VOLUME VIII
Appendix L: 2020 Annual Biosolids Report

City of San Diego
Public Utilities Department

March 2022

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APPENDIX L

2020 ANNUAL BIOSOLIDS BENEFICIAL USE AND DISPOSAL REPORT

City of San Diego
Public Utilities Department

March 2022

The City of
SAN DIEGO
Public Utilities Department
Environmental Monitoring & Technical Services Division

February 17, 2021

Tony Felix, Water Resource Control Engineer
California Regional Water Quality Control Board
2375 Northside Drive, Suite 100
San Diego, CA 92108

Attn: POTW Compliance Unit

Dear Mr. Felix:

Enclosed is the 2020 Annual Biosolids Beneficial Use & Disposal Report as specified in the City of San Diego's Point Loma Wastewater Treatment Plant (PLWTP) discharge permit Order No. R9-2017-0007, NPDES No. CA0107409, Waste Discharge Requirements and 40 CFR 503.

An electronic report for Metro Biosolids Center (MBC), the City sludge management facility, is also generated and uploaded into https://cdx.epa.gov to comply with the Federal Biosolids Program's electronic reporting requirement.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Peter S. Vroom, Ph.D.
Public Utilities Deputy Director
Environmental Monitoring and Technical Services Division

ERM/caq

cc: File

2392 Kincaid Road, MS 45A
San Diego, CA 92101

T (619) 758-2300
F (619) 758-2309
sandiego.gov

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2020 Annual Biosolids Beneficial Use & Disposal Report

Facilities:

Sources of biosolids:	Biosolids treatment and processing:
Point Loma Wastewater Treatment Plant (PLWTP) 1902 Gatchell Rd., San Diego, CA 92106	Metro Biosolids Center (MBC) 5240 Convoy Street, San Diego, CA 92111
North City Water Reclamation Plant (NCWRP) 4949 Eastgate Mall, San Diego, CA 92121	Point Loma Wastewater Treatment Plant (PLWTP) 1902 Gatchell Rd., San Diego, CA 92106

The Point Loma Wastewater Treatment Plant (PLWTP) and the North City Water Reclamation Plant (NCWRP) produced and disposed of 124,164.35 wet tons/34,882.93 dry tons (31,645.80 dry metric tons) of digested sludge (biosolids) in 2020.

All digested sludge produced at the PLWTP was pumped to the Metro Biosolids Center (MBC) for dewatering by centrifuges. All biosolids were then hauled to a disposal site (Local Landfill) or beneficial use site. During this reporting period, all of the raw sludge produced at the NCWRP was diverted to MBC for thickening, degritting, digestion and blended with the digested solids from the PLWTP prior to dewatering. The MBC Monthly Biosolids Processing Reports (Solids Production) include the biosolids processed from the PLWTP and the NCWRP. Copies of the MBC Monthly Biosolids Processing Reports (Solids Production) and the MBC Biosolids Beneficial Use and Disposal Monthly Summary Reports detailing daily biosolids processing and beneficial use/disposal are included as Enclosures 1 and 5, respectively.

All of the sludge/biosolids produced by the City of San Diego's PLWTP and NCWRP were dewatered at MBC and disposition is summarized in the following table.

Disposition	Wet tons (short)	Dry tons[1]	Dry metric tons
Disposal in sanitary landfill	0.0	0.0	0.0
Beneficial reuse as Alternative Daily Cover (ADC) at landfill	0.0	0.0	0.0
Land application in Arizona	124,164.35	34,882.93	31,645.80

All Biosolids produced by the City of San Diego were treated to Class B standards through Anaerobic Digestion for a minimum of 15 days at a temperature of 35 to 55 degrees Centigrade (Alternative 3, Process 3). Vector Attraction requirements were achieved by reducing the volatile solids content a minimum of 38 percent (Option 1).

[1] (based on sum of monthly total tons)

Land Applier: Denali Water Solutions, LLC

Address: 3031 Franklin Ave. Key Street Riverside, CA 92507
Period: January 1, 2020 - December 31, 2020
Reuse method: Direct land application. Digested dewatered sludge from the MBC centrifuges were land applied directly to fields in Yuma County, AZ. The sludge was certified by the City of San Diego as meeting Class B pathogen and vector attraction reduction requirements of 40 CFR 503. Copies of the City of San Diego's certifications (which also serve as notification of nitrogen content) are included as Enclosure 2. Copies of Solid Solutions' certification statements are included as Enclosures 12 & 13.

Land Applier: Western Express Transporters

Address: 4464 E. 30th Place, Yuma, Arizona 85365
Period: January 1, 2020 - December 31, 2020
Reuse method: Direct land application. Digested dewatered sludge from the MBC centrifuges were land applied directly to fields in Yuma County, AZ. The sludge was certified by the City of San Diego as meeting Class B pathogen and vector attraction reduction requirements of 40 CFR 503. Copies of the City of San Diego's certifications (which also serve as notification of nitrogen content) are included as Enclosure 2. Copies of Western Express Transporters' certification statements are included as Enclosures 12 & 13.

The MBC provides two essential treatment processes: thickening and digestion of the raw solids from the NCWRP and dewatering of biosolids generated at the NCWRP and the PLWTP. The digested biosolids from the PLWTP are pumped to MBC in a 17-mile pipeline into one of the two storage tanks on site where it is blended with the digested biosolids from the NCWRP. Before these biosolids are sent to the dewatering process polymer is added to condition the biosolids, which enhances the dewaterability of the biosolids.

Eight dewatering centrifuges are used to separate the liquid and solids fractions of the conditioned biosolids. The liquid fraction (or centrate) is returned to the PLWTP via the Rose Canyon Interceptor and the solids recovered (or cake), is pumped to one of the ten storage silos on site before it is loaded into trucks for disposal and beneficial use as Alternative Daily Cover at Otay Landfill or beneficially used for land application in Yuma County, Arizona (see Table 1B and Table 1C).

The digested biosolids, centrate and dewatered cake are sampled on a daily basis to ensure regulatory compliance and to track plant process performance. Grab samples are collected daily on the incoming biosolids from the PLWTP and the blended biosolids, which includes the digested biosolids from the NCWRP. The Operations staff

also collects a 24- hour composite sample of the centrate return stream from the dewatering process and from the blended centrate return stream that includes the centrate flow from the thickening and dewatering processes.

Daily grab samples of dewatered cake are collected from each individual dewatering centrifuge that are in operation during the 24-hour period, and a portion of each of these grab samples are combined to provide a daily composite of dewatered cake produced. All sampling at MBC is performed by Operations staff in conformance with established sampling techniques listed in Standard Methods. Samples are analyzed by the City wastewater chemistry lab, which is accredited by the State of California Environmental Laboratory Accreditation Program (CAELAP) as well as the Arizona Department of Health Services (AZDHS), using 40CFR approved methods or certified methods listed under Standard Methods.

Because the dewatered cake samples are a daily composite and the Land Appliers' (Solids Solutions aka Denali and Western Express Transporters aka AG Tech, LLC) samples are a monthly grab sample, the dry ton calculations may differ slightly.

Biosolids used for all uses in 2020 continued to meet all regulatory requirements. Concentration of pollutants were all well below the limits listed in California Title 22 Hazardous Waste thresholds including TTLC (Total Threshold Limit Concentration), STLC (Soluble Threshold Limit Concentration), and 40 CFR part 503.13 Table 3 "Limits for Land Application", with the lower lead limit established by the California State Health and Safety Code 25157.8. Biosolids also met the A.C.C. (Arizona Administrative Code) R18-9-1005 Table 2, Monthly Average Pollutant Concentration limits.

Additional analyses, including the rest of the "priority pollutant list"[2], were performed during 2020 and the reports of these analyses are included in Enclosure 8.

Table 1.A. Landfill location used during 2020 is as follows:

N/A	0 wet tons (0 dry tons/0 dry metric tons), based on sum of monthly totals disposed of from January to December 2020 at this landfill.

No biosolids were shipped to or disposed of at a surface disposal site.

No biosolids were disposed of or reused by any other method than those listed above.

[2] Includes volatile organic compounds, phenols, base/neutral organic compounds, organophosphorus pesticides, chlorinated pesticides and PCBs.

Table 1B. Annual Biosolids Beneficial Use & Landfill Disposal Summary

2020 Month	Otay Landfill Beneficial Use[1] (PTL) (wet Tons)	Otay Landfill Beneficial Use[1] (MBC) (wet Tons)	Otay Landfill (PTL) (wet Tons)	Otay Landfill (MBC) (wet Tons)	Otay Landfill Total (wet Tons)	AZ Total (wet Tons)	Total Dry Tons	Total Biosolids (dry metric tons)
January					0.00	9,985.68	2,953.76	2,679.65
February					0.00	9,572.03	2,814.18	2,553.02
March					0.00	9,730.66	2,815.22	2,553.97
April					0.00	9,510.82	2,777.16	2,519.44
May					0.00	9,677.27	2,767.70	2,510.86
June					0.00	10,788.90	2,966.95	2,691.61
July					0.00	11,272.60	2,998.51	2,720.25
August					0.00	8,873.79	2,395.92	2,173.58
September					0.00	11,995.45	3,226.78	2,927.33
October					0.00	11,792.27	3,148.54	2,856.35
November					0.00	10,247.74	2,797.63	2,538.01
December					0.00	11,415.37	3,230.55	2,930.75
Total:					0.00	124,862.58	34,892.90	31,654.84
Monthly Average:					0.00	10,405.22	2,907.74	2,637.90

No Biosolids were shipped to, disposed of, or beneficially used at Otay landfill.
Biosolids generated by Point Loma/MBC were land applied in Arizona.

Table 1C. 2020 Biosolids Land Application

		Cullison Farms YM-2										Harquahala Valley Farms YM-6								Total	Total	Total
		Field YM		Field YM		Field YM		Field YM		Field YM 2-161		Field MA 7-1002		Field MA 7-2404		Field MA 7-0901		Field MA 7-1006		Monthly	Monthly	Metric
		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Maricopa County, AZ		Maricopa County, AZ		Maricopa County, AZ		County, AZ				
2020 Month	%TS	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	dry tons
January	29.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00											0.00	0.00	0.00
February	29.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			805.31	236.76	592.69	174.25	738.53	217.13	1,051.59	309.17	3,188.12	937.31	850.33
March	29.1					0.00	0.00	0.00	0.00	342.37	99.63									342.37	99.63	90.38
April	29.2	0.00	0.00	0.00	0.00	0.00	0.00			241.54	70.53									241.54	70.53	63.98
May	28.6																			0.00	0.00	0.00
June	27.5																			0.00	0.00	0.00
July	26.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00											0.00	0.00	0.00
August	27.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00											0.00	0.00	0.00
September	26.9																			0.00	0.00	0.00
October	26.7																			0.00	0.00	0.00
November	27.3																			0.00	0.00	0.00
December	28.3																			0.00	0.00	0.00
2020 Totals	Avg =28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3,188.12	170.16	805.31	236.76	592.69	174.25	738.53	217.13	1,051.59	309.17	6,376.24	1,107.47	1,004.69

		Rutgers Farms YM-6																		Total	Total	Total
		Field MA 7-2403		Field MA 7-1001		Field MA		Field MA		Field MA 8-21		Field MA 8-23		Field YM		Field YM		Field YM		Monthly	Monthly	Metric
		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		County, AZ				
2020 Month	%TS	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	dry tons
January	29.6	615.18	181.97	1,051.03	310.89	0.00	0.00	0.00	0.00											1,666.21	492.86	447.13
February	29.4																			0.00	0.00	0.00
March	29.1									443.81	129.15	393.14	114.40	0.00	0.00					1,104.86	321.51	291.68
April	29.2																			0.00	0.00	0.00
May	28.6																			0.00	0.00	0.00
June	27.5																			0.00	0.00	0.00
July	26.6													0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
August	27.0													0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
September	26.9																			0.00	0.00	0.00
October	26.7																			0.00	0.00	0.00
November	27.3																			0.00	0.00	0.00
December	28.3																			0.00	0.00	0.00
2020 Totals	Avg =28	615.18	181.97	1,051.03	310.89	0.00	0.00	0.00	0.00	443.81	129.15	393.14	114.40	0.00	0.00	0.00	0.00	0.00	0.00	2,771.07	814.38	738.80

Field YM		Field MA 7-1006		Total	Total	Total
Yuma County, AZ		Yuma County, AZ		Monthly	Monthly	Metric
wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	dry tons
0.00	0.00	267.91	77.96	267.91	77.96	77.96

		Anderson Farms YM-8																	
		Field YM8-13		Field YM		Field YM		Field YM		Field YM		Field YM8-14		Field YM7-1007		Field YM8-14		Field YM8-6	
		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		County, AZ	
2020 Month	%TS	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons
January	29.6	1,101.51	325.83	0.00	0.00	0.00	0.00	0.00	0.00										
February	29.4			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
March	29.1			0.00	0.00									316.28	92.04				
April	29.2																		
May	28.6			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
June	27.5			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
July	26.6			0.00	0.00	0.00	0.00	0.00	0.00										
August	27.0			0.00	0.00	0.00	0.00	0.00	0.00										
September	26.9			0.00	0.00			0.00	0.00										
October	26.7			0.00	0.00	0.00	0.00	0.00	0.00									612.64	163.57
November	27.3			0.00	0.00	0.00	0.00	0.00	0.00							198.83	54.28		
December	28.3			0.00	0.00	0.00	0.00					150.78	42.67			24.51	6.94		
2020 Totals	Avg =28	1,101.51	325.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	150.78	42.67	316.28	92.04	223.34	61.22	612.64	163.57

Field YM8-7		Total Monthly	Total Monthly	Total Metric
Yuma County, AZ				
wet tons	dry tons	wet tons	dry tons	dry tons
		1,101.51	325.83	295.59
		0.00	0.00	0.00
		316.28	92.04	83.50
		0.00	0.00	0.00
		0.00	0.00	0.00
		0.00	0.00	0.00
360.34	95.85	360.34	95.85	86.96
0.00	0.00	0.00	0.00	0.00
614.64	165.34	614.64	165.34	149.99
		612.64	163.57	148.40
		198.83	54.28	49.24
		175.29	49.61	45.00
974.98	261.19	3,379.53	946.52	858.68

		Skouson Farms																	
		Field YM9-49		Field YM9-53		Field YM9-19		Field YM		Field YM		Field YM		Field YM		FIELD YM N			
		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ			
2020 Month	%TS	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	Total Monthly wet tons	Total Monthly dry tons	Total Metric dry tons
January	0.0	708.59	209.60	489.41	144.77	343.89	101.72	0.00	0.00									1,541.89	456.09	413.77
February	0.0				0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
March	0.0																	0.00	0.00	0.00
April	0.0																	0.00	0.00	0.00
May	0.0							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
June	0.0							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
July	0.0							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
August	0.0							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00
September	0.0							0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00
October	0.0																	0.00	0.00	0.00
November	0.0																	0.00	0.00	0.00
December	0.0																	0.00	0.00	0.00
2020 Totals	Avg =0	708.59	209.60	489.41	144.77	343.89	101.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,541.89	456.09	413.77

		Tule Ranch YM-J															
		Field YM J-5		Field YM		Field YM		Field YM		Field YM J-4		Field DU-8		Field YM		Field YM-DU13	
		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ		Yuma County, AZ	
2020 Month	%TS	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons
January	0.0	5,676.07	1,678.98	0.00	0.00	0.00	0.00	0.00	0.00								
February	0.0	1,602.45	471.12	0.00	0.00	0.00	0.00	0.00	0.00	4,781.46	1,405.75						
March	0.0			0.00	0.00	0.00	0.00			3,279.59	937.96						
April	0.0			0.00	0.00	0.00	0.00							0.00	0.00		
May	0.0			0.00	0.00	0.00	0.00										
June	0.0			0.00	0.00	0.00	0.00	0.00	0.00								
July	0.0					0.00	0.00										
August	0.0			0.00	0.00	0.00	0.00	0.00	0.00								
September	0.0			0.00	0.00	0.00	0.00	0.00	0.00								
October	0.0			0.00	0.00	0.00	0.00	0.00	0.00								
November	0.0			0.00	0.00	0.00	0.00	0.00	0.00							10,048.91	2,743.35
December	0.0			0.00	0.00	0.00	0.00	0.00	0.00			11,240.08	3,180.94				
2020 Totals	Avg =0	7,278.52	2,150.10	0.00	0.00	0.00	0.00	0.00	0.00	8,061.05	2,343.71	11,240.08	3,180.94	0.00	0.00	10,048.91	2,743.35

Field YM J-10		Field YM N				
County, AZ		Yuma County, AZ		Total Monthly	Total Monthly	Total Metric
wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	dry tons
				5,676.07	1,678.98	1,523.17
				6,383.91	1,876.87	1,702.70
4,687.56	1,364.08			7,967.15	2,302.04	2,088.41
9,269.28	2,706.63			9,269.28	2,706.63	2,455.45
2,398.51	685.97	7,278.76	2,081.73	9,677.27	2,767.70	2,510.86
		10,788.90	2,966.95	10,788.90	2,966.95	2,691.61
		10,912.26	2,902.66	10,912.26	2,902.66	2,633.29
		8,873.79	2,395.92	8,873.79	2,395.92	2,173.58
		11,380.81	3,061.44	11,380.81	3,061.44	2,777.34
		11,179.63	2,984.96	11,179.63	2,984.96	2,707.96
				10,048.91	2,743.35	2,488.77
				11,240.08	3,180.94	2,885.75
16,355.35	4,756.68	60,414.15	16,393.66	113,398.06	31,568.45	28,638.90

2020 Month	Total Monthly wet tons	Total Monthly dry tons	Total Metric dry tons
January	9,985.68	2,953.76	2,679.65
February	9,572.03	2,814.18	2,553.02
March	9,730.66	2,815.22	2,553.97
April	9,510.82	2,777.16	2,519.44
May	9,677.27	2,767.70	2,510.86
June	10,788.90	2,966.95	2,691.61
July	11,272.60	2,998.51	2,720.25
August	8,873.79	2,395.92	2,173.58
September	11,995.45	3,226.78	2,927.33
October	11,792.27	3,148.54	2,856.35
November	10,247.74	2,797.63	2,538.01
December	11,415.37	3,230.55	2,930.75
2020 Totals	127,466.79	34,892.90	31,654.84

Table 1D. Other Solids disposal (weights are gross wet weight)

2020 Month:	Copper Mountain Landfill **Scum (Tons)**	Copper Mountain Landfill Digester Cleanings (TONS)	Otay Landfill **Scum (Tons)**	Otay Landfill **Digester Cleanings (Tons)**	South Yuma Landfill **Scum (Tons)**	Miramar Landfill **Grit (Tons)**	Miramar Landfill **Rags & Screenings (Tons)**
January	19.09					847.59	772.66
February	14.37		0.00	0.00		125.49	693.82
March	17.32		10.19	0.00		126.84	716.88
April	20.61		0.00			143.72	668.64
May	32.67		0.00			135.27	651.48
June	48.91		0.00			156.61	674.07
July	36.74	1,299.39	0.00			111.80	700.68
August	15.92	0.00	0.00			137.60	686.65
September	16.49	1,025.76	5.46			131.09	586.67
October	18.31	2,765.76	0.00			114.98	699.52
November	15.68					121.45	306.63
December	37.75					103.73	380.31
Total:	293.86	5,090.91	15.65	0.00		2,256.17	7,538.01
Average:	24.49	1,272.73	1.74	0.00		188.01	628.17

