | 1.1 | 0.05  |      |   |
| DX | HEMLOCK | NVA32 | 0.055 fti | 87 | 1.1 | 0.58  | 0.15 |   |
| DY |         |       | 0.055 fti | 87 | 1.1 | -0.11 |      |   |
| DZ |         |       | 0.055 fti | 87 | 1.1 | -0.34 |      |   |
| DX | HEMLOCK | NVA32 | 0.055 fti | 87 | 1.1 | 0.41  | 0.72 |   |
| DY |         |       | 0.055 fti | 87 | 1.1 | 0.38  |      |   |
| DZ |         |       | 0.055 fti | 87 | 1.1 | -1.36 |      |   |
| DX | HEMLOCK | NVA32 | 0.055 fti | 87 | 1.1 | -0.44 | 1.34 |   |
| DY |         |       | 0.055 fti | 87 | 1.1 | 1.94  |      |   |
| DZ |         |       | 0.055 fti | 87 | 1.1 | -0.26 |      |   |
| DX | HEMLOCK | NVA32 | 0.055 fti | 87 | 1.1 | -0.50 | 0.97 |   |
| DY |         |       | 0.055 fti | 87 | 1.1 | 1.63  |      |   |
| DZ |         |       | 0.055 fti | 87 | 1.1 | -0.10 |      |   |
| DX | HEMLOCK | NVA23 | 0.074 fti | 87 | 1.1 | 0.22  | 0.16 |   |
| DY |         |       | 0.074 fti | 87 | 1.1 | 0.62  |      |   |
| DZ |         |       | 0.074 fti | 87 | 1.1 | 0.19  |      |   |
| DX | HEMLOCK | NVA23 | 0.074 fti | 87 | 1.1 | -0.07 | 0.25 |   |


|    |         |       |           |    |     |       |   |   |
|----|---------|-------|-----------|----|-----|-------|---|---|
| DY |         |       | 0.074 fti | 87 | 1.1 | 0.86  |   |   |
| DZ |         |       | 0.074 fti | 87 | 1.1 | 0.14  |   |   |
| DX | HEMLOCK | NVA23 | 0.074 fti | 87 | 1.1 | 0.27  |   | 1.11  |
| DY |         |       | 0.074 fti | 87 | 1.1 | 0.82  |   |   |
| DZ |         |       | 0.074 fti | 87 | 1.1 | -1.61 |   |   |
| DX | HEMLOCK | NVA23 | 0.074 fti | 87 | 1.1 | 0.13  |   | 1.07  |
| DY |         |       | 0.074 fti | 87 | 1.1 | 0.84  |   |   |
| DZ |         |       | 0.074 fti | 87 | 1.1 | -1.58 |   |   |
| DX | HEMLOCK | NVA23 | 0.074 fti | 87 | 1.1 | -0.61 |   | 0.75  |
| DY |         |       | 0.074 fti | 87 | 1.1 | -1.28 |   |   |
| DZ |         |       | 0.074 fti | 87 | 1.1 | 0.49  |   |   |
| DX | HEMLOCK | NVA23 | 0.074 fti | 87 | 1.1 | -0.61 |   | 0.76  |
| DY |         |       | 0.074 fti | 87 | 1.1 | -1.25 |   |   |
| DZ |         |       | 0.074 fti | 87 | 1.1 | 0.57  |   |   |
| DX | HEMLOCK | NVA23 | 0.074 fti | 87 | 1.1 | 0.54  |   | 0.76  |
| DY |         |       | 0.074 fti | 87 | 1.1 | -0.76 |   |   |
| DZ |         |       | 0.074 fti | 87 | 1.1 | 1.20  |   |   |
| DX | HEMLOCK | NVA23 | 0.074 fti | 87 | 1.1 | 0.13  |   | 0.13  |
| DY |         |       | 0.074 fti | 87 | 1.1 | 0.15  |   |   |
| DZ |         |       | 0.074 fti | 87 | 1.1 | 0.59  |   |   |
| DX | HEMLOCK | NVA15 | 0.081 fti | 87 | 1.1 | 0.27  |   | 0.08  |
| DY |         |       | 0.081 fti | 87 | 1.1 | 0.15  |   |   |
| DZ |         |       | 0.081 fti | 87 | 1.1 | -0.37 |   |   |
| DX | HEMLOCK | NVA15 | 0.081 fti | 87 | 1.1 | 0.00  |   | 0.13  |
| DY |         |       | 0.081 fti | 87 | 1.1 | 0.25  |   |   |
| DZ |         |       | 0.081 fti | 87 | 1.1 | -0.56 |   |   |
| DX | HEMLOCK | NVA15 | 0.081 fti | 87 | 1.1 | 0.82  |   | 2.25     |
| DY |         |       | 0.081 fti | 87 | 1.1 | 0.96  |   |   |
| DZ |         |       | 0.081 fti | 87 | 1.1 | -2.27 |    |   |
| DX | HEMLOCK | NVA15 | 0.081 fti | 87 | 1.1 | 1.09  |   | 1.36  |
| DY |         |       | 0.081 fti | 87 | 1.1 | -0.03 |   |   |
| DZ |         |       | 0.081 fti | 87 | 1.1 | -1.70 |   |   |
| DX | HEMLOCK | NVA15 | 0.081 fti | 87 | 1.1 | -0.94 |   | 0.82  |
| DY |         |       | 0.081 fti | 87 | 1.1 | -0.04 |   |   |
| DZ |         |       | 0.081 fti | 87 | 1.1 | 1.26  |   |   |
| DX | HEMLOCK | NVA15 | 0.081 fti | 87 | 1.1 | -0.57 |   | 0.84  |
| DY |         |       | 0.081 fti | 87 | 1.1 | -0.09 |   |   |
| DZ |         |       | 0.081 fti | 87 | 1.1 | 1.48  |   |   |
| DX | HEMLOCK | NVA15 | 0.081 fti | 87 | 1.1 | -0.38 |   | 0.29  |
| DY |         |       | 0.081 fti | 87 | 1.1 | -0.35 |   |   |
| DZ |         |       | 0.081 fti | 87 | 1.1 | 0.77  |   |   |
| DX | HEMLOCK | NVA15 | 0.081 fti | 87 | 1.1 | -0.29 |   | 0.92  |
| DY |         |       | 0.081 fti | 87 | 1.1 | -0.85 |   |   |
| DZ |         |       | 0.081 fti | 87 | 1.1 | 1.40  |   |   |
| DX | VVA25   | VVA2  | 0.042 fti | 87 | 1.1 | 1.64  |   | 10.68  |
| DY |         |       | 0.042 fti | 87 | 1.1 | -5.40 |  |   |
| DZ |         |       | 0.042 fti | 87 | 1.1 | -0.40 |   |   |
| DX | VVA25   | VVA2  | 0.042 fti | 87 | 1.1 | 1.25  |   | 24.46  |
| DY |         |       | 0.042 fti | 87 | 1.1 | -8.47 |  |   |
| DZ |         |       | 0.042 fti | 87 | 1.1 | -0.41 |   |   |
| DX | VVA25   | VVA2  | 0.042 fti | 87 | 1.1 | 0.02  |   | 15.47  |
| DY |         |       | 0.042 fti | 87 | 1.1 | -6.79 |  |   |
| DZ |         |       | 0.042 fti | 87 | 1.1 | 0.59  |   |   |
| DX | VVA25   | VVA2  | 0.042 fti | 87 | 1.1 | 1.28  |   | 6.34   |
| DY |         |       | 0.042 fti | 87 | 1.1 | 3.94  |  |   |
| DZ |         |       | 0.042 fti | 87 | 1.1 | -1.36 |   |   |
| DX | VVA25   | VVA2  | 0.042 fti | 87 | 1.1 | -0.59 |   | 13.29  |
| DY |         |       | 0.042 fti | 87 | 1.1 | 6.28  |  |   |
| DZ |         |       | 0.042 fti | 87 | 1.1 | -0.23 |   |   |
| DX | VVA25   | VVA2  | 0.042 fti | 87 | 1.1 | -0.59 |   | 10.20  |
| DY |         |       | 0.042 fti | 87 | 1.1 | 1.31  |   |   |
| DZ |         |       | 0.042 fti | 87 | 1.1 | 5.34  |  |   |
| DX | VVA25   | VVA2  | 0.042 fti | 87 | 1.1 | -0.29 |   | 10.53  |
| DY |         |       | 0.042 fti | 87 | 1.1 | 5.59  |  |   |

