

## SUPPLEMENTARY PROJECT MEMO #2 COST ALLOCATION

Date: January 18, 2023  
 To: Village of Kronenwetter  
 Re: Lift Station #8 & Lift Station #4  
 Westside Sanitary Sewer Collection System  
 Tax Incremental District #2

The purpose of this memo is to provide a recommended cost allocation for upgrade project expenses related to Lift Station #8 and Lift Station #4.

Lift Station #8 (hereinafter LS8) is located wholly within TID#2. Lift Station #4 (hereinafter LS4) resides outside TID#2 but is integral to the performance of the sewer collection system, particularly as the service area & performance of LS8 requires that LS4 is functional. As such, the upgrades/improvements associated with LS8 must also involve, to a certain extent, upgrades and improvements to LS4. Although the same is true for LS5, those improvements include a far lesser percentage of likely cost allocation from TID#2 and those costs can be considered for the purpose of this analysis.

One hundred percent (100%) of the TID#2 area is currently served by LS8, which also includes lands from LS11 (100%). Additionally, LS8 will serve all future serviceable property within the TID and the 208-sewer service area. Further, the TID#2 allowable expenditure area can be 0.5 miles beyond the current TID#2 area and a vast majority of such lands, by observation, would be served by either LS8 or LS4. Therefore, LS8 is to be 100% allocated to TID#2. Since not all of TID#2 is developed at the present time, a percentage calculation must be performed based on land area. The relationship between LS8 & LS4 is calculated from the following information:

TID#2 Total Project Boundary:	14936899 sf
LS8 Total Area Currently Served:	11942186 sf
LS8 Future Area (within 208 sewer service area):	12760828 sf
LS8 Current + Future:	24703014 sf
LS11 Total Area Currently Served:	5807586 sf
LS4 Total Area Currently Served:	11440558 sf
LS4 Future Area:	5699653 sf
LS4 Current + Future:	17140211 sf

Total All Current Service Areas: 29190330 sf

Percentage of TID#2 by Total Current Service Area:  $(14936899 \div 29190330)$  51%

LS8 Current Flow (Normal): 66358 gpd

LS11 Current Flow (Normal): 84469 gpd

LS8 + LS11 Current Flow (Normal): 150827 gpd

Portion of LS8 & LS11 Allocated to TID#2:  $(150827 * 0.51\%)$  76923 gpd

LS4 Current Flow (Normal): 55435 gpd

TID#2 Flow + LS4 Current Normal Flow: 132357 gpd

Percentage of TID#2 in LS4:  $(76923 \div 132357)$  58%

Therefore, of the total LS8 upgrade costs, 100% of such costs can be allocated to TID#2. Of the total LS4 upgrade costs, 58% can be allocated as a TID#2 expense.

ID	TID#2 Allocation	Utility Allocation
LS8	100%	0%
LS4	58%	42%

Please contact me with any questions or if additional information is needed.

Sincerely,

**ROTH PROFESSIONAL SOLUTIONS**



Robert J. Roth, PE  
 Project Engineer