Point Loma Annual Monitoring Report

Solids Report – TOTALS

2020

Month	Pt. Loma Raw sludge Gallons	Dry Tons	Pt.Loma Digested Sludge Gallons	Dry Tons	MBC Combined Centrate Gallons	Dry Tons	Dewatered Sludge Wet Tons	Dry
01	35,465,132	6,211	35,465,132	3,373	66,350,545	629	9,986	2,953
02	32,271,443	5,603	32,271,443	2,961	60,909,748	666	9,572	2,816
03	34,717,145	5,750	34,717,145	3,495	69,220,571	619	9,725	2,827
04	33,529,209	6,346	33,529,209	3,419	58,835,696	597	9,511	2,774
05	33,541,220	5,525	33,541,220	3,259	67,922,131	653	9,677	2,767
06	35,734,853	5,995	35,734,853	3,542	66,522,240	726	10,789	2,964
07	36,655,895	5,936	36,655,895	3,592	69,999,157	819	11,273	2,993
08	34,669,776	5,761	34,669,776	3,373	68,144,861	843	9,018	2,430
09	31,829,542	5,176	31,829,542	3,179	71,308,277	922	11,996	3,225
10	36,873,864	5,985	36,873,864	3,620	69,553,320	917	11,793	3,150
11	35,609,919	5,672	35,609,919	3,440	68,857,188	847	10,248	2,792
12	37,797,175	5,937	37,797,175	3,503	70,483,488	868	11,415	3,228
avg	34,891,264	5,825	34,891,264	3,396	67,342,269	759	10,417	2,910
sum	418,695,173	69,896	418,695,173	40,756	808,107,222	9,106	125,002	34,919

Solids Report - Daily Averages by Month

2020

Year Month	Pt. Loma Raw sludge Gallons	%TS	Dry Tons	Pt.Loma Digested Sludge Gallons	%TS	Dry Tons	MBC Combined Centrate Gallons	%TS	Dry Tons	Dewatered Sludge Wet Tons	%TS	Dry Tons
20-01	1,144,037	4.2	204	1,144,037	2.3	109	2,140,340	0.23	20.3	322	29.6	95.3
20-02	1,112,808	4.2	189	1,112,808	2.2	102	2,100,336	0.26	23.0	330	29.4	97.1
20-03	1,119,908	4.0	181	1,119,908	2.4	113	2,232,922	0.21	20.0	314	29.1	91.2
20-04	1,117,640	4.5	211	1,117,640	2.4	114	1,961,190	0.24	19.1	317	29.2	92.5
20-05	1,081,975	4.0	170	1,081,975	2.3	103	2,191,037	0.23	21.1	312	28.6	89.3
20-06	1,191,162	4.0	192	1,191,162	2.4	119	2,217,408	0.26	24.2	360	27.5	98.8
20-07	1,182,448	3.9	191	1,182,448	2.4	115	2,258,037	0.28	26.4	364	26.6	96.5
20-08	1,118,380	4.0	180	1,118,380	2.3	107	2,198,221	0.30	27.5	291	26.9	78.4
20-09	1,060,985	3.9	169	1,060,985	2.4	106	2,376,943	0.31	30.7	400	26.9	107.5
20-10	1,189,479	3.9	191	1,189,479	2.4	117	2,243,656	0.32	29.6	380	26.7	101.6
20-11	1,186,997	3.8	186	1,186,997	2.3	114	2,295,240	0.30	28.2	342	27.2	93.1
20-12	1,219,264	3.8	188	1,219,264	2.2	113	2,273,661	0.30	28.0	368	28.3	104.1
avg	1,143,757	4.0	188	1,143,757	2.3	111	2,207,416	0.27	24.8	342	28.0	95.4

Note: A ton is a “short ton” or 2000 lbs of dry solids.
The mechanical condition of the cake pumps and the variability of sludge concentrations can affect the overall accuracies of these reported values.

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Enclosure 2 Copies of Monthly Vector Attraction Reduction Certifications for 2020

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CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT
CERTIFICATION STATEMENT

In Compliance with
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the City of San Diego Public Utilities Department

VECTOR ATTRACTION REDUCTION

The daily fractional volatile solids reduction (FVSR) values were calculated using the Van Kleck Equation and raw and digested sludge volatile solids for the month of JAN 2020 from locations based on the following information from Operations staff:

All sludge sent to Metro Biosolids Center (MBC) from the Pt. Loma WWTP is pumped from Digester 7.
Only North City Water Reclamation Plant (NCWRP) raw sludge is going to MBC digesters.
The MBC thickened sludge samples are representative of the raw sludge from NCWRP.
MBC is using Digester No.1 for sludge processing.

The following determinations of volatile solids were done using approved methods by a laboratory certified by the State of Arizona (Cert. No. AZ0783)

62.0 % Average Volatile Solids Reduction for the Pt. Loma WTP sludge digestion process.
63.0 % Average Volatile Solids Reduction for the sludge MBC treats from the NCWRP.

Both streams **do** / ~~do not~~ meet 38% FVSR criteria.

Environmental Chemistry Laboratory Senior Chemist — Date 2/27/2020

I certify that the sludge samples taken and used in these determinations were taken and handled under my direction and supervision using approved methods and are representative samples of actual operational conditions.

Wastewater Treatment Superintendent, Metro Biosolids Center (MBC) — Date 3/11/20

Wastewater Treatment Superintendent, Pt. Loma Wastewater Treatment Plant — Date 3/20/20

CERTIFICATION STATEMENT
VECTOR ATTRACTION REQUIREMENTS

I certify, under penalty of law, the vector attraction reduction requirement in Paragraph 503.33 (b) (1) which states that:
The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent, has 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 vector reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

By:

Chief Plant Operator
Wastewater Treatment and Disposal — Date 3/25/20

FVSR (Fractional Volatile Solids Reduction)

$$FVSR = \frac{VS_p - VS_b}{VS_p - (VS_p * VS_b)} = \frac{Vol.solids Raw - Vol.solids\ Digested}{Vol.solids\ Raw - (Vol.solids\ Raw * Vol.solids\ Digested)}$$

Where: VS_p = Volatile Solids Feed Sludge (RAW SLUDGE),
VS_b = Volatile Solids Digested Sludge (DIG SLUDGE), currently only digester 7 is used for the calculation.

Volatile Solids (VS) is expressed as fractional numbers.

Average Volatile Solids for JAN 2020

Average %TVS Digested Sludge (Digester 7) for the month.	Average Raw (feed) sludge %TVS for the month	Calculated FVSR (%)
CA Lab data used.	CA Lab data used	CA Lab data used
61.2	80.6	62.0%

Average Volatile Solids for JAN 2020

Average %TVS Digested Sludge (MBC Dig 1) for the month.	Average Raw (feed) sludge (MBC_TSBTC) %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
68.2	85.3	63.0%

Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\METALS\TS_VS_DSLDG\20009TS28

ALVARADO WASTEWATER CHEMISTRY LAB.
ARIZONA DH No. AZ0783
Total and Volatile Solids

BATCH ID: 20009TS28 ANALYSIS DATE: 1/9/2020 PROTOCOL: SM2540G/EPA160.4
ANALYSIS: TS/VS_SLDG MDL(%): 0.24
ANALYST: TJCANNON LCS TRUE VALUE: 3.9

SAMPLE ID	SAMPLE DATE	SOURCE	TEST TYPE	DISH ID	TARE WT grams	WET WT grams	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TS	COMMENTS
Standard Methods 2540B for the Determination of Residue (%TS)												
P1143076	1/9/2020	LAB	BLNK	DIG7	72.85	111.9200	72.84	9:02 AM	72.85	11:56 AM	ND	
P1143077	1/9/2020	LAB	LCS	6	72.36	105.8300	73.67	9:02 AM	73.66	11:56 AM	3.9	%REC= 100
P1139567	1/7/2020	MBC_DIG1		LA	79.22	113.8800	79.77	9:02 AM	79.77	11:56 AM	1.6	
P1139567	1/7/2020	MBC_DIG1	DUP	CR	80.45	120.2500	81.06	9:02 AM	81.06	11:56 AM	1.5	%RPD =6.5
P1139566	1/7/2020	MBC_TSBTC		S6	75.59	122.0200	77.48	9:02 AM	77.5	11:56 AM	4.1	
P1139565	1/7/2020	PLDIG7		7	79.36	111.7700	80.02	9:02 AM	80.03	11:56 AM	2.1	
P1139564	1/7/2020	RAW COMP		RJ	75.74	118.5300	77.6	9:02 AM	77.6	11:56 AM	4.3	
						FINAL WT (g)						
EPA Method 160.4 for %TVS at 550°C					TARE WT (g)	Total Solids	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TVS	
P1143076	1/9/2020	LAB	BLNK	DIG7	72.85	72.85						
P1143077	1/9/2020	LAB	LCS	6	72.36	73.66						
P1139567	1/7/2020	MBC_DIG1		LA	79.22	79.77	79.39	9:48 AM	79.39	12:17 PM	69.1	
P1139567	1/7/2020	MBC_DIG1	DUP	CR	80.45	81.06	80.6400	9:48 AM	80.6500	12:17 PM	67.2	%RPD =2.8
P1139566	1/7/2020	MBC_TSBTC		S6	75.59	77.5	75.87	9:48 AM	75.87	12:17 PM	85.3	
P1139565	1/7/2020	PLDIG7		7	79.36	80.03	79.62	9:48 AM	79.6200	12:17 PM	61.2	
P1139564	1/7/2020	RAW COMP		RJ	75.74	77.6	76.12	9:48 AM	76.1000	12:17 PM	80.6	

1st Entry_____ 2nd Entry_____ Final Entry_____

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-JAN-2020 to 31-JAN-2020

Source: MBCDEWCN
Sample ID: P1143475
Sample Date: 31-JAN-20

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	6.37	1.86	500	*	15.00		
Arsenic	0.31	MG/KG	4.09	1.19	500	*	5.00	41	
Barium	0.31	MG/KG	256	74.8	10000	*	100.00		
Beryllium	0.01	MG/KG	0.03	0.009	75	*	0.75		
Cadmium	0.036	MG/KG	0.27	0.077	100	*	1.00	39	
Chromium (VI)			NA		500	NA	5.00		
Chromium	0.1	MG/KG	60.1	17.6	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.19	0.931	8000	*	80.00		
Copper	2.4	MG/KG	564	165	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	9.60	2.80	1000	*	5.00	300	350
Mercury	0.059	MG/KG	0.552	0.161	20	*	0.20	17	
Molybdenum	0.1	MG/KG	15.3	4.47	3500	*	350.00		
Nickel	0.6	MG/KG	26.4	7.71	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.43	1.88	100	*	1.00	100	
Silver	0.27	MG/KG	2.98	0.870	500	*	5.00		
Thallium	0.2	MG/KG	DNQ0.247	DNQ0.072	700	*	7.00		
Vanadium	0.1	MG/KG	26.9	7.86	2400	*	24.00		
Zinc	0.8	MG/KG	913	267	5000	*	250.00	2,800	
Fluoride	4.6	MG/KG	36	10.5	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	6140	1790					
Total Solids		WT%	29.2						
Total Volatile Solids		WT%	60.2						
pH		PH	7.94		>2 ~ <12				
Ammonia-N	28	MG/KG	9100						
Nitrite Nitrate Calc		MG/KG	31.8						
Organic Nitrogen Calc.		MG/KG	49700						
Total Kjeldahl Nitrogen		MG/KG	58800						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0016	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
2,4-D			NA	NA	100	NA	10.00		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.001	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.28	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0209	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699. All determinations were done using approved methods by laboratories certified by the State of Arizona (Cert. No. AZ0783).

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - *Centrifuge Dewatered Sludge*

I. INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuged dewatered sludge samples taken from the centrifuges over the calendar month of January 2020. All analyses were performed by the City of San Diego's Environmental Chemistry Services Laboratory using methods certified by the State of Arizona (Cert. No. AZ0783).

Metals from Table 3 of Paragraph 503.13†
(All concentrations in dry weight)

Parameter	Value	Units	503 Limit	Units
Arsenic	4.09	mg/Kg	41	mg/Kg
Cadmium	0.27	mg/Kg	39	mg/Kg
Chromium	60.1	mg/Kg	1,200	mg/Kg
Copper	564	mg/Kg	1,500	mg/Kg
Lead	9.60	mg/Kg	300	mg/Kg
Mercury	0.552	mg/Kg	17	mg/Kg
Molybdenum	15.3	mg/Kg	75	mg/Kg^
Nickel	26.4	mg/Kg	420	mg/Kg
Selenium	6.43	mg/Kg	100	mg/Kg
Zinc	913	mg/Kg	2,800	mg/Kg
Total Nitrogen#	5.88	Wt %		
Date of Sample	31-Jan-2020			
Total Solids	29.2	Wt %		
Volatile Solids	60.2	Wt %		

† Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist
Environmental Chemistry Laboratory,
Arizona State Cert. No. AZ0783

2/27/2020
Date

VAR CERT. Form
Revised 7/6/2000

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-JAN-2020 to 31-JAN-2020

Source: MBCDEWCN
Sample ID: P1143475
Sample Date: 31-JAN-20

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	6.37	1.86	500	*	15.00		
Arsenic	0.31	MG/KG	4.09	1.19	500	*	5.00	41	
Barium	0.31	MG/KG	256	74.8	10000	*	100.00		
Beryllium	0.01	MG/KG	0.03	0.009	75	*	0.75		
Cadmium	0.036	MG/KG	0.27	0.077	100	*	1.00	39	
Chromium (VI)			NA		500	NA	5.00		
Chromium	0.1	MG/KG	60.1	17.6	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.19	0.931	8000	*	80.00		
Copper	2.4	MG/KG	564	165	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	9.60	2.80	1000	*	5.00	300	350
Mercury	0.059	MG/KG	0.552	0.161	20	*	0.20	17	
Molybdenum	0.1	MG/KG	15.3	4.47	3500	*	350.00		
Nickel	0.6	MG/KG	26.4	7.71	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.43	1.88	100	*	1.00	100	
Silver	0.27	MG/KG	2.98	0.870	500	*	5.00		
Thallium	0.2	MG/KG	DNQ0.247	DNQ0.072	700	*	7.00		
Vanadium	0.1	MG/KG	26.9	7.86	2400	*	24.00		
Zinc	0.8	MG/KG	913	267	5000	*	250.00	2,800	
Fluoride	4.6	MG/KG	36	10.5	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	6140	1790					
Total Solids		WT%	29.2						
Total Volatile Solids		WT%	60.2						
pH		PH	7.94		>2 - <12				
Ammonia-N	28	MG/KG	9100						
Nitrite Nitrate Calc		MG/KG	31.8						
Organic Nitrogen Calc.		MG/KG	49700						
Total Kjeldahl Nitrogen		MG/KG	58800						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0016	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
2,4-D			NA	NA	100	NA	10.00		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.001	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.28	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0209	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

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Monthly Sludge Composite Certification - *Centrifuge Dewatered Sludge*

I. INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuged dewatered sludge samples taken from the centrifuges over the calendar month of January 2020.

Metals from Table 3 of Paragraph 503.13†
(All concentrations in dry weight)

Parameter	Value	Units	503 Limit	Units
Arsenic	4.09	mg/Kg	41	mg/Kg
Cadmium	0.27	mg/Kg	39	mg/Kg
Chromium	60.1	mg/Kg	1,200	mg/Kg
Copper	564	mg/Kg	1,500	mg/Kg
Lead	9.60	mg/Kg	300	mg/Kg
Mercury	0.552	mg/Kg	17	mg/Kg
Molybdenum	15.3	mg/Kg	75	mg/Kg^
Nickel	26.4	mg/Kg	420	mg/Kg
Selenium	6.43	mg/Kg	100	mg/Kg
Zinc	913	mg/Kg	2,800	mg/Kg
Total Nitrogen#	5.88	Wt %		
Date of Sample	31-JAN-2020			
Total Solids	29.2	Wt %		
Volatile Solids	60.2	Wt %		

† Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist
Environmental Chemistry Laboratory,
California State ELAP Cert. No. 1609

2/27/2020
Date

VAR CERT. Form
Revised 7/6/2000

The City of SAN DIEGO

PUBLIC UTILITIES DEPARTMENT
ENVIRONMENTAL MONITORING & TECHNICAL SERVICES DIVISION
ENVIRONMENTAL CHEMISTRY SERVICES SECTION
5530 Kiowa Drive
La Mesa, CA 91942
(619) 668-3215

SAMPLING REPORT & CHAIN OF CUSTODY RECORD

Project/Client:	Quarterly Dewatered Sludge/MBC	Contact Name:	Richard Pitchford	Type of Sampling Equipment/How sample obtained/other sampling notes:
Contact Name:	Estella Lanez	Sampler/s:	Susan B. / ELEANOR B. / Josh G.	
Phone:	(619)221-8352	Phone:	(858) 614 - 5509	

Sample Information: (All information is required) Number of attachments:

Date/Time Sample Taken	Source / Location	Sample Type/Description	Grab / Composite	Vol / wt (mL / L / g)	Number of containers	Container Type	Preservative cool, ≤ °6C	Analyses requested	Sample Log Number (Lab use only)	Sample Temperature (Lab use only)
01/31/2020 @2359	MBCDEWCN	DW sludge	Comp	10L	1	G	≤6.0°C	*	P1143475	2.6°C
02/03/2020 @ 9:10	Field Blank	Reagent water	Grab	40ml	1	G	≤6.0°C	Volatiles	P1143476	1.1°C
01/31/2020 @2359	Centrate	Wastewater	Comp	1L	1	P	≤6.0°C	Metals, Hg	P1139458	1.4°C

Chain-of-Custody

Relinquished by: Name: Joshua Rambo Sign:	Date & Time 2/3/2020 0900 Location: MBC	Received by: Name: Susan Bayooz Sign:	Date & Time 02/03/2020 0900 Location: MBC
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:

Sample Condition Received in Lab

Temperature In Compliance:	(Y) N		
Container Intact:	(Y) / N	Preserved:	Y / (N) / NA
Received On Ice:	Y / (N)	Preserved at Lab:	(Y) / N

Comments

*Analysis Assigned: Metals, Hg, ~~Pesticides, 8260B,~~ Dioxins, Sulfides, Anions, Paint filter test, TKN, Ammonia

See instructions, on reverse, for completing this form. Original-retained by lab 1st copy – Transporter Last copy - for sample originator

FIGURE 2a

METRO BIOSOLIDS CENTER SLUDGE COMPOSITE DAILY SAMPLE LOG

For Month of : January 2020

Date	Day	Time	Source *	Sampler	Notes
01/01/20	W	8:30	1,3,5,7	RSLane	
01/02/20	Th	0715	1,3,5,7	MN	
01/03/20	F	0720	1,3,7	MN	
01/04/20	Sat	8:30	1,3,7	RSLane	
01/05/20	Sn	0730	1,3,7	LK	
01/06/20	M	0700	1,3,5,7	LC	
01/07/20	Tu	0700	1,3,5,7	LL	
01/08/20	W	0700	1 3 5 7	E.N.	
01/09/20	Th	0700	3 5 7	E.N.	
01/10/20	F	0700	3,5,7	SL	
01/11/20	Sat	0700	3,5,7	RSLane	
01/12/20	Su	0730	3,4,5,7	Kaiser	
01/13/20	M	0700	1,3,4,8	LC	
01/14/20	Tu	0700	4,5,7	LL	
01/15/20	W	0700	1 4 5 7	E.N	
01/16/20	Th	0700	1 4 5	E.N.	
01/17/20	F	0700	1,4,5,8	LC	
01/18/20	Sat	0800	1,4,5,8.	SC	
01/19/20	Su	0925	1,4,5,8	MN	
01/20/20	M	0930	1,4,5,8	LK	
01/21/20	Tu	0820	1,4,5,8	MN	
01/22/20	W	0642	1,4,5,8	MN	
01/23/20	Th	0700	1,4,5,8	LC	
01/24/20	F	0700	1,3,4,8	BK	
01/25/20	Sat	0800	1,3,4,8	SC	
01/26/20	Su	0730	1 3 4 8	LK	
01/27/20	M	0700	1 3 4 7	E.N	
01/28/20	Tu	0700	4,5,7	LC	
01/29/20	W	0700	4 5 7	E.N.	
01/30/20	Th	0700	1 4 5 7	E.N.	
01/31/20	F	0700	1 4 5 7	GC	

Print
Supervisor's Name: John Cauzza Sign: John Cauzza

Date: 1-31-20

* Samples taken from the MBC Dewatering Centrifuges.