|    |       |      |           |    |     |       |   |      |   |
|----|-------|------|-----------|----|-----|-------|---|------|---|
| DZ |       |      | 0.042 fti | 87 | 1.1 | -0.50 |   |      |   |
| DX | VVA25 | VVA2 | 0.042 fti | 87 | 1.1 | -2.72 | ⚠ | 9.72 | ⚠ |
| DY |       |      | 0.042 fti | 87 | 1.1 | 3.54  | ⚠ |      |   |
| DZ |       |      | 0.042 fti | 87 | 1.1 | -3.05 | ⚠ |      |   |
| DX | VVA25 | VVA1 | 0.047 fti | 87 | 1.1 | -0.77 |   | 0.21 |   |
| DY |       |      | 0.047 fti | 87 | 1.1 | -0.02 |   |      |   |
| DZ |       |      | 0.047 fti | 87 | 1.1 | -0.15 |   |      |   |
| DX | VVA25 | VVA1 | 0.047 fti | 87 | 1.1 | -0.64 |   | 1.93 | ⚠ |
| DY |       |      | 0.047 fti | 87 | 1.1 | -0.79 |   |      |   |
| DZ |       |      | 0.047 fti | 87 | 1.1 | 2.18  | ⚠ |      |   |
| DX | VVA25 | VVA1 | 0.047 fti | 87 | 1.1 | -2.80 | ⚠ | 5.84 | ⚠ |
| DY |       |      | 0.047 fti | 87 | 1.1 | 0.62  |   |      |   |
| DZ |       |      | 0.047 fti | 87 | 1.1 | -3.05 | ⚠ |      |   |
| DX | VVA25 | VVA1 | 0.047 fti | 87 | 1.1 | -1.31 |   | 5.62 | ⚠ |
| DY |       |      | 0.047 fti | 87 | 1.1 | 2.07  | ⚠ |      |   |
| DZ |       |      | 0.047 fti | 87 | 1.1 | -3.30 | ⚠ |      |   |
| DX | VVA25 | VVA1 | 0.047 fti | 87 | 1.1 | 2.53  | ⚠ | 4.88 | ⚠ |
| DY |       |      | 0.047 fti | 87 | 1.1 | -0.65 |   |      |   |
| DZ |       |      | 0.047 fti | 87 | 1.1 | 2.80  | ⚠ |      |   |
| DX | VVA25 | VVA1 | 0.047 fti | 87 | 1.1 | 1.37  |   | 1.51 |   |
| DY |       |      | 0.047 fti | 87 | 1.1 | -1.59 |   |      |   |
| DZ |       |      | 0.047 fti | 87 | 1.1 | 0.33  |   |      |   |
| DX | VVA25 | VVA1 | 0.047 fti | 87 | 1.1 | 0.94  |   | 1.18 |   |
| DY |       |      | 0.047 fti | 87 | 1.1 | -1.62 |   |      |   |
| DZ |       |      | 0.047 fti | 87 | 1.1 | 0.18  |   |      |   |
| DX | VVA25 | VVA1 | 0.047 fti | 87 | 1.1 | 0.68  |   | 1.80 |   |
| DY |       |      | 0.047 fti | 87 | 1.1 | 1.98  | ⚠ |      |   |
| DZ |       |      | 0.047 fti | 87 | 1.1 | 1.01  |   |      |   |
| DX | BAYR  | VVA9 | 0.077 fti | 87 | 1.1 | 0.58  |   | 0.27 |   |
| DY |       |      | 0.077 fti | 87 | 1.1 | 0.67  |   |      |   |
| DZ |       |      | 0.077 fti | 87 | 1.1 | 0.14  |   |      |   |
| DX | BAYR  | VVA9 | 0.077 fti | 87 | 1.1 | 0.33  |   | 0.14 |   |
| DY |       |      | 0.077 fti | 87 | 1.1 | 0.22  |   |      |   |
| DZ |       |      | 0.077 fti | 87 | 1.1 | 0.50  |   |      |   |
| DX | BAYR  | VVA9 | 0.077 fti | 87 | 1.1 | -0.45 |   | 1.45 |   |
| DY |       |      | 0.077 fti | 87 | 1.1 | -1.86 |   |      |   |
| DZ |       |      | 0.077 fti | 87 | 1.1 | 0.83  |   |      |   |
| DX | BAYR  | VVA9 | 0.077 fti | 87 | 1.1 | -0.55 |   | 2.03 | ⚠ |
| DY |       |      | 0.077 fti | 87 | 1.1 | -2.25 | ⚠ |      |   |
| DZ |       |      | 0.077 fti | 87 | 1.1 | 0.84  |   |      |   |
| DX | BAYR  | VVA9 | 0.077 fti | 87 | 1.1 | -0.12 |   | 1.17 |   |
| DY |       |      | 0.077 fti | 87 | 1.1 | 1.34  |   |      |   |
| DZ |       |      | 0.077 fti | 87 | 1.1 | -1.30 |   |      |   |
| DX | BAYR  | VVA9 | 0.077 fti | 87 | 1.1 | -0.21 |   | 0.68 |   |
| DY |       |      | 0.077 fti | 87 | 1.1 | 1.21  |   |      |   |
| DZ |       |      | 0.077 fti | 87 | 1.1 | -0.73 |   |      |   |
| DX | BAYR  | VVA9 | 0.077 fti | 87 | 1.1 | 0.11  |   | 0.19 |   |
| DY |       |      | 0.077 fti | 87 | 1.1 | 0.75  |   |      |   |
| DZ |       |      | 0.077 fti | 87 | 1.1 | -0.03 |   |      |   |
| DX | BAYR  | VVA9 | 0.077 fti | 87 | 1.1 | 0.31  |   | 0.06 |   |
| DY |       |      | 0.077 fti | 87 | 1.1 | -0.08 |   |      |   |
| DZ |       |      | 0.077 fti | 87 | 1.1 | -0.26 |   |      |   |
| DX | BAYR  | VVA8 | 0.087 fti | 87 | 1.1 | 0.71  |   | 1.39 |   |
| DY |       |      | 0.087 fti | 87 | 1.1 | -1.85 |   |      |   |
| DZ |       |      | 0.087 fti | 87 | 1.1 | 0.49  |   |      |   |
| DX | BAYR  | VVA8 | 0.087 fti | 87 | 1.1 | 0.61  |   | 0.26 |   |
| DY |       |      | 0.087 fti | 87 | 1.1 | -0.55 |   |      |   |
| DZ |       |      | 0.087 fti | 87 | 1.1 | -0.31 |   |      |   |
| DX | BAYR  | VVA8 | 0.087 fti | 87 | 1.1 | -0.44 |   | 0.34 |   |
| DY |       |      | 0.087 fti | 87 | 1.1 | 0.78  |   |      |   |
| DZ |       |      | 0.087 fti | 87 | 1.1 | 0.47  |   |      |   |
| DX | BAYR  | VVA8 | 0.087 fti | 87 | 1.1 | -0.63 |   | 1.35 |   |
| DY |       |      | 0.087 fti | 87 | 1.1 | 1.91  |   |      |   |
| DZ |       |      | 0.087 fti | 87 | 1.1 | -0.14 |   |      |   |





|    |      |      |           |    |     |       |      |   |
|----|------|------|-----------|----|-----|-------|------|---|
| DX | BAYR | VVA8 | 0.087 fti | 87 | 1.1 | -0.18 | 0.10 |   |
| DY |      |      | 0.087 fti | 87 | 1.1 | -0.14 |      |   |
| DZ |      |      | 0.087 fti | 87 | 1.1 | 0.50  |      |   |
| DX | BAYR | VVA8 | 0.087 fti | 87 | 1.1 | -0.04 | 0.03 |   |
| DY |      |      | 0.087 fti | 87 | 1.1 | 0.19  |      |   |
| DZ |      |      | 0.087 fti | 87 | 1.1 | 0.20  |      |   |
| DX | BAYR | VVA8 | 0.087 fti | 87 | 1.1 | 0.00  | 0.18 |   |
| DY |      |      | 0.087 fti | 87 | 1.1 | -0.09 |      |   |
| DZ |      |      | 0.087 fti | 87 | 1.1 | -0.72 |      |   |
| DX | BAYR | VVA8 | 0.087 fti | 87 | 1.1 | -0.03 | 0.10 |   |
| DY |      |      | 0.087 fti | 87 | 1.1 | -0.25 |      |   |
| DZ |      |      | 0.087 fti | 87 | 1.1 | -0.49 |      |   |
| DX | BAYR | VVA6 | 0.042 fti | 87 | 1.1 | -0.48 | 0.54 |   |
| DY |      |      | 0.042 fti | 87 | 1.1 | 1.02  |      |   |
| DZ |      |      | 0.042 fti | 87 | 1.1 | -0.60 |      |   |
| DX | BAYR | VVA6 | 0.042 fti | 87 | 1.1 | -0.27 | 0.30 |   |
| DY |      |      | 0.042 fti | 87 | 1.1 | 0.88  |      |   |
| DZ |      |      | 0.042 fti | 87 | 1.1 | -0.24 |      |   |
| DX | BAYR | VVA6 | 0.042 fti | 87 | 1.1 | -0.06 | 0.03 |   |
| DY |      |      | 0.042 fti | 87 | 1.1 | 0.07  |      |   |
| DZ |      |      | 0.042 fti | 87 | 1.1 | -0.29 |      |   |
| DX | BAYR | VVA6 | 0.042 fti | 87 | 1.1 | -0.20 | 0.22 |   |
| DY |      |      | 0.042 fti | 87 | 1.1 | 0.35  |      |   |
| DZ |      |      | 0.042 fti | 87 | 1.1 | -0.71 |      |   |
| DX | BAYR | VVA6 | 0.042 fti | 87 | 1.1 | -0.10 | 0.26 |   |
| DY |      |      | 0.042 fti | 87 | 1.1 | -0.63 |      |   |
| DZ |      |      | 0.042 fti | 87 | 1.1 | 0.61  |      |   |
| DX | BAYR | VVA6 | 0.042 fti | 87 | 1.1 | 0.00  | 0.52 |   |
| DY |      |      | 0.042 fti | 87 | 1.1 | -0.47 |      |   |
| DZ |      |      | 0.042 fti | 87 | 1.1 | 1.16  |      |   |
| DX | BAYR | VVA6 | 0.042 fti | 87 | 1.1 | 0.63  | 0.27 |   |
| DY |      |      | 0.042 fti | 87 | 1.1 | -0.62 |      |   |
| DZ |      |      | 0.042 fti | 87 | 1.1 | -0.17 |      |   |
| DX | BAYR | VVA6 | 0.042 fti | 87 | 1.1 | 0.48  | 0.21 |   |
| DY |      |      | 0.042 fti | 87 | 1.1 | -0.59 |      |   |
| DZ |      |      | 0.042 fti | 87 | 1.1 | 0.25  |      |   |
| DX | BAYR | VVA5 | 0.058 fti | 87 | 1.1 | -0.63 | 1.09 |   |
| DY |      |      | 0.058 fti | 87 | 1.1 | 0.63  |      |   |
| DZ |      |      | 0.058 fti | 87 | 1.1 | -1.57 |      |   |
| DX | BAYR | VVA5 | 0.058 fti | 87 | 1.1 | -0.46 | 0.99 |   |
| DY |      |      | 0.058 fti | 87 | 1.1 | -0.09 |      |   |
| DZ |      |      | 0.058 fti | 87 | 1.1 | -1.66 |      |   |
| DX | BAYR | VVA5 | 0.058 fti | 87 | 1.1 | -0.37 | 0.62 |   |
| DY |      |      | 0.058 fti | 87 | 1.1 | 0.00  |      |   |
| DZ |      |      | 0.058 fti | 87 | 1.1 | -1.31 |      |   |
| DX | BAYR | VVA5 | 0.058 fti | 87 | 1.1 | -0.71 | 0.50 |   |
| DY |      |      | 0.058 fti | 87 | 1.1 | 0.64  |      |   |
| DZ |      |      | 0.058 fti | 87 | 1.1 | -0.77 |      |   |
| DX | BAYR | VVA5 | 0.058 fti | 87 | 1.1 | 0.75  | 0.47 |   |
| DY |      |      | 0.058 fti | 87 | 1.1 | -0.02 |      |   |
| DZ |      |      | 0.058 fti | 87 | 1.1 | 0.92  |      |   |
| DX | BAYR | VVA5 | 0.058 fti | 87 | 1.1 | 0.57  | 1.27 |   |
| DY |      |      | 0.058 fti | 87 | 1.1 | -0.49 |      |   |
| DZ |      |      | 0.058 fti | 87 | 1.1 | 1.80  |      |   |
| DX | BAYR | VVA5 | 0.058 fti | 87 | 1.1 | 0.75  | 1.60 |   |
| DY |      |      | 0.058 fti | 87 | 1.1 | -1.29 |      |   |
| DZ |      |      | 0.058 fti | 87 | 1.1 | 1.60  |      |   |
| DX | BAYR | VVA5 | 0.058 fti | 87 | 1.1 | 0.11  | 0.46 |   |
| DY |      |      | 0.058 fti | 87 | 1.1 | 0.62  |      |   |
| DZ |      |      | 0.058 fti | 87 | 1.1 | 1.00  |      |   |
| DX | BAYR | VVA3 | 0.057 fti | 87 | 1.1 | 0.23  | 4.66 | ⚠ |
| DY |      |      | 0.057 fti | 87 | 1.1 | 2.05  | ⚠    |   |
| DZ |      |      | 0.057 fti | 87 | 1.1 | -3.12 | ⚠    |   |
| DX | BAYR | VVA3 | 0.057 fti | 87 | 1.1 | 2.60  | ⚠    | ⚠ |

