Calculate proposed domestic and wastewater project needs:

Project is comprised of Residential and Restaurant Uses

### Residential (Apartments/Townhomes) Use

- **Design Unit**: per bedroom (one person per bedroom due to proposed operation model)
- **Minimum Design Flow**: 76 GPD per person (Based on information from the Town of Dryden per existing Apt.)
- **Maximum Design Flow**: 110 GPD per person (Based on information from the DEC)

Project proposes to lease 1, 2, 3 and 4-bedroom units.

| Number of Units: | 219 Units |
| Number of Bedrooms: | 552 Bedrooms | X | 76 GPD/Person = | 41,952 gpd Minimum Design Flows |
| Number of Bedrooms: | 552 Bedrooms | X | 110 GPD/Person = | 60,720 gpd Maximum Design Flows |

### Restaurant Use

- **Design Unit**: per table + per employees
- **Design Flow**: 25 GPD per seat (based on a fast food restaurant) 15 GPD per employees

Project proposes 40 seat coffee shop, bakery or similar use with 2-shifts of 4.5 employees each shift

| Number of seats: | 40 Seats | X | 25 GPD/seat = | 1,000 gpd |
| Number of employee shifts: | 9 Employees | X | 15 GPD/employee = | 135 gpd |

Subtotal for Retail = 1,135 gpd

### Pool and Clubhouse

- **Design Unit**: per swimmer + per employees
- **Design Flow**: 10 GPD per swimmer 15 GPD per employees

Project proposes 40 seat coffee shop, bakery or similar use with 2-shifts of 4.5 employees each.

| Number of seats: | 25 Swimmers | X | 10 GPD/swimmer = | 250 gpd |
| Number of employee shifts: | 5 Employee Shifts | X | 15 GPD/employee = | 75 gpd |

Subtotal for Retail = 325 gpd

Calculate Total Design Average Flow Range for this Project:

- Minimum: 43,412 gpd
- Maximum: 62,180 gpd

Calculate Design Peak Hourly Flow Rate:

Assume that design flow occurs over 16 hour period.

Therefore, TOTAL DESIGN AVG FLOW/16 hours = 2,713 gph Minimum

TOTAL DESIGN AVG FLOW/16 hours = 3,886 gph Maximum