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT
CERTIFICATION STATEMENT

In Compliance with
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the City of San Diego Public Utilities Department

VECTOR ATTRACTION REDUCTION

The daily fractional volatile solids reduction (FVSR) values were calculated using the Van Kleck Equation and raw and digested sludge volatile solids for the month of FEB 2020 from locations based on the following information from Operations staff:

All sludge sent to Metro Biosolids Center (MBC) from the Pt. Loma WWTP is pumped from Digester 7.
Only North City Water Reclamation Plant (NCWRP) raw sludge is going to MBC digesters.
The MBC thickened sludge samples are representative of the raw sludge from NCWRP.
MBC is using Digester No.1 for sludge processing.

The following determinations of volatile solids were done using approved methods by a laboratory certified by the State of Arizona (Cert. No. AZ0783)

58.5 % Average Volatile Solids Reduction for the Pt. Loma WTP sludge digestion process.
65.9 % Average Volatile Solids Reduction for the sludge MBC treats from the NCWRP.

Both streams **do** / ~~do not~~ meet 38% FVSR criteria.

Environmental Chemistry Laboratory Senior Chemist — Date 3/30/2020

I certify that the sludge samples taken and used in these determinations were taken and handled under my direction and supervision using approved methods and are representative samples of actual operational conditions.

Wastewater Treatment Superintendent, Metro Biosolids Center (MBC) — Date 4/21/20

Wastewater Treatment Superintendent, Pt. Loma Wastewater Treatment Plant — Date 5-1-20

CERTIFICATION STATEMENT
VECTOR ATTRACTION REQUIREMENTS

I certify, under penalty of law, the vector attraction reduction requirement in Paragraph 503.33 (b) (1) which states that:
The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent, has 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 vector reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

By:

Chief Plant Operator
Wastewater Treatment and Disposal — Date 5/5/20

FVSR (Fractional Volatile Solids Reduction)

$$FVSR = \frac{VS_p - VS_b}{VS_p - (VS_p * VS_b)} = \frac{Vol.solidsRaw - Vol.solids\ Digested}{Vol.solids\ Raw - (Vol.solids\ Raw * Vol.solids\ Digested)}$$

Where: VS_p = Volatile Solids Feed Sludge (RAW SLUDGE),
VS_b = Volatile Solids Digested Sludge (DIG SLUDGE), currently only digester 7 is used for the calculation.

Volatile Solids (VS) is expressed as fractional numbers.

Average Volatile Solids for FEB 2020

Average %TVS Digested Sludge (Digester 7) for the month.	Average Raw (feed) sludge %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
62.4	80.0	58.5%

Average Volatile Solids for FEB 2020

Average %TVS Digested Sludge (MBC Dig 1) for the month.	Average Raw (feed) sludge (MBC_TSBTC) %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
70.1	87.3	65.9%

Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\METALS\TS_VS_DSLDG\20037TS73

ALVARADO WASTEWATER CHEMISTRY LAB.
ARIZONA DH No. AZ0783
Total and Volatile Solids

BATCH ID: 20037TS73 ANALYSIS DATE: 2/6/2020 PROTOCOL: SM2540G/EPA160.4
ANALYSIS: TS/VS_SLDG MDL(%): 0.24
ANALYST: TJCANNON LCS TRUE VALUE: 3.9

SAMPLE ID	SAMPLE DATE	SOURCE	TEST TYPE	DISH ID	TARE WT grams	WET WT grams	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TS	COMMENTS
Standard Methods 2540B for the Determination of Residue (%TS)												
P1150407	2/6/2020	LAB	BLNK	HE	73.85	113.53	73.84	8:47 AM	73.84	12:00 AM	ND	
P1150408	2/6/2020	LAB	LCS	XL	80.6	129.54	82.5	8:47 AM	82.5	12:00 AM	3.9	%REC= 100
P1143941	2/4/2020	MBC_DIGI		PO	77.95	118.12	78.65	8:47 AM	78.65	12:00 AM	1.7	
P1143941	2/4/2020	MBC_DIGI	DUP	XM	81.95	126.10	82.72	8:47 AM	82.72	12:00 AM	1.7	%RPD =0
P1143942	2/4/2020	MBC_TSBTC		AZ	71.4	116.10	72.98	8:47 AM	72.97	12:00 AM	3.5	
P1143944	2/4/2020	PLDIG7		S7	75.16	119.80	76.09	8:47 AM	76.09	12:00 AM	2.1	
P1143943	2/4/2020	RAW COMP		S6	75.59	118.12	77.39	8:47 AM	77.39	12:00 AM	4.2	
P1148857	1/30/2020	PHENOVA		7	79.36	111.24	105.88	8:47 AM	105.88	12:00 AM	83.2	
						FINAL WT (g)						
EPA Method 160.4 for %TVS at 550°C					TARE WT (g)	Total Solids	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TVS	
P1150407	2/6/2020	LAB	BLNK	HE	73.85	73.84						
P1150408	2/6/2020	LAB	LCS	XL	80.6	82.5						
P1143941	2/4/2020	MBC_DIGI		PO	77.95	78.65	78.15	12:43 PM	78.15	10:19 AM	71.4	
P1143941	2/4/2020	MBC_DIGI	DUP	XM	81.95	82.72	82.19	12:43 PM	82.19	10:19 AM	68.8	%RPD =3.7
P1143942	2/4/2020	MBC_TSBTC		AZ	71.4	72.97	71.59	12:43 PM	71.6	10:19 AM	87.3	
P1143944	2/4/2020	PLDIG7		S7	75.16	76.09	75.52	12:43 PM	75.51	10:19 AM	62.4	
P1143943	2/4/2020	RAW COMP		S6	75.59	77.39	75.96	12:43 PM	75.95	10:19 AM	80	
P1148857	1/30/2020	PHENOVA		7	79.36	105.88	102.98	12:43 PM	102.99	10:19 AM	10.9	

1st Entry_____ 2nd Entry_____ Final Entry_____

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-FEB-2020 to 29-FEB-2020

Source: MBCDEWCN
Sample ID: P1146172
Sample Date: 29-FEB-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	6.31	1.87	500	*	15.00		
Arsenic	0.31	MG/KG	2.96	0.876	500	*	5.00	41	
Barium	0.31	MG/KG	275	81.3	10000	*	100.00		
Beryllium	0.01	MG/KG	0.070	0.020	75	*	0.75		
Cadmium	0.036	MG/KG	0.840	0.249	100	*	1.00	39	
Chromium (VI)			NA		500	NA	5.00		
Chromium	0.1	MG/KG	50.6	14.9	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	2.99	0.884	8000	*	80.00		
Copper	2.4	MG/KG	556	164	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	10.6	3.13	1000	*	5.00	300	350
Mercury	0.059	MG/KG	0.695	0.205	20	*	0.20	17	
Molybdenum	0.1	MG/KG	14.2	4.20	3500	*	350.00		
Nickel	0.6	MG/KG	22.1	6.53	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.09	1.80	100	*	1.00	100	
Silver	0.27	MG/KG	3.00	0.887	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	22.3	6.59	2400	*	24.00		
Zinc	0.8	MG/KG	878	259	5000	*	250.00	2,800	
Fluoride	4.6	MG/KG	38.9	11.5	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	7300	2160					
Total Solids		WT%	29.6						
Total Volatile Solids		WT%	61.6						
pH		PH	8.1		>2 - <12				
Ammonia-N	76	MG/KG	7850						
Nitrite Nitrate Calc		MG/KG	22.3						
Organic Nitrogen Calc.		MG/KG	48400						
Total Kjeldahl Nitrogen		MG/KG	56200						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0015	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
2,4-D	0.330	MG/KG	ND	ND	100	*	10.00		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*.	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.001	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol	13.2	MG/KG	ND	ND	17	*	1.70		
PCBs (Arochlors)	2.26	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0206	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP	0.330	MG/KG	ND	ND	10	*	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699. All determinations were done using approved methods by laboratories certified by the State of Arizona (Cert. No. AZ0783).

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition,
. this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - *Centrifuge Dewatered Sludge*

I. INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuged dewatered sludge samples taken from the centrifuges over the calendar month of February 2020. All analyses were performed by the City of San Diego's Environmental Chemistry Services Laboratory using methods certified by the State of Arizona (Cert. No. AZ0783).

Metals from Table 3 of Paragraph 503.13†
(All concentrations in dry weight)

Parameter	Value	Units	503 Limit	Units
Arsenic	2.96	mg/Kg	41	mg/Kg
Cadmium	0.840	mg/Kg	39	mg/Kg
Chromium	50.6	mg/Kg	1,200	mg/Kg
Copper	556	mg/Kg	1,500	mg/Kg
Lead	10.6	mg/Kg	300	mg/Kg
Mercury	0.695	mg/Kg	17	mg/Kg
Molybdenum	14.2	mg/Kg	75	mg/Kg^
Nickel	22.1	mg/Kg	420	mg/Kg
Selenium	6.09	mg/Kg	100	mg/Kg
Zinc	878	mg/Kg	2,800	mg/Kg
Total Nitrogen#	5.62	Wt %		
Date of Sample	29-Feb-2020			
Total Solids	29.6	Wt %		
Volatile Solids	61.6	Wt %		

† Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist
Environmental Chemistry Laboratory,
Arizona State Cert. No. AZ0783

Date 3/27/2020

VAR CERT. Form
Revised 7/6/2000

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-FEB-2020 to 29-FEB-2020

Source: MBCDEWCN
Sample ID: P1146172
Sample Date: 29-FEB-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	6.31	1.87	500	*	15.00		
Arsenic	0.31	MG/KG	2.96	0.876	500	*	5.00	41	
Barium	0.31	MG/KG	275	81.3	10000	*	100.00		
Beryllium	0.01	MG/KG	0.070	0.020	75	*	0.75		
Cadmium	0.036	MG/KG	0.840	0.249	100	*	1.00	39	
Chromium (VI)			NA		500	NA	5.00		
Chromium	0.1	MG/KG	50.6	14.9	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	2.99	0.884	8000	*	80.00		
Copper	2.4	MG/KG	556	164	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	10.6	3.13	1000	*	5.00	300	350
Mercury	0.059	MG/KG	0.695	0.205	20	*	0.20	17	
Molybdenum	0.1	MG/KG	14.2	4.20	3500	*	350.00		
Nickel	0.6	MG/KG	22.1	6.53	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.09	1.80	100	*	1.00	100	
Silver	0.27	MG/KG	3.00	0.887	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	22.3	6.59	2400	*	24.00		
Zinc	0.8	MG/KG	878	259	5000	*	250.00	2,800	
Fluoride	4.6	MG/KG	38.9	11.5	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	7300	2160					
Total Solids		WT%	29.6						
Total Volatile Solids		WT%	61.6						
pH		PH	8.1		>2 - <12				
Ammonia-N	76	MG/KG	7850						
Nitrite Nitrate Calc		MG/KG	22.3						
Organic Nitrogen Calc.		MG/KG	48400						
Total Kjeldahl Nitrogen		MG/KG	56200						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0015	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
2,4-D	0.330	MG/KG	ND	ND	100	*	10.00		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.001	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol	13.2	MG/KG	ND	ND	17	*	1.70		
PCBs (Arochlors)	2.26	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0206	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP	0.330	MG/KG	ND	ND	10	*	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - *Centrifuge Dewatered Sludge*

I. INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuged dewatered sludge samples taken from the centrifuges over the calendar month of February 2020.

Metals from Table 3 of Paragraph 503.13†
(All concentrations in dry weight)

Parameter	Value	Units	503 Limit	Units
Arsenic	2.96	mg/Kg	41	mg/Kg
Cadmium	0.840	mg/Kg	39	mg/Kg
Chromium	50.6	mg/Kg	1,200	mg/Kg
Copper	556	mg/Kg	1,500	mg/Kg
Lead	10.6	mg/Kg	300	mg/Kg
Mercury	0.695	mg/Kg	17	mg/Kg
Molybdenum	14.2	mg/Kg	75	mg/Kg^
Nickel	22.1	mg/Kg	420	mg/Kg
Selenium	6.09	mg/Kg	100	mg/Kg
Zinc	878	mg/Kg	2,800	mg/Kg
Total Nitrogen#	5.62	Wt %		
Date of Sample	29-FEB-2020			
Total Solids	29.6	Wt %		
Volatile Solids	61.6	Wt %		

† Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist
Environmental Chemistry Laboratory,
California State ELAP Cert. No. 1609

3/27/2020
Date

VAR CERT. Form
Revised 7/6/2000

ALVARADO WASTEWATER CHEMISTRY LAB

Cert. No. 1609 / ARIZONA Cert. No. AZ0783

TOTAL KJELDAHL NITROGEN SOLIDS

MDL: 0.05

BATCH ID: 20070TKN41
ANALYSIS: TKN_TIT_SLDG
MATRIX TYPE: DEWATERED_SLDG

ANALYSIS DATE: 3/10/2020

ANALYST: LPANTOJA

PROTOCOL: 4500-Norg B

pH STANDARDS: Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\SB\pH buffer standards-exp date_lot_source.xlsm

							pH check
Buffer # 10	Fisher cat. #	SB115-4	Exp. Date:	9/30/2020	Lot#	185490	Initial 6.991
Buffer # 4	Fisher cat. #	SB101-4	Exp. Date:	7/31/2020	Lot#	184124	Final 6.99
Buffer # 7	Fisher cat. #	SB107-4	Exp. Date:	10/31/2020	Lot#	186926	

Vendor	Exp.	Lot #	Concentration	Conc. units	Volume used, ml	COMMENTS
Lab Chem	1/18/2021	J009-19	1000	mg/L	2.50	LCS/SPK
HACH	11/30/2022	A7334	100 mg/L	mg/L	2.50	MDL check, tv=0.125%
PHENOVA, Soil;	10/31/2020	7070-09	0.245	%		Acceptance Range,%:
					LAL, %	53.9
					HAL, %	137

Slope: 98.9 | Acceptable % range: 95 to 105 | Calibration result: PASS

H2SO4 Lot#4703MS6 EXP: 3/20 | Normality of H2SO4 = 0.0202 | Titrator verification, 5.0 ml: 5.0 | **Ml from 1000 mg/L NH3N used for SPK = 2.5

SAMPLE ID	SOURCE	SAMPLE TYPE	TEST #	SAMPLE SIZE	UNIT	TS %	ML of H2SO4 used for end point	ANALYTE	UNITS	RESULT WT%	TRUE VALUE WT%	COMMENTS		Temp
P1156923	LAB	BLNK	1	0.2	grams	100	0.03	TKN	WT%	0.00424				5.00
P1156925	LAB	CHK	1	0.2	grams	100	8.802	TKN	WT%	1.24	1.25	%REC =	99.2	10.03
P1156927	PHENOVA	CHK	1	0.2547	grams	100	1.915	TKN	WT%	0.213	0.245	%REC =	86.9	13.82
P1146172	MBCDEWCN	SAMP	1	0.2083	grams	29.6	12.59	TKN	WT%	5.77				17.47
P1146172	MBCDEWCN	SAMP	2	0.2088	grams	29.6	11.96	TKN	WT%	5.47		%RPD=	5.3	16.25
P1146172	MBCDEWCN	SPK	1	0.2238	grams	29.6	21.71	TKN	WT%	9.27	3.77	%REC =	96.8	17.07
P1146172	MBCDEWCN	SPK	2	0.2666	grams	29.6	24.73	TKN	WT%	8.86	3.17	%REC / RPD	102.2 / 4.5	17.49
P1156928	LAB	CHK	1	0.2	grams	100	0.925	TKN	WT%	0.131	0.125	%REC =	104.8	14.95
										MDL chk				

P1146172	MBCDEWCN	SAMP		Analyte:	TOTKN	MG/KG	57700
P1146172	MBCDEWCN	SAMP	DUP	Analyte:	TOTKN	MG/KG	54700

P1146172	MBCDEWCN	SAMP		Analyte:	AMMONIA_N	MG/KG	7880
P1146172	MBCDEWCN	SAMP	DUP	Analyte:	AMMONIA_N	MG/KG	7820

P1146172	MBCDEWCN	SAMP		Analyte:	** NITROGEN_ORG	MG/KG	49800
P1146172	MBCDEWCN	SAMP	DUP	Analyte:	** NITROGEN_ORG	MG/KG	46900

** NITROGEN_ORG (MG/KG) = (TOTKN MG/KG) - (AMMONIA_N MG/KG)

1st Entry__________ 2nd Entry__________ Final Entry__________

The City of SAN DIEGO

PUBLIC UTILITIES DEPARTMENT
ENVIRONMENTAL MONITORING & TECHNICAL SERVICES DIVISION
ENVIRONMENTAL CHEMISTRY SERVICES SECTION
5530 Kiowa Drive
La Mesa, CA 91942
(619) 668-3215

SAMPLING REPORT & CHAIN OF CUSTODY RECORD

Project/Client:	Quarterly Dewatered Sludge/MBC	Contact Name:	Richard Pitchford	Type of Sampling Equipment/How sample obtained/other sampling notes:
Contact Name:	Estela Lanez	Sampler/s:	Joe G & Eleanor B.	
Phone:	(619)221-8352	Phone:	(858) 614 - 5509	

Sample Information: (All information is required) Number of attachments:

Date/Time Sample Taken	Source / Location	Sample Type/Description	Grab / Composite	Vol / wt (mL / L / g)	Number of containers	Container Type	Preservative cool, ≤ °6C	Analyses requested	Sample Log Number (Lab use only)	Sample Temperature (Lab use only)
2/29/2020 @2359	MBCDEWCN	DW sludge	Comp	10L	1	G	≤6.0°C	*	P1146172	2.8°C
3/02/2020 @ 0945	Field Blank	Reagent water	Grab	40ml	1	G	≤6.0°C	Volatiles	P1146173	1.8 °C
2/29/2020 @2359	Centrate	Wastewater	Comp	1L	1	P	≤6.0°C	Metals, Hg	P1146174	2.8 °C

Chain-of-Custody

Relinquished by: Name: Joshua Rambo Sign:	Date & Time 3/2/2020 0950 Location: MBC	Received by: Name: Susan Bayoot Sign:	Date & Time 3/2/2020 0950 Location: MBC	**Sample Condition Received in Lab**
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:	Temperature In Compliance: (Y) / N Container Intact: (Y) / N — Preserved: Y / (N) / NA Received On Ice: Y / (N) — Preserved at Lab: (Y) / N
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:	**Comments** *Analysis Assigned: Metals, Hg, Pesticides, ~~8260B, Dioxins,~~ Sulfides, Phenols, Anions, Paint filter test, TKN, Ammonia

See instructions, on reverse, for completing this form.
FIGURE 2a

Original-retained by lab — 1st copy – Transporter — Last copy - for sample originator

A completed Sampling Report and Chain of Custody Record form must accompany the sample once the monthly composite is completed and delivered to the lab.

