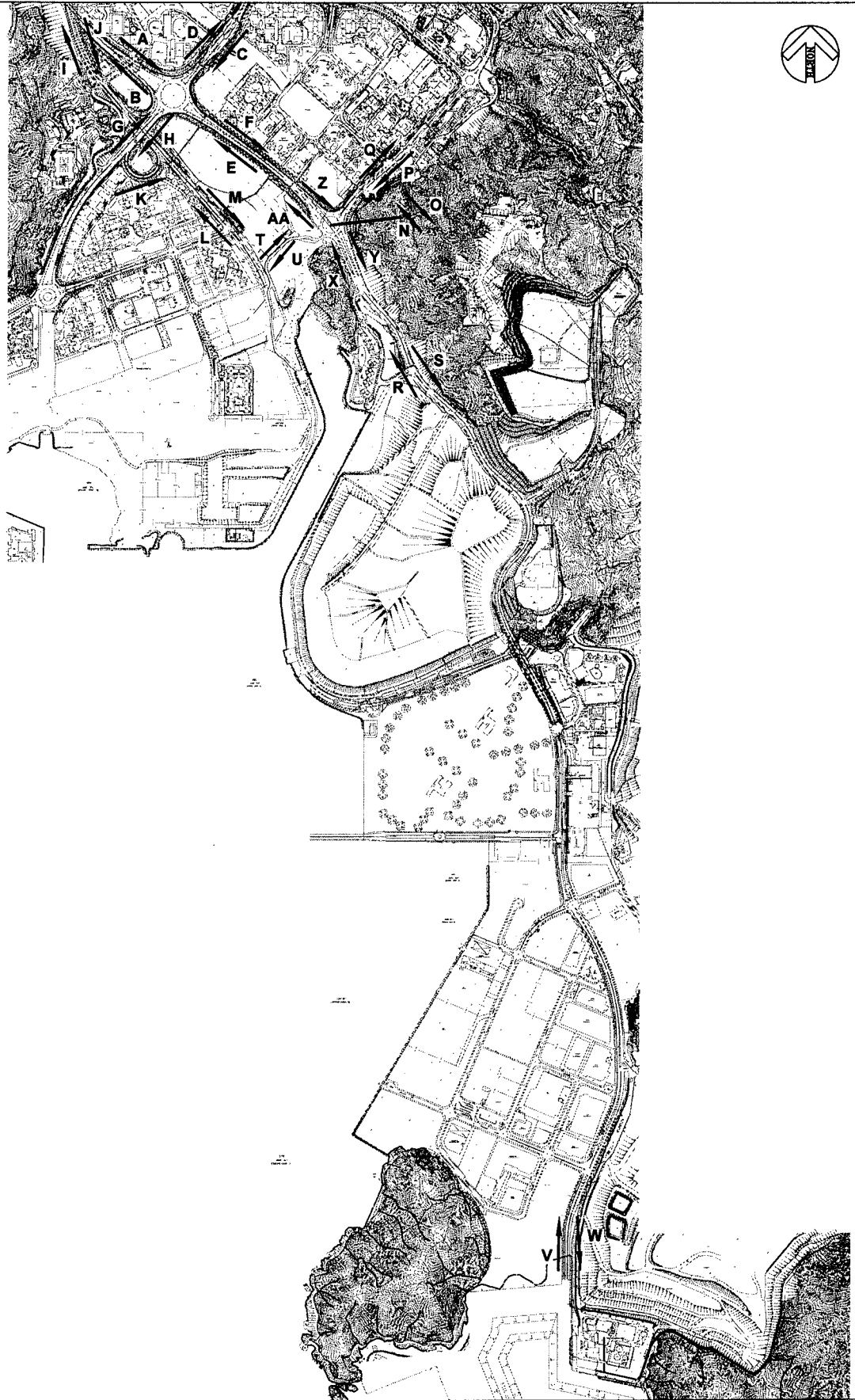


**Appendix 5-2**  
**Worst-case 2004 Traffic Forecast**  
**Operational Phase Traffic Noise Impact Assessment**



**CH2M HILL (China) Limited**

*in association with  
MVA Hong Kong Limited  
ACL Asia Limited*

AGREEMENT NO. CE 57/2001

**ENVIRONMENTAL AND TRAFFIC IMPACT ASSESSMENT STUDY  
FOR FILL BANK AT TSEUNG KWAN O AREA 137 - INVESTIGATION**



**土木工程署  
Civil Engineering  
Department**

**Road Sections considered in the Assessment**

|          |     |       |          |
|----------|-----|-------|----------|
| SCALE    | NTS | DATE  | Mar 2002 |
| DESIGNED | AW  | DRAWN | BH       |
| APPENDIX |     |       | REV      |
|          |     |       | 0        |

