

## Asset Inventory

ID Number	Category	Type	Size	Manufacturer	Serial Number	Location	Installation Date	Condition	Energy user Y/N (if Yes, see Energy Inventory)	Comments
ABC123 See attached sheet for tips	Water or Wastewater Or Pump Or Storage etc.	Raw Water Pump	6"	Weir	4589a8	Well House	Feb. 1992	Fair	Yes	Major Repairs in 2001 and 2012

## Energy Use Inventory

ID Number	Asset Name	Type of Energy Used	Nameplate HP	Variable Speed Y/N	Measured Power Consumption (units)	Hours of Operation per Year	Total kWh per Year	Peak Energy Demand	Average Run Time	Operating Status	Design Specs.	Avg. Cost cents/kWh	Total Cost
ABC123	Raw Water Pump	Electric	10	No	10 kW	3,640	36,400	12 kW	10 h/day	Operating	10 gpm	0.09	\$3,276

# Condition Assessment

Condition Rating	Condition	Description

## Condition Rating System Using Numbers

Rank	Condition	Description
0	Excellent	Asset is new or nearly new; asset has no known or suspected condition issues
1	Very Good	Asset has no known or suspected condition issues, but is no longer a new asset
2	Good	Asset has few known or suspected issues
3	Average	Asset has known or suspected issues
4	Fair	Asset has known or suspected issues that may impact the asset's ability to continue to perform in the next several years
5	Poor	Asset has known or suspected condition issues and they are likely to impact the asset's ability to function in the near future (1 to 2 years)

## Condition Rating System Using Letters

Rank	Condition	Description
A	Excellent	Asset is new or nearly new; asset has no known or suspected condition issues
B	Very Good	Asset has no known or suspected condition issues, but is no longer a new asset
C	Good	Asset has few known or suspected issues
D	Average	Asset has known or suspected issues
E	Fair	Asset has known or suspected issues that may impact the asset's ability to continue to perform in the next several years
F	Poor	Asset has known or suspected condition issues and they are likely to impact the asset's ability to function in the near future (1 to 2 years)

## Condition Rating System Using Remaining Life

Rank	Condition	Description
0	Excellent	Less than 10% of useful life used up
1	Very Good	Between 11% and 25% of useful life used up
2	Good	Between 26% and 60% of useful life used up
3	Average	Between 61% and 75% of useful life used up
4	Fair	Between 76% and 95% of useful life used up
5	Poor	Between 96% and 100% of useful life used up

## Typical Useful Life for Selected Infrastructure Assets

Sample Useful Life (years)	
<b>Water Supply</b>	
Storage tanks	50-80
Treatment Plant Structures	60-70
Treatment Plant Electrical	15-25
Water lines	65-95
Pumping Station Structures	60-70
Pumping Station Electrical	25
<b>Wastewater</b>	
Gravity Sewer Lines	80-100
Manholes	20-50
Pumping Station Structures	50
Pumping Station Electrical	15
Risers	25
Treatment Plant Structures	50
Treatment Plant Electrical	15-25

## Asset ID Numbering Schemes

### Example 1: ABC-DEFG1234

**ABC** = Facility Designation (i.e., which pump station, well, treatment building, etc.)

**DEFG** = Equipment Type (i.e., description of the equipment, such as pump, blower, well)

**1234** = Equipment Numbering

First Number = Process Number (primary treatment, secondary treatment, etc.)

Second through Fourth Numbers = equipment number

*AP-PMP2001 is the Atlas Plant Pump in the Pretreatment Building, Number 001*

AP = Atlas Pump

PMP = Pump

2 = Pretreatment

001 = Pump Number 1

### Example 2: A-BCD-EFG-123

**A** = Utility Type (water or wastewater)

**BCD** = Major Category (water – source, treatment, distribution; wastewater – collection, treatment, solids handling, discharge)

**EFG** = Equipment Type (i.e., description of the equipment, such as pump, blower, well)

**123** = Equipment Number

*W-TMT-FIL-034 is the Water Treatment Filter number 34*

W = Water

TMT = Treatment

FIL = Filter

034 = Number 34

### Example 3: M – 1234 – ABCD – 1234

It is also possible to have a numbering scheme that is for a specific asset class, such as manholes.

**M**= Manhole

**1234**= House Address

**ABCD** = Street Abbreviation

**1234** = Manhole Number

*M-3201-MNTG-0345 is the Manhole near 3201 Montgomery Street, number 345*

M = Manhole

3201 = Nearest House Number

MNTG = Montgomery Street

0345 = Manhole Number