METRO BIOSOLIDS CENTER SLUDGE COMPOSITE DAILY SAMPLE LOG

For Month of : February

Date	Day	Time	Source *	Sampler	Notes
02/01/20	S	700	3,4,5	SL	
02/02/20	Sn	0700	3,4,5,7,8	BC	
02/03/20	M	0705	4,5,7,8	GC	
02/04/20	Tu	0730	4,5,8	GC	
02/05/20	W	0720	3,5,7	GC	
02/06/20	Th	0657	3,4,5,7	MN	
02/07/20	F	0712	3,4,5,7	GC	
02/08/20	Sa	0624	3,4,7,8	GC	
02/09/20	Su	0700	3,4,7,8	BR	
02/10/20	M	0700	7b	E.N.	
02/11/20	Tu	0700	357	E.N	
02/12/20	W	0700	347	E.N.	
02/13/20	Th	0700	347	E.N	
02/14/20	F	0700	347	E.N.	
02/15/20	Sa	0627	3,4,7	GC	
02/16/20	Sn	0700	3,4,7	BR	
02/17/20	M	0700	3,4,7	BR	
02/18/20	Tu	0700	3,4,7	JR	
02/19/20	W	0700	3,4,7	JR	
02/20/20	Th	0700	1,5,7	LL	
02/21/20	F	0700	4,5,7	JR	
02/22/20	Sa	0631	4,5,7,8	GC	
02/23/20	Sn	0700	4,5,7,8	BR	
02/24/20	M	0720	4,5,7,8	MN	
02/25/20	Tu	0705	4,5,8	MN	
02/26/20	W	0734	3,4,8	MN	
02/27/20	Th	0720	1,3,4,8	MN	
02/28/20	F	0700	1 3 4 7b	E.N	
02/29/20	Sa	0620	3,4,8	GC	

Print Supervisor's Name: GRIFFITHS Sign: Eric M

Date: 3/1/20

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT
CERTIFICATION STATEMENT

In Compliance with
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the City of San Diego Public Utilities Department

VECTOR ATTRACTION REDUCTION

The daily fractional volatile solids reduction (FVSR) values were calculated using the Van Kleck Equation and raw and digested sludge volatile solids for the month of MAR 2020 from locations based on the following information from Operations staff:

All sludge sent to Metro Biosolids Center (MBC) from the Pt. Loma WWTP is pumped from Digester 7.
Only North City Water Reclamation Plant (NCWRP) raw sludge is going to MBC digesters.
The MBC thickened sludge samples are representative of the raw sludge from NCWRP.
MBC is using Digester No.1 for sludge processing.

The following determinations of volatile solids were done using approved methods by a laboratory certified by the State of Arizona (Cert. No. AZ0783)

60.6 % Average Volatile Solids Reduction for the Pt. Loma WTP sludge digestion process.
60.1 % Average Volatile Solids Reduction for the sludge MBC treats from the NCWRP.

Both streams **do** / ~~do not~~ meet 38% FVSR criteria.

Environmental Chemistry Laboratory Senior Chemist — Date 4/30/2020

I certify that the sludge samples taken and used in these determinations were taken and handled under my direction and supervision using approved methods and are representative samples of actual operational conditions.

Wastewater Treatment Superintendent, Metro Biosolids Center (MBC) — Date 5/21/20

Wastewater Treatment Superintendent, Pt. Loma Wastewater Treatment Plant — Date 5/29/20

CERTIFICATION STATEMENT
VECTOR ATTRACTION REQUIREMENTS

I certify, under penalty of law, the vector attraction reduction requirement in Paragraph 503.33 (b) (1) which states that:
The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent, has 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 vector reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

By:

Chief Plant Operator
Wastewater Treatment and Disposal — Date 6/10/20

FVSR (Fractional Volatile Solids Reduction)

$$FVSR = \frac{VS_p - VS_b}{VS_p - (VS_p * VS_b)} = \frac{Vol.solidsRaw - Vol.solids\ Digested}{Vol.solids\ Raw - (Vol.solids\ Raw * Vol.solids\ Digested)}$$

Where: VS_p = Volatile Solids Feed Sludge (RAW SLUDGE),
VS_b = Volatile Solids Digested Sludge (DIG SLUDGE), currently only digester 7 is used for the calculation.

Volatile Solids (VS) is expressed as fractional numbers.

Average Volatile Solids for MAR 2020

Average %TVS Digested Sludge (Digester 7) for the month.	Average Raw (feed) sludge %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
62.2	80.7	60.6%

Average Volatile Solids for MAR 2020

Average %TVS Digested Sludge (MBC Dig 1) for the month.	Average Raw (feed) sludge (MBC_TSBTC) %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
71.0	86.0	60.1%

ALVARADO WASTEWATER CHEMISTRY LAB.

ARIZONA DH No. AZ0783

Total and Volatile Solids

BATCH ID: 20065TS30 ANALYSIS DATE: 3/5/2020 PROTOCOL: SM2540G/EPA160.4
ANALYSIS: TS/VS_SLDG MDL(%): 0.24
ANALYST: TJCANNON LCS TRUE VALUE: 3.9

SAMPLE ID	SAMPLE DATE	SOURCE	TEST TYPE	DISH ID	TARE WT grams	WET WT grams	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TS	COMMENTS
Standard Methods 2540B for the Determination of Residue (%TS)												
P1156489	3/5/2020	LAB	BLNK	XL	80.59	114.23	80.59	7:40 AM	80.59	1:34 PM	ND	
P1156490	3/5/2020	LAB	LCS	AZ	71.39	122.65	73.39	7:40 AM	73.39	1:34 PM	3.9	%REC= 100
P1152075	3/3/2020	MBC_DIG1		PO	77.94	115.51	78.56	7:40 AM	78.58	1:34 PM	1.7	
P1152075	3/3/2020	MBC_DIG1	DUP	HOW	75.44	123.79	76.24	7:40 AM	76.24	1:34 PM	1.7	%RPD =0
P1152076	3/3/2020	MBC_TSBTC		LA	79.23	118.24	80.75	7:40 AM	80.73	1:34 PM	3.8	
P1152078	3/3/2020	PLDIG7		RJ	75.74	110.22	76.48	7:40 AM	76.48	1:34 PM	2.1	
P1152077	3/3/2020	RAW COMP		7	79.36	125.54	81.25	7:40 AM	81.23	1:34 PM	4	
						FINAL WT (g)						
EPA Method 160.4 for %TVS at 550°C					TARE WT (g)	Total Solids	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TVS	
P1156489	3/5/2020	LAB	BLNK	XL	80.59	80.59						
P1156490	3/5/2020	LAB	LCS	AZ	71.39	73.39						
P1152075	3/3/2020	MBC_DIG1		PO	77.94	78.58	78.12	12:50 PM	78.12	10:13 AM	71.9	
P1152075	3/3/2020	MBC_DIG1	DUP	HOW	75.44	76.24	75.68	12:50 PM	75.68	10:13 AM	70	%RPD =2.7
P1152076	3/3/2020	MBC_TSBTC		LA	79.23	80.73	79.44	12:50 PM	79.44	10:13 AM	86	
P1152078	3/3/2020	PLDIG7		RJ	75.74	76.48	76.02	12:50 PM	76.02	10:13 AM	62.2	
P1152077	3/3/2020	RAW COMP		7	79.36	81.23	79.72	12:50 PM	79.72	10:13 AM	80.7	

1st Entry_____ 2nd Entry_____ Final Entry_____

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-MAR-2020 to 31-MAR-2020

Source: MBCDEWCN
Sample ID: P1154208
Sample Date: 31-MAR-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	3.4	MG/KG	6.13	1.79	500	*	15.00		
Arsenic	3.05	MG/KG	2.23	0.65	500	*	5.00	41	
Barium	3.1	MG/KG	316	92.4	10000	*	100.00		
Beryllium	0.06	MG/KG	0.06	0.018	75	*	0.75		
Cadmium	0.4	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)			NA	NA	500	NA	5.00		
Chromium	1	MG/KG	54.1	15.8	2500	*	560.00	1,200	
Cobalt	0.6	MG/KG	3.56	1.04	8000	*	80.00		
Copper	23.7	MG/KG	589	172	2500	*	25.00	1,500	2,500
Lead	2	MG/KG	12.7	3.7	1000	*	5.00	300	350
Mercury	0.059	MG/KG	0.921	0.269	20	*	0.20	17	
Molybdenum	1.3	MG/KG	15.2	4.43	3500	*	350.00		
Nickel	5.6	MG/KG	24.1	7.05	2000	*	20.00	420	2,000
Selenium	4.92	MG/KG	5.99	1.75	100	*	1.00	100	
Silver	2.66	MG/KG	3.49	1.02	500	*	5.00		
Thallium	2.5	MG/KG	2.15	0.627	700	*	7.00		
Vanadium	1.3	MG/KG	24.2	7.08	2400	*	24.00		
Zinc	7.7	MG/KG	1010	294	5000	*	250.00	2,800	
Fluoride	5.1	MG/KG	ND	ND	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	7290	2130					
Total Solids		WT%	29.2						
Total Volatile Solids		WT%	61.6						
pH		PH	8.1		>2 - <12				
Ammonia-N	76	MG/KG	6550						
Nitrite Nitrate Calc		MG/KG	99.8						
Organic Nitrogen Calc.		MG/KG	60500						
Total Kjeldahl Nitrogen		MG/KG	67100						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0016	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
2,4-D			NA	NA	100	NA	10.00		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.001	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.28	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0205	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699. All determinations were done using approved methods by laboratories certified by the State of Arizona (Cert. No. AZ0783).

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - *Centrifuge Dewatered Sludge*

I. INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuged dewatered sludge samples taken from the centrifuges over the calendar month of March 2020. All analyses were performed by the City of San Diego's Environmental Chemistry Services Laboratory using methods certified by the State of Arizona (Cert. No. AZ0783).

Metals from Table 3 of Paragraph 503.13†
(All concentrations in dry weight)

Parameter	Value	Units	503 Limit	Units
Arsenic	2.23	mg/Kg	41	mg/Kg
Cadmium	ND	mg/Kg	39	mg/Kg
Chromium	54.1	mg/Kg	1,200	mg/Kg
Copper	589	mg/Kg	1,500	mg/Kg
Lead	12.7	mg/Kg	300	mg/Kg
Mercury	0.921	mg/Kg	17	mg/Kg
Molybdenum	15.2	mg/Kg	75	mg/Kg^
Nickel	24.1	mg/Kg	420	mg/Kg
Selenium	5.99	mg/Kg	100	mg/Kg
Zinc	1010	mg/Kg	2,800	mg/Kg
Total Nitrogen#	6.70	Wt %		
Date of Sample	31-Mar-2020			
Total Solids	29.2	Wt %		
Volatile Solids	61.6	Wt %		

† Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist
Environmental Chemistry Laboratory,
Arizona State Cert. No. AZ0783

4/30/2020
Date

VAR CERT. Form
Revised 7/6/2000

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-MAR-2020 to 31-MAR-2020

Source: MBCDEWCN
Sample ID: P1154208
Sample Date: 31-MAR-20

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	3.4	MG/KG	6.13	1.79	500	*	15.00		
Arsenic	3.05	MG/KG	2.23	0.65	500	*	5.00	41	
Barium	3.1	MG/KG	316	92.4	10000	*	100.00		
Beryllium	0.06	MG/KG	0.06	0.018	75	*	0.75		
Cadmium	0.4	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)			NA	NA	500	NA	5.00		
Chromium	1	MG/KG	54.1	15.8	2500	*	560.00	1,200	
Cobalt	0.6	MG/KG	3.56	1.04	8000	*	80.00		
Copper	23.7	MG/KG	589	172	2500	*	25.00	1,500	2,500
Lead	2	MG/KG	12.7	3.7	1000	*	5.00	300	350
Mercury	0.059	MG/KG	0.921	0.269	20	*	0.20	17	
Molybdenum	1.3	MG/KG	15.2	4.43	3500	*	350.00		
Nickel	5.6	MG/KG	24.1	7.05	2000	*	20.00	420	2,000
Selenium	4.92	MG/KG	5.99	1.75	100	*	1.00	100	
Silver	2.66	MG/KG	3.49	1.02	500	*	5.00		
Thallium	2.5	MG/KG	2.15	0.627	700	*	7.00		
Vanadium	1.3	MG/KG	24.2	7.08	2400	*	24.00		
Zinc	7.7	MG/KG	1010	294	5000	*	250.00	2,800	
Fluoride	5.1	MG/KG	ND	ND	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	7290	2130					
Total Solids		WT%	29.2						
Total Volatile Solids		WT%	61.6						
pH		PH	8.1		>2 - <12				
Ammonia-N	76	MG/KG	6550						
Nitrite Nitrate Calc		MG/KG	99.8						
Organic Nitrogen Calc.		MG/KG	60500						
Total Kjeldahl Nitrogen		MG/KG	67100						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0016	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
2,4-D			NA	NA	100	NA	10.00		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.001	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.28	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0205	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - *Centrifuge Dewatered Sludge*

I. INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuged dewatered sludge samples taken from the centrifuges over the calendar month of March 2020.

Metals from Table 3 of Paragraph 503.13†
(All concentrations in dry weight)

Parameter	Value	Units	503 Limit	Units
Arsenic	2.23	mg/Kg	41	mg/Kg
Cadmium	ND	mg/Kg	39	mg/Kg
Chromium	54.1	mg/Kg	1,200	mg/Kg
Copper	589	mg/Kg	1,500	mg/Kg
Lead	12.7	mg/Kg	300	mg/Kg
Mercury	0.921	mg/Kg	17	mg/Kg
Molybdenum	15.2	mg/Kg	75	mg/Kg^
Nickel	24.1	mg/Kg	420	mg/Kg
Selenium	5.99	mg/Kg	100	mg/Kg
Zinc	1010	mg/Kg	2,800	mg/Kg
Total Nitrogen#	6.70	Wt %		
Date of Sample	31-MAR-2020			
Total Solids	29.2	Wt %		
Volatile Solids	61.6	Wt %		

† Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist
Environmental Chemistry Laboratory,
California State ELAP Cert. No. 1609

4/30/2020
Date

VAR CERT. Form
Revised 7/6/2000

ALVARADO WASTEWATER CHEMISTRY LAB
Cert. No. 1609 / ARIZONA Cert. No. AZ0783
TOTAL KJELDAHL NITROGEN SOLIDS

MDL: 0.05

BATCH ID: 20100TKN30 ANALYSIS: 4/9/2020
ANALYSIS: TKN_TIT_SLDG DATE ANALYST: LPANTOJA
MATRIX TYPE: DEWATERED_SLDG

PROTOCOL: 4500-Norg B

pH STANDARDS: Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\SS\pH buffer standards -exp date_lot_source-.xlsm						pH check	Vendor	Exp.	Lot #	Concentration	Conc. units	Volume used, ml	COMMENTS
Buffer # 10	Fisher cat. #	SB115-4	Exp. Date:	9/30/2020	Lot# 185490	Initial	Lab Chem	1/10/2020	H003-17	1000	mg/L	2.50	LCS/SPK
Buffer # 4	Fisher cat. #	SB101-4	Exp. Date:	7/31/2020	Lot# 184124	6.998	HACH	11/302022	A7334	100 mg/L	mg/L	2.50	MDL check, tv=0.125%
Buffer # 7	Fisher cat. #	SB107-4	Exp. Date:	10/31/2020	Lot# 186926	Final 6.982	PHENOVA, Soil;	10/31/2020	7070-09	0.245	%		Acceptance Range,%:
												LAL, %	53.9
												HAL, %	137

Slope:	100.1	Acceptable % range: 95 to 105	Calibration result: PASS		**Ml from 1000 mg/L NH3N used for SPK =	2.5	
H2SO4 Lot # 470SM86 EXP: 3/20		Normality of H2SO4 =	0.02	Titrator verification, 5.0 ml:	5.0		

SAMPLE ID	SOURCE	SAMPLE TYPE	TEST #	SAMPLE SIZE	UNIT	TS %	ML of H2SO4 used for end point	ANALYTE	UNITS	RESULT WT%	TRUE VALUE WT%	COMMENTS		Temp.
P1162347	LAB	BLNK	1	0.2	grams	100	0.025	TKN	WT%	0.0035				5.0
P1162348	LAB	CHK	1	0.2	grams	100	8.769	TKN	WT%	1.23	1.25	%REC =	98.4	5.0
P1162349	PHENOVA	CHK	1	0.2247	grams	100	2.098	TKN	WT%	0.26	0.245	%REC =	106.1	15.1
P1154208	MBCDEWCN	SAMP	1	0.2349	grams	29.2	16.68	TKN	WT%	6.81				13.16
P1154208	MBCDEWCN	SAMP	2	0.2735	grams	29.2	18.81	TKN	WT%	6.6		%RPD=	3.1	10.4
P1154208	MBCDEWCN	SPK	1	0.2045	grams	29.2	21.52	TKN	WT%	10.1	4.19	%REC =	81	14.85
P1154208	MBCDEWCN	SPK	2	0.2257	grams	29.2	23.15	TKN	WT%	9.84	3.79	%REC / RPD	82.7 / 2.6	16.6
P1162350	LAB	CHK	1	0.2	grams	100	1.041	TKN	WT%	0.15	0.125	%REC =	120	10.36
											MDL			

P1154208	MBCDEWCN	CHK		Analyte:	TOTKN	MG/KG	68100
P1154208	MBCDEWCN	SAMP	DUP	Analyte:	TOTKN	MG/KG	66000

P1154208	MBCDEWCN	CHK		Analyte:	AMMONIA_N	MG/KG	6560
P1154208	MBCDEWCN	SAMP	DUP	Analyte:	AMMONIA_N	MG/KG	6530

P1154208	MBCDEWCN	CHK		Analyte: **	NITROGEN_ORG	MG/KG	61500
P1154208	MBCDEWCN	SAMP	DUP	Analyte: **	NITROGEN_ORG	MG/KG	59500

** NITROGEN_ORG (MG/KG) = (TOTKN MG/KG) - (AMMONIA_N MG/KG)

1st Entry_____ 2nd Entry_____ Final Entry_____

The City of SAN DIEGO

PUBLIC UTILITIES DEPARTMENT
ENVIRONMENTAL MONITORING & TECHNICAL SERVICES DIVISION
ENVIRONMENTAL CHEMISTRY SERVICES SECTION
5530 Kiowa Drive
La Mesa, CA 91942
(619) 668-3215

SAMPLING REPORT & CHAIN OF CUSTODY RECORD

Project/Client:	Quarterly Dewatered Sludge/MBC	Contact Name:	Richard Pitchford	Type of Sampling Equipment/How sample obtained/other sampling notes:
Contact Name:	Estella Lanez	Sampler/s:	Joe G. & Eleanor B.	
Phone:	(619)221-8352	Phone:	(858) 614 - 5509	

Sample Information: (All information is required) Number of attachments:

~~Date/Time~~ Sample Taken	~~Source / Location~~	~~Sample Type/Description~~	Grab / Composite	Vol / wt (mL / L / g)	Number of containers	Container Type	Preservative cool, ≤ °6C	Analyses requested	Sample Log Number (Lab use only)	Sample Temperature (Lab use only)
03/31/2020 @2359	MBCDEWCN	DW sludge	Comp	10L	1	G	≤6.0°C	*	P1154208	4.3°C
~~04/01/2020~~ @ 0930	~~Field Blank~~	~~Reagent water~~	Grab	40ml	1	G	≤6.0°C	Volatiles	P1154209	1.2°C
03/31/2020 @2359	Centrate	Wastewater	Comp	1L	1	P	≤6.0°C	Metals, Hg	P1154210	2.8°C

Chain-of-Custody

Relinquished by:	Date & Time	Received by:	Date & Time
Name: E Joshua Rambo	4/1/2020 0950	Name: Joshua Rambo	4/1/2020 0950
Sign:	Location: MBC	Sign:	Location: MBC
Relinquished by: Name: Joshua Rambo Sign:	Date & Time 4/1/2020 0950 Location: MBC	Received by: Name: Joe Guarnes Sign:	Date & Time 4/1/2020 0951 Location: MBC
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:

Sample Condition Received in Lab

Temperature In Compliance:	(Y) / N		
Container Intact:	(Y) / N	Preserved:	(Y) / N / NA
Received On Ice:	Y / (N)	Preserved at Lab:	Y / (N)

Comments
*Analysis Assigned: Metals, Hg, Pesticides, 8260B, Dioxins, Sulfides, Anions, Paint filter test, TKN, Ammonia

See instructions, on reverse, for completing this form.
FIGURE 2a

Original-retained by lab — 1st copy – Transporter — Last copy - for sample originator

* Samples taken from the MBC Dewatering Centrifuges.

