

ATTACHMENT J4

# Pittsburgh ARS, 911th AW Wastewater Collection System

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# J4 Pittsburgh ARS, 911th AW Wastewater Collection System

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## J4.1 Pittsburgh ARS, 911th AW Overview

The Pittsburgh Air Reserve Station (ARS) is home to the 911<sup>th</sup> Airlift Wing (AW). The installation is located in the western portion of Allegheny County, Pennsylvania, within the Pittsburgh International Airport (IAP). The Base is approximately 16 miles northwest of downtown Pittsburgh located along Business Route 60. The 911<sup>th</sup> AW's mission is to train Air Force Reserve personnel to respond to national interests with equipment and supplies through air drop, landing, and cargo extraction. The base currently is assigned nine C-130 H "Hercules" cargo/transport aircraft which are used for joint service training, support to active duty training, and transport of combat troops, supplies, and equipment during missions. The resulting economic impact on the surrounding Pittsburgh area is over \$82 million.

The 911<sup>th</sup> AW encompasses approximately 115 acres (12 acres government owned and 103 acres leased from Allegheny County) in the eastern portion of the Pittsburgh IAP. Construction for the base began in 1942 and has seen several different units and mission changes over its life. The 911<sup>th</sup> AW has been operating at the Pittsburgh ARS since January 1963.

The 911<sup>th</sup> AW has a total of 59 buildings with an estimated 511,366 square feet which is further subdivided into 139,148 square feet dedicated to industrial activities and 47,616 square feet for administrative purposes. No housing facilities are located on the base. The 911<sup>th</sup> AW employs 1,675 personnel, including 1,221 Reservists/Trainees and 320 full time civilians. Future plans for the base include the construction of a new headquarters facility consisting of approximately 22,000 square feet. Other activities on the base include utilization of training facilities by the US Navy Reserve Seabees and the Civil Air Patrol. The US Army Corps of Engineers also maintains an office on the station.

## J4.2 Wastewater System Description

### J4.2.1 Wastewater System Fixed Equipment Inventory

The 911<sup>th</sup> AW wastewater 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, and manholes. 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 system privatization are:

- Oil water separators are not part of this contract.

#### J4.2.1.1 Description

Wastewater generated by 911<sup>th</sup> AW discharges to the Moon Township Municipal Authority's (MTMA) sanitary sewer collection system at four MTMA manholes along the east side of the installation. Sewage is not metered prior to entering the MTMA sanitary sewer system; instead the Base is billed for sewage treatment fees based upon 100 percent of its potable water consumption.

The 911<sup>th</sup> AW wastewater collection system consists of gravity-flow vitrified clay pipe with sections of PVC installed with new construction and system replacement. The collection system is made up of laterals, oil/water separators, and collector mains but the oil/water separators are not included in this contract. The Base has no lift stations because topography of the site allows the wastewater to drain by gravity.

The wastewater collection system consists mostly of pipe that is 20 years old or newer and is in relatively good shape but the older parts of the system (VCP installed in 1955) are expected to be near the end of its useful life. Service laterals are typically 4 to 6-inches in diameter; mains range from 6 to 8-inches. The depth of cover over wastewater collection pipes generally varies from 4 to 10 feet in Pittsburgh. Although, the actual depth may vary.

Base personnel report no problems with blockages or backups. There are no known areas with collapsing pipe, sags, low slope, or chronic problems with grease or roots. However, the Base suspects potential problems with infiltration and leaks due to the system's age.

#### J4.2.1.2 Inventory

**Table 1** provides a general listing of the major wastewater system fixed assets for the 911<sup>th</sup> AW wastewater system included in the sale.

**TABLE 1**  
Fixed Inventory  
Wastewater Utility System 911<sup>th</sup> AW, ARS

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
<u>Piping</u>				
Vitrified Clay Pipe	4.0	1,005	LF	1955
Vitrified Clay Pipe	5.0	300	LF	1955

Item	Size (in.)	Quantity	Unit	Approximate Year of Construction
Vitrified Clay Pipe	6.0	9,900	LF	1955
Vitrified Clay Pipe	8.0	7,205	LF	1955
Vitrified Clay Pipe	12.0	1,060	LF	1955
Vitrified Clay Pipe	15.0	170	LF	1955
PVC Pipe	15.0	300	LF	2001
PVC Pipe	6.0	200	LF	1995
PVC Pipe	4.0	200	LF	1995
<u>Brick Manholes</u>				
Brick Manhole	48x96"	62	EA	1955
Brick Manhole	48x144"	20	EA	1955
<u>Pre-cast Concrete Manholes</u>				
Precast Manhole	48x96"	4	EA	1995
Precast Manhole	48x144"	2	EA	2001

## Notes:

PVC = Polyvinyl Chloride

LF = Linear Feet

EA = Each

## J4.2.2 Wastewater 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 System 911th AW, ARS

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3

Specialized Vehicles and Tools

Wastewater System 911th AW, ARS

Description	Quantity	Location	Maker
None			

### J4.2.3 Wastewater 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 System 911th AW, ARS

Qty	Item	Description	Remarks
1 Set	Wastewater Distribution Collection System Drawing	Installation Map Depicting the Wastewater Distribution Collection System	

## J4.3 Specific Service Requirements

The service requirements for the 911th AW wastewater system are as defined in the Section C, *Description/Specifications/Work Statement*. The following requirements are specific to the 911th AW wastewater system and are in addition to those found in Section C. If there is a conflict between requirements described below and Section C, the requirements listed below take precedence over those found in Section C.

- Provide marks on the ground to show locations of wastewater collection lines on an as needed basis as other entities request. Mark utilities in the field to show location and depth.

## J4.4 Current Service Arrangement

The Moon Township Municipal Authority treats the 911th AW's wastewater. The 911th AW sewer discharge is billed based on 100 per cent of the Base's water usage. The FY 2002 annual usage was 6800 kgal. The average monthly usage was 570 kgal with a maximum occurring in September 2002 with 728 kgal and the minimum occurring in December 2001 with 450 kgal.

## J4.5 Secondary Metering

There are no meters associated with this wastewater collection system.

## J4.6 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 25<sup>th</sup> of each month for the previous month. Invoices shall be submitted to:

911th AW, ARS/LGC  
Pittsburgh International Airport  
1100 Herman Avenue

Coraopolis, PA 15108-4421  
412-474-8120:

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 25<sup>th</sup> of each month for the previous month. Outage reports shall be submitted to:

911th AW, ARS/LGC  
Pittsburgh International Airport  
1100 Herman Avenue  
Coraopolis, PA 15108-4421  
412-474-8573

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 25<sup>th</sup> of each month for the previous month. System efficiency reports shall be submitted to:

911th AW, ARS/LGC  
Pittsburgh International Airport  
1100 Herman Avenue  
Coraopolis, PA 15108-4421  
412-474-8573

## **J4.7 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.

- No infiltration and inflow projects have been performed.

## **J4.8 Service Area**

IAW Paragraph C.4, Service Area, the service area is defined as all areas within the 911th AW boundaries.

## **J4.9 Off-Installation Sites**

No off-installation sites are included in the sale of the 911th AW wastewater system.

## **J4.10 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 System 911th AW, ARS*

Location	Description
None	No new connections or disconnections are anticipated upon the transfer of ownership

## J4.11 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 911th AW wastewater 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 AC](#).

**TABLE 6**  
 System Deficiencies  
*Wastewater System 911th AW, ARS*

Project Location	Project Description
	The 911th AW has not identified deficiencies for this utility system