|    |      |       |           |    |     |       |      |   |
|----|------|-------|-----------|----|-----|-------|------|---|
| DY |      |       | 0.057 fti | 87 | 1.1 | 1.18  |      |   |
| DZ |      |       | 0.057 fti | 87 | 1.1 | -0.80 |      |   |
| DX | BAYR | VVA3  | 0.057 fti | 87 | 1.1 | 1.35  | 1.40 |   |
| DY |      |       | 0.057 fti | 87 | 1.1 | 0.22  |      |   |
| DZ |      |       | 0.057 fti | 87 | 1.1 | 1.52  |      |   |
| DX | BAYR | VVA3  | 0.057 fti | 87 | 1.1 | -1.09 | 0.42 |   |
| DY |      |       | 0.057 fti | 87 | 1.1 | -0.18 |      |   |
| DZ |      |       | 0.057 fti | 87 | 1.1 | -0.15 |      |   |
| DX | BAYR | VVA3  | 0.057 fti | 87 | 1.1 | -2.20 | 2.64 | ⚠ |
| DY |      |       | 0.057 fti | 87 | 1.1 | -1.68 |      |   |
| DZ |      |       | 0.057 fti | 87 | 1.1 | 0.52  |      |   |
| DX | BAYR | VVA3  | 0.057 fti | 87 | 1.1 | -1.77 | 4.85 | ⚠ |
| DY |      |       | 0.057 fti | 87 | 1.1 | -3.23 |      | ⚠ |
| DZ |      |       | 0.057 fti | 87 | 1.1 | 0.97  |      |   |
| DX | BAYR | VVA3  | 0.057 fti | 87 | 1.1 | 0.51  | 0.40 |   |
| DY |      |       | 0.057 fti | 87 | 1.1 | -0.80 |      |   |
| DZ |      |       | 0.057 fti | 87 | 1.1 | 0.56  |      |   |
| DX | BAYR | VVA3  | 0.057 fti | 87 | 1.1 | 0.37  | 2.10 | ⚠ |
| DY |      |       | 0.057 fti | 87 | 1.1 | 2.43  |      | ⚠ |
| DZ |      |       | 0.057 fti | 87 | 1.1 | 0.49  |      |   |
| DX | BAYR | VVA13 | 0.051 fti | 87 | 1.1 | 0.37  | 0.24 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | -0.65 |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | 0.38  |      |   |
| DX | BAYR | VVA13 | 0.051 fti | 87 | 1.1 | 0.09  | 0.02 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | -0.01 |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | 0.24  |      |   |
| DX | BAYR | VVA13 | 0.051 fti | 87 | 1.1 | 0.36  | 0.15 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | 0.32  |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | -0.47 |      |   |
| DX | BAYR | VVA13 | 0.051 fti | 87 | 1.1 | 0.31  | 0.24 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | 0.36  |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | -0.69 |      |   |
| DX | BAYR | VVA13 | 0.051 fti | 87 | 1.1 | -0.88 | 0.27 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | -0.23 |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | 0.04  |      |   |
| DX | BAYR | VVA13 | 0.051 fti | 87 | 1.1 | -0.37 | 0.26 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | 0.15  |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | 0.78  |      |   |
| DX | BAYR | VVA13 | 0.051 fti | 87 | 1.1 | -0.06 | 0.06 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | 0.07  |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | -0.40 |      |   |
| DX | BAYR | VVA13 | 0.051 fti | 87 | 1.1 | 0.18  | 0.02 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | -0.01 |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | 0.12  |      |   |
| DX | BAYR | VVA11 | 0.049 fti | 87 | 1.1 | -1.18 | 0.55 |   |
| DY |      |       | 0.049 fti | 87 | 1.1 | 0.32  |      |   |
| DZ |      |       | 0.049 fti | 87 | 1.1 | 0.40  |      |   |
| DX | BAYR | VVA11 | 0.049 fti | 87 | 1.1 | -1.41 | 0.96 |   |
| DY |      |       | 0.049 fti | 87 | 1.1 | 0.13  |      |   |
| DZ |      |       | 0.049 fti | 87 | 1.1 | 0.93  |      |   |
| DX | BAYR | VVA11 | 0.049 fti | 87 | 1.1 | -1.82 | 1.30 |   |
| DY |      |       | 0.049 fti | 87 | 1.1 | 0.60  |      |   |
| DZ |      |       | 0.049 fti | 87 | 1.1 | 0.49  |      |   |
| DX | BAYR | VVA11 | 0.049 fti | 87 | 1.1 | -1.75 | 1.17 |   |
| DY |      |       | 0.049 fti | 87 | 1.1 | 0.38  |      |   |
| DZ |      |       | 0.049 fti | 87 | 1.1 | 0.55  |      |   |
| DX | BAYR | VVA11 | 0.049 fti | 87 | 1.1 | 1.74  | 2.05 | ⚠ |
| DY |      |       | 0.049 fti | 87 | 1.1 | -1.69 |      |   |
| DZ |      |       | 0.049 fti | 87 | 1.1 | 0.52  |      |   |
| DX | BAYR | VVA11 | 0.049 fti | 87 | 1.1 | 1.61  | 1.00 |   |
| DY |      |       | 0.049 fti | 87 | 1.1 | -0.64 |      |   |
| DZ |      |       | 0.049 fti | 87 | 1.1 | -0.12 |      |   |
| DX | BAYR | VVA11 | 0.049 fti | 87 | 1.1 | 1.45  | 1.18 |   |
| DY |      |       | 0.049 fti | 87 | 1.1 | 0.30  |      |   |