A completed Sampling Report and Chain of Custody Record form must accompany the sample once the monthly composite is completed and delivered to the lab.

METRO BIOSOLIDS CENTER SLUDGE COMPOSITE DAILY SAMPLE LOG

For Month of : March

Date	Day	Time	Source *	Sampler	Notes
03/01/20	Sn	0700	1,2,3,8	BR	
03/02/20	M	0700	2,3,8	LC	
03/03/20	Tu	0700	1,2,3,8	LC	
03/04/20	W	0734	1,3,3,8	MN	
03/05/20	Th	0652	1,2,3,4	MN	
03/06/20	F	0730	1,2,3,4	JR	
03/07/20	Sa	0736	2,3,6	GC	
03/08/20	Su	0700	2,3,6	BR	
03/09/20	M	0700	2 3 6	E.N.	
03/10/20	Tu	0700	2,3,6		
03/11/20	W		2 3 6 7	E.N.	
03/12/20	Th				
03/13/20	F	0700	2 3 6 7	E.N.	
03/14/20	Sa	0630	1,2,6,7	GC	
03/15/20	Su	0700	1,2,6,7	BR	
03/16/20	M	0700	1 2 6 7	E.N.	
03/17/20	Tu	0701	1,2,6,7	K.B.	
03/18/20	W	0714	1,2,6,7	K.B.	
03/19/20	Th	0703	1,2,6,7	K.B.	
03/20/20	F	0736	6,7	MN	
03/21/20	Sa	0548	6,8	GC	
03/22/20	Su	0616	1,3,6,8	GC	
03/23/20	M	0700	1 3 6 8	E.N.	
03/24/20	Tu	0700	1,3,6,8	LC	
03/25/20	W	0726	1,3,6,8	KB	
03/26/20	Th	0700	1 3 6 8	E.N.	
03/27/20	F	0700	1 3 6 8	E.N	
03/28/20	Sa	0800	3,6,7,8	RSC	
03/29/20	Su	0730	3,6,7,8	LK	
03/30/20	M	0700	3,6,7,8	JR	
03/31/20	Tu	0730	3,4,7	LK	

Print Supervisor's Name: Javier Zavala

Sign:

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT
CERTIFICATION STATEMENT
In Compliance with
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the City of San Diego Public Utilities Department

VECTOR ATTRACTION REDUCTION

The daily fractional volatile solids reduction (FVSR) values were calculated using the Van Kleck Equation and raw and digested sludge volatile solids for the month of APR 2020 from locations based on the following information from Operations staff:

All sludge sent to Metro Biosolids Center (MBC) from the Pt. Loma WWTP is pumped from Digester 7.
Only North City Water Reclamation Plant (NCWRP) raw sludge is going to MBC digesters.
The MBC thickened sludge samples are representative of the raw sludge from NCWRP.
MBC is using Digester No.1 for sludge processing.

The following determinations of volatile solids were done using approved methods by a laboratory certified by the State of Arizona (Cert. No. AZ0783)

53.0 % Average Volatile Solids Reduction for the Pt. Loma WTP sludge digestion process.
54.9 % Average Volatile Solids Reduction for the sludge MBC treats from the NCWRP.

Both streams **do** / ~~do not~~ meet 38% FVSR criteria.

(OCA) Date 6/1/2020
Environmental Chemistry Laboratory Senior Chemist

I certify that the sludge samples taken and used in these determinations were taken and handled under my direction and supervision using approved methods and are representative samples of actual operational conditions.

Wastewater Treatment Superintendent — Date 6/19/20
Metro Biosolids Center (MBC)

Wastewater Treatment Superintendent — Date 6-23-20
Pt. Loma Wastewater Treatment Plant

CERTIFICATION STATEMENT
VECTOR ATTRACTION REQUIREMENTS

I certify, under penalty of law, the vector attraction reduction requirement in Paragraph 503.33 (b) (1) which states that:
The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent, has 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 vector reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

By: — Date 6/30/20
Chief Plant Operator
Wastewater Treatment and Disposal

FVSR (Fractional Volatile Solids Reduction)

$$FVSR = \frac{VS_p - VS_b}{VS_p - (VS_p * VS_b)} = \frac{Vol.solidsRaw - Vol.solids\ Digested}{Vol.solids\ Raw - (Vol.solids\ Raw * Vol.solids\ Digested)}$$

Where: VS_p = Volatile Solids Feed Sludge (RAW SLUDGE),
VS_b = Volatile Solids Digested Sludge (DIG SLUDGE), currently only digester 7 is used for the calculation.

Volatile Solids (VS) is expressed as fractional numbers.

Average Volatile Solids for APR 2020

Average %TVS Digested Sludge (Digester 7) for the month.	Average Raw (feed) sludge %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
60.2	76.3	53.0%

Average Volatile Solids for APR 2020

Average %TVS Digested Sludge (MBC Dig 1) for the month.	Average Raw (feed) sludge (MBC_TSBTC) %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
70.0	83.8	54.9%

Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\METALS\TS_VS_DSLDG\20099TS77

ALVARADO WASTEWATER CHEMISTRY LAB.
ARIZONA DH No. AZ0783
Total and Volatile Solids

BATCH ID: 20099TS77 ANALYSIS DATE: 4/8/2020 PROTOCOL: SM2540G/EPA160.4
ANALYSIS: TS/VS_SLDG MDL(%): 0.24
ANALYST: TJCANNON LCS TRUE VALUE: 3.9

SAMPLE ID	SAMPLE DATE	SOURCE	TEST TYPE	DISH ID	TARE WT grams	WET WT grams	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TS	COMMENTS
Standard Methods 2540B for the Determination of Residue (%TS)												
P1162229	4/8/2020	LAB	BLNK	HOW	75.42	118.47	75.42	7:45 AM	75.42	10:02 AM	ND	
P1162230	4/8/2020	LAB	LCS	AZ	71.39	120.57	73.33	7:45 AM	73.31	10:02 AM	3.9	%REC= 100
P1158750	4/7/2020	MBC_DIG1		7	79.35	122.18	80.11	7:45 AM	80.1	10:02 AM	1.8	
P1158750	4/7/2020	MBC_DIG1	DUP	RJ	75.74	114.78	76.43	7:45 AM	76.42	10:02 AM	1.7	%RPD =5.7
P1158751	4/7/2020	MBC_TSBTC		LA	79.23	115.28	80.28	7:45 AM	80.28	10:02 AM	2.9	
P1158753	4/7/2020	PLDIG7		S7	75.16	115.03	76	7:45 AM	75.99	10:02 AM	2.1	
P1158752	4/7/2020	RAW COMP		PO	77.94	125.09	80.01	7:45 AM	80.01	10:02 AM	4.4	
						FINAL WT (g)						
EPA Method 160.4 for %TVS at 550°C					TARE WT (g)	Total Solids	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TVS	
P1162229	4/8/2020	LAB	BLNK	HOW	75.42	75.42						
P1162230	4/8/2020	LAB	LCS	AZ	71.39	73.31						
P1158750	4/7/2020	MBC_DIG1		7	79.35	80.1	79.58	1:24 PM	79.58	11:02 AM	69.3	
P1158750	4/7/2020	MBC_DIG1	DUP	RJ	75.74	76.42	75.94	1:24 PM	75.94	11:02 AM	70.6	%RPD =1.9
P1158751	4/7/2020	MBC_TSBTC		LA	79.23	80.28	79.4	1:24 PM	79.4	11:02 AM	83.8	
P1158753	4/7/2020	PLDIG7		S7	75.16	75.99	75.49	1:24 PM	75.49	11:02 AM	60.2	
P1158752	4/7/2020	RAW COMP		PO	77.94	80.01	78.44	1:24 PM	78.43	11:02 AM	76.3	

1st Entry_____ 2nd Entry_____ Final Entry_____

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-APR-2020 to 30-APR-2020

Source: MBCDEWCN
Sample ID: P1160484
Sample Date: 30-APR-20

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	5.83	1.68	500	*	15.0		
Arsenic	0.31	MG/KG	4.61	1.33	500	*	5.00	41	
Barium	0.31	MG/KG	273	78.5	10000	*	100.0		
Beryllium	0.01	MG/KG	0.120	0.035	75	*	0.75		
Cadmium	0.04	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)			NA	NA	500	NA	5.00		
Chromium	0.1	MG/KG	52.4	15.1	2500	*	560.0	1,200	
Cobalt	0.1	MG/KG	3.13	0.901	8000	*	80.0		
Copper	2.4	MG/KG	550	158	2500	*	25.0	1,500	2,500
Lead	0.2	MG/KG	11.2	3.22	1000	*	5.00	300	350
Molybdenum	0.1	MG/KG	14.6	4.20	3500	*	350.0		
Mercury	0.059	MG/KG	0.603	0.173	20	*	0.20	17	
Nickel	0.6	MG/KG	21.0	6.04	2000	*	20.0	420	2,000
Selenium	0.49	MG/KG	6.46	1.86	100	*	1.00	100	
Silver	0.27	MG/KG	2.94	0.845	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	35.7	10.3	2400	*	24.0		
Zinc	0.8	MG/KG	880	253	5000	*	250.0	2,800	
Fluoride	5.1	MG/KG	ND#	0.00#	18000	*	180.0		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	6800	1960					
Total Solids		WT%	28.8						
Total Volatile Solids		WT%	58.4						
pH		PH	8.15		>2 - <12				
Ammonia-N	76	MG/KG	6400						
Nitrite Nitrate Calc	0.67	MG/KG	1.52						
Organic Nitrogen Calc.		MG/KG	44000						
Total Kjeldahl Nitrogen		MG/KG	50400						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
2,4-D			NA	NA	100	NA	10.00		
Chlordanes	0.0015	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.0009	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.22	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.16	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0208	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699. All determinations were done using approved methods by laboratories certified by the State of Arizona (Cert. No. AZ0783).

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.
# = Internal check sample recovery is outside method acceptance limits; sample result not included in average calculations.

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - *Centrifuge Dewatered Sludge*

I. INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuged dewatered sludge samples taken from the centrifuges over the calendar month of April 2020. All analyses were performed by the City of San Diego's Environmental Chemistry Services Laboratory using methods certified by the State of Arizona (Cert. No. AZ0783).

Metals from Table 3 of Paragraph 503.13†
(All concentrations in dry weight)

Parameter	Value	Units	503 Limit	Units
Arsenic	4.61	mg/Kg	41	mg/Kg
Cadmium	ND	mg/Kg	39	mg/Kg
Chromium	52.4	mg/Kg	1,200	mg/Kg
Copper	550	mg/Kg	1,500	mg/Kg
Lead	11.2	mg/Kg	300	mg/Kg
Mercury	0.603	mg/Kg	17	mg/Kg
Molybdenum	14.6	mg/Kg	75	mg/Kg^
Nickel	21.0	mg/Kg	420	mg/Kg
Selenium	6.46	mg/Kg	100	mg/Kg
Zinc	880	mg/Kg	2,800	mg/Kg
Total Nitrogen#	5.04	Wt %		
Date of Sample	30-Apr-2020			
Total Solids	28.8	Wt %		
Volatile Solids	58.4	Wt %		

† Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

(OCA) 6/4/2020

Senior Chemist
Environmental Chemistry Laboratory,
Arizona State Cert. No. AZ0783

Date

VAR CERT. Form
Revised 7/6/2000

ALVARADO WASTEWATER CHEMISTRY LAB
Cert. No. 1609 / ARIZONA Cert. No. AZ0783
TOTAL KJELDAHL NITROGEN SOLIDS

BATCH ID: 20134TKN29 ANALYSIS: 5/12/2020 MDL: 0.05
ANALYSIS: TKN_TIT_SLDG DATE ANALYST: LPANTOJA
MATRIX TYPE: DEWATERED_SLDG

PROTOCOL: 4500-Norg B

pH STANDARDS: Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\SS\[pH buffer standards - exp date, lot, source.xlsm]						pH check	Vendor	Exp.	Lot #	Concentration	Conc. units	Volume used, ml	COMMENTS
Buffer # 10	Fisher cat. #	SB115-4	Exp. Date:	9/30/2020	Lot# 185490	Initial	Lab Chem	1/10/2020	H003-17	1000	mg/L	2.50	LCS/SPK
Buffer # 4	Fisher cat. #	SB101-4	Exp. Date:	7/31/2020	Lot# 184124	7.028	HACH	11/302022	A7354	100	mg/L	2.50	MDL check, tv=0.125%
Buffer # 7	Fisher cat. #	SB107-4	Exp. Date:	10/31/2020	Lot# 186926	Final 7.005	PHENOVA, Soil;	10/31/2020	7070-09	0.245	%		Acceptance Range,%:
													53.9 - 138
Slope: 100.3		Acceptable % range: 95 to 105			Calibration result: PASS		FUSS Analytical	10/31/2020	136322	KJELTABS Cu-3.5		1/2 tab	Digestion tablet
H2SO4 Lot # 4703M86 EXP: 3/20		Normality of H2SO4 =		0.02	Titrator verification, 5.0 ml:			**Ml from 1000 mg/L NH3N used for SPK =				2.5	

SAMPLE ID	SOURCE	SAMPLE TYPE	TEST #	SAMPLE SIZE	UNIT	TS %	ML of H2SO4 used for end point	ANALYTE	UNITS	RESULT WT%	TRUE VALUE WT%	COMMENTS (PUT BLANK FIRST)	
P1172826	LAB_ALV	BLNK	1	0.2	grams	100	0.042	TKN	WT%	0.00588			TIME 4.95
P1172827	LAB_ALV	CHK	1	0.2	grams	100	9.119	TKN	WT%	1.27	1.25	%REC = 101.6	10.42
P1172830	PHENOVA	CHK	1	0.2078	grams	100	1.804	TKN	WT%	0.237	0.245	%REC = 96.7	15.19
P1160484	MBCDEWCN	SAMP	1	0.2377	grams	28.8	12.03	TKN	WT%	4.90			17
P1160484	MBCDEWCN	SAMP	2	0.2036	grams	28.8	10.86	TKN	WT%	5.17		%RPD= 5.4	17.45
P1160484	MBCDEWCN	SPK	1	0.248	grams	28.8	21.52	TKN	WT%	8.42	3.50	%REC = 96.7	17.6
P1160484	MBCDEWCN	SPK	2	0.225	grams	28.8	19.8	TKN	WT%	8.61	3.89	%REC / RPD = 91.9 / 2.2	7.9
P1163104	RAW COMP	SAMP	1	1.0245	grams	4	5.778	TKN	WT%	3.92			12.05
P1163119	DIG COMP	SAMP	1	1.2412	grams	2.1	6.93	TKN	WT%	7.39			15.5
P1172829	LAB_ALV	CHK	1	0.2	grams	100	0.997	TKN	WT%	0.134	0.125	%REC = 107.2	15.1
											MDL chk		

P1160484	MBCDEWCN	SAMP		Analyte:	TOTKN	MG/KG	49000
P1160484	MBCDEWCN	SAMP	DUP	Analyte:	TOTKN	MG/KG	51700

P1160484	MBCDEWCN	SAMP		Analyte:	AMMONIA_N	MG/KG	6180
P1160484	MBCDEWCN	SAMP	DUP	Analyte:	AMMONIA_N	MG/KG	6600

P1160484	MBCDEWCN	SAMP		Analyte: **	ITROGEN_OR	MG/KG	42800
P1160484	MBCDEWCN	SAMP	DUP	Analyte: **	ITROGEN_OR	MG/KG	45100

** NITROGEN_ORG (MG/KG) = (TOTKN MG/KG) - (AMMONIA_N MG/KG)

1st Entry_____ 2nd Entry_____ Final Entry_____

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-APR-2020 to 30-APR-2020

Source: MBCDEWCN
Sample ID: P1160484
Sample Date: 30-APR-20

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	5.83	1.68	500	*	15.0		
Arsenic	0.31	MG/KG	4.61	1.33	500	*	5.00	41	
Barium	0.31	MG/KG	273	78.5	10000	*	100.0		
Beryllium	0.01	MG/KG	0.120	0.035	75	*	0.75		
Cadmium	0.04	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)			NA	NA	500	NA	5.00		
Chromium	0.1	MG/KG	52.4	15.1	2500	*	560.0	1,200	
Cobalt	0.1	MG/KG	3.13	0.901	8000	*	80.0		
Copper	2.4	MG/KG	550	158	2500	*	25.0	1,500	2,500
Lead	0.2	MG/KG	11.2	3.22	1000	*	5.00	300	350
Molybdenum	0.1	MG/KG	14.6	4.20	3500	*	350.0		
Mercury	0.059	MG/KG	0.603	0.173	20	*	0.20	17	
Nickel	0.6	MG/KG	21.0	6.04	2000	*	20.0	420	2,000
Selenium	0.49	MG/KG	6.46	1.86	100	*	1.00	100	
Silver	0.27	MG/KG	2.94	0.845	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	35.7	10.3	2400	*	24.0		
Zinc	0.8	MG/KG	880	253	5000	*	250.0	2,800	
Fluoride	5.1	MG/KG	ND#	0.00#	18000	*	180.0		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	6800	1960					
Total Solids		WT%	28.8						
Total Volatile Solids		WT%	58.4						
pH		PH	8.15		>2 - <12				
Ammonia-N	76	MG/KG	6400						
Nitrite Nitrate Calc	0.67	MG/KG	1.52						
Organic Nitrogen Calc.		MG/KG	44000						
Total Kjeldahl Nitrogen		MG/KG	50400						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
2,4-D			NA	NA	100	NA	10.00		
Chlordanes	0.0015	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.0009	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.22	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.16	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0208	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.
* = Internal check sample recovery is outside method acceptance limits; sample result not included in average calculations.

