

BANGOR IAP (ANG) Wastewater Collection System

Table of Contents

BANGOR IAP (ANG) WASTEWATER COLLECTION SYSTEM.....	I
J3 BANGOR IAP (ANG) WASTEWATER COLLECTION SYSTEM.....	1
J3.1 BANGOR IAP (ANG) OVERVIEW.....	1
J3.2 WASTEWATER COLLECTION SYSTEM DESCRIPTION.....	1
J3.2.1 Wastewater Collection System Fixed Equipment Inventory	1
J3.2.1.1 Description.....	2
J3.2.1.2 Inventory	2
J3.2.2 Wastewater Collection System Non-Fixed Equipment and Specialized Tools	3
J3.2.3 Wastewater Collection System Manuals, Drawings, and Records	4
J3.3 SPECIFIC SERVICE REQUIREMENTS.....	4
J3.4 CURRENT SERVICE ARRANGEMENT	4
J3.5 SECONDARY METERING.....	4
J3.6 MONTHLY SUBMITTALS.....	5
J3.7 INFILTRATION AND INFLOW (I&I) PROJECTS.....	5
J3.8 SERVICE AREA.....	5
J3.9 OFF-INSTALLATION SITES	5
J3.10 SPECIFIC TRANSITION REQUIREMENTS.....	5
J3.11 GOVERNMENT RECOGNIZED SYSTEM DEFICIENCIES	6

List of Tables

Fixed Inventory	2
Spare Parts	3
Specialized Vehicles and Tools	4
Manuals, Drawings, and Records.....	4
Service Connections and Disconnections	5
System Deficiencies.....	6

J3 BANGOR IAP (ANG) Wastewater Collection System

J3.1 BANGOR IAP (ANG) Overview

Bangor IAP is located inside the city limits of Bangor, Maine. It is the home of the 101st Air Refueling Wing whose mission is to provide air refueling, airlift and mobility missions. Bangor is approximately 130 miles north of Portland, Maine, which is the largest city in the state of Maine. The base is 260 acres in size, of which 157.97 is leased land and 102.03 is fee-owned land. There are a total of 43 facilities on base, 32 industrial, 6 administrative and 5 services with no family housing. Current base population is approximately 450 personnel during non-drill duty days and increases to approximately 1100 personnel on a drill duty weekend that occurs once per month.

J3.2 Wastewater Collection System Description

J3.2.1 Wastewater Collection System Fixed Equipment Inventory

The BANGOR IAP (ANG) Wastewater Collection System consists of all appurtenances physically connected to the collection system from the point of demarcation defined by the Right of Way. The system may include, but is not limited to, pipelines, manholes, valves, controls, and meters. The actual inventory of items sold will be in the bill of sale at the time the system is transferred. The following description and inventory is included to provide the Contractor with a general understanding of the size and configuration of the system. The Government makes no representation that the inventory is accurate. The Contractor shall base its proposal on site inspections, information in the technical library, other pertinent information, and to a lesser degree the following description and inventory. Under no circumstances shall the Contractor be entitled to any service charge adjustments based on the accuracy of the following description and inventory.

Specifically excluded from the Wastewater Collection System privatization are:

1. Oil Water Separators
2. Grease Traps
3. Septic Tanks, Leach Fields
4. Pre-Treatment Systems

J3.2.1.1 Description

The Bangor IAP wastewater collection system is 100% gravity feed with no lift stations or pumps. There are 5 separate points where the base collection system connects to the city owned mains and those connections exit the base at 5 separate locations. System contains approximately 9,880 LF of active piping which ranges between 4 inches to 8 inches in diameter, is mostly PVC (approximately 6,070 LF) with varying quantities of vitrified clay (approximately 3,250 LF), cast iron (approximately 510 LF) and ductile iron (approximately 50 LF) buried at an depths ranging from 4 to 12 feet. There are 58 manholes of which 43 have watertight inserts with depths of 12 feet. Manholes are constructed mostly of pre-cast concrete (approximately 74%) and brick (approximately 26%). There are no known sags and inflow/infiltration is unknown. Installation dates of the system components range from 1955 to 2000. There are currently no upgrades or additions to the system in progress. There is no treatment facility located on Bangor IAP (ANG).

J3.2.1.2 Inventory

Table 1 provides a general listing of the major Wastewater Collection System fixed assets for the BANGOR IAP (ANG) Wastewater Collection System included in the sale.