|    |      |       |           |    |     |       |  |
|----|------|-------|-----------|----|-----|-------|--|
| DZ |      |       | 0.049 fti | 87 | 1.1 | -1.16 |  |
| DX | BAYR | VVA11 | 0.049 fti | 87 | 1.1 | 1.37  | 1.62   |
| DY |      |       | 0.049 fti | 87 | 1.1 | 0.60  |  |
| DZ |      |       | 0.049 fti | 87 | 1.1 | -1.61 |  |
| DX | BAYR | NVA37 | 0.042 fti | 87 | 1.1 | 1.10  | 1.95  |
| DY |      |       | 0.042 fti | 87 | 1.1 | -1.87 |  |
| DZ |      |       | 0.042 fti | 87 | 1.1 | 1.08  |  |
| DX | BAYR | NVA37 | 0.042 fti | 87 | 1.1 | 1.21  | 0.52   |
| DY |      |       | 0.042 fti | 87 | 1.1 | -0.27 |  |
| DZ |      |       | 0.042 fti | 87 | 1.1 | 0.12  |  |
| DX | BAYR | NVA37 | 0.042 fti | 87 | 1.1 | 0.68  | 0.46   |
| DY |      |       | 0.042 fti | 87 | 1.1 | -0.89 |  |
| DZ |      |       | 0.042 fti | 87 | 1.1 | -0.33 |  |
| DX | BAYR | NVA37 | 0.042 fti | 87 | 1.1 | 0.34  | 0.22   |
| DY |      |       | 0.042 fti | 87 | 1.1 | -0.44 |  |
| DZ |      |       | 0.042 fti | 87 | 1.1 | -0.60 |  |
| DX | BAYR | NVA37 | 0.042 fti | 87 | 1.1 | -0.93 | 1.37   |
| DY |      |       | 0.042 fti | 87 | 1.1 | 1.80  |  |
| DZ |      |       | 0.042 fti | 87 | 1.1 | 0.08  |  |
| DX | BAYR | NVA37 | 0.042 fti | 87 | 1.1 | -1.05 | 0.94   |
| DY |      |       | 0.042 fti | 87 | 1.1 | 1.26  |  |
| DZ |      |       | 0.042 fti | 87 | 1.1 | 0.39  |  |
| DX | BAYR | NVA37 | 0.042 fti | 87 | 1.1 | -0.86 | 0.41   |
| DY |      |       | 0.042 fti | 87 | 1.1 | 0.37  |  |
| DZ |      |       | 0.042 fti | 87 | 1.1 | -0.60 |  |
| DX | BAYR | NVA37 | 0.042 fti | 87 | 1.1 | -0.49 | 0.09   |
| DY |      |       | 0.042 fti | 87 | 1.1 | 0.05  |  |
| DZ |      |       | 0.042 fti | 87 | 1.1 | -0.13 |  |
| DX | BAYR | NVA35 | 0.081 fti | 87 | 1.1 | -0.64 | 0.18   |
| DY |      |       | 0.081 fti | 87 | 1.1 | 0.26  |  |
| DZ |      |       | 0.081 fti | 87 | 1.1 | -0.22 |  |
| DX | BAYR | NVA35 | 0.081 fti | 87 | 1.1 | -0.45 | 0.12   |
| DY |      |       | 0.081 fti | 87 | 1.1 | 0.38  |  |
| DZ |      |       | 0.081 fti | 87 | 1.1 | 0.16  |  |
| DX | BAYR | NVA35 | 0.081 fti | 87 | 1.1 | 0.50  | 0.17   |
| DY |      |       | 0.081 fti | 87 | 1.1 | 0.52  |  |
| DZ |      |       | 0.081 fti | 87 | 1.1 | -0.08 |  |
| DX | BAYR | NVA35 | 0.081 fti | 87 | 1.1 | 0.62  | 0.18   |
| DY |      |       | 0.081 fti | 87 | 1.1 | 0.05  |  |
| DZ |      |       | 0.081 fti | 87 | 1.1 | -0.40 |  |
| DX | BAYR | NVA35 | 0.081 fti | 87 | 1.1 | -0.03 | 0.18   |
| DY |      |       | 0.081 fti | 87 | 1.1 | -0.50 |  |
| DZ |      |       | 0.081 fti | 87 | 1.1 | 0.54  |  |
| DX | BAYR | NVA35 | 0.081 fti | 87 | 1.1 | -0.20 | 0.34   |
| DY |      |       | 0.081 fti | 87 | 1.1 | 0.94  |  |
| DZ |      |       | 0.081 fti | 87 | 1.1 | 0.30  |  |
| DX | BAYR | NVA35 | 0.081 fti | 87 | 1.1 | 0.10  | 0.16   |
| DY |      |       | 0.081 fti | 87 | 1.1 | -0.67 |  |
| DZ |      |       | 0.081 fti | 87 | 1.1 | -0.18 |  |
| DX | BAYR | NVA35 | 0.081 fti | 87 | 1.1 | 0.10  | 0.33   |
| DY |      |       | 0.081 fti | 87 | 1.1 | -0.98 |  |
| DZ |      |       | 0.081 fti | 87 | 1.1 | -0.11 |  |
| DX | BAYR | NVA33 | 0.094 fti | 87 | 1.1 | -0.17 | 0.43   |
| DY |      |       | 0.094 fti | 87 | 1.1 | -0.22 |  |
| DZ |      |       | 0.094 fti | 87 | 1.1 | 1.11  |  |
| DX | BAYR | NVA33 | 0.094 fti | 87 | 1.1 | -0.28 | 0.47   |
| DY |      |       | 0.094 fti | 87 | 1.1 | -0.32 |  |
| DZ |      |       | 0.094 fti | 87 | 1.1 | 1.11  |  |
| DX | BAYR | NVA33 | 0.094 fti | 87 | 1.1 | 0.11  | 1.01   |
| DY |      |       | 0.094 fti | 87 | 1.1 | -1.68 |  |
| DZ |      |       | 0.094 fti | 87 | 1.1 | -0.47 |  |
| DX | BAYR | NVA33 | 0.094 fti | 87 | 1.1 | 0.17  | 0.97   |
| DY |      |       | 0.094 fti | 87 | 1.1 | -1.17 |  |
| DZ |      |       | 0.094 fti | 87 | 1.1 | -1.23 |  |

|    |      |       |           |    |     |       |      |   |
|----|------|-------|-----------|----|-----|-------|------|---|
| DX | BAYR | NVA33 | 0.094 fti | 87 | 1.1 | -0.70 | 0.41 |   |
| DY |      |       | 0.094 fti | 87 | 1.1 | 0.82  |      |   |
| DZ |      |       | 0.094 fti | 87 | 1.1 | -0.24 |      |   |
| DX | BAYR | NVA33 | 0.094 fti | 87 | 1.1 | -0.63 | 0.38 |   |
| DY |      |       | 0.094 fti | 87 | 1.1 | 0.86  |      |   |
| DZ |      |       | 0.094 fti | 87 | 1.1 | 0.07  |      |   |
| DX | BAYR | NVA33 | 0.094 fti | 87 | 1.1 | 0.82  | 0.54 |   |
| DY |      |       | 0.094 fti | 87 | 1.1 | 0.98  |      |   |
| DZ |      |       | 0.094 fti | 87 | 1.1 | -0.10 |      |   |
| DX | BAYR | NVA33 | 0.094 fti | 87 | 1.1 | 0.70  | 0.36 |   |
| DY |      |       | 0.094 fti | 87 | 1.1 | 0.73  |      |   |
| DZ |      |       | 0.094 fti | 87 | 1.1 | -0.26 |      |   |
| DX | BAYR | NVA31 | 0.043 fti | 87 | 1.1 | 1.46  | 1.46 |   |
| DY |      |       | 0.043 fti | 87 | 1.1 | -1.50 |      |   |
| DZ |      |       | 0.043 fti | 87 | 1.1 | -0.04 |      |   |
| DX | BAYR | NVA31 | 0.043 fti | 87 | 1.1 | 1.80  | 2.21 | ⚠ |
| DY |      |       | 0.043 fti | 87 | 1.1 | -1.84 |      |   |
| DZ |      |       | 0.043 fti | 87 | 1.1 | -0.06 |      |   |
| DX | BAYR | NVA31 | 0.043 fti | 87 | 1.1 | 0.91  | 0.97 |   |
| DY |      |       | 0.043 fti | 87 | 1.1 | -1.40 |      |   |
| DZ |      |       | 0.043 fti | 87 | 1.1 | -0.38 |      |   |
| DX | BAYR | NVA31 | 0.043 fti | 87 | 1.1 | 0.23  | 0.38 |   |
| DY |      |       | 0.043 fti | 87 | 1.1 | -0.82 |      |   |
| DZ |      |       | 0.043 fti | 87 | 1.1 | -0.65 |      |   |
| DX | BAYR | NVA31 | 0.043 fti | 87 | 1.1 | -1.31 | 2.18 | ⚠ |
| DY |      |       | 0.043 fti | 87 | 1.1 | 1.98  |      | ⚠ |
| DZ |      |       | 0.043 fti | 87 | 1.1 | 0.96  |      |   |
| DX | BAYR | NVA31 | 0.043 fti | 87 | 1.1 | -1.28 | 1.77 |   |
| DY |      |       | 0.043 fti | 87 | 1.1 | 1.48  |      |   |
| DZ |      |       | 0.043 fti | 87 | 1.1 | 1.22  |      |   |
| DX | BAYR | NVA31 | 0.043 fti | 87 | 1.1 | -0.91 | 0.72 |   |
| DY |      |       | 0.043 fti | 87 | 1.1 | 1.14  |      |   |
| DZ |      |       | 0.043 fti | 87 | 1.1 | -0.11 |      |   |
| DX | BAYR | NVA31 | 0.043 fti | 87 | 1.1 | -0.90 | 0.86 |   |
| DY |      |       | 0.043 fti | 87 | 1.1 | 0.95  |      |   |
| DZ |      |       | 0.043 fti | 87 | 1.1 | -0.94 |      |   |
| DX | BAYR | NVA29 | 0.051 fti | 87 | 1.1 | -0.91 | 0.29 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | 0.13  |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | 0.15  |      |   |
| DX | BAYR | NVA29 | 0.051 fti | 87 | 1.1 | -0.67 | 0.30 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | 0.67  |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | 0.12  |      |   |
| DX | BAYR | NVA29 | 0.051 fti | 87 | 1.1 | 0.95  | 0.92 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | 0.52  |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | -1.26 |      |   |
| DX | BAYR | NVA29 | 0.051 fti | 87 | 1.1 | 0.71  | 0.87 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | 0.81  |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | -1.21 |      |   |
| DX | BAYR | NVA29 | 0.051 fti | 87 | 1.1 | -0.65 | 0.24 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | -0.16 |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | 0.51  |      |   |
| DX | BAYR | NVA29 | 0.051 fti | 87 | 1.1 | -0.25 | 0.35 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | 0.31  |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | 0.95  |      |   |
| DX | BAYR | NVA29 | 0.051 fti | 87 | 1.1 | 0.45  | 0.51 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | -1.13 |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | 0.23  |      |   |
| DX | BAYR | NVA29 | 0.051 fti | 87 | 1.1 | 0.36  | 0.57 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | -1.15 |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | 0.51  |      |   |
| DX | BAYR | NVA27 | 0.051 fti | 87 | 1.1 | -0.12 | 0.02 |   |
| DY |      |       | 0.051 fti | 87 | 1.1 | -0.02 |      |   |
| DZ |      |       | 0.051 fti | 87 | 1.1 | -0.22 |      |   |
| DX | BAYR | NVA27 | 0.051 fti | 87 | 1.1 | -0.03 | 0.14 |   |