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - *Centrifuge Dewatered Sludge*

I. INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuged dewatered sludge samples taken from the centrifuges over the calendar month of April 2020.

Metals from Table 3 of Paragraph 503.13†
(All concentrations in dry weight)

Parameter	Value	Units	503 Limit	Units
Arsenic	4.61	mg/Kg	41	mg/Kg
Cadmium	ND	mg/Kg	39	mg/Kg
Chromium	52.4	mg/Kg	1,200	mg/Kg
Copper	550	mg/Kg	1,500	mg/Kg
Lead	11.2	mg/Kg	300	mg/Kg
Mercury	0.603	mg/Kg	17	mg/Kg
Molybdenum	14.6	mg/Kg	75	mg/Kg^
Nickel	21.0	mg/Kg	420	mg/Kg
Selenium	6.46	mg/Kg	100	mg/Kg
Zinc	880	mg/Kg	2,800	mg/Kg
Total Nitrogen#	5.04	Wt %		
Date of Sample	30-APR-2020			
Total Solids	28.8	Wt %		
Volatile Solids	58.4	Wt %		

† Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

(OCA) 6/1/2020

Senior Chemist
Environmental Chemistry Laboratory,
California State ELAP Cert. No. 1609

Date

VAR CERT. Form
Revised 7/6/2000

The City of SAN DIEGO

PUBLIC UTILITIES DEPARTMENT
ENVIRONMENTAL MONITORING & TECHNICAL SERVICES DIVISION
ENVIRONMENTAL CHEMISTRY SERVICES SECTION
5530 Kiowa Drive
La Mesa, CA 91942
(619) 668-3215

SAMPLING REPORT & CHAIN OF CUSTODY RECORD

Project/Client:	Quarterly Dewatered Sludge/MBC	Contact Name:	Richard Pitchford	Type of Sampling Equipment/How sample obtained/other sampling notes:
Contact Name:	Estella Lanez	Sampler/s:	Joshua Rambo / OPA	
Phone:	(619)221-8352	Phone:	(858) 614 - 5509	

Sample Information: (All information is required) Number of attachments:

Date/Time Sample Taken	Source / Location	Sample Type/Description	Grab / Composite	Vol / wt (mL / L / g)	Number of containers	Container Type	Preservative cool, ≤ °6C	Analyses requested	Sample Log Number (Lab use only)	Sample Temperature (Lab use only)
04/30/2020 @2359	MBCDEWCN	DW sludge	Comp	10L	1	G	≤6.0°C	*	P1160484	6.3°C
05/01/2020 @0925	Field Blank	Reagent water	Grab	40ml	1	G	≤6.0°C	Volatiles	P1160485	4.1°C
04/30/2020 @2359	Centrate	Wastewater	Comp	1L	1	P	≤6.0°C	Metals, Hg	P1160486	5.4°C

Chain-of-Custody

Relinquished by: Name: Joshua Rambo Sign:	Date & Time: 5/1/2020 0925 Location: MBC	Received by: Name: Joshua Rambo Sign:	Date & Time 5/1/2020 0925 Location: MBC
Relinquished by: Name: Joshua Rambo Sign:	Date & Time: 5/1/2020 0930 Location: MBC	Received by: Name: ELEANOR BROWN Sign: Eleanor Brown	Date & Time 5/1/2020 0931 Location: MBC
Relinquished by: Name: Sign:	Date & Time: Location:	Received by: Name: Sign:	Date & Time Location:

Sample Condition Received in Lab

Temperature In Compliance:	(Y) / N		
Container Intact:	(Y) / N	Preserved:	(Y) / N / NA
Received On Ice:	Y / (N)	Preserved at Lab:	Y / N / (NA)

Comments
*Analysis Assigned: Metals, Hg, Pesticides, 8260B, Dioxins, Sulfides, Anions, Paint filter test, TKN, Ammonia

*Centrate Sample preserved @ MBC

See instructions, on reverse, for completing this form.
FIGURE 2a

Original-retained by lab — 1st copy – Transporter — Last copy - for sample originator

METRO BIOSOLIDS CENTER SLUDGE COMPOSITE DAILY SAMPLE LOG

For Month of : April 2020

Date	Day	Time	Source *		Sampler	Notes
04/01/20	W	0700	3.4.7		JL	
04/02/20	Th	0650	3.4.7		MN	
04/03/20	F	0708	3.4.7		MN	
04/04/20	Sat	0700	3.4.7		SL	
04/05/20	Sn	0736	3.4.7		LC	
04/06/20	M	0700	3.4.7		LC	
04/07/20	Tu	0700	3.4.7		LC	
04/08/20	W	0744	3,4,7,8		KB	
04/09/20	Th	0700	3.4.7.8		LC	
04/10/20	F	0700	3.4.7		LC	
04/11/20	Sat	0800	3617 8		SC	
04/12/20	Su	0730	3,6,7		UK	
04/13/20	M	0700	3,6,7		BK	
04/14/20	Tu	0700	3,4,7		JR	
04/15/20	W	0740	1,3,4,7		MN	
04/16/20	Th	0700	1 4 7		E.N.	
04/17/20	F	0700	3,4,7		JR	
04/18/20	Sat	0800	3,4,8		SC	
04/19/20	Su	0730	3,4,8		UK	
04/20/20	M	0700	3 4 8		E.N.	
04/21/20	Tu	0700	3,4,8		JR	
04/22/20	W	0700	3,4,6		JR	
04/23/20	Th	0649	1,3,4,6		KB	
04/24/20	F	0621	1,3,4,8		KB	
04/25/20	Sat	0730	1,3,4,8		RSC	
04/26/20	Su	0730	1,3,4,8		UK	
04/27/20	M	0700	1,3,4,8		JR	
04/28/20	Tu	0700	1,4,5,8		JR	
04/29/20	W	0700	1,4,5		BK	
04/30/20	Th	0700	1 5 6 7		E.N	

Print
Supervisor's Name: DEDRIC EVANS Sign:

Date: ~~5~~ 4-30-20

* Samples taken from the MBC Dewatering Centrifuges.

Revised 12/31/2019

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT
CERTIFICATION STATEMENT

In Compliance with
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the City of San Diego Public Utilities Department

VECTOR ATTRACTION REDUCTION

The daily fractional volatile solids reduction (FVSR) values were calculated using the Van Kleck Equation and raw and digested sludge volatile solids for the month of MAY 2020 from locations based on the following information from Operations staff:

All sludge sent to Metro Biosolids Center (MBC) from the Pt. Loma WWTP is pumped from Digester 7.
Only North City Water Reclamation Plant (NCWRP) raw sludge is going to MBC digesters.
The MBC thickened sludge samples are representative of the raw sludge from NCWRP.
MBC is using Digester No.1 for sludge processing.

The following determinations of volatile solids were done using approved methods by a laboratory certified by the State of Arizona (Cert. No. AZ0783)

60.5 % Average Volatile Solids Reduction for the Pt. Loma WTP sludge digestion process.
62.9 % Average Volatile Solids Reduction for the sludge MBC treats from the NCWRP.

Both streams **do** / ~~do not~~ meet 38% FVSR criteria.

Environmental Chemistry Laboratory Senior Chemist — Date 6/30/2020

I certify that the sludge samples taken and used in these determinations were taken and handled under my direction and supervision using approved methods and are representative samples of actual operational conditions.

Wastewater Treatment Superintendent, Metro Biosolids Center (MBC) — Date 7/14/20

Wastewater Treatment Superintendent, Pt. Loma Wastewater Treatment Plant — Date 7/15/20

CERTIFICATION STATEMENT
VECTOR ATTRACTION REQUIREMENTS

I certify, under penalty of law, the vector attraction reduction requirement in Paragraph 503.33 (b) (1) which states that:
The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent, has 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 vector reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

By:

Chief Plant Operator
Wastewater Treatment and Disposal — Date 7/15/20

FVSR (Fractional Volatile Solids Reduction)

$$FVSR = \frac{VS_p - VS_b}{VS_p - (VS_p * VS_b)} = \frac{Vol.solidsRaw - Vol.solids\ Digested}{Vol.solids\ Raw - (Vol.solids\ Raw * Vol.solids\ Digested)}$$

Where: VS_p = Volatile Solids Feed Sludge (RAW SLUDGE),
VS_b = Volatile Solids Digested Sludge (DIG SLUDGE), currently only digester 7 is used for the calculation.

Volatile Solids (VS) is expressed as fractional numbers.

Average Volatile Solids for MAY 2020

Average %TVS Digested Sludge (Digester 7) for the month.	Average Raw (feed) sludge %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
58.2	77.9	60.5%

Average Volatile Solids for MAY 2020

Average %TVS Digested Sludge (MBC Dig 1) for the month.	Average Raw (feed) sludge (MBC_TSBTC) %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
63.6	82.5	62.9%

Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\METALS\TS_VS_DSLDG\20127TS24

ALVARADO WASTEWATER CHEMISTRY LAB.
ARIZONA DH No. AZ0783
Total and Volatile Solids

BATCH ID: 20127TS24 ANALYSIS DATE: 5/6/2020 PROTOCOL: SM2540G/EPA160.4
ANALYSIS: TS/VS_SLDG MDL(%): 0.24
ANALYST: TJCANNON LCS TRUE VALUE: 3.9

SAMPLE ID	SAMPLE DATE	SOURCE	TEST TYPE	DISH ID	TARE WT grams	WET WT grams	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TS	COMMENTS
Standard Methods 2540B for the Determination of Residue (%TS)												
P1168226	5/6/2020	LAB	BLNK	XL	80.59	113.89	80.6	7:42 AM	80.6	10:17 AM	ND	
P1168227	5/6/2020	LAB	LCS	6	72.36	116.53	74.09	7:42 AM	74.09	10:17 AM	3.9	%REC= 100
P1165503	5/5/2020	MBC_DIGI		PO	77.94	115.95	78.53	7:42 AM	78.53	10:17 AM	1.6	
P1165503	5/5/2020	MBC_DIGI	DUP	XM	81.96	119.81	82.56	7:42 AM	82.55	10:17 AM	1.6	%RPD =0
P1165504	5/5/2020	MBC_TSBTC		S6	75.59	116.99	76.73	7:42 AM	76.73	10:17 AM	2.8	
P1165506	5/5/2020	PLDIG7		CR	80.44	123.16	81.34	7:42 AM	81.35	10:17 AM	2.1	
P1165505	5/5/2020	RAW COMP		RJ	75.74	119.41	77.55	7:42 AM	77.55	10:17 AM	4.1	
						FINAL WT (g)						
EPA Method 160.4 for %TVS at 550°C					TARE WT (g)	Total Solids	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TVS	
P1168226	5/6/2020	LAB	BLNK	XL	80.59	80.6						
P1168227	5/6/2020	LAB	LCS	6	72.36	74.09						
P1165503	5/5/2020	MBC_DIGI		PO	77.94	78.53	78.15	2:22 PM	78.15	11:00 AM	64.4	
P1165503	5/5/2020	MBC_DIGI	DUP	XM	81.96	82.55	82.18	2:22 PM	82.18	11:00 AM	62.7	%RPD =2.7
P1165504	5/5/2020	MBC_TSBTC		S6	75.59	76.73	75.78	2:22 PM	75.79	11:00 AM	82.5	
P1165506	5/5/2020	PLDIG7		CR	80.44	81.35	80.82	2:22 PM	80.82	11:00 AM	58.2	
P1165505	5/5/2020	RAW COMP		RJ	75.74	77.55	76.15	2:22 PM	76.14	11:00 AM	77.9	

1st Entry_____ 2nd Entry_____ Final Entry_____

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-MAY-2020 to 31-MAY-2020

Source: MBCDEWCN
Sample ID: P1165500
Sample Date: 31-MAY-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	4.85	1.38	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.31	MG/KG	270	77	10000	*	100.00		
Beryllium	0.01	MG/KG	0.089	0.025	75	*	.75		
Cadmium	0.03	MG/KG	0.761	0.217	100	*	1.00	39	
Chromium (VI)			NA		500	NA	5.00		
Chromium	0.1	MG/KG	52.0	14.8	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.53	1.01	8000	*	80.00		
Copper	2.4	MG/KG	569	162	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	12.4	3.53	1000	*	5.00	300	350
Molybdenum	0.1	MG/KG	15.3	4.36	3500	*	350.00		
Mercury	0.059	MG/KG	0.618	0.176	20	*	0.20	17	
Nickel	0.6	MG/KG	24.1	6.87	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.16	1.76	100	*	1.00	100	
Silver	0.27	MG/KG	2.66	0.758	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	34.6	9.86	2400	*	24.00		
Zinc	0.8	MG/KG	904	258	5000	*	250.00	2,800	
Fluoride	1	MG/KG	141	40.2	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	20000	5700					
Total Solids		WT%	28.5						
Total Volatile Solids		WT%	59.5						
pH		PH	8.17		>2 - <12				
Ammonia-N	76	MG/KG	5600						
Nitrite Nitrate Calc		MG/KG	1.53#						
Organic Nitrogen Calc.		MG/KG	45000						
Total Kjeldahl Nitrogen		MG/KG	50600			NA			
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	.14		
2,4-D	0.35	MG/KG	ND	ND	100	*	10.00		
Chlordanes	0.0016	MG/KG	ND	ND	2.5	*	.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	.10		
Dieldrin	0.0006	MG/KG	0.01	0.002	8.0	*	.80		
Endrin	0.0011	MG/KG	ND	ND	0.2	*	.02		
Heptachlor	0.0005	MG/KG	ND	ND	4.7	*	.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.928	MG/KG	ND	ND					
BHC, Total	0.001	MG/KG	ND	ND	4.0	*	.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol	13.9	MG/KG	ND	ND	17	*	1.70		
PCBs (Arochlors)	2.32	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	.50		
Trichloroethene	0.021	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP	0.35	MG/KG	ND	ND	10	*	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.
# = Nitrate Sample analyzed outside holding time; sample result not included in average calculations.

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - *Centrifuge Dewatered Sludge*

I. INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuged dewatered sludge samples taken from the centrifuges over the calendar month of May 2020.

Metals from Table 3 of Paragraph 503.13†
(All concentrations in dry weight)

Parameter	Value	Units	503 Limit	Units
Arsenic	ND	mg/Kg	41	mg/Kg
Cadmium	0.761	mg/Kg	39	mg/Kg
Chromium	52.0	mg/Kg	1,200	mg/Kg
Copper	569	mg/Kg	1,500	mg/Kg
Lead	12.4	mg/Kg	300	mg/Kg
Mercury	0.618	mg/Kg	17	mg/Kg
Molybdenum	15.3	mg/Kg	75	mg/Kg^
Nickel	24.1	mg/Kg	420	mg/Kg
Selenium	6.16	mg/Kg	100	mg/Kg
Zinc	904	mg/Kg	2,800	mg/Kg
Total Nitrogen#	5.06	Wt %		
Date of Sample	31-May-2020			
Total Solids	28.5	Wt %		
Volatile Solids	59.5	Wt %		

† Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist
Environmental Chemistry Laboratory,
California State ELAP Cert. No. 1609

6/30/2020
Date

VAR CERT. Form
Revised 7/6/2000

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-MAY-2020 to 31-MAY-2020

Source: MBCDEWCN
Sample ID: P1165500
Sample Date: 31-MAY-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	4.85	1.38	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.31	MG/KG	270	77	10000	*	100.00		
Beryllium	0.01	MG/KG	0.089	0.025	75	*	0.75		
Cadmium	0.03	MG/KG	0.761	0.217	100	*	1.00	39	
Chromium (VI)			NA		500	NA	5.00		
Chromium	0.1	MG/KG	52.0	14.8	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.53	1.01	8000	*	80.00		
Copper	2.4	MG/KG	569	162	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	12.4	3.53	1000	*	5.00	300	350
Molybdenum	0.1	MG/KG	15.3	4.36	3500	*	350.00		
Mercury	0.059	MG/KG	0.618	0.176	20	*	0.20	17	
Nickel	0.6	MG/KG	24.1	6.87	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.16	1.76	100	*	1.00	100	
Silver	0.27	MG/KG	2.66	0.758	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	34.6	9.86	2400	*	24.00		
Zinc	0.8	MG/KG	904	258	5000	*	250.00	2,800	
Fluoride	1	MG/KG	141	40.2	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	20000	5700					
Total Solids		WT%	28.5						
Total Volatile Solids		WT%	59.5						
pH		PH	8.17		>2 - <12				
Ammonia-N	76	MG/KG	5600						
Nitrite Nitrate Calc		MG/KG	1.53#						
Organic Nitrogen Calc.		MG/KG	45000						
Total Kjeldahl Nitrogen		MG/KG	50600						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
2,4-D	0.35	MG/KG	ND	ND	100	*	10.00		
Chlordanes	0.0016	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	0.01	0.002	8.0	*	0.80		
Endrin	0.0011	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0005	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.928	MG/KG	ND	ND					
BHC, Total	0.001	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol	13.9	MG/KG	ND	ND	17	*	1.70		
PCBs (Arochlors)	2.32	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.021	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP	0.35	MG/KG	ND	ND	10	*	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699. All determinations were done using approved methods by laboratories certified by the State of Arizona (Cert. No. AZ0783).

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
. = this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.
# = Nitrate Sample analyzed outside holding time; sample result not included in average calculations.

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - *Centrifuge Dewatered Sludge*

I. INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuged dewatered sludge samples taken from the centrifuges over the calendar month of May 2020. All analyses were performed by the City of San Diego's Environmental Chemistry Services Laboratory using methods certified by the State of Arizona (Cert. No. AZ0783).