2004 With Fill Bank Scenario - 1500 veh/day (Contract F - Traffic Diversion Stage 4)

With Fill Bank

| Movement | AM Peak          |           |       | PM Peak          |           |       | Noon Peak        |           |       |
|----------|------------------|-----------|-------|------------------|-----------|-------|------------------|-----------|-------|
|          | 2004 flows (vph) | Non-heavy | Heavy | 2004 flows (vph) | Non-heavy | Heavy | 2004 flows (vph) | Non-heavy | Heavy |
| A        | 2345             | 60%       | 40%   | 3000             | 56%       | 44%   | 1540             | 41%       | 59%   |
| B        | 3125             | 57%       | 43%   | 2450             | 55%       | 45%   | 1995             | 44%       | 56%   |
| C        | 690              | 63%       | 37%   | 440              | 68%       | 32%   | 580              | 64%       | 36%   |
| D        | 965              | 70%       | 30%   | 1390             | 61%       | 39%   | 745              | 57%       | 43%   |
| E        | 1630             | 64%       | 36%   | 1015             | 54%       | 46%   | 1000             | 35%       | 65%   |
| F        | 1030             | 57%       | 43%   | 1165             | 42%       | 58%   | 710              | 23%       | 77%   |
| G        | 900              | 64%       | 36%   | 800              | 60%       | 40%   | 740              | 50%       | 50%   |
| H        | 1215             | 61%       | 39%   | 1275             | 48%       | 52%   | 785              | 45%       | 55%   |
| I        | 705              | 51%       | 49%   | 255              | 53%       | 47%   | 645              | 50%       | 50%   |
| J        | 2000             | 66%       | 34%   | 2130             | 54%       | 46%   | 1155             | 65%       | 35%   |
| K        | 215              | 48%       | 52%   | 175              | 52%       | 48%   | 215              | 46%       | 54%   |
| L        | 490              | 55%       | 45%   | 75               | 52%       | 48%   | 470              | 55%       | 45%   |
| M        | 1080             | 71%       | 29%   | 700              | 72%       | 28%   | 635              | 70%       | 30%   |
| N        | 655              | 25%       | 75%   | 745              | 40%       | 60%   | 620              | 20%       | 80%   |
| O        | 750              | 62%       | 38%   | 670              | 23%       | 77%   | 570              | 21%       | 79%   |
| P        | 1190             | 69%       | 31%   | 790              | 60%       | 40%   | 775              | 48%       | 52%   |
| Q        | 780              | 63%       | 37%   | 900              | 63%       | 37%   | 560              | 44%       | 56%   |
| R        | 1280             | 48%       | 52%   | 1775             | 47%       | 53%   | 1145             | 27%       | 73%   |
| S        | 1365             | 62%       | 38%   | 1145             | 28%       | 72%   | 1130             | 25%       | 75%   |
| T        | 1285             | 69%       | 31%   | 835              | 59%       | 41%   | 860              | 48%       | 52%   |
| U        | 1060             | 64%       | 36%   | 1110             | 63%       | 37%   | 745              | 45%       | 55%   |
| V        | 135              | 7%        | 93%   | 230              | 10%       | 90%   | 275              | 2%        | 98%   |
| W        | 155              | 14%       | 86%   | 145              | 2%        | 98%   | 290              | 5%        | 95%   |
| X        | 625              | 72%       | 28%   | 1030             | 52%       | 48%   | 525              | 35%       | 65%   |
| Y        | 620              | 60%       | 40%   | 475              | 34%       | 66%   | 560              | 28%       | 72%   |
| Z        | 280              | 43%       | 57%   | 495              | 67%       | 33%   | 140              | 38%       | 62%   |
| AA       | 975              | 90%       | 10%   | 270              | 90%       | 10%   | 380              | 59%       | 41%   |

2004 "No Go" Scenario - 500 veh/day to SENT Landfill (Contract F - Traffic Diversion Stage 4)

Without Fill Bank

| Movement | AM Peak          |           |       | PM Peak          |           |       | Noon Peak        |           |       |
|----------|------------------|-----------|-------|------------------|-----------|-------|------------------|-----------|-------|
|          | 2004 flows (vph) | Non-heavy | Heavy | 2004 flows (vph) | Non-heavy | Heavy | 2004 flows (vph) | Non-heavy | Heavy |
| A        | 2305             | 61%       | 39%   | 2945             | 57%       | 43%   | 1430             | 44%       | 56%   |
| B        | 3085             | 58%       | 42%   | 2395             | 56%       | 44%   | 1885             | 47%       | 53%   |
| C        | 690              | 63%       | 37%   | 440              | 68%       | 32%   | 580              | 64%       | 36%   |
| D        | 965              | 70%       | 30%   | 1390             | 61%       | 39%   | 745              | 57%       | 43%   |
| E        | 1585             | 66%       | 34%   | 950              | 58%       | 42%   | 870              | 40%       | 60%   |
| F        | 990              | 60%       | 40%   | 1110             | 44%       | 56%   | 600              | 27%       | 73%   |
| G        | 900              | 64%       | 36%   | 800              | 60%       | 40%   | 740              | 50%       | 50%   |
| H        | 1210             | 61%       | 39%   | 1265             | 48%       | 52%   | 765              | 46%       | 54%   |
| I        | 700              | 51%       | 49%   | 250              | 54%       | 46%   | 635              | 51%       | 49%   |
| J        | 1995             | 66%       | 34%   | 2125             | 54%       | 46%   | 1145             | 66%       | 34%   |
| K        | 210              | 49%       | 51%   | 170              | 53%       | 47%   | 205              | 48%       | 52%   |
| L        | 490              | 55%       | 45%   | 75               | 52%       | 48%   | 470              | 55%       | 45%   |
| M        | 1075             | 71%       | 29%   | 695              | 73%       | 27%   | 625              | 71%       | 29%   |
| N        | 610              | 27%       | 73%   | 680              | 43%       | 57%   | 490              | 25%       | 75%   |
| O        | 710              | 66%       | 34%   | 615              | 25%       | 75%   | 460              | 26%       | 74%   |
| P        | 1185             | 70%       | 30%   | 785              | 60%       | 40%   | 760              | 49%       | 51%   |
| Q        | 775              | 63%       | 37%   | 895              | 63%       | 37%   | 545              | 45%       | 55%   |
| R        | 1225             | 50%       | 50%   | 1695             | 49%       | 51%   | 990              | 31%       | 69%   |
| S        | 1310             | 64%       | 36%   | 1065             | 30%       | 70%   | 975              | 29%       | 71%   |
| T        | 1275             | 70%       | 30%   | 820              | 60%       | 40%   | 835              | 49%       | 51%   |
| U        | 1055             | 64%       | 36%   | 1105             | 64%       | 36%   | 740              | 46%       | 54%   |
| V        | 50               | 19%       | 81%   | 105              | 23%       | 77%   | 35               | 19%       | 81%   |
| W        | 70               | 32%       | 68%   | 20               | 12%       | 88%   | 50               | 32%       | 68%   |
| X        | 620              | 73%       | 27%   | 1015             | 53%       | 47%   | 500              | 37%       | 63%   |
| Y        | 605              | 62%       | 38%   | 450              | 36%       | 64%   | 515              | 31%       | 69%   |
| Z        | 280              | 43%       | 57%   | 495              | 67%       | 33%   | 140              | 38%       | 62%   |
| AA       | 975              | 90%       | 10%   | 270              | 90%       | 10%   | 380              | 59%       | 41%   |

**2004 Hourly Additional Vehicle Flows Associated with the Fill Bank Operation**

| Movement | AM Peak          | PM Peak          | Fill Bank Peak   |
|----------|------------------|------------------|------------------|
|          | 2004 flows (vph) | 2004 flows (vph) | 2004 flows (vph) |
| A        | 40               | 55               | 110              |
| B        | 40               | 55               | 110              |
| C        | 0                | 0                | 0                |
| D        | 0                | 0                | 0                |
| E        | 45               | 65               | 130              |
| F        | 40               | 55               | 110              |
| G        | 0                | 0                | 0                |
| H        | 5                | 10               | 20               |
| I        | 5                | 5                | 10               |
| J        | 5                | 5                | 10               |
| K        | 5                | 5                | 10               |
| L        | 0                | 0                | 0                |
| M        | 5                | 5                | 10               |
| N        | 45               | 65               | 130              |
| O        | 40               | 55               | 110              |
| P        | 5                | 5                | 15               |
| Q        | 5                | 5                | 15               |
| R        | 55               | 80               | 155              |
| S        | 55               | 80               | 155              |
| T        | 10               | 15               | 25               |
| U        | 5                | 5                | 5                |
| V        | 85               | 125              | 240              |
| W        | 85               | 125              | 240              |
| X        | 5                | 15               | 25               |
| Y        | 15               | 25               | 45               |
| Z        | 0                | 0                | 0                |
| AA       | 0                | 0                | 0                |