|    |      |       |           |    |     |       |   |  |
|----|------|-------|-----------|----|-----|-------|---|--|
| DY |      |       | 0.051 fti | 87 | 1.1 | -0.65 |   |  |
| DZ |      |       | 0.051 fti | 87 | 1.1 | -0.04 |   |  |
| DX | BAYR | NVA27 | 0.051 fti | 87 | 1.1 | 0.79  |   | 0.28   |
| DY |      |       | 0.051 fti | 87 | 1.1 | -0.24 |   |  |
| DZ |      |       | 0.051 fti | 87 | 1.1 | -0.40 |   |  |
| DX | BAYR | NVA27 | 0.051 fti | 87 | 1.1 | 0.77  |   | 0.37   |
| DY |      |       | 0.051 fti | 87 | 1.1 | -0.26 |   |  |
| DZ |      |       | 0.051 fti | 87 | 1.1 | -0.68 |   |  |
| DX | BAYR | NVA27 | 0.051 fti | 87 | 1.1 | -1.23 |   | 0.91   |
| DY |      |       | 0.051 fti | 87 | 1.1 | 0.98  |   |  |
| DZ |      |       | 0.051 fti | 87 | 1.1 | 0.50  |   |  |
| DX | BAYR | NVA27 | 0.051 fti | 87 | 1.1 | -1.27 |   | 0.98   |
| DY |      |       | 0.051 fti | 87 | 1.1 | 1.00  |   |  |
| DZ |      |       | 0.051 fti | 87 | 1.1 | 0.57  |   |  |
| DX | BAYR | NVA27 | 0.051 fti | 87 | 1.1 | 0.64  |   | 0.16   |
| DY |      |       | 0.051 fti | 87 | 1.1 | -0.26 |   |  |
| DZ |      |       | 0.051 fti | 87 | 1.1 | 0.13  |   |  |
| DX | BAYR | NVA27 | 0.051 fti | 87 | 1.1 | 0.44  |   | 0.17   |
| DY |      |       | 0.051 fti | 87 | 1.1 | -0.54 |   |  |
| DZ |      |       | 0.051 fti | 87 | 1.1 | 0.13  |   |  |
| DX | BAYR | NVA26 | 0.059 fti | 87 | 1.1 | -0.50 |   | 0.16   |
| DY |      |       | 0.059 fti | 87 | 1.1 | -0.01 |   |  |
| DZ |      |       | 0.059 fti | 87 | 1.1 | 0.49  |   |  |
| DX | BAYR | NVA26 | 0.059 fti | 87 | 1.1 | -0.34 |   | 0.18   |
| DY |      |       | 0.059 fti | 87 | 1.1 | -0.03 |   |  |
| DZ |      |       | 0.059 fti | 87 | 1.1 | 0.64  |   |  |
| DX | BAYR | NVA26 | 0.059 fti | 87 | 1.1 | 0.28  |   | 0.07   |
| DY |      |       | 0.059 fti | 87 | 1.1 | -0.22 |   |  |
| DZ |      |       | 0.059 fti | 87 | 1.1 | 0.30  |   |  |
| DX | BAYR | NVA26 | 0.059 fti | 87 | 1.1 | -0.60 |   | 0.22   |
| DY |      |       | 0.059 fti | 87 | 1.1 | -0.54 |   |  |
| DZ |      |       | 0.059 fti | 87 | 1.1 | 0.07  |   |  |
| DX | BAYR | NVA26 | 0.059 fti | 87 | 1.1 | 0.50  |   | 0.64   |
| DY |      |       | 0.059 fti | 87 | 1.1 | -0.92 |   |  |
| DZ |      |       | 0.059 fti | 87 | 1.1 | -0.92 |   |  |
| DX | BAYR | NVA26 | 0.059 fti | 87 | 1.1 | 0.43  |   | 0.79   |
| DY |      |       | 0.059 fti | 87 | 1.1 | 0.08  |   |  |
| DZ |      |       | 0.059 fti | 87 | 1.1 | -1.48 |   |  |
| DX | BAYR | NVA26 | 0.059 fti | 87 | 1.1 | 0.26  |   | 0.42   |
| DY |      |       | 0.059 fti | 87 | 1.1 | 1.09  |   |  |
| DZ |      |       | 0.059 fti | 87 | 1.1 | 0.11  |   |  |
| DX | BAYR | NVA26 | 0.059 fti | 87 | 1.1 | -0.03 |   | 0.31   |
| DY |      |       | 0.059 fti | 87 | 1.1 | 0.56  |   |  |
| DZ |      |       | 0.059 fti | 87 | 1.1 | 0.79  |   |  |
| DX | BAYR | NVA24 | 0.038 fti | 87 | 1.1 | -0.24 |   | 4.89  |
| DY |      |       | 0.038 fti | 87 | 1.1 | -1.04 |   |  |
| DZ |      |       | 0.038 fti | 87 | 1.1 | 3.68  |  |  |
| DX | BAYR | NVA24 | 0.038 fti | 87 | 1.1 | -0.05 |   | 1.30   |
| DY |      |       | 0.038 fti | 87 | 1.1 | 0.07  |   |  |
| DZ |      |       | 0.038 fti | 87 | 1.1 | 1.97  |  |  |
| DX | BAYR | NVA24 | 0.038 fti | 87 | 1.1 | 1.29  |   | 1.20   |
| DY |      |       | 0.038 fti | 87 | 1.1 | 0.65  |   |  |
| DZ |      |       | 0.038 fti | 87 | 1.1 | -1.23 |   |  |
| DX | BAYR | NVA24 | 0.038 fti | 87 | 1.1 | 1.79  |   | 2.48  |
| DY |      |       | 0.038 fti | 87 | 1.1 | 1.38  |   |  |
| DZ |      |       | 0.038 fti | 87 | 1.1 | -1.52 |   |  |
| DX | BAYR | NVA24 | 0.038 fti | 87 | 1.1 | -0.47 |   | 0.37   |
| DY |      |       | 0.038 fti | 87 | 1.1 | 0.65  |   |  |
| DZ |      |       | 0.038 fti | 87 | 1.1 | -0.69 |   |  |
| DX | BAYR | NVA24 | 0.038 fti | 87 | 1.1 | -1.11 |   | 0.80   |
| DY |      |       | 0.038 fti | 87 | 1.1 | 0.70  |   |  |
| DZ |      |       | 0.038 fti | 87 | 1.1 | -0.83 |   |  |
| DX | BAYR | NVA24 | 0.038 fti | 87 | 1.1 | -0.71 |   | 1.24   |
| DY |      |       | 0.038 fti | 87 | 1.1 | -1.14 |   |  |