Metals from Table 3 of Paragraph 503.13†
(All concentrations in dry weight)

Parameter	Value	Units	503 Limit	Units
Arsenic	ND	mg/Kg	41	mg/Kg
Cadmium	0.761	mg/Kg	39	mg/Kg
Chromium	52.0	mg/Kg	1,200	mg/Kg
Copper	569	mg/Kg	1,500	mg/Kg
Lead	12.4	mg/Kg	300	mg/Kg
Mercury	0.618	mg/Kg	17	mg/Kg
Molybdenum	15.3	mg/Kg	75	mg/Kg^
Nickel	24.1	mg/Kg	420	mg/Kg
Selenium	6.16	mg/Kg	100	mg/Kg
Zinc	904	mg/Kg	2,800	mg/Kg
Total Nitrogen#	5.06	Wt %		
Date of Sample	31-May-2020			
Total Solids	28.5	Wt %		
Volatile Solids	59.5	Wt %		

† Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist
Environmental Chemistry Laboratory,
Arizona State Cert. No. AZ0783

Date 6/30/2020

VAR CERT. Form
Revised 7/6/2000

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ALVARADO WASTEWATER CHEMISTRY LAB

Cert. No. 1609 / ARIZONA Cert. No. AZ0783

TOTAL KJELDAHL NITROGEN SOLIDS

MDL: 0.05

BATCH ID: 20161TKN22
ANALYSIS: TKN_TIT_SLDG
MATRIX TYPE: DEWATERED_SLDG

ANALYSIS DATE: 6/9/2020

ANALYST: LPANTOJA

PROTOCOL: 4500-Norg B

pH STANDARDS: Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\SOP\pH buffer standard exp date_lot_source.xlsm						pH check	Vendor	Exp.	Lot #	Concentration	Conc. units	Volume used, ml	COMMENTS
Buffer # 10	Fisher cat. #	SB115-4	Exp. Date:	9/30/2020	Lot# 185490	Initial	Lab Chem	1/18/2021	J009-19	1000	mg/L	2.50	LCS/SPK
Buffer # 4	Fisher cat. #	SB101-4	Exp. Date:	7/31/2020	Lot# 184124	6.998	HACH	11/302022	A7334	100	mg/L	2.50	MDL check, tv=0.125%
Buffer # 7	Fisher cat. #	SB107-4	Exp. Date:	10/31/2020	Lot# 186926	Final	PHENOVA, Soil;	10/31/2020	7070-09	0.245	%		Acceptance Range,%:
						7.002							53.9 - 138
Slope:	100.9	Acceptable % range: 95 to 105			Calibration result: PASS		FOSS Analytical	10/31/2020	136922	KJELTABS Cu-3.5		1/2 tab	Digestion tablet
H2SO4 Lot # 1901A37 EXP: 12/21		Normality of H2SO4 =		0.0202	Titrator verification, 5.0 ml:		5.0	**Ml from 1000 mg/L NH3N used for SPK =				2.5	

SAMPLE ID	SOURCE	SAMPLE TYPE	TEST #	SAMPLE SIZE	UNIT	TS %	ML of H2SO4 used for end point	ANALYTE	UNITS	RESULT WT%	TRUE VALUE WT%	COMMENTS PUT BLANK FIRST		TEMP
P1175230	LAB_ALV	BLNK	1	0.2	grams	100	0.009	TKN	WT%	0.00127				5.0
P1175234	LAB_ALV	CHK	1	0.2	grams	100	9.187	TKN	WT%	1.30	1.25	%REC =	104	8.65
P1175235	PHENOVA	CHK	1	0.2022	grams	100	1.624	TKN	WT%	0.226	0.245	%REC =	92.2	13.7
P1165500	MBCDEWCN	SAMP	1	0.3088	grams	28.5	15.55	TKN	WT%	4.99				17.3
P1165500	MBCDEWCN	SAMP	2	0.317	grams	28.5	16.41	TKN	WT%	5.13		%RPD=	2.8	9.95
P1165500	MBCDEWCN	SPK	1	0.2168	grams	28.5	21.14	TKN	WT%	9.67	4.05	%REC =	113.8	12.4
P1165500	MBCDEWCN	SPK	2	0.2051	grams	28.5	20.13	TKN	WT%	9.73	4.28	%REC / RPD =	109.1 / 0.6	16.95
P1175236	LAB_ALV	CHK	1	0.2	grams	100	1.05	TKN	WT%	0.147	0.125	%REC =	117.6	MDL chk 17.8

P1165500	MBCDEWCN	SAMP		Analyte:	TOTKN	MG/KG	49500
P1165500	MBCDEWCN	SAMP	DUP	Analyte:	TOTKN	MG/KG	51300

P1165500	MBCDEWCN	SAMP		Analyte:	AMMONIA_N	MG/KG	5530
P1165500	MBCDEWCN	SAMP	DUP	Analyte:	AMMONIA_N	MG/KG	5660

P1165500	MBCDEWCN	SAMP		Analyte: **	NITROGEN_ORG	MG/KG	44400
P1165500	MBCDEWCN	SAMP	DUP	Analyte: **	NITROGEN_ORG	MG/KG	45600

1st Entry_____ 2nd Entry_____ Final Entry_____

The City of SAN DIEGO

PUBLIC UTILITIES DEPARTMENT
ENVIRONMENTAL MONITORING & TECHNICAL SERVICES DIVISION
ENVIRONMENTAL CHEMISTRY SERVICES SECTION
5530 Kiowa Drive
La Mesa, CA 91942
(619) 668-3215

SAMPLING REPORT & CHAIN OF CUSTODY RECORD

Project/Client:	Quarterly Dewatered Sludge/MBC	Contact Name:	Richard Pitchford	Type of Sampling Equipment/How sample obtained/other sampling notes:
Contact Name:	Estela Lanez	Sampler/s:	KATIE BASSEY	
Phone:	(619)221-8352	Phone:	(858) 614 - 5509	

Sample Information: (All information is required) Number of attachments:

Date/Time Sample Taken	Source / Location	Sample Type/Description	Grab / Composite	Vol / wt (mL / L / g)	Number of containers	Container Type	Preservative cool, ≤ °6C	Analyses requested	Sample Log Number (Lab use only)	Sample Temperature (Lab use only)
5/31/2020 @2359	MBCDEWCN	DW sludge	Comp	10L	1	G	≤6.0°C	*	P1165500	2.9°C
06/01/2020 @ 1005	Field Blank	Reagent water	Grab	40ml	1	G	≤6.0°C	Volatiles	P1165501	2.4°C
5/31/2020 @2359	Centrate	Wastewater	Comp	1L	1	P	≤6.0°C	Metals, Hg	P1165499	5.1°C

Chain-of-Custody

Relinquished by:	Date & Time	Received by:	Date & Time
Name: Joshua Rank	6/1/2020 1015	Name: Joe Guerrero	6/1/2020
Sign:	Location: MBC	Sign:	Location: 1016 MBC
Relinquished by:	Date & Time	Received by:	Date & Time
Name:	Location:	Name:	Location:
Sign:		Sign:	
Relinquished by:	Date & Time	Received by:	Date & Time
Name:	Location:	Name:	Location:
Sign:		Sign:	

Sample Condition Received in Lab

Temperature In Compliance:	(Y) / N		
Container Intact:	(Y) / N	Preserved:	(Y) / N / NA
Received On Ice:	Y / (N)	Preserved at Lab:	(Y) / N

Comments

*Analysis Assigned: Metals, Hg, Pesticides, 8260B, Dioxins, Sulfides, Phenols, Anions, Paint filter test, TKN, Ammonia

See instructions, on reverse, for completing this form.
FIGURE 2a

Original-retained by lab

1st copy – Transporter
Last copy - for sample originator

A completed Sampling Report and Chain of Custody Record form must accompany the sample once the monthly composite is completed and delivered to the lab.

METRO BIOSOLIDS CENTER SLUDGE COMPOSITE DAILY SAMPLE LOG

For Month of : May

Date	Day	Time	Source *	Sampler	Notes
05/01/20	F	0700	1,5,6	JR	
05/02/20	Sat	0700	1,5,6,8	RSL	
05/03/20	Su	0700	1,5,6	BR	
05/04/20	M	0658	1,4,5,6	KB	
05/05/20	Tu	0619	1,4,5,6	KB	
05/06/20	W	0628	1,4,5,6	KB	
05/07/20	Th	0620	2,4,5	KB	
05/08/20	F	0700	1.4.5.6	LL	
05/09/20	Sat	0630	1,4,5,6	GC	
05/10/20	Sn	0700	1,4,5,6	BR	
05/11/20	M	0630	1,4,6	KB	
05/12/20	Tu	0700	1,4,5,6	BK	
05/13/20	W	0628	1,4,6,7	KB	
05/14/20	Th	0652	4,5,6	KB	
05/15/20	F	0634	5,6,8	KB	
05/16/20	Sa	0600	5,6,7,8	GC	
05/17/20	Sn	0700	5,6,7,8	BR	
05/18/20	M	0731	3,5,6,8	KB	
05/19/20	Tu	0716	3,5,6	MN	
05/20/20	W	0658	3,6,8	MN	
05/21/20	Th	0716	3,6,7,8	MN	
05/22/20	F	0700	3,6,7,8	MN	
05/23/20	Sa	0623	3,6,7,8	GC	
05/24/20	Sn	0700	3,5,7,8	BR	
05/25/20	M	0700	3,5	BR	
05/26/20	Tu	0700	3,5,8	JR	
05/27/20	W	0750	3,5,7,8	MN	
05/28/20	Th	0736	3,5,7,8	MN	
05/29/20	Sa	0636	3,5,7,8	KB	
05/30/20	Sn	0630	3,5,7,8	GC	
05/31/20	M	0700	3,5,7,8	BR	

Print Supervisor's Name: D. EVANS Sign: D Evans

Date: 6-1-20

Revised 12/31/2019

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT
CERTIFICATION STATEMENT
In Compliance with
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the City of San Diego Public Utilities Department

VECTOR ATTRACTION REDUCTION

The daily fractional volatile solids reduction (FVSR) values were calculated using the Van Kleck Equation and raw and digested sludge volatile solids for the month of JUN 2020 from locations based on the following information from Operations staff:

All sludge sent to Metro Biosolids Center (MBC) from the Pt. Loma WWTP is pumped from Digester 7.
Only North City Water Reclamation Plant (NCWRP) raw sludge is going to MBC digesters.
The MBC thickened sludge samples are representative of the raw sludge from NCWRP.
MBC is using Digester No.1 for sludge processing.

The following determinations of volatile solids were done using approved methods by a laboratory certified by the State of Arizona (Cert. No. AZ0783)

56.8 % Average Volatile Solids Reduction for the Pt. Loma WTP sludge digestion process.
58.5 % Average Volatile Solids Reduction for the sludge MBC treats from the NCWRP.

Both streams **do** / ~~do not~~ meet 38% FVSR criteria.

Environmental Chemistry Laboratory Senior Chemist — Date 7/30/2020

I certify that the sludge samples taken and used in these determinations were taken and handled under my direction and supervision using approved methods and are representative samples of actual operational conditions.

Wastewater Treatment Superintendent, Metro Biosolids Center (MBC) — Date 8/25/20

Wastewater Treatment Superintendent, Pt. Loma Wastewater Treatment Plant — Date 9/1/20

CERTIFICATION STATEMENT
VECTOR ATTRACTION REQUIREMENTS

I certify, under penalty of law, the vector attraction reduction requirement in Paragraph 503.33 (b) (1) which states that:
The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent, has 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 vector reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

By:

Chief Plant Operator
Wastewater Treatment and Disposal — Date 9/1/20

FVSR (Fractional Volatile Solids Reduction)

$$FVSR = \frac{VS_p - VS_b}{VS_p - (VS_p * VS_b)} = \frac{Vol.solids Raw - Vol.solids\ Digested}{Vol.solids\ Raw - (Vol.solids\ Raw * Vol.solids\ Digested)}$$

Where: VS_p = Volatile Solids Feed Sludge (RAW SLUDGE),
VS_b = Volatile Solids Digested Sludge (DIG SLUDGE), currently only digester 7 is used for the calculation.

Volatile Solids (VS) is expressed as fractional numbers.

Average Volatile Solids for JUN 2020

Average %TVS Digested Sludge (Digester 7) for the month.	Average Raw (feed) sludge %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
61.5	78.7	56.8%

Average Volatile Solids for JUN 2020

Average %TVS Digested Sludge (MBC Dig 1) for the month.	Average Raw (feed) sludge (MBC_TSBTC) %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
68.2	83.8	58.5%

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ALVARADO WASTEWATER CHEMISTRY LAB.
ARIZONA DH No. AZ0783
Total and Volatile Solids

BATCH ID: 20155TS63
ANALYSIS: TS/VS_SLDG
ANALYST: TJCANNON

ANALYSIS DATE: 6/3/2020

PROTOCOL: SM2540G/EPA160.4
MDL(%): 0.24
LCS TRUE VALUE: 3.9

SAMPLE ID	SAMPLE DATE	SOURCE	TEST TYPE	DISH ID	TARE WT grams	WET WT grams	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TS	COMMENTS
Standard Methods 2540B for the Determination of Residue (%TS)												
P1174677	6/3/2020	LAB	BLNK	XL	80.59	115.79	80.58	7:33 AM	80.59	10:15 AM	ND	
P1174678	6/3/2020	LAB	LCS	6	72.36	118.76	74.17	7:33 AM	74.17	10:15 AM	3.9	%REC= 100
P1172667	6/2/2020	MBC_DIG1		DIG7	72.84	110.42	73.47	7:33 AM	73.46	10:15 AM	1.6	
P1172667	6/2/2020	MBC_DIG1	DUP	S7	75.15	116.29	75.85	7:33 AM	75.85	10:15 AM	1.7	%RPD =6.1
P1172668	6/2/2020	MBC_TSBTC		PO	77.94	121.64	79.5	7:33 AM	79.48	10:15 AM	3.5	
P1172670	6/2/2020	PLDIG7		THE	74.83	117.25	75.76	7:33 AM	75.74	10:15 AM	2.1	
P1172669	6/2/2020	RAW COMP		XM	81.95	123.14	83.59	7:33 AM	83.59	10:15 AM	4	
						FINAL WT (g)						
EPA Method 160.4 for %TVS at 550°C					TARE WT (g)	Total Solids	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TVS	
P1174677	6/3/2020	LAB	BLNK	XL	80.59	80.59						
P1174678	6/3/2020	LAB	LCS	6	72.36	74.17						
P1172667	6/2/2020	MBC_DIG1		DIG7	72.84	73.46	73.04	10:55 AM	73.04	1:42 PM	67.7	
P1172667	6/2/2020	MBC_DIG1	DUP	S7	75.15	75.85	75.37	10:55 AM	75.37	1:42 PM	68.6	%RPD =1.3
P1172668	6/2/2020	MBC_TSBTC		PO	77.94	79.48	78.19	10:55 AM	78.19	1:42 PM	83.8	
P1172670	6/2/2020	PLDIG7		THE	74.83	75.74	75.18	10:55 AM	75.18	1:42 PM	61.5	
P1172669	6/2/2020	RAW COMP		XM	81.95	83.59	82.3	10:55 AM	82.30	1:42 PM	78.7	

1st Entry_____ 2nd Entry_____ Final Entry_____

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge

From 01-JUN-2020 to 30-JUN-2020

Source: MBCDEWCN
Sample ID: P1171268
Sample Date: 30-JUN-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	4.89	1.34	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.31	MG/KG	274	74.8	10000	*	100.00		
Beryllium	0.01	MG/KG	0.08	0.021	75	*	0.75		
Cadmium	0.03	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)			NA	NA	500	NA	5.00		
Chromium	0.1	MG/KG	51.3	14.0	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	80.1	21.9	8000	*	80.00		
Copper	2.4	MG/KG	671	183	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	13.8	3.8	1000	*	5.00	300	350
Molybdenum	0.1	MG/KG	15.9	4.34	3500	*	350.00		
Mercury#	0.118	MG/KG	0.677	0.184	20	*	0.20	17	
Nickel	0.6	MG/KG	25.1	6.85	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.42	1.75	100	*	1.00	100	
Silver	0.27	MG/KG	18.6	5.08	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	26.4	7.21	2400	*	24.00		
Zinc	0.8	MG/KG	937	256	5000	*	250.00	2,800	
Fluoride	1	MG/KG	204	55.7	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	15900	4350					
Total Solids		WT%	27.3						
Total Volatile Solids		WT%	60.4						
pH		PH	8.07		>2 - <12				
Ammonia-N	76	MG/KG	5860						
Nitrite Nitrate Calc	0.67	MG/KG	1.73						
Organic Nitrogen Calc.		MG/KG	41500						
Total Kjeldahl Nitrogen		MG/KG	47400						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
2,4-D			NA	NA	100	NA	10.0		
Chlordanes	0.0016	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.0011	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0005	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.0009	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.001	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0008	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.41	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.18	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0223	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699. All determinations were done using approved methods by laboratories certified by the State of Arizona (Cert. No. AZ0783).

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.
# = Relative percent difference of sample duplicates outside quality control criteria.

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - *Centrifuge Dewatered Sludge*

I. INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuged dewatered sludge samples taken from the centrifuges over the calendar month of Jun 2020. All analyses were performed by the City of San Diego's Environmental Chemistry Services Laboratory using methods certified by the State of Arizona (Cert. No. AZ0783).

Metals from Table 3 of Paragraph 503.13†
(All concentrations in dry weight)

Parameter	Value	Units	503 Limit	Units
Arsenic	ND	mg/Kg	41	mg/Kg
Cadmium	ND	mg/Kg	39	mg/Kg
Chromium	51.3	mg/Kg	1,200	mg/Kg
Copper	671	mg/Kg	1,500	mg/Kg
Lead	13.8	mg/Kg	300	mg/Kg
Mercury**	0.677	mg/Kg	17	mg/Kg
Molybdenum	15.9	mg/Kg	75	mg/Kg^
Nickel	25.1	mg/Kg	420	mg/Kg
Selenium	6.42	mg/Kg	100	mg/Kg
Zinc	937	mg/Kg	2,800	mg/Kg
Total Nitrogen#	4.74	Wt %		
Date of Sample	30-Jun-2020			
Total Solids	27.3	Wt %		
Volatile Solids	60.4	Wt %		

† Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.
** = Relative percent difference of sample duplicates outside quality control criteria.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist
Environmental Chemistry Laboratory,
Arizona State Cert. No. AZ0783

7/30/2020
Date

VAR CERT. Form
Revised 7/6/2000

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge

From 01-JUN-2020 to 30-JUN-2020

Source: MBCDEWCN
Sample ID: P1171268
Sample Date: 30-JUN-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	4.89	1.34	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.31	MG/KG	274	74.8	10000	*	100.00		
Beryllium	0.01	MG/KG	0.08	0.021	75	*	0.75		
Cadmium	0.03	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)			NA	NA	500	NA	5.00		
Chromium	0.1	MG/KG	51.3	14.0	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	80.1	21.9	8000	*	80.00		
Copper	2.4	MG/KG	671	183	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	13.8	3.8	1000	*	5.00	300	350
Molybdenum	0.1	MG/KG	15.9	4.34	3500	*	350.00		
Mercury#	0.118	MG/KG	0.677	0.184	20	*	0.20	17	
Nickel	0.6	MG/KG	25.1	6.85	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.42	1.75	100	*	1.00	100	
Silver	0.27	MG/KG	18.6	5.08	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	26.4	7.21	2400	*	24.00		
Zinc	0.8	MG/KG	937	256	5000	*	250.00	2,800	
Fluoride	1	MG/KG	204	55.7	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
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Total Volatile Solids		WT%	60.4						
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DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
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Kepone			NA	NA	21	NA	2.10		
Lindane	0.0009	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.001	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0008	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.41	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.18	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0223	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
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* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
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# = Relative percent difference of sample duplicates outside quality control criteria.

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - *Centrifuge Dewatered Sludge*

I. INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuged dewatered sludge samples taken from the centrifuges over the calendar month of Jun 2020.

