

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 |
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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 |
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Condition Assessment

| Condition Rating | Condition | Description |
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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) | |
|----------------------------|--------|
| Water Supply | |
| 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 |
| Wastewater | |
| 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