

November 21, 2016

Mr. John Munter  
Munter Enterprises, Inc.  
881 Murray Road  
Middle Grove, NY 12850

**RE: Traffic Evaluation, Slack Chemical Company Expansion, WJ Grande Industrial Park, City of Saratoga Springs, Saratoga County, New York: CM Project 112-210**

Dear Mr. Munter:

Creighton Manning Engineering, LLP (CM) has conducted a traffic assessment for the expansion of the *Slack Chemical Company* facility currently located in a 26,120 square foot (SF) building at 3 Unlimited Drive (southeast quadrant of the Cady Hill Boulevard/Grande Boulevard/Duplainville Road intersection) within the *WJ Grande Industrial Park*. The proposed project consists of a 29,990 SF expansion of the current facility in two attached structures. Access to the site will be maintained from Unlimited Drive via Cady Hill Boulevard.

**A. Traffic Forecasts & Assessment**

Site Generated Traffic

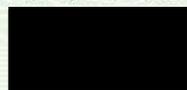
Trip generation determines the quantity of traffic expected to travel to/from a project site. The Institute of Transportation Engineers (ITE) *Trip Generation, 9<sup>th</sup> edition*, provides trip generation data for various land uses based upon studies of similar existing developments located across the country. Morning and afternoon peak hour trips were estimated for the proposed expansion using ITE land use code 150 for Warehousing as shown in Table 1. Table 1 also shows the trip generation at the existing 26, 120 SF facility to provide a summary of the peak hour trips for the total site after the expansion is complete.

**Table 1 – Trip Generation Summary**

Land Use	AM Peak Hour			PM Peak Hour		
	Enter	Exit	Total	Enter	Exit	Total
26,120 SF Existing Facility	6	2	8	2	6	8
<b>29,990 SF Proposed Expansion (New Trips)</b>	<b>7</b>	<b>2</b>	<b>9</b>	<b>2</b>	<b>8</b>	<b>10</b>
Total Trips	13	4	17	4	14	18

The trip generation summary shown in Table 1 indicates that expanded *Slack Chemical Company* facility will generate a total of 17 AM peak hour vehicle trips (13 entering and 4 exiting) and a total of 18 PM peak hour vehicle tips (4 entering and 14 exiting). The increase in peak hour traffic when compared to the current site traffic will be 9 AM peak hour vehicle trips (7 entering and 2 exiting) and 10 PM peak hour vehicle trips (2 entering and 8 exiting). The increase in trips equates to approximately one additional vehicle every six minutes during the peak hours and represents a level of change that is minor and will likely be unnoticed.

Previously collected traffic volume data by CM within the Industrial Park has indicated that volumes within the park on Cady Hill Boulevard are relatively low. Traffic counts conducted by



the New York State Department of Transportation (NYSDOT) on Cady Hill Boulevard in 2012 show two directional AM peak hour volumes of approximately 330 vehicles and PM peak hour volumes of 170 vehicles. The low traffic volumes illustrate that capacity exists to handle the traffic volumes associated with growth and occupancy of the vacant lands in the park; therefore, the additional traffic volumes generated by the proposed expansion of the *Slack Chemical Company* can be accommodated for by the existing roadway network in the Industrial Park. It is further noted that the magnitude of site generated traffic does not meet the 100 vehicle trip threshold established by ITE and the New York State Department of Transportation (NYSDOT) for requiring a detailed traffic impact assessment. This guidance was developed as a tool to identify locations where the magnitude of traffic generated has the potential to impact operations at off-site intersections and screen out locations from requiring detailed analysis that do not reach the 100 vehicle threshold and are unlikely to require mitigation. Based on the low trip generation, the low traffic volumes within the Industrial Park, and industry guidelines, detailed intersection analysis is not needed and the site traffic will be adequately serviced by the existing roadway network.

