Annual Biosolids Monitoring Report

Period:

January 2023 - March 2023

Sample Date:

27-Jan-23

rsenic 17.2 41 mg/kg 75 mg/kg arium 374.0 eryllium 3.6 oron 49.5 admium 0.961 39 mg/kg 85 mg/kg hromium 28.2 obalt 0.862 opper 756.0 1500 mg/kg 4300 mg/kg ead 35.2 300 mg/kg 840 mg/kg lickel 20.2 420 Mg/kg 420 mg/kg hosphorus 36,800 elenium 8.9 100 mg/kg 100 mg/kg elenium ND anadium 20.2 inc 1320.0 2800 mg/kg 7500 mg/kg mmonia Nitrogen ND litrate Nitrogen ND litrate Nitrogen ND litrogen, Total Kjeldahl 42,000 H 6.86 5 6 Solids 28.8% Afercury 0.2 17 mg/kg 57 mg/kg irease/Oil 17 mg/kg 57 mg/kg irease/Oil			EPA 503 pollution limits for land application		
POLLUTANTS Dry Weight unless indicated (monthly avg.) (daily maximum)			Pollutant Concentrations	Ceiling Concentrations	
ND	Name	Concentration (mg/kg)	(40 CFR 503.13)	(40 CFR 503.13)	
17.2	POLLUTANTS	Dry Weight unless indicated	(monthly avg.)	(daily maximum)	
arium 374.0 eryllium 3.6 oron 49.5 admium 0.961 39 mg/kg 85 mg/kg hromium 28.2 obalt 0.862 opper 756.0 1500 mg/kg 4300 mg/kg ead 35.2 300 mg/kg 840 mg/kg lickel 20.2 420 Mg/kg 420 mg/kg hosphorus 36,800 elenium 8.9 100 mg/kg 100 mg/kg lilver ND hallium ND arandium 20.2 inc 1320.0 2800 mg/kg 7500 mg/kg mmonia Nitrogen 4500 yanide, Total 4 1 litrate Nitrogen ND H 6.86 6 50lids 28.8% Aercury 0.2 17 mg/kg 57 mg/kg irease/Oil	Antimony	ND			
Second S	Arsenic	17.2	41 mg/Kg	75 mg/Kg	
Age	Barium	374.0			
admium 0.961 39 mg/kg 85 mg/kg hromium 28.2	Beryllium	3.6			
Description Color	Boron	49.5			
obalt 0.862 opper 756.0 1500 mg/kg 4300 mg/kg ead 35.2 300 mg/kg 840 mg/kg Molybdenum 26.4 75 mg\kg lickel 20.2 420 Mg/kg 420 mg/kg hosphorus 36,800 9 elenium 8.9 100 mg/kg 100 mg/kg ilver ND ND fanadium 20.2 ND ND fanadium 20.2 20.2 ND mmonia Nitrogen 4500 4500 ND vyanide, Total <1	Cadmium	0.961	39 mg/Kg	85 mg/Kg	
opper 756.0 1500 mg/Kg 4300 mg/kg ead 35.2 300 mg/Kg 840 mg/kg Molybdenum 26.4 75 mg\kg lickel 20.2 420 Mg/Kg 420 mg/Kg hosphorus 36,800 9 100 mg/Kg 100 mg/Kg elenium 8.9 100 mg/Kg 100 mg/Kg 100 mg/Kg iliver ND ND <td< td=""><td>Chromium</td><td>28.2</td><td></td><td></td></td<>	Chromium	28.2			
Sead 35.2 300 mg/kg 840 mg/kg 75 mg/kg 75 mg/kg 75 mg/kg 420 m	Cobalt	0.862			
Molybdenum 26.4 75 mg/kg Jickel 20.2 420 Mg/Kg 420 mg/Kg Hosphorus 36,800 100 mg/Kg 100 mg/Kg Belenium 8.9 100 mg/Kg 100 mg/Kg Iliver ND 100 mg/Kg 100 mg/Kg Manadium ND 100 mg/Kg 7500 mg/Kg Inc 1320.0 2800 mg/Kg 7500 mg/Kg Immonia Nitrogen 4500 4500 Intrate Nitrogen ND 100 mg/Kg Ilitrate Nitrogen ND 100 mg/Kg Ilitrogen, Total Kjeldahl 42,000 100 mg/Kg H 6.86 100 mg/Kg 57 mg/Kg Mercury 0.2 17 mg/Kg 57 mg/Kg Grease/Oil 1010	Copper	756.0	1500 mg/Kg	4300 mg/kg	
Sickel 20.2 420 Mg/Kg 420 mg/Kg hosphorus 36,800	_ead	35.2	300 mg/Kg	840 mg/kg	
Selenium Selenium	Molybdenum	26.4		75 mg\kg	
Selenium Selenium	Nickel	20.2	420 Mg/Kg	420 mg/Kg	
ND	Phosphorus	36,800			
hallium ND /anadium 20.2 inc 1320.0 2800 mg/Kg 7500 mg/Kg /mmonia Nitrogen 4500	Selenium	8.9	100 mg/Kg	100 mg/Kg	
20.2 2800 mg/Kg 7500 mg/Kg 7500 mg/Kg 2800 mg/Kg	Silver	ND			
inc 1320.0 2800 mg/Kg 7500 mg/Kg mmonia Nitrogen 4500 yanide, Total <1 litrate Nitrogen ND litrogen, Total Kjeldahl 42,000 H 6.86 6 Solids 28.8% Mercury 0.2 17 mg/Kg 57 mg/Kg irease/Oil	Γhallium	ND			
Manual M	/anadium	20.2			
Ayanide, Total <1	Zinc	1320.0	2800 mg/Kg	7500 mg/Kg	
ND	Ammonia Nitrogen	4500			
H	Cyanide, Total	<1			
H 6.86 6 Solids 28.8% Mercury 0.2 17 mg/Kg 57 mg/Kg irease/Oil 1010	Nitrate Nitrogen	ND			
6 Solids 28.8% Mercury 0.2 17 mg/Kg 57 mg/Kg irease/Oil 1010	Nitrogen, Total Kjeldahl	42,000			
Mercury 0.2 17 mg/Kg 57 mg/Kg irease/Oil 1010	DH	6.86			
irease/Oil 1010	% Solids	28.8%			
	Mercury	0.2	17 mg/Kg	57 mg/Kg	
lex Chromium ND	Grease/Oil	1010			
	Hex Chromium	ND			