TABLE 1
Fixed Inventory
Wastewater Utility System BANGOR IAP (ANG)

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
PVC Pipe				
	4 in	35	LF	1991
	4 in	95	LF	1987
	6 in	318	LF	2000
	6 in	923	LF	1999
	6 in	291	LF	1997
	6 in	398	LF	1993
	6 in	262	LF	1991
	6 in	160	LF	1990
	6 in	341	LF	1988
	6 in	680	LF	1987
	8 in	569	LF	1999
	8 in	1,615	LF	1997
	8 in	177	LF	1986
	8 in	210	LF	1985

Vitrified Clay Pipe

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
	4 in	95	LF	1987
	6 in	734	LF	1971
	8 in	2,414	LF	1955
Cast Iron Pipe				
	6 in	390	LF	1984
	8 in	122	LF	1978
Ductile Iron				
	4 in	50	LF	1986
Standard Sanitary Sewer Manhole				
Brick Construction	12 FT	15	EA	1955
Pre-Cast Concrete	12 FT	5	EA	1999
Pre-Cast Concrete	12 FT	7	EA	1997
Pre-Cast Concrete	12 FT	3	EA	1996
Pre-Cast Concrete	12 FT	2	EA	1993
Pre-Cast Concrete	12 FT	1	EA	1991
Pre-Cast Concrete	12 FT	7	EA	1987
Pre-Cast Concrete	12 FT	2	EA	1984
Pre-Cast Concrete	12 FT	9	EA	1977
Pre-Cast Concrete	12 FT	1	EA	1986
Cast in Place Concrete	12 FT	5	EA	1965
Cast in Place Concrete	12 FT	1	EA	1961

Notes:
PVC = Polyvinyl Chloride
LF = Linear Feet
EA = Each

J3.2.2 Wastewater Collection System Non-Fixed Equipment and Specialized Tools

Table 2 lists other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the purchase. Offerors shall field verify all equipment, vehicles, and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment, vehicles, and tools.

TABLE 2
Spare Parts
Wastewater Collection System BANGOR IAP (ANG)

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3
Specialized Vehicles and Tools
Wastewater Collection System BANGOR IAP (ANG)

Description	Quantity	Location	Maker
None			

J3.2.3 Wastewater Collection System Manuals, Drawings, and Records

Table 4 lists the manuals, drawings, and records that will be transferred with the system.

TABLE 4
Manuals, Drawings, and Records
Wastewater Collection System BANGOR IAP (ANG)

Qty	Item	Description	Remarks
1		AutoCAD Utility System Map electronic file copy	AutoCAD Release Ver. 2000

J3.3 Specific Service Requirements

The service requirements for the BANGOR IAP (ANG) Wastewater Collection System are as defined in the Section C, *Description/Specifications/Work Statement*.

J3.4 Current Service Arrangement

There are no onsite treatment facilities. Collection and treatment is provided by City of Bangor located in Bangor, ME.

- **Provider Name:** Bangor Waste Water Treatment
 - Annual Usage: 7,504 (hundreds) Cubic Feet/Year or 5,613,000 gallons/year
 - Average Monthly Usage: 625 (hundreds) Cubic Feet/Month or 467,500 gallons/month
 - Monthly Usage Fluctuations:
 - High – 563 (hundreds) Cubic feet/month or 421,100gallons/month
 - Low – 191 (hundreds) Cubic feet/month or 142,900 gallons/month

J3.5 Secondary Metering

None

J3.6 Monthly Submittals

The Contractor shall provide the Government monthly submittals for the following:

1. Invoice (IAW G.2). The Contractor’s monthly invoice shall be presented in a format proposed by the Contractor and accepted by the Contracting Officer. Invoices shall be submitted by the 25th of each month for the previous month. Invoices shall be submitted to the person identified at time of contract award.
2. Outage Report. The Contractor’s monthly outage report (blockage and overflow information) will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Outage reports shall be submitted by the 25th of each month for the previous month. Outage reports shall be submitted to the person identified at time of contract award.
3. Infiltration and Inflow Report. If required by Paragraph C.3, the Contractor shall submit an Infiltration and Inflow report in a format proposed by the Contractor and accepted by the Contracting Officer. System efficiency reports shall be submitted by the 25th of each month for the previous month. System efficiency reports shall be submitted to the person identified at time of contract award.

J3.7 Infiltration and Inflow (I&I) Projects

IAW Paragraph C.3, Utility Service Requirement, the following projects have been implemented by the Government for managing and monitoring I&I.

None

J3.8 Service Area

IAW Paragraph C.4, Service Area, the service area is defined as all areas within the BANGOR IAP (ANG) boundaries.

J3.9 Off-Installation Sites

No off-installation sites are included in the sale of the BANGOR IAP (ANG) Wastewater Collection System.

J3.10 Specific Transition Requirements

IAW Paragraph C.13, Transition Plan, **Table 5** provides a listing of service connections and disconnections required upon transfer.

TABLE 5
Service Connections and Disconnections
Wastewater Collection System BANGOR IAP (ANG) None

Location	Description
None	

J3.11 Government Recognized System Deficiencies

Table 6 provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the BANGOR IAP (ANG) Wastewater Collection System. If the utility system is sold, the Government will not accomplish these planned improvements. The Contractor shall make a determination as to its actual need to accomplish and the timing of any and all such planned improvements. Capital upgrade projects shall be proposed through the Capital Upgrades and Renewal and Replacement Plan process and will be recovered through Schedule L-3. Renewal and Replacement projects will be recovered through Sub-CLIN AB.

TABLE 6
System Deficiencies
Wastewater Collection System BANGOR IAP (ANG)

Project Location	Project Description
None	