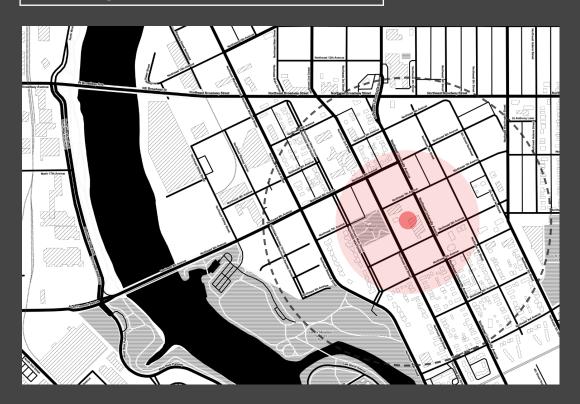
User Input: Address/GPS Coordinates



User Input: Building Information

Building Occupancy Type: Drop down list of Occ Types Building Use Schedule (12hrs/12hrs, 18hrs/6hrs, 24hr use)

Total Gross Interior Building Area (SF)

Total Roof Area (SF)

Total Site Area (SF)

Total Pervious Exterior Area (SF)

Total Impervious Exterior Area (SF)

User Input: Site Survey/Soils Tests

Soil Borings and Site Survey (Conducted on site) Phase 1 and 2 Environmental Site Assessments

Tool Input: Water Usage Calculator

Tool Populates SITE INFO

Yearly precipitation – Gallons/yr. Monthly precipitation – Gallons/mo. Atlas 14 Rain events total precipitation for 2, 10 and 100 rain events Anticipated Percolation rates for the site inches/hr. Rainfall distributions: Type I, Type IA, Type II, and Type III Avg Annual Temperature Ranges (Deg F)

Topographic GIS Maps (Query highest/lowest value within site and avg ht ASL) County Soil Surveys and other Soil Information as Available (Query Soil Type within site) County Geologic Atlas (Query bedrock depth and composition)

Local Groundwater Levels (Query Avg depth at nearest)

DWSMA and Wellhead Protection Maps (1 year, 5 years, 10 year TOT)

FEMA and Local Floodplain Maps (Risk Levels 1-10)

MPCA Listing of Potentially Contaminated Sites (Query site plus 1/4 miles for y/n)

TMDLs and Local Water Quality Standards

Wetland Delineations (site y/n or distance to nearest)

Avg Risk for (Drought, Flood, Severe Storm, other)

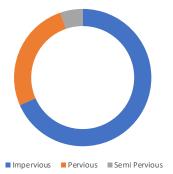
Irrigated Site Area: (% Irrigated x Pervious total)

Fool Populates
BLDG/SITE
VARIABLES

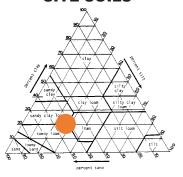
Building Occupancy Load: Determined by gross SF x Occ type load Male/Female Toilet/Urinal Fixture Totals: Determined by Load and SF Lavatory Faucets (Using Occupancy Type/Load and avg gal/day use) Showers (Using Occupancy Type/Load and avg gal/day use) Kitchen Faucets (Using Occupancy Type/Load and avg gal/day use) Industrial Water Uses (Using Occupancy Type/Load and avg gal/day use) Laboratory Faucet (Using Occupancy Type/Load and avg gal/day use) Hose Bibs (Using Occupancy Type/Load and avg gal/day use)

Dishwasher (Using Occupancy Type/Load and avg gal/day use) Clothes Washer (Using Occupancy Type/Load and avg gal/day use)

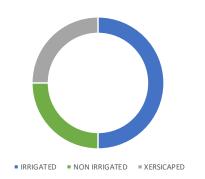
SITE PERVIOUSNESS



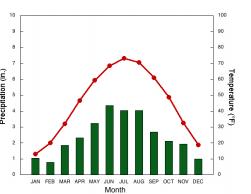
SITE SOILS



IRRIGATED OUTDOOR AREA



MONTHLY TEMP + PRECIPITATION

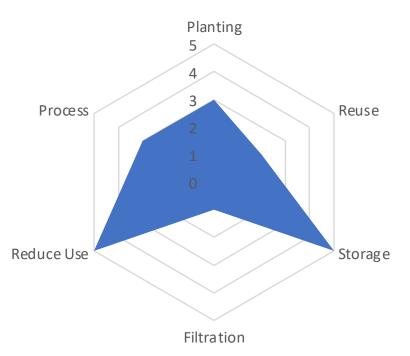


OCCUPANT DENSITY -

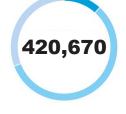
ATLAS 14 RAIN EVENTS - 2 YR EVENT 10 YR EVENT 100 YR EVENT

CLIMATE ZONE -

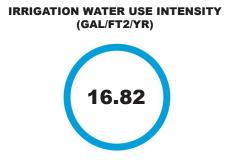
	Logistics				Function			
Zone Specific Design Strategies	Size (SF)	Size (Gal)	Cost	Complexity	Slow	Filter	Capture	
ZONE 4 DESIGN STRATEGIES			(\$ > \$\$\$\$)	(1-10)		_		
ZONE 1 DESIGN STRATEGIES Site Slow/Capture		_	_		_		_	
Bioretention basin (w/o underdrain) Bioretention basin (with underdrain)								
Swale Side Slope								
Harvest and re-use/Cistern	į							
Constructed stormwater pond Constructed wetland								
Dry wells Rain Barrels								
Mulden-Riglen System (MRS) Site Filtration/Infiltration								
Infiltration basin/Infiltration trench (aboveground)								
Underground infiltration Permeable pavement								
Stormwater disconnection (Impervious disconnection) Sand filters								
Rain Gardens								
Site Evap/Evapotranspiration Green Roof								
Tree trench system/Box (w/o underdrain) Swale main channel (with underdrain)								
Wet swale								
Trees/Natural ground cover Evaporation of water								
Evaporative water features Evaporative Vegetation								
Evaporative Ponds Transpiration of water								
Flexible Treatment Options (FTO)								
Other (User Defined Reductions) ZONE 2 DESIGN STRATEGIES	_	_	_	_	_	_	_	
Water Use Reductions								
Xeriscaping Low Flow Fixtures								
Water Pressure Reduction Interactive water-use monitoring and feedback								
Composting Toilets Resue Strategies								
Sink Greywater Recycling								
Sink Greywater Recycling Shower Greywater Recycling								
Toilet Blackwater to Living Machine/Biodigester Living Machines								
Greywater Treatment and Reuse Heating/Cooling								
Fvanorative Cooling Towers								
Insulated Piping Leak Proofing								
Cooling Tower Recovery Steam Boiler Blowdown								
ZONE 3 DESIGN STRATEGIES		_	_				_	
Greywater Reuse Strategies Irrigation								
Mechanical (non-potable uses)								
Maintenance/Cleaning Trombe Wall								
Resue Strategies Sink Greywater Recycling								
Sink Greywater Recycling								
Shower Greywater Recycling Toilet Blackwater to Living Machine/Biodigester								
Living Machines Greywater Treatment and Reuse								
Heating/Cooling Uses								
Evaporative Cooling Towers Insulated Piping								
Leak Proofing Cooling Tower Recovery								
Steam Boiler Blowdown								
ZONE 4 DESIGN STRATEGIES Reduction of Storm Sewer Input								
Reduction of Site Runoff Increase of Infiltration								

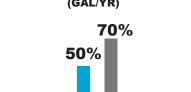
















(%)