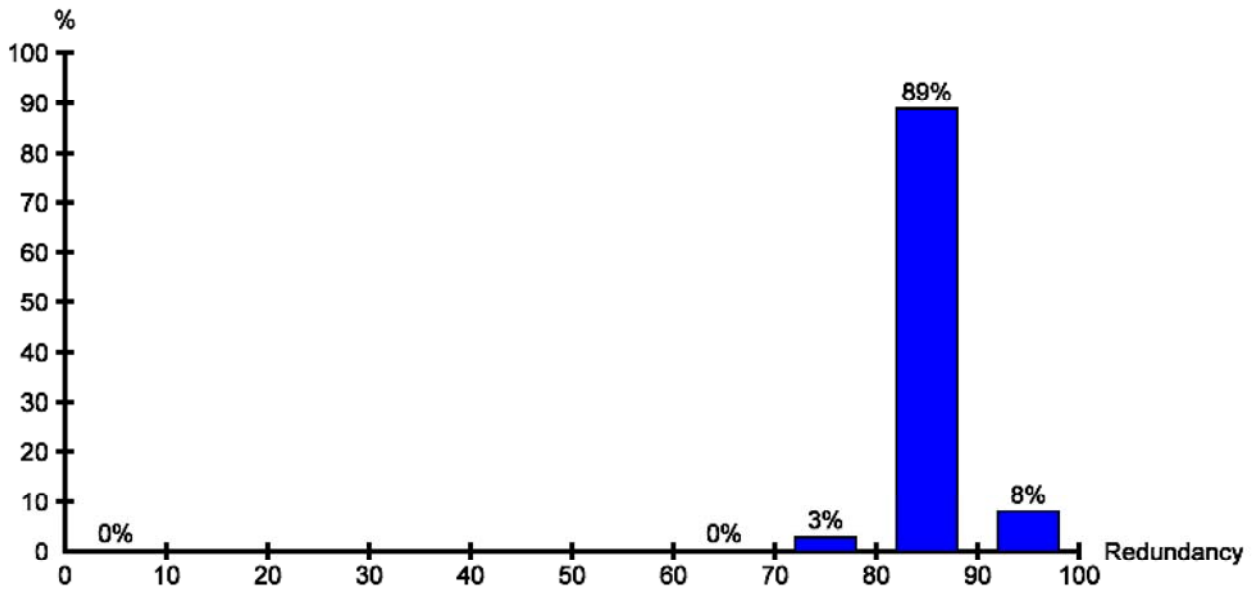
|    |      |       |           |    |     |       |      |   |
|----|------|-------|-----------|----|-----|-------|------|---|
| DZ |      |       | 0.038 fti | 87 | 1.1 | -1.39 |      |   |
| DX | BAYR | NVA24 | 0.038 fti | 87 | 1.1 | -0.50 | 0.63 |   |
| DY |      |       | 0.038 fti | 87 | 1.1 | -1.28 |      |   |
| DZ |      |       | 0.038 fti | 87 | 1.1 | -0.01 |      |   |
| DX | BAYR | NVA21 | 0.056 fti | 87 | 1.1 | 0.66  | 1.38 |   |
| DY |      |       | 0.056 fti | 87 | 1.1 | -1.76 |      |   |
| DZ |      |       | 0.056 fti | 87 | 1.1 | -0.79 |      |   |
| DX | BAYR | NVA21 | 0.056 fti | 87 | 1.1 | 0.75  | 1.07 |   |
| DY |      |       | 0.056 fti | 87 | 1.1 | -1.58 |      |   |
| DZ |      |       | 0.056 fti | 87 | 1.1 | -0.39 |      |   |
| DX | BAYR | NVA21 | 0.056 fti | 87 | 1.1 | 0.12  | 0.09 |   |
| DY |      |       | 0.056 fti | 87 | 1.1 | -0.44 |      |   |
| DZ |      |       | 0.056 fti | 87 | 1.1 | -0.25 |      |   |
| DX | BAYR | NVA21 | 0.056 fti | 87 | 1.1 | 0.25  | 0.35 |   |
| DY |      |       | 0.056 fti | 87 | 1.1 | -0.96 |      |   |
| DZ |      |       | 0.056 fti | 87 | 1.1 | 0.28  |      |   |
| DX | BAYR | NVA21 | 0.056 fti | 87 | 1.1 | -0.52 | 0.71 |   |
| DY |      |       | 0.056 fti | 87 | 1.1 | 1.21  |      |   |
| DZ |      |       | 0.056 fti | 87 | 1.1 | 0.63  |      |   |
| DX | BAYR | NVA21 | 0.056 fti | 87 | 1.1 | -0.52 | 0.75 |   |
| DY |      |       | 0.056 fti | 87 | 1.1 | 1.03  |      |   |
| DZ |      |       | 0.056 fti | 87 | 1.1 | 0.97  |      |   |
| DX | BAYR | NVA21 | 0.056 fti | 87 | 1.1 | -0.40 | 0.44 |   |
| DY |      |       | 0.056 fti | 87 | 1.1 | 1.07  |      |   |
| DZ |      |       | 0.056 fti | 87 | 1.1 | -0.12 |      |   |
| DX | BAYR | NVA21 | 0.056 fti | 87 | 1.1 | -0.33 | 0.76 |   |
| DY |      |       | 0.056 fti | 87 | 1.1 | 1.43  |      |   |
| DZ |      |       | 0.056 fti | 87 | 1.1 | -0.34 |      |   |
| DX | BAYR | NVA20 | 0.039 fti | 87 | 1.1 | -1.17 | 4.98 | ⚠ |
| DY |      |       | 0.039 fti | 87 | 1.1 | -2.74 | ⚠    |   |
| DZ |      |       | 0.039 fti | 87 | 1.1 | 2.46  | ⚠    |   |
| DX | BAYR | NVA20 | 0.039 fti | 87 | 1.1 | -1.64 | 4.17 | ⚠ |
| DY |      |       | 0.039 fti | 87 | 1.1 | -1.83 |      |   |
| DZ |      |       | 0.039 fti | 87 | 1.1 | 2.54  | ⚠    |   |
| DX | BAYR | NVA20 | 0.039 fti | 87 | 1.1 | -0.58 | 0.56 |   |
| DY |      |       | 0.039 fti | 87 | 1.1 | -1.16 |      |   |
| DZ |      |       | 0.039 fti | 87 | 1.1 | 0.07  |      |   |
| DX | BAYR | NVA20 | 0.039 fti | 87 | 1.1 | -0.82 | 0.23 |   |
| DY |      |       | 0.039 fti | 87 | 1.1 | 0.12  |      |   |
| DZ |      |       | 0.039 fti | 87 | 1.1 | -0.12 |      |   |
| DX | BAYR | NVA20 | 0.039 fti | 87 | 1.1 | 1.03  | 5.10 | ⚠ |
| DY |      |       | 0.039 fti | 87 | 1.1 | 2.98  | ⚠    |   |
| DZ |      |       | 0.039 fti | 87 | 1.1 | -2.31 | ⚠    |   |
| DX | BAYR | NVA20 | 0.039 fti | 87 | 1.1 | 1.50  | 1.22 |   |
| DY |      |       | 0.039 fti | 87 | 1.1 | 0.91  |      |   |
| DZ |      |       | 0.039 fti | 87 | 1.1 | -0.75 |      |   |
| DX | BAYR | NVA20 | 0.039 fti | 87 | 1.1 | 1.04  | 0.71 |   |
| DY |      |       | 0.039 fti | 87 | 1.1 | 0.75  |      |   |
| DZ |      |       | 0.039 fti | 87 | 1.1 | -0.71 |      |   |
| DX | BAYR | NVA20 | 0.039 fti | 87 | 1.1 | 0.64  | 0.91 |   |
| DY |      |       | 0.039 fti | 87 | 1.1 | 0.97  |      |   |
| DZ |      |       | 0.039 fti | 87 | 1.1 | -1.17 |      |   |
| DX | BAYR | NVA1  | 0.039 fti | 87 | 1.1 | 1.58  | 1.61 |   |
| DY |      |       | 0.039 fti | 87 | 1.1 | 1.53  |      |   |
| DZ |      |       | 0.039 fti | 87 | 1.1 | -0.11 |      |   |
| DX | BAYR | NVA1  | 0.039 fti | 87 | 1.1 | 1.16  | 2.12 | ⚠ |
| DY |      |       | 0.039 fti | 87 | 1.1 | 0.24  |      |   |
| DZ |      |       | 0.039 fti | 87 | 1.1 | 2.23  | ⚠    |   |
| DX | BAYR | NVA1  | 0.039 fti | 87 | 1.1 | -1.50 | 2.23 | ⚠ |
| DY |      |       | 0.039 fti | 87 | 1.1 | -0.08 |      |   |
| DZ |      |       | 0.039 fti | 87 | 1.1 | -2.10 | ⚠    |   |
| DX | BAYR | NVA1  | 0.039 fti | 87 | 1.1 | -1.58 | 8.49 | ⚠ |
| DY |      |       | 0.039 fti | 87 | 1.1 | 1.13  |      |   |
| DZ |      |       | 0.039 fti | 87 | 1.1 | -4.66 | ⚠    |   |

|    |           |       |           |    |     |       |   |      |
|----|-----------|-------|-----------|----|-----|-------|---|------|
| DX | BAYR      | NVA1  | 0.039 fti | 87 | 1.1 | 0.58  |   | 1.82 |
| DY |           |       | 0.039 fti | 87 | 1.1 | -1.99 | ⚠ |      |
| DZ |           |       | 0.039 fti | 87 | 1.1 | 1.07  |   |      |
| DX | BAYR      | NVA1  | 0.039 fti | 87 | 1.1 | 0.22  |   | 0.68 |
| DY |           |       | 0.039 fti | 87 | 1.1 | -0.90 |   |      |
| DZ |           |       | 0.039 fti | 87 | 1.1 | 1.09  |   |      |
| DX | BAYR      | NVA1  | 0.039 fti | 87 | 1.1 | -0.23 |   | 0.30 |
| DY |           |       | 0.039 fti | 87 | 1.1 | 0.14  |   |      |
| DZ |           |       | 0.039 fti | 87 | 1.1 | 0.90  |   |      |
| DX | BAYR      | NVA1  | 0.039 fti | 87 | 1.1 | -0.22 |   | 0.85 |
| DY |           |       | 0.039 fti | 87 | 1.1 | -0.07 |   |      |
| DZ |           |       | 0.039 fti | 87 | 1.1 | 1.58  |   |      |
| DX | MIDLAND   | NVA34 | 0.053 fti | 87 | 1.1 | 0.20  |   | 1.52 |
| DY |           |       | 0.053 fti | 87 | 1.1 | -1.80 |   |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | -1.14 |   |      |
| DX | MIDLAND   | NVA34 | 0.053 fti | 87 | 1.1 | 0.17  |   | 1.15 |
| DY |           |       | 0.053 fti | 87 | 1.1 | -1.70 |   |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | -0.73 |   |      |
| DX | MIDLAND   | NVA34 | 0.053 fti | 87 | 1.1 | -0.57 |   | 0.42 |
| DY |           |       | 0.053 fti | 87 | 1.1 | -0.21 |   |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | 0.95  |   |      |
| DX | MIDLAND   | NVA34 | 0.053 fti | 87 | 1.1 | -0.61 |   | 0.46 |
| DY |           |       | 0.053 fti | 87 | 1.1 | 0.78  |   |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | 0.62  |   |      |
| DX | MIDLAND   | NVA34 | 0.053 fti | 87 | 1.1 | -0.19 |   | 0.70 |
| DY |           |       | 0.053 fti | 87 | 1.1 | 1.40  |   |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | -0.35 |   |      |
| DX | MIDLAND   | NVA34 | 0.053 fti | 87 | 1.1 | -0.34 |   | 0.43 |
| DY |           |       | 0.053 fti | 87 | 1.1 | 1.03  |   |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | -0.34 |   |      |
| DX | MIDLAND   | NVA34 | 0.053 fti | 87 | 1.1 | 0.66  |   | 0.18 |
| DY |           |       | 0.053 fti | 87 | 1.1 | 0.35  |   |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | 0.02  |   |      |
| DX | MIDLAND   | NVA34 | 0.053 fti | 87 | 1.1 | 0.68  |   | 0.47 |
| DY |           |       | 0.053 fti | 87 | 1.1 | 0.15  |   |      |
| DZ |           |       | 0.053 fti | 87 | 1.1 | 0.96  |   |      |
| DX | VASSAR    | VVA12 | 0.065 fti | 87 | 1.1 | -0.24 |   | 0.21 |
| DY |           |       | 0.065 fti | 87 | 1.1 | 0.10  |   |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | -0.76 |   |      |
| DX | VASSAR    | VVA12 | 0.065 fti | 87 | 1.1 | -0.28 |   | 1.14 |
| DY |           |       | 0.065 fti | 87 | 1.1 | 0.80  |   |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | -1.65 |   |      |
| DX | VASSAR    | VVA12 | 0.065 fti | 87 | 1.1 | -0.18 |   | 1.48 |
| DY |           |       | 0.065 fti | 87 | 1.1 | 0.77  |   |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | -1.95 |   |      |
| DX | VASSAR    | VVA12 | 0.065 fti | 87 | 1.1 | 0.10  |   | 1.88 |
| DY |           |       | 0.065 fti | 87 | 1.1 | 0.96  |   |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | -2.17 | ⚠ |      |
| DX | VASSAR    | VVA12 | 0.065 fti | 87 | 1.1 | 0.48  |   | 1.49 |
| DY |           |       | 0.065 fti | 87 | 1.1 | -1.27 |   |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | 1.62  |   |      |
| DX | VASSAR    | VVA12 | 0.065 fti | 87 | 1.1 | 0.25  |   | 1.24 |
| DY |           |       | 0.065 fti | 87 | 1.1 | -1.01 |   |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | 1.62  |   |      |
| DX | VASSAR    | VVA12 | 0.065 fti | 87 | 1.1 | -0.03 |   | 0.94 |
| DY |           |       | 0.065 fti | 87 | 1.1 | -0.30 |   |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | 1.65  |   |      |
| DX | VASSAR    | VVA12 | 0.065 fti | 87 | 1.1 | -0.11 |   | 0.89 |
| DY |           |       | 0.065 fti | 87 | 1.1 | -0.05 |   |      |
| DZ |           |       | 0.065 fti | 87 | 1.1 | 1.63  |   |      |
| DX | CHESANING | VVA25 | 0.092 fti | 90 | 0.9 | 0.40  |   | 0.15 |
| DY |           |       | 0.092 fti | 90 | 0.9 | 0.37  |   |      |
| DZ |           |       | 0.092 fti | 90 | 0.9 | 0.40  |   |      |
| DX | CHESANING | VVA25 | 0.092 fti | 90 | 0.9 | 0.65  |   | 0.53 |

