

## **Kirie WRP - Goals and Objectives for 2015**

### **Goal – Upgrade Instrumentation for Flow Measurement of Waste Activated Sludge (WAS) Transmission to the Egan WRP**

#### Objective

Reduce maintenance cost and improve reliability of flow measurement. It is projected that maintenance cost will be reduced by 66% and sludge transmission interruptions reduced by 70%. This will be accomplished by reduced preventative maintenance work orders.

#### Description

Install a new magnetic flow meter.

#### Affect to Biosolids Production

Reduce transmission interruptions of WAS to the Egan WRP by minimizing pumping shutdowns.

#### Relevant EMS Outcomes

Environmental performance, quality management practices.

#### Action Plans

Kirie engineering and maintenance staff will procure and install the flow meter. Kirie Operations will track the maintenance cost and sludge transmission interruptions.

#### Tracking Progress Towards Implimentation

Contract specifications, procurement, and installation will be tracked by Kirie Principal Engineer-Maintenance. See Table 1 below.

#### Tracking Maintenance Cost and Sludge Transmission Interruptions

Maintenance cost associated with flow measurement will be tracked using MMS and sludge transmission interruptions will be tracked by TPO log. See Table 2 below.

#### Responsible Person(s)

Section 783 Principal Engineer – Operations.  
Section 721 Principal Engineer – Maintenance.

#### Funds/Resources

Construction funded M&O Contract 13-711-21 and installed by Kirie Trades.

#### Target Date

March 2015

**Kirie WRP - Goals and Objectives for 2015-16**

**Goal – Improve Cathodic Protection of the Waste Activated Sludge Transmission Pipeline to the Egan WRP**

Objective

Restore the functionality of cathodic protection of the pipeline.

Description

Locate missing, re-establish existing, and test all cathodic protection magnesium anode test stations.

Affect to Biosolids Production

By minimizing corrosion and extending the life expectancy of the pipeline, the loss of solids dewatering production at the Egan WRP due to pipeline failure will be reduced.

Relevant EMS Outcomes

Environmental Performance, Quality Management Practices.

Action Plans

Kirie Engineering staff will issue a Job Ordered Contract for the completion of this work.

Tracking Progress

Progress will be tracked by Kirie Principal Engineer, Maintenance.

Milestones

Description	Completion Date					
	11/1/14	12/1/14	2/1/15	3/1/15	10/1/15	7/1/16
Work Plan (1)	In progress					
Requisition-Approval(2)						
Award PO						
Contractor NTP						
Repair 6 Test Stations						
Repair 5 Test Stations						

(1) Using as-built drawings, MMS, and historical data, identify all missing test stations and develop a work plan.

(2) Write a requisition for a contractor to restore 23 of 203 test stations. Eleven to be completed in 2015 and 12 to be completed in 2016.

Responsible Person(s)

Section 783 Principal Engineer – Operations.  
 Section 721 Principal Engineer – Maintenance.

Funds/Resources

Construction funded M&O Job Ordered Contract.

Target Date

July 2016