Hanover Park WRP’s Goals and Objectives for 2015-2020

Goal – Prevent Heavy Metal Overloads in Soil at Fischer Farm

Objective
Obtain the ability to distribute lagoon supernatant to all seven available farm fields by repairing/replacing existing damaged piping system to these fields. This will prevent over applying supernatant to any one field which could result in exceeding EPA 503 ceiling limits of As, Cd, Cu, Pb, and Zn in the soil.

Description
Currently we can only apply to three of the seven fields; three fields(#3,#4,#6) are inaccessible due to damaged pipes, risers, and valves. The project we have planned will repair/replace farm field piping, valves, and risers for divestment of Lagoon Supernatant.

Measurability
# of Fields Supernatant is applied to: Baseline is 3.
Heavy Metal Levels in the soil, groundwater and biosolids: As, Cd, Cu, Pb, Zn
EPA ceiling limits for EQ biosolids are as follows:
As – 41, Cd – 39, Cu – 1500, Pb – 300, Zn – 2800 (these are all measured in mg/kg)

Affect to Biosolids Production
Ability to water crops for better growth and nutrient uptake, eliminate excess metals caused by over applying to one area.

Relevant EMS Outcomes
Environmental Performance, Quality Management Practices

Action Plans
Survey of all existing piping, valves, and risers was completed in previous years. Corrective action were completed to repair/replace what was needed under Job Order Contract (JOC) #J67755-01 in 2014. Continue with sampling of metal levels as stated in Measurability, through 2020.

Tracking Progress
# of Fields applied to: Quarterly Report
Metals levels in the soil samples will be monitored and historically tracked as follows
Monitoring wells: quarterly; Biosolids: Daily, when applied; Soil: Every 4 years: 2012, 2016, 2020

Responsible Person(s)
Hanover Park WRP Section 753 Senior Civil Engineer
Hanover Park WRP Section 755 Engineering Technician V

Funds/Resources
None

Target Date
December 2020
Hanover Park WRP’s Goals and Objectives for 2015-2020

Goal – Maximize digester gas usage

Objective
The specific objective of this goal is to improve digester gas reuse for building and digester heat, prevent releases to the atmosphere, and reduce flaring, which will save money.

Description
Add a central boiler facility to replace the existing 7 boilers with 4 new high efficiency boilers.

Measurability
Amount of natural gas purchased, the amount of digester gas produced and utilized for heat.

Affect to Biosolids Production
Reducing the amount of natural gas which is purchased and increase efficiency of digester gas utilized for heating the plant and digesters.

Relevant EMS Outcomes
Environmental Performance, Quality Management Practices

Action Plans
Obtain approval from the Vetting Panel and Executive Team in 2016.
Track measurable goals through 2020.

Tracking Progress
CPM reports will be submitted to EMS Coordinator Quarterly. Digester gas produced/utilized and natural gas purchased will be submitted on quarterly status reports.

Responsible Person(s)
Hanover Park WRP Section 753 Senior Civil Engineer
Hanover Park WRP Section 755 Engineering Technician V
Engineering Department Representative/ Inspector

Funds/Resources
Budgeted in the Engineering Department.

Target Date
December 2020
Hanover Park WRP’s Goals and Objectives for 2015-2020

Goal – Improve Odor Control Measures at the Treatment Plant

Objective
The specific objective of this goal is install/modify odor control systems at three odor sources identified by the Planning Group.

Description
Replace the existing ozone air treatment system on the digester complex with a bio-trickling filter. Install covers on the aerated grit tanks, and treat the captured air with a bio-trickling filter. Install an activated carbon air treatment system on the coarse screen exhaust fan.

Measurability
The number and nature of odor complaints will be tracked.

Affect to Biosolids Production
There will be no anticipated affect to biosolids production.

Relevant EMS Outcomes
Environmental Performance, Quality Management Practices

Action Plans
To be designed by M&R Planning Group in 2016.
Award Contract in 2017.

Tracking Progress
Track measurable goals through 2020

Responsible Person(s)
Hanover Park WRP Section 753 Senior Civil Engineer
Hanover Park WRP Section 755 Engineering Technician V
M&R Planning Group Representative

Funds/Resources
Budgeted in the Construction Fund.

Target Date
December 2020