#### Industrial Park Volumes

Based on an evaluation of the worst case PM peak hour traffic volumes within the *WJ Grande Industrial Park* completed in September of 2014 by CM, the existing two-way traffic on Cady Hill Boulevard is 361 vehicles (based on traffic counts and additional volume from approved developments). An increase of 10 PM peak hour trips associated with the proposed expansion, traffic volumes on Cady Hill Boulevard will increase to 371 vehicles during the PM peak hour

The existing and anticipated future PM peak hour traffic volumes on Cady Hill Boulevard remain below the Capital District Transportation Committee (CDTC) level of service D threshold of 1,250 vehicles (625 vehicles per direction) for local roadways. Based on the above evaluation, Cady Hill Boulevard will continue to operate with traffic volumes below their capacity.

#### Adjacent Roadway Network

In previous studies conducted for businesses within the *WJ Grande Industrial Park*, the City identified concerns related to the NY Route 50/Geyser Road intersection. Improvements at this intersection and along Geyser Road are currently planned by the NYSDOT as part of three projects: *Geyser Road Safe Routes to School* (PIN 1759.59), *Geyser Road Bicycle/Pedestrian Trail* (PIN 1760.11), and *Geyser Road/Route 50 Intersection Improvements* (PIN 1759.83). The scope of these three projects includes the following:

- Constructing sidewalk connections related to the *Geyser Road Elementary School* including a signalized pedestrian crossing adjacent to the school (PIN 1759.59).
- Constructing pedestrian/bicycle accommodations from the Milton Town Line to the NY Route 50/Geyser Road intersection via a multi-use trail or sidewalk. This project includes a new traffic signal with pedestrian accommodations (push buttons and count down timers) at the Geyser Road/Cady Hill Boulevard intersection (PIN 1760.11).
- Improvements at the NY Route 50/Geyser Road intersection to include a new traffic signal with pedestrian accommodations (push buttons and count down timers) across Geyser Road and widening of Geyser Road to include a separate left-turn lane (PIN 1759.83).

The complete construction of these three projects will result in improved operations for pedestrians, bicyclists, and vehicles in the study area.

A review of available traffic volume data indicates that the traffic volumes generated by the proposed site represent less than one percent of the peak hour traffic at the NY Route 50/Geyser Road intersection which serves approximately 1,600 vehicles during the AM peak hour and 2,100 vehicles during the PM peak hour (based on 2012 traffic counts). Although site traffic at this intersection will benefit from improvements at the NY Route 50/Geyser Road intersection, they are not warranted or recommended as a result of the proposed expansion of the *Slack Chemical Company* facility within the Industrial Park.

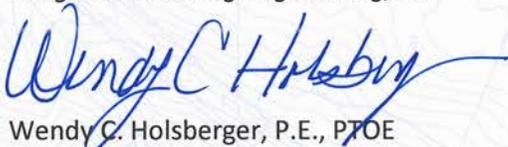
## B. Conclusions

The proposed project consists of the expansion of the *Slack Chemical Company* facility currently located in a 26,120 SF building at 3 Unlimited Drive within the *WJ Grande Industrial Park*. The proposed project will consist of a 29,990 SF expansion of the current facility in two attached structures. Access to the site will be maintained from Unlimited Drive via Cady Hill Boulevard. The following is noted:

- The expansion of the *Slack Chemical Company* facility will generate an additional 9 vehicle trips during the AM peak hour and 10 vehicle trips during the PM peak hour, resulting in a total of approximately 17 AM peak hour trips and 18 PM peak hour trips traveling to and from the site. The increase in trips equates to approximately one additional vehicle every six minutes during the peak hours and represents a level of change that is minor and will likely be unnoticed.
- The existing and anticipated future PM peak hour traffic volumes on Cady Hill Boulevard will remain below the CDTC level of service D threshold of 1,250 vehicles (625 vehicles per direction) for local roadways indicating that the roadways within the Industrial Park will continue to operate with traffic volumes below their capacity.

If you have any questions, or if we can be of any further service, please do not hesitate to call our office.

Respectfully submitted,  
*Creighton Manning Engineering, LLP*



Wendy C. Holsberger, P.E., PTOE  
Associate