Metals from Table 3 of Paragraph 503.13†
(All concentrations in dry weight)

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Lead	13.8	mg/Kg	300	mg/Kg
Mercury**	0.677	mg/Kg	17	mg/Kg
Molybdenum	15.9	mg/Kg	75	mg/Kg^
Nickel	25.1	mg/Kg	420	mg/Kg
Selenium	6.42	mg/Kg	100	mg/Kg
Zinc	937	mg/Kg	2,800	mg/Kg
Total Nitrogen#	4.74	Wt %		
Date of Sample	30-Jun-2020			
Total Solids	27.3	Wt %		
Volatile Solids	60.4	Wt %		

† Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.
** = Relative percent difference of sample duplicates outside quality control criteria.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist
Environmental Chemistry Laboratory,
California State ELAP Cert. No. 1609

7/30/2020
Date

VAR CERT. Form
Revised 7/6/2000

ALVARADO WASTEWATER CHEMISTRY LAB
Cert. No. 1609 / ARIZONA Cert. No. AZ0783
TOTAL KJELDAHL NITROGEN SOLIDS

BATCH ID: 20190TKN55
ANALYSIS: TKN_TIT_SLDG
MATRIX TYPE: DEWATERED_SLDG

ANALYSIS DATE: 7/9/2020

MDL: 0.05

ANALYST: LPANTOJA

PROTOCOL: **4500-Norg B**

pH STANDARDS: Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\SB\pH buffer standards-exp date_lot_source-.xlsm

Buffer # 10	Fisher cat. #	SB115-4	Exp. Date:	9/30/2020	Lot# 185490
Buffer # 4	Fisher cat. #	SB101-4	Exp. Date:	7/31/2020	Lot# 184124
Buffer # 7	Fisher cat. #	SB107-4	Exp. Date:	10/31/2020	Lot# 186926

pH check	
Initial	6.990
Final	6.988

Vendor	Exp.	Lot #	Concentration	Conc. units	Volume used, ml	COMMENTS
Lab Chem	1/18/2021	J009-19	1000	mg/L	2.50	LCS/SPK
HACH	11/302022	A7334	100	mg/L	2.50	MDL check, tv=0.125%
PHENOVA, Soil;	10/31/2020	7070-09	0.245	%		Acceptance Range,%:
						53.9 - 138
FOSS Analytical	10/31/2020	136322	KJELTABS Cu-3.5		1/2 tab	Digestion tablet

Slope: 100.3 — Acceptable % range: 95 to 105 — Calibration result: PASS

H2SO4 Lot # 1901A91 EXP: 12/21 — Normality of H2SO4 = 0.02 — Titrator verification, 5.0 ml: 5.0 — **Ml from 1000 mg/L NH3N used for SPK = 2.5

SAMPLE ID	SOURCE	SAMPLE TYPE	TEST #	SAMPLE SIZE	UNIT	TS %	ML of H2SO4 used for end point	ANALYTE	UNITS	RESULT WT%	TRUE VALUE WT%	COMMENTS PUT BLANK FIRST	
P1180508	LAB_ALV	BLNK	1	0.2	grams	100	0.097	TKN	WT%	0.01358			5.0
P1180509	LAB_ALV	CHK	1	0.2	grams	100	9.294	TKN	WT%	1.29	1.25	103.2	10.4
P1180510	PHENOVA	CHK	1	0.253	grams	100	2.28	TKN	WT%	0.24	0.245	98	14.25
P1171268	MBCDEWCN	SAMP	1	0.2323	grams	27.3	10.48	TKN	WT%	4.58			16.25
P1171268	MBCDEWCN	SAMP	2	0.2375	grams	27.3	11.41	TKN	WT%	4.89		6.5	10.95
P1171268	MBCDEWCN	SPK	1	0.2046	grams	27.3	18.77	TKN	WT%	9.36	4.48	103.2	15.35
P1171268	MBCDEWCN	SPK	2	0.233	grams	27.3	19.97	TKN	WT%	8.75	3.93	102.2 / 6.7	6.95

P1171268	MBCDEWCN	CHK		Analyte:	TOTKN	MG/KG	45800
P1171268	MBCDEWCN	SAMP	DUP	Analyte:	TOTKN	MG/KG	48900

↓Where is your Total_N sample ID?
A23

P1171268	MBCDEWCN	CHK		Analyte:	AMMONIA_N	MG/KG	5910
P1171268	MBCDEWCN	SAMP	DUP	Analyte:	AMMONIA_N	MG/KG	5810

P1171268	MBCDEWCN	CHK		Analyte: **	NITROGEN_ORG	MG/KG	39900
P1171268	MBCDEWCN	SAMP	DUP	Analyte: **	NITROGEN_ORG	MG/KG	43100

1st Entry_____ 2nd Entry_____ Final Entry_____

The City of SAN DIEGO

PUBLIC UTILITIES DEPARTMENT
ENVIRONMENTAL MONITORING & TECHNICAL SERVICES DIVISION
ENVIRONMENTAL CHEMISTRY SERVICES SECTION
5530 Kiowa Drive
La Mesa, CA 91942
(619) 668-3215

SAMPLING REPORT & CHAIN OF CUSTODY RECORD

Project/Client:	Quarterly Dewatered Sludge/MBC	Contact Name:	Richard Pitchford	Type of Sampling Equipment/How sample obtained/other sampling notes:
Contact Name:	Estella Lanez	Sampler/s:	ELEANOR B. & JOE G.	
Phone:	(619)221-8352	Phone:	(858) 614 - 5509	

Sample Information: (All information is required) Number of attachments:

Date/Time Sample Taken	Source / Location	Sample Type/Description	Grab / Composite	Vol / wt (mL / L / g)	Number of containers	Container Type	Preservative cool, ≤ °6C	Analyses requested	Sample Log Number (Lab use only)	Sample Temperature (Lab use only)
06/30/2020 @2359	MBCDEWCN	DW sludge	Comp	10L	1	G	≤6.0°C	*	P1171268	2.4°C
~~07/01/2020 @0940~~	~~Field Blank~~	~~Reagent water~~	~~Grab~~	~~40ml~~	~~1~~	~~G~~	~~≤6.0°C~~	~~Volatiles~~	~~P1171269~~	1.0°C
06/30/2020 @2359	Centrate	Wastewater	Comp	1L	1	P	≤6.0°C	Metals, Hg	P1171267	4.0°C

Chain-of-Custody

Relinquished by: Name: Joshua Rambo Sign:	Date & Time 7/1/2020 1000 Location: MBC	Received by: Name: ELEANOR BROWN Sign: Eleanor Brown	Date & Time 7/1/2020 1000 Location: MBC
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:

Sample Condition Received in Lab

Temperature In Compliance:	(Y) N		
Container Intact:	(Y) / N	Preserved:	(Y) / N / NA
Received On Ice:	Y / (N)	Preserved at Lab:	(Y) / N

Comments

*Analysis Assigned: Metals, Hg, Pesticides, 8260B, Dioxins, Sulfides, Anions, Paint filter test, TKN, Ammonia

See instructions, on reverse, for completing this form.
FIGURE 2a

Original-retained by lab — 1st copy – Transporter — Last copy - for sample originator

METRO BIOSOLIDS CENTER SLUDGE COMPOSITE DAILY SAMPLE LOG

JUNE

For Month of : ~~January~~ 2020

Date	Day	Time	Source *	Sampler	Notes
06/01/20	M	0633	3,5,7,8	KB	
06/02/20	Tu	0700	3,7,8	BK	DC 6 was turned off
06/03/20	W	0700	1,7,8	BK	
06/04/20	Th	0634	1,3,8	KB	DC 7 is on standby
06/05/20	F	0700	1,3,6,7	MN	
06/06/20	Sat	0619	2,3,6	GC	
06/07/20	Su	0700	1,2,3,6	BR	
06/08/20	M	0700	1,2,3,6	BK	
06/09/20	Tu	0640	2,5,6	BK	
06/10/20	W	0706	3,6,8	BK	
06/11/20	Th	0720	1,3,6,8	BK	
06/12/20	F	0651	1,2,6,8	KB	
06/13/20	Sat	0628	1,2,6,8	GC	
06/14/20	Su	0700	1,2,6,8	JR	
06/15/20	M	0637	1,2,6,8	KB	
06/16/20	Tu	0630	2,3	BK	
06/17/20	W	0700	236	E.N.	
06/18/20	Th	0240	2,3,6	GC	
06/19/20	F	0700	2,3,6	LE	
06/20/20	Sat	0708	2,3,5,6	BK	
06/21/20	Su	0150	2,3,5,6	GC	
06/22/20	M	0631	2,3,5,6	KB	
06/23/20	Tu	0700	2,5,6	E.N	
06/24/20	W	0700	2,3,5,6	E.N.	
06/25/20	Th	0700	2,3,5,6	BK	
06/26/20	F	0622	2,3,6	KB	
06/27/20	Sat	0700	2,3,6,8	RSL	
06/28/20	Su	0730	2,3,6,8	LK	
06/29/20	M	0700	2,3,6,8	LC	
06/30/20	Tu	0700	2,3,6,8	LC	

Print
Supervisor's Name: D. EVANS Sign: D Evans

Date: 6/30/20

* Samples taken from the MBC Dewatering Centrifuges.

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT
CERTIFICATION STATEMENT

In Compliance with
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the City of San Diego Public Utilities Department

VECTOR ATTRACTION REDUCTION

The daily fractional volatile solids reduction (FVSR) values were calculated using the Van Kleck Equation and raw and digested sludge volatile solids for the month of JUL 2020 from locations based on the following information from Operations staff:

All sludge sent to Metro Biosolids Center (MBC) from the Pt. Loma WWTP is pumped from Digester 7.
Only North City Water Reclamation Plant (NCWRP) raw sludge is going to MBC digesters.
The MBC thickened sludge samples are representative of the raw sludge from NCWRP.
MBC is using Digester No.1 for sludge processing.

The following determinations of volatile solids were done using approved methods by a laboratory certified by the State of Arizona (Cert. No. AZ0783)

57.4 % Average Volatile Solids Reduction for the Pt. Loma WTP sludge digestion process.
51.4 % Average Volatile Solids Reduction for the sludge MBC treats from the NCWRP.

Both streams **do** / ~~do not~~ meet 38% FVSR criteria.

_____ Date 8/31/2020
Environmental Chemistry Laboratory Senior Chemist

I certify that the sludge samples taken and used in these determinations were taken and handled under my direction and supervision using approved methods and are representative samples of actual operational conditions.

_____ 9/16/2020 _____ 9/18/20
Wastewater Treatment Superintendent Date Wastewater Treatment Superintendent Date
Metro Biosolids Center (MBC) Pt. Loma Wastewater Treatment Plant

CERTIFICATION STATEMENT
VECTOR ATTRACTION REQUIREMENTS

I certify, under penalty of law, the vector attraction reduction requirement in Paragraph 503.33 (b) (1) which states that:
The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent, has 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 vector reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

By: _____ 9/22/20
Chief Plant Operator Date
Wastewater Treatment and Disposal

FVSR (Fractional Volatile Solids Reduction)

$$FVSR = \frac{VS_p - VS_b}{VS_p - (VS_p * VS_b)} = \frac{Vol.solidsRaw - Vol.solids\ Digested}{Vol.solids\ Raw - (Vol.solids\ Raw * Vol.solids\ Digested)}$$

Where: VS_p = Volatile Solids Feed Sludge (RAW SLUDGE),
VS_b = Volatile Solids Digested Sludge (DIG SLUDGE), currently only digester 7 is used for the calculation.

Volatile Solids (VS) is expressed as fractional numbers.

Average Volatile Solids for JUL 2020

Average %TVS Digested Sludge (Digester 7) for the month.	Average Raw (feed) sludge %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
58.1	76.5	57.4%

Average Volatile Solids for JUN 2020

Average %TVS Digested Sludge (MBC Dig 1) for the month.	Average Raw (feed) sludge (MBC_TSBTC) %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
66.9	80.6	51.4%

ALVARADO WASTEWATER CHEMISTRY LAB
Cert. No. 1609 / ARIZONA Cert. No. AZ0783
TOTAL KJELDAHL NITROGEN SOLIDS

BATCH ID: 20232TKN82
ANALYSIS: TKN_TIT_SLDG
MATRIX TYPE: DEWATERED_SLDG

ANALYSIS DATE: 08/19/20

MDL: 0.05

ANALYST: LPANTOJA

PROTOCOL: 4500-Norg B

pH STANDARDS: Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\SB\pH buffer standards -exp date_lot_source_.xlsm

Buffer # 10	Fisher cat. #	SB115-4	Exp. Date:	09/30/20	Lot# 185490
Buffer # 4	Fisher cat. #	SB101-4	Exp. Date:	08/31/20	Lot# 185488
Buffer # 7	Fisher cat. #	SB107-4	Exp. Date:	10/31/20	Lot# 186926

pH check	
Initial	
7.02	
Final	
7.005	

Vendor	Exp.	Lot #	Concentration	Conc. units	Volume used, ml	COMMENTS
Lab Chem	01/18/21	J009-19	1000	mg/L	2.50	LCS/SPK
HACH	11/302022	A7334	100	mg/L	2.50	MDL check, tv=0.125%
PHENOVA, Soil;	10/31/20	7070-09	0.245	%		Acceptance Range,%:
						53.9 - 138
FOSS Analytical	10/31/20	136322	KJELTABS Cu-3.5		1/2 tab	Digestion tablet

Slope: 100.9 | Acceptable % range: 95 to 105 | Calibration result: PASS

H2SO4 Lot # 1901A91 EXP: 12/21 | Normality of H2SO4 = 0.02 | Titrator verification, 5.0 ml: 5.0 | **Ml from 1000 mg/L NH3N used for SPK = 2.5

SAMPLE ID	SOURCE	SAMPLE TYPE	TEST #	SAMPLE SIZE	UNIT	TS %	ML of H2SO4 used for end point	ANALYTE	UNITS	RESULT WT%	TRUE VALUE WT%	COMMENTS PUT BLANK FIRST	
P1190416	LAB_ALV	BLNK	1	0.2	grams	100	0.01	TKN	WT%	0.0014			5.0
P1190417	LAB_ALV	CHK	1	0.2	grams	100	8.79	TKN	WT%	1.23	1.25	98.4	7.85
P1178877	MBCDEWCN	SAMP	1	0.211	grams	26.7	9.836	TKN	WT%	4.88			14.15
P1178877	MBCDEWCN	SAMP	2	0.2158	grams	26.7	10.7	TKN	WT%	5.19		6.2	14.1
P1178877	MBCDEWCN	SPK	1	0.2109	grams	26.7	18.7	TKN	WT%	9.29	4.44	95.8	16
P1178877	MBCDEWCN	SPK	2	0.2158	grams	26.7	18.94	TKN	WT%	9.2	4.34	96 / 1	15.4
P1181547	RAW COMP	SAMP	1	1.1433	grams	4.1	5.713	TKN	WT%	3.41			14.3
P1181562	DIG COMP	SAMP	1	1.0243	grams	2.2	5.272	TKN	WT%	6.54			15
P1190418	LAB_ALV	CHK	1	0.2	grams	100	0.994	TKN	WT%	0.14	0.125	112	MDL 15.2
P1190420	PHENOVA	CHK	1	0.2303	grams	100	2.143	TKN	WT%	0.26	0.245	106.1	12.4

P1178877	MBCDEWCN	SAMP		Analyte:	TOTKN	MG/KG	48800
P1178877	MBCDEWCN	SAMP	DUP	Analyte:	TOTKN	MG/KG	51900

↓Where is your Total_N sample ID?
A22

P1178877	MBCDEWCN	SAMP		Analyte:	AMMONIA_N	MG/KG	5660
P1178877	MBCDEWCN	SAMP	DUP	Analyte:	AMMONIA_N	MG/KG	5770

P1178877	MBCDEWCN	SAMP		Analyte: **	NITROGEN_ORG	MG/KG	43100
P1178877	MBCDEWCN	SAMP	DUP	Analyte: **	NITROGEN_ORG	MG/KG	46100

** NITROGEN_ORG (MG/KG) = (TOTKN MG/KG) - (AMMONIA_N MG/KG)

1st Entry_____ 2nd Entry_____ Final Entry_____

Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\METALS\TS_VS_DSLDG\20190TS72

ALVARADO WASTEWATER CHEMISTRY LAB.
ARIZONA DH No. AZ0783
Total and Volatile Solids

BATCH ID: 20190TS72
ANALYSIS: TS/VS_SLDG
ANALYST: TJCANNON

ANALYSIS DATE: 7/8/2020

PROTOCOL: SM2540G
MDL(%): 0.24
LCS TRUE VALUE: 3.9

SAMPLE ID	SAMPLE DATE	SOURCE	TEST TYPE	DISH ID	TARE WT grams	WET WT grams	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TS	COMMENTS
Standard Methods 2540B for the Determination of Residue (%TS)												
P1180588	7/8/2020	LAB	BLNK	PB	74.99	112.69	74.99	8:00 AM	74.99	10:20 AM	ND	
P1180589	7/8/2020	LAB	LCS	XL	80.59	131.01	82.57	8:00 AM	82.57	10:20 AM	3.9	%REC= 100
P1176914	7/7/2020	MBC_DIG1		S7	75.16	111.49	75.79	8:00 AM	75.79	10:20 AM	1.7	
P1176914	7/7/2020	MBC_DIG1	DUP	CR	80.44	120.87	81.14	8:00 AM	81.14	10:20 AM	1.7	%RPD =0
P1176915	7/7/2020	MBC_TSBTC		RAW	75.09	117.57	76.94	8:00 AM	76.95	10:20 AM	4.4	
P1176917	7/7/2020	PLDIG7		XM	81.94	116.46	82.69	8:00 AM	82.68	10:20 AM	2.1	
P1176916	7/7/2020	RAW COMP		AZ	71.39	110.78	73.01	8:00 AM	73.01	10:20 AM	4.1	
						FINAL WT (g)						
EPA Method 160.4 for %TVS at 550°C					TARE WT (g)	Total Solids	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	**% TVS**	
P1180588	7/8/2020	LAB	BLNK	PB	74.99	74.99						
P1180589	7/8/2020	LAB	LCS	XL	80.59	82.57						
P1176914	7/7/2020	MBC_DIG1		S7	75.16	75.79	75.37	2:07 PM	75.37	9:49 AM	66.7	
P1176914	7/7/2020	MBC_DIG1	DUP	CR	80.44	81.14	80.6700	2:07 PM	80.67	9:49 AM	67.1	%RPD =0.6
P1176915	7/7/2020	MBC_TSBTC		RAW	75.09	76.95	75.45	2:07 PM	75.45	9:49 AM	80.6	
P1176917	7/7/2020	PLDIG7		XM	81.94	82.68	82.25	2:07 PM	82.25	9:49 AM	58.1	
P1176916	7/7/2020	RAW COMP		AZ	71.39	73.01	71.77	2:07 PM	71.77	9:49 AM	76.5	

1st Entry_____ 2nd Entry_____ Final Entry_____

The City of SAN DIEGO

PUBLIC UTILITIES DEPARTMENT
ENVIRONMENTAL MONITORING & TECHNICAL SERVICES DIVISION
ENVIRONMENTAL CHEMISTRY SERVICES SECTION
5530 Kiowa Drive
La Mesa, CA 91942
(619) 668-3215

SAMPLING REPORT & CHAIN OF CUSTODY RECORD

Project/Client:	Quarterly Dewatered Sludge/MBC	Contact Name:	Richard Pitchford	Type of Sampling Equipment/How sample obtained/other sampling notes:
Contact Name:	Estella Lanez	Sampler/s:	Joe Guarnes / OPR	Thermometer
Phone:	(619)221-8352	Phone:	(858) 614 - 5509	EC5T - 159 Exp 5/22/21

Sample Information: (All information is required) Number of attachments:

Date/Time Sample Taken	Source / Location	Sample Type/Description	Grab / Composite	Vol / wt (mL / L / g)	Number of containers	Container Type	Preservative cool, ≤ °6C	Analyses requested	Sample Log Number (Lab use only)	Sample Temperature (Lab use only)
07/31/2020 @2359	MBCDEWCN	DW sludge	Comp	10L	1	G	≤6.0°C	*	P1178877	4.1
08/03/2020 @ 1145	Field Blank	Reagent water	Grab	40ml	1	G	≤6.0°C	Volatiles	P1178878	2.8
07/31/2020 @2359	Centrate	Wastewater	Comp	1L	1	P	≤6.0°C	Metals, Hg	P1178876	3.1

Chain-of-Custody

Relinquished by: Name: Joshua Rambo Sign:	Date & Time: [redacted] Location: [redacted]	Received by: Name: Joe Guarnes Sign:	Date & Time: 8/3/2020 Location: 1205 MBC
Relinquished by: