

Document 03.7 – Lemont WRP CCP Table

Version Number: 9
 Version Date: March 8, 2018

Biosolids Value Chain	CCP	Operational Controls	Potential Environmental Impacts	Monitoring/Measuring/Record Keeping	Primary Person Roles/Responsibilities
Wastewater Collection and Pretreatment	Residential Discharges	<ul style="list-style-type: none"> Public Outreach Household hazardous waste collection(HHW) 	<ul style="list-style-type: none"> Poor surface water quality Metals accumulation in biosolids 	<ul style="list-style-type: none"> # Educational outreach events HHW Event Summaries 	Section 072 Public and Intergovernmental Affairs Officer (X16626); Section 643 CE II (X15119)
	Industrial Discharges	<ul style="list-style-type: none"> Permits – DA Pretreatment Inspections SPCC Plans (Spill) TOMP Plans (Toxics) Sewage & Waste Control Ordinance Field Surveillance and Enforcement Action Regulated community outreach 	<ul style="list-style-type: none"> Pipe Corrosion Process upsets – poor quality surface water & biosolids Metals accumulation in biosolids Violation of NPDES Permit Fish Kills Explosions 	<ul style="list-style-type: none"> Random Sampling Inspections Continuous Sampling Interceptor Sampling IEPA Annual Pretreatment Report Notices of Noncompliance Cease and Desist Orders Semi-annual Continued Compliance Reports Discharge Authorizations # of outreach events 	Section 192 Supervising Environmental Specialist (X13050) Section 194 Senior Environmental Specialist (X84135)
	Spills into Collection System	<ul style="list-style-type: none"> Sewage & Waste Control Ordinance Enforcement Regulated community outreach 		<ul style="list-style-type: none"> Incident Report # of outreach events 	Section 194 Senior Environmental Specialist (X84135)



Environmental Management System for Biosolids

Biosolids Value Chain	CCP	Operational Controls	Potential Environmental Impacts	Monitoring/Measuring/ Record Keeping	Primary Person Roles/Responsibilities
Wastewater Treatment & Solids Generation	Screening & Grit Removal	<ul style="list-style-type: none"> Operate timer, differential head or manual 	<ul style="list-style-type: none"> Equipment failure/ process overload Poor quality biosolids 	<ul style="list-style-type: none"> Volume (CY) of debris removed. Operator logs 	Section 831 Principal Engineer (X63546) Section 839 TPO II (X63889)
	Primary Treatment	<ul style="list-style-type: none"> Primary sludge withdrawal No. of tanks in service Operations SOPs 	<ul style="list-style-type: none"> Odor Excess loading to secondary treatment Poor quality effluent and biosolids 	<ul style="list-style-type: none"> % solids Operator logs 	Section 831 Principal Engineer (X63546) Section 839 TPO II (X63889)
	Secondary Treatment	<ul style="list-style-type: none"> NPDES Permit No. IL0028070 DO, MLSS, SRT, RAS rate, WAS rate, Feed Rate Operations SOPs 	<ul style="list-style-type: none"> NPDES Permit Violation Poor quality effluent and biosolids Odor 	<ul style="list-style-type: none"> Operator logs Daily reports NPDES permit parameters Microscopic examination DO, SS,SVI,F/M, Blanket level, RAS,WAS, MLSS, BOD, NH3, pH 	Section 831 Principal Engineer (X63546) Section 839 TPO II (X63889)



Environmental Management System for Biosolids

CCP Value Chain Link	CCP	Operational Controls	Potential Environmental Impacts	Monitoring/Measuring/Record Keeping	Primary Person Roles/Responsibilities
Mechanical Operations & Solids Handling	Primary Solids Concentration	<ul style="list-style-type: none"> • Pump as needed to maintain settling 	<ul style="list-style-type: none"> • Odor • Poor quality biosolids 	<ul style="list-style-type: none"> • % Solids • Operator logs • Blanket level • Recycle 	Section 831 Principal Engineer (X63546) Section 839 TPO II (X63889)
	Waste Activated Sludge Concentration	<ul style="list-style-type: none"> • Continuous pumping 	<ul style="list-style-type: none"> • Odor • Poor quality biosolids 	<ul style="list-style-type: none"> • % Solids • Operator logs • Blanket level • Recycle 	Section 831 Principal Engineer (X63546) Section 839 TPO II (X63889)
	Liquid Transportation	<ul style="list-style-type: none"> • Contract Specifications • Spill Control Plan 	<ul style="list-style-type: none"> • Odor • Spill • Water pollution • Truck noise & weight 	<ul style="list-style-type: none"> • Volume • % Solids 	Section 831 Principal Engineer (X63546) Section 839 TPO II (X63889)

Revision History

Version Number	Version Date	Description of Revision
0	7/28/05	Original issue
1	9/21/05	Revised Operational Controls, Environmental Impacts, and Monitoring, Measuring and Recordkeeping Added CCPs and Biosolids Value Chains that play a role in biosolids management (Wastewater Collection & Pretreatment and Mechanical Operations & Solids Handling)
2	4/12/07	Added “regulatory community outreach” to the Industrial Discharge and Spills into Collection System CCPs under the Operational Control column. Added “# of outreach events” to the Industrial Discharge and Spills into Collection System CCPs under the Monitoring/Measuring/Recordkeeping column. Added the following to the Industrial Discharge CCP under the Monitoring/Measuring/Recordkeeping column: IEPA Annual Pretreatment Report, Notices of Noncompliance, Cease and Desist Orders, Semi-annual Continued Compliance Reports, and Discharge Authorizations.
3	2/26/08	Replaced Public Information Coordinator with Manager of Public Affairs under the Primary Person Roles/Responsibilities column of the Residential Discharges CCP. Replaced Section 633 with Section 643 under the Primary Person Roles/Responsibilities column of the Residential Discharges CCP.
4	8/24/09	Revised PCO III to PCO III / SES.
5	3/10/10	Added “Section 192 SES (X13050)” to the Industrial Discharge CCP under the Primary Person Roles/Responsibilities column.
6	10/17/11	Edited Footer with Official Document Location



Environmental Management System for Biosolids

7	3/1/13	<p>Updated telephone numbers throughout. PCOIII title changed to Senior Environmental Specialist Updated Title: Associate Environmental Research Scientist to Supervising Environmental Research Scientist Added "Section 831 AETPOI (X63546) under the Primary Person/Roles Responsibilities column for the Wastewater Treatment and Solids Generation CCP and Mechanical Operations and Solids Handling CCP.</p>
8	2/20/14	<p>Updated Titles</p>
9	3/8/18	<p>Updated Public & Intergovernmental Affairs Officer's section # from 071 to section 072. Updated Public & Intergovernmental Affairs Officer's ext. # from X17909 to X16626. Updated Section 643 CE II Ext. # from X16571 to X15119.</p>