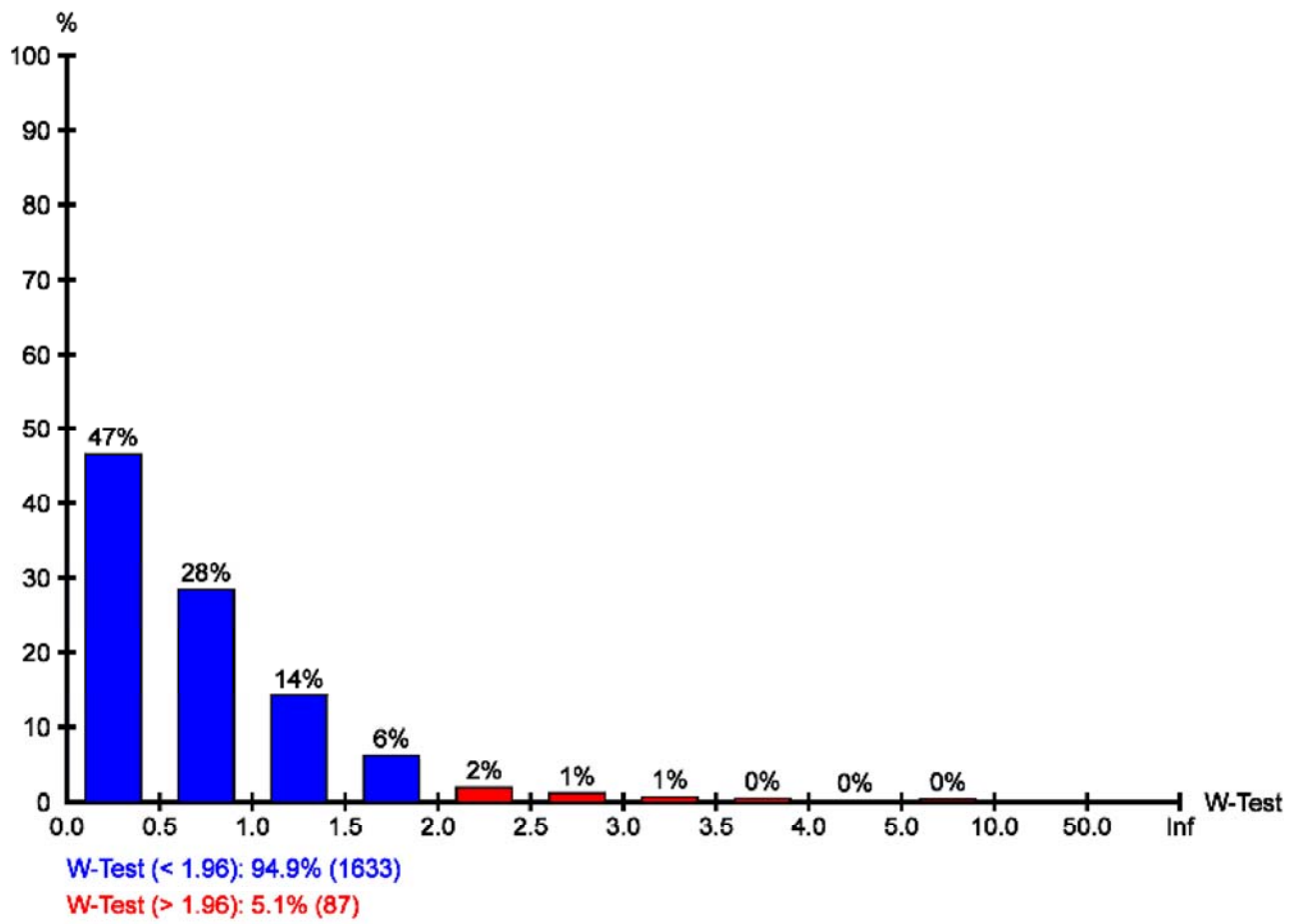
|    |           |       |           |    |     |       |      |
|----|-----------|-------|-----------|----|-----|-------|------|
| DY |           |       | 0.092 fti | 90 | 0.9 | 0.93  |      |
| DZ |           |       | 0.092 fti | 90 | 0.9 | 0.54  |      |
| DX | CHESANING | VVA25 | 0.092 fti | 90 | 0.9 | 0.50  | 0.43 |
| DY |           |       | 0.092 fti | 90 | 0.9 | 0.07  |      |
| DZ |           |       | 0.092 fti | 90 | 0.9 | -1.01 |      |
| DX | CHESANING | VVA25 | 0.092 fti | 90 | 0.9 | 0.69  | 0.44 |
| DY |           |       | 0.092 fti | 90 | 0.9 | 0.05  |      |
| DZ |           |       | 0.092 fti | 90 | 0.9 | -0.91 |      |
| DX | CHESANING | VVA25 | 0.092 fti | 90 | 0.9 | 0.42  | 0.34 |
| DY |           |       | 0.092 fti | 90 | 0.9 | -0.38 |      |
| DZ |           |       | 0.092 fti | 90 | 0.9 | 0.83  |      |
| DX | CHESANING | VVA25 | 0.092 fti | 90 | 0.9 | 0.50  | 0.74 |
| DY |           |       | 0.092 fti | 90 | 0.9 | -0.53 |      |
| DZ |           |       | 0.092 fti | 90 | 0.9 | 1.30  |      |
| DX | CHESANING | VVA25 | 0.092 fti | 90 | 0.9 | 0.58  | 0.61 |
| DY |           |       | 0.092 fti | 90 | 0.9 | -1.05 |      |
| DZ |           |       | 0.092 fti | 90 | 0.9 | 0.62  |      |
| DX | CHESANING | VVA25 | 0.092 fti | 90 | 0.9 | 0.06  | 0.08 |
| DY |           |       | 0.092 fti | 90 | 0.9 | -0.46 |      |
| DZ |           |       | 0.092 fti | 90 | 0.9 | -0.13 |      |
| DX | CHESANING | NVA40 | 0.060 fti | 89 | 0.9 | -0.49 | 0.55 |
| DY |           |       | 0.060 fti | 89 | 0.9 | 1.19  |      |
| DZ |           |       | 0.060 fti | 89 | 0.9 | -0.09 |      |
| DX | CHESANING | NVA40 | 0.060 fti | 89 | 0.9 | -0.32 | 0.34 |
| DY |           |       | 0.060 fti | 89 | 0.9 | 0.93  |      |
| DZ |           |       | 0.060 fti | 89 | 0.9 | -0.25 |      |
| DX | CHESANING | NVA40 | 0.060 fti | 89 | 0.9 | 0.05  | 0.42 |
| DY |           |       | 0.060 fti | 89 | 0.9 | 1.07  |      |
| DZ |           |       | 0.060 fti | 89 | 0.9 | -0.34 |      |
| DX | CHESANING | NVA40 | 0.060 fti | 89 | 0.9 | -0.23 | 0.66 |
| DY |           |       | 0.060 fti | 89 | 0.9 | 1.13  |      |
| DZ |           |       | 0.060 fti | 89 | 0.9 | -0.81 |      |
| DX | CHESANING | NVA40 | 0.060 fti | 89 | 0.9 | -0.60 | 0.57 |
| DY |           |       | 0.060 fti | 89 | 0.9 | 0.84  |      |
| DZ |           |       | 0.060 fti | 89 | 0.9 | -0.80 |      |
| DX | CHESANING | NVA40 | 0.060 fti | 89 | 0.9 | -0.16 | 1.11 |
| DY |           |       | 0.060 fti | 89 | 0.9 | -1.67 |      |
| DZ |           |       | 0.060 fti | 89 | 0.9 | 0.72  |      |
| DX | CHESANING | NVA40 | 0.060 fti | 89 | 0.9 | 0.22  | 1.15 |
| DY |           |       | 0.060 fti | 89 | 0.9 | -1.49 |      |
| DZ |           |       | 0.060 fti | 89 | 0.9 | 1.09  |      |
| DX | CHESANING | NVA40 | 0.060 fti | 89 | 0.9 | -0.34 | 0.15 |
| DY |           |       | 0.060 fti | 89 | 0.9 | -0.57 |      |
| DZ |           |       | 0.060 fti | 89 | 0.9 | 0.15  |      |
| DX | CHESANING | NVA40 | 0.060 fti | 89 | 0.9 | -0.63 | 0.51 |
| DY |           |       | 0.060 fti | 89 | 0.9 | -0.76 |      |
| DZ |           |       | 0.060 fti | 89 | 0.9 | -0.74 |      |
| DX | BAYR      | VVA10 | 0.079 fti | 88 | 1.0 | 0.28  | 0.35 |
| DY |           |       | 0.079 fti | 88 | 1.0 | 0.00  |      |
| DZ |           |       | 0.079 fti | 88 | 1.0 | -0.99 |      |
| DX | BAYR      | VVA10 | 0.079 fti | 88 | 1.0 | 0.32  | 0.57 |
| DY |           |       | 0.079 fti | 88 | 1.0 | -0.60 |      |
| DZ |           |       | 0.079 fti | 88 | 1.0 | -1.12 |      |
| DX | BAYR      | VVA10 | 0.079 fti | 88 | 1.0 | 0.31  | 0.22 |
| DY |           |       | 0.079 fti | 88 | 1.0 | -0.01 |      |
| DZ |           |       | 0.079 fti | 88 | 1.0 | -0.74 |      |
| DX | BAYR      | VVA10 | 0.079 fti | 88 | 1.0 | -0.17 | 0.42 |
| DY |           |       | 0.079 fti | 88 | 1.0 | 1.10  |      |
| DZ |           |       | 0.079 fti | 88 | 1.0 | 0.11  |      |
| DX | BAYR      | VVA10 | 0.079 fti | 88 | 1.0 | -0.16 | 0.62 |
| DY |           |       | 0.079 fti | 88 | 1.0 | 1.33  |      |
| DZ |           |       | 0.079 fti | 88 | 1.0 | -0.25 |      |
| DX | BAYR      | VVA10 | 0.079 fti | 88 | 1.0 | 0.17  | 1.30 |
| DY |           |       | 0.079 fti | 88 | 1.0 | 0.40  |      |
| DZ |           |       | 0.079 fti | 88 | 1.0 | 1.93  |      |

|    |      |       |           |    |     |       |      |
|----|------|-------|-----------|----|-----|-------|------|
|    | BAYR | VVA10 | 0.079 fti | 88 | 1.0 | 0.05  | 1.50 |
| DY |      |       | 0.079 fti | 88 | 1.0 | -0.29 |      |
| DZ |      |       | 0.079 fti | 88 | 1.0 | 2.10  | ⚠    |
| DX | BAYR | VVA10 | 0.079 fti | 88 | 1.0 | -0.29 | 0.95 |
| DY |      |       | 0.079 fti | 88 | 1.0 | -1.66 |      |
| DZ |      |       | 0.079 fti | 88 | 1.0 | -0.09 |      |
| DX | BAYR | VVA10 | 0.079 fti | 88 | 1.0 | -0.51 | 0.41 |
| DY |      |       | 0.079 fti | 88 | 1.0 | -0.29 |      |
| DZ |      |       | 0.079 fti | 88 | 1.0 | -0.94 |      |