Pathogen Reduction (40 CFR 503.32)

Class B - (PSRP) Anaerobic Digestion at 95 F for minimum of 15 days

Vector Attraction Reduction (40 CFR 503.33)

Option 1 - VS reduced by a minimum of 38%

Certification

I certify, under penalty of law, that the Class B pathogen requirements in 503.32 and the vector attraction reduction requirement in 503.33 using option (1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment".

Name & Title: Edward Waggoner - Operations Superintendent

Signature:

Telephone Number: (831) 624-1249

Date: 1-26-2024

Annual Biosolids Monitoring Report

Period:

April 2023-June 20223

Sample Date:

18-Apr-23

		EPA 503 pollution limits for land application		
		Pollutant Concentrations	Ceiling Concentrations	
Name	Concentration (mg/kg)	(40 CFR 503.13)	(40 CFR 503.13)	
POLLUTANTS	Dry Weight unless indicated	(monthly avg.)	(daily maximum)	
Antimony	ND			
Arsenic	ND	41 mg/Kg	75 mg/Kg	
Barium	303.0			
Beryllium	ND			
Boron	39.2			
Cadmium	3.2	39 mg/Kg	85 mg/Kg	
Chromium	30.8			
Cobalt	1.3			
Copper	686.0	1500 mg/Kg	4300 mg/kg	
Lead	41.3	300 mg/Kg	840 mg/kg	
Molybdenum	22.2		75 mg\kg	
Nickel	30.4	420 Mg/Kg	420 mg/Kg	
Phosphorus	23,400			
Selenium	12.1	100 mg/Kg	100 mg/Kg	
Silver	ND			
Thallium	ND			
Vanadium	20.0			
Zinc	1080.0	2800 mg/Kg	7500 mg/Kg	
Ammonia Nitrogen	5630			
Cyanide, Total	ND			
Nitrate Nitrogen	ND			
Nitrogen, Total Kjeldahl	38,200			
рН	7.75			
% Solids	23.0%			
Mercury	0.2	17 mg/Kg	57 mg/Kg	
Grease/Oil	ND			
Hex Chromium	ND			

Pathogen Reduction (40 CFR 503.32)

Class B - (PSRP) Anaerobic Digestion at 95 F for minimum of 15 days

Vector Attraction Reduction (40 CFR 503.33)

Option 1 - VS reduced by a minimum of 38%

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Name & Title: Edward Waggoner - Operations Superintendent

Signature: 2831) 624-1249

Date: 1-26 - 2024

Annual Biosolids Monitoring Report

Period:

July 2023 - September 2023

Sample Date:

11-Jul-23

		EPA 503 pollution limits for land application		
		Pollutant Concentrations	Ceiling Concentrations	
Name	Concentration (mg/kg)	(40 CFR 503.13)	(40 CFR 503.13)	
POLLUTANTS	Dry Weight unless indicated	(monthly avg.)	(daily maximum)	
Antimony	ND			
Arsenic	ND	41 mg/Kg	75 mg/Kg	
Barium	68.1			
Beryllium	0.6			
Boron	12.9			
Cadmium	0.5	39 mg/Kg	85 mg/Kg	
Chromium	5.0			
Cobalt	ND			
Copper	195.0	1500 mg/Kg	4300 mg/kg	
Lead	8.2	300 mg/Kg	840 mg/kg	
Molybdenum	5.7		75 mg\kg	
Nickel	5.9	420 Mg/Kg	420 mg/Kg	
Phosphorus	10,000			
Selenium	2.1	100 mg/Kg	100 mg/Kg	
Silver	ND			
Thallium	ND			
Vanadium	1.9			
Zinc	325.0	2800 mg/Kg	7500 mg/Kg	
Ammonia Nitrogen	5510			
Cyanide, Total	0.11			
Nitrate Nitrogen	ND			
Nitrogen, Total Kjeldahl	2,870			
рН	6.7			
% Solids	23.8%			
Mercury	0.2	17 mg/Kg	57 mg/Kg	
Grease/Oil	560			
Hex Chromium	ND			

Pathogen Reduction (40 CFR 503.32)

Class B - (PSRP) Anaerobic Digestion at 95 F for minimum of 15 days

Vector Attraction Reduction (40 CFR 503.33)

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Name & Title: Edward Waggoner - Operations Superintendent

Telephone Number: (831) 624-1249

Date: 1-26-2024

Annual Biosolids Monitoring Report

Period: October 2023 - December 2023 Sample Date: 10-Oct-23

		EPA 503 pollution limits for land application		
		Pollutant Concentrations	Ceiling Concentrations	
Name	Concentration (mg/kg)	(40 CFR 503.13)	(40 CFR 503.13)	
POLLUTANTS	Dry Weight unless indicated	(monthly avg.)	(daily maximum)	
Antimony	ND			
Arsenic	ND	41 mg/Kg	75 mg/Kg	
Barium	57.7			
Beryllium	0.5			
Boron	8.8			
Cadmium	0.4	39 mg/Kg	85 mg/Kg	
Chromium	2.1			
Cobalt	ND			
Copper	135.0	1500 mg/Kg	4300 mg/kg	
Lead	3.9	300 mg/Kg	840 mg/kg	
Molybdenum	5.6		75 mg\kg	
Nickel	2.8	420 Mg/Kg	420 mg/Kg	
Phosphorus	6,920			
Selenium	ND	100 mg/Kg	100 mg/Kg	
Silver	14.1			
Thallium	ND			
Vanadium	1.3			
Zinc	302.0	2800 mg/Kg	7500 mg/Kg	
Ammonia Nitrogen	1150			
Cyanide, Total	ND			
Nitrate Nitrogen	ND			
Nitrogen, Total Kjeldahl	10,600			
рН	6.89			
% Solids	20.0%			
Mercury	0.9	17 mg/Kg	57 mg/Kg	
Grease/Oil	600			
Hex Chromium	ND			

Pathogen Reduction (40 CFR 503.32)

Class B - (PSRP) Anaerobic Digestion at 95 F for minimum of 15 days

Vector Attraction Reduction (40 CFR 503.33)

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Name & Title: Edward Waggoner - Operations Superintendent

Date: 1-26-2024