

# **APPENDIX H - TRAFFIC CALCULATIONS**

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**TABLE 1**  
**Traffic Data for the AM Peak Hour**

| Roadway Segment               | Applicable Ponds          | Year of Count | North Bound or East Bound Direction |  |   |   |                                    | South Bound or West Bound Direction |                                    |  |   |   |                                    |                          |
|-------------------------------|---------------------------|---------------|-------------------------------------|--|---|---|------------------------------------|-------------------------------------|------------------------------------|--|---|---|------------------------------------|--------------------------|
|                               |                           |               | Traffic Count (AM Pk) <sup>a</sup>  | 2010 Adjusted Traffic Count (AM Pk) <sup>b</sup> | Max Daily Const' Trips (AM Pk) <sup>c</sup> | 2010 Total Traffic (AM Pk) <sup>d</sup> | Lane Capacity (AM Pk) <sup>e</sup> | Volume to Capacity Ratio            | Traffic Count (AM Pk) <sup>a</sup> | 2010 Adjusted Traffic Count (AM Pk) <sup>b</sup> | Max Daily Const' Trips (AM Pk) <sup>c</sup> | 2010 Total Traffic (AM Pk) <sup>d</sup> | Lane Capacity (AM Pk) <sup>e</sup> | Volume to Capacity Ratio |
| Highway 12 at Llano Road      | KF, KF2, BF1, BF2, and AF | 2001          | na <sup>f</sup>                     |  |   |   |                                    |                                     | na                                 |  |   |   |                                    |                          |
| Llano Rd at Ludwig Ave        | BF1, BF2, and AF          | 2001          | 219                                 | 241  | 33  | 274                                     | 1,600                              | 0.17                                | 256                                | 282  | 33  | 315                                     | 1,600                              | 0.20                     |
| Occidental Rd near Sanford Rd | KF1 and KF2               | 2001          | 492                                 | 541  | 33  | 574                                     | 1,200                              | 0.48                                | 266                                | 293  | 33  | 326                                     | 1,200                              | 0.27                     |
| Todd Road at Stony Point Rd   | BF1, BF2, and AF          | 2001          | 312                                 | 343  | 33  | 376                                     | 1,200                              | 0.31                                | 219                                | 241  | 33  | 274                                     | 1,200                              | 0.23                     |

Notes:

<sup>a</sup> Traffic counts were obtained from Appendix 7.6 of the Sonoma County General Plan 2020 Draft EIR.

<sup>b</sup> Traffic counts were adjusted to approximate year 2010 volumes using ABAG growth rates.

<sup>c</sup> Peak hour morning trips were estimated at 10 percent of peak daily construction trips.

<sup>d</sup> Sum of adjusted 2010 traffic counts and peak hour morning trips.

<sup>e</sup> Roadway capacities were obtained from Appendix 7.6 of the Sonoma County General Plan 2020 Draft EIR.

<sup>f</sup> Traffic counts not available for Highway 12 at Llano Road during the AM Peak Hour.

TABLE 2  
Traffic Data for the PM Peak Hour

| Location                      | Applicable Ponds          | Year of Count | North Bound or East Bound Direction |  |   |   |                                    |                          | South Bound or West Bound Direction |  |   |   |                                    |                          |
|-------------------------------|---------------------------|---------------|-------------------------------------|--|---|---|------------------------------------|--------------------------|-------------------------------------|--|---|---|------------------------------------|--------------------------|
|                               |                           |               | Traffic Count (PM Pk) <sup>a</sup>  | 2010 Adjusted Traffic Count (PM Pk) <sup>b</sup> | Max Daily Const' Trips (PM Pk) <sup>c</sup> | 2010 Total Traffic (PM Pk) <sup>d</sup> | Lane Capacity (PM Pk) <sup>e</sup> | Volume to Capacity Ratio | Traffic Count (PM Pk) <sup>a</sup>  | 2010 Adjusted Traffic Count (PM Pk) <sup>b</sup> | Max Daily Const' Trips (PM Pk) <sup>c</sup> | 2010 Total Traffic (PM Pk) <sup>d</sup> | Lane Capacity (PM Pk) <sup>e</sup> | Volume to Capacity Ratio |
| Highway 12 at Llano Road      | KF, KF2, BF1, BF2, and AF | 2001          | 1,523                               | 1675   | 10  | 1685                                    | 1,280                              | 1.32                     | 921                                 | 1013   | 10  | 1023                                    | 1,280                              | 0.80                     |
| Llano Rd at Ludwig Ave        | BF1, BF2, and AF          | 2001          | 472                                 | 519  | 10  | 529                                     | 1,600                              | 0.33                     | 271                                 | 298  | 10  | 308                                     | 1,600                              | 0.19                     |
| Occidental Rd near Sanford Rd | KF1 and KF2               | 2001          | 458                                 | 504  | 10  | 514                                     | 1,200                              | 0.43                     | 852                                 | 937  | 10  | 947                                     | 1,200                              | 0.79                     |
| Todd Road at Stony Point Rd   | BF1, BF2, and AF          | 2001          | 339                                 | 373  | 10  | 383                                     | 1,200                              | 0.32                     | 332                                 | 365  | 10  | 375                                     | 1,200                              | 0.31                     |

Notes:

<sup>a</sup> Traffic counts were obtained from Appendix 7.6 of the Sonoma County General Plan 2020 Draft EIR.

<sup>b</sup> Traffic counts were adjusted to approximate year 2010 volumes using ABAG growth rates.

<sup>c</sup> Peak hour evening trips were estimated at 3 percent of peak daily construction trips.

<sup>d</sup> Sum of adjusted 2010 traffic counts and peak hour evening trips.

<sup>e</sup> Roadway capacities were obtained from Appendix 7.6 of the Sonoma County General Plan 2020 Draft EIR.