**Redundancy:**

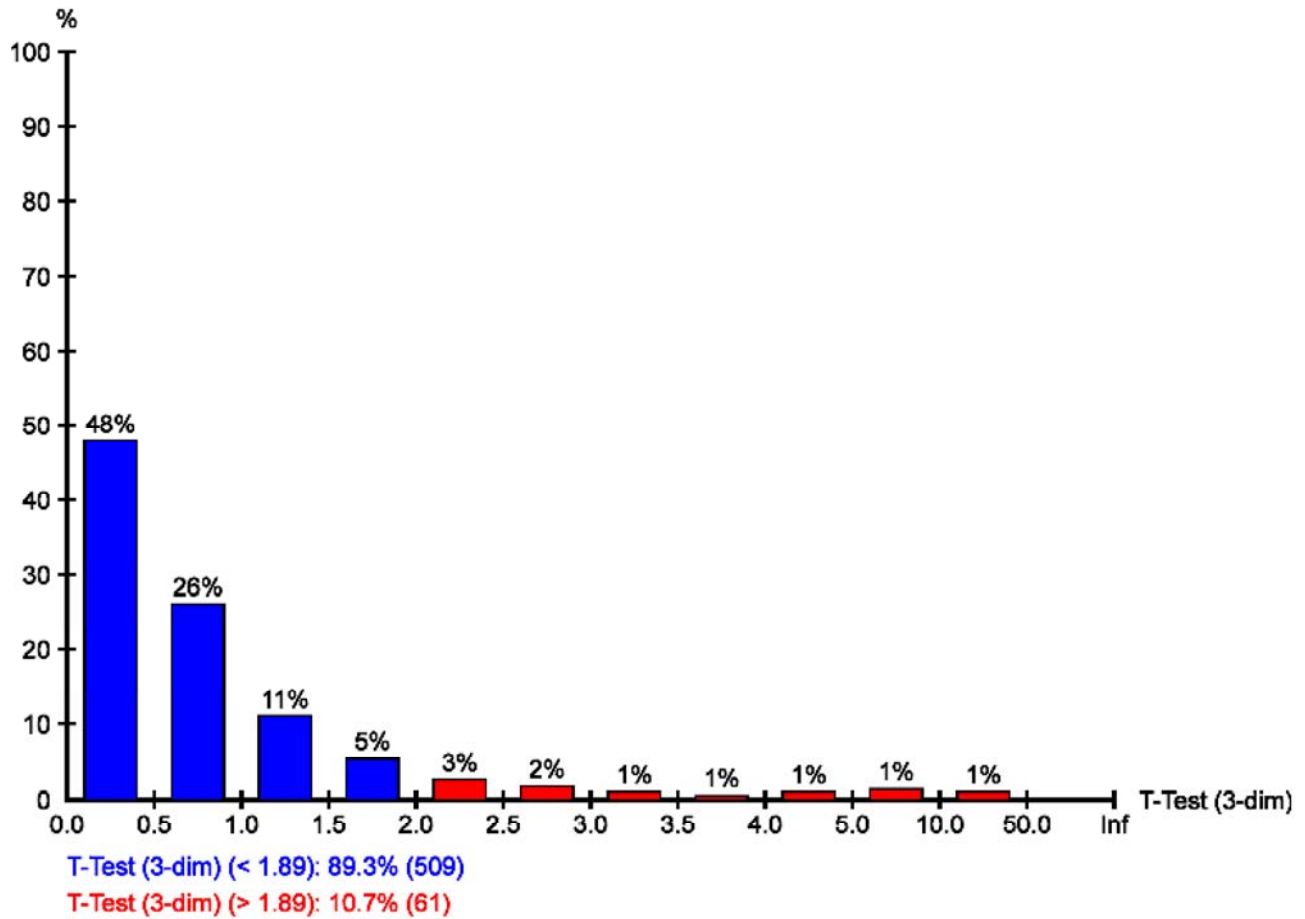


**W-Test:**



T-Test (3-dimensional):





**Estimated Errors (Observations)**

**Estimated Errors For Observations With Rejected W-Tests (max 10)**

|    | Station   | Target | W-Test | Fact | Est err    |
|----|-----------|--------|--------|------|------------|
| DY | VVA25     | VVA2   | -8.47  | 4.3  | -0.127 fti |
| DY | VVA25     | VVA2   | -6.79  | 3.5  | -0.102 fti |
| DY | VVA25     | VVA2   | 6.28   | 3.2  | 0.095 fti  |
| DY | VVA25     | VVA2   | 5.59   | 2.9  | 0.084 fti  |
| DY | VVA25     | VVA2   | -5.40  | 2.8  | -0.081 fti |
| DZ | VVA25     | VVA2   | 5.34   | 2.7  | 0.080 fti  |
| DZ | BAYR      | NVA1   | -4.66  | 2.4  | -0.065 fti |
| DY | BIRCH RUN | VVA4   | -4.02  | 2.1  | -0.064 fti |
| DY | VVA25     | VVA2   | 3.94   | 2.0  | 0.059 fti  |
| DZ | BAYR      | NVA24  | 3.68   | 1.9  | 0.050 fti  |

**Estimated Errors For Observations With Rejected Antenna Hgt W-Tests (max 10)**

| Station   | Target | W-Test | Fact | MDB [fti] | Est ant err [fti] |
|-----------|--------|--------|------|-----------|-------------------|
| CHESANING | NVA12  | 3.01   | 1.5  | 0.066     | 0.071             |
| CHESANING | NVA17  | -2.93  | 1.5  | 0.069     | -0.072            |
| BIRCH RUN | VVA4   | 4.02   | 2.1  | 0.045     | 0.064             |
| BIRCH RUN | VVA16  | 3.00   | 1.5  | 0.053     | 0.057             |
| VVA25     | VVA2   | -3.70  | 1.9  | 0.042     | -0.056            |
| VVA25     | VVA1   | -3.85  | 2.0  | 0.047     | -0.065            |
| BAYR      | VVA3   | -3.61  | 1.8  | 0.057     | -0.074            |
| BAYR      | NVA20  | 3.58   | 1.8  | 0.039     | 0.050             |
| BAYR      | NVA20  | 2.94   | 1.5  | 0.039     | 0.041             |
| BAYR      | NVA20  | -3.66  | 1.9  | 0.039     | -0.051            |

**Estimated Errors For Observations With Rejected T-Tests (max 10)**

|    | <b>Station</b> | <b>Target</b> | <b>T-Test</b> | <b>Fact</b> | <b>Est err</b> |
|----|----------------|---------------|---------------|-------------|----------------|
| DX | VVA25          | VVA2          | 24.46         | 3.6         | 0.019 fti      |
| DY |                |               |               |             | -0.127 fti     |
| DZ |                |               |               |             | -0.006 fti     |
| DX | VVA25          | VVA2          | 15.47         | 2.9         | 0.000 fti      |
| DY |                |               |               |             | -0.102 fti     |
| DZ |                |               |               |             | 0.009 fti      |
| DX | VVA25          | VVA2          | 13.29         | 2.7         | -0.009 fti     |
| DY |                |               |               |             | 0.095 fti      |
| DZ |                |               |               |             | -0.003 fti     |
| DX | VVA25          | VVA2          | 10.68         | 2.4         | 0.025 fti      |
| DY |                |               |               |             | -0.081 fti     |
| DZ |                |               |               |             | -0.006 fti     |
| DX | VVA25          | VVA2          | 10.53         | 2.4         | -0.004 fti     |
| DY |                |               |               |             | 0.084 fti      |
| DZ |                |               |               |             | -0.008 fti     |
| DX | VVA25          | VVA2          | 10.20         | 2.3         | -0.009 fti     |
| DY |                |               |               |             | 0.020 fti      |
| DZ |                |               |               |             | 0.080 fti      |
| DX | VVA25          | VVA2          | 9.72          | 2.3         | -0.041 fti     |
| DY |                |               |               |             | 0.053 fti      |
| DZ |                |               |               |             | -0.046 fti     |
| DX | BAYR           | NVA1          | 8.49          | 2.1         | -0.022 fti     |
| DY |                |               |               |             | 0.016 fti      |
| DZ |                |               |               |             | -0.065 fti     |
| DX | BIRCH RUN      | VVA4          | 7.23          | 2.0         | -0.024 fti     |
| DY |                |               |               |             | -0.064 fti     |
| DZ |                |               |               |             | 0.029 fti      |
| DX | BIRCH RUN      | VVA4          | 6.64          | 1.9         | 0.037 fti      |
| DY |                |               |               |             | 0.051 fti      |
| DZ |                |               |               |             | -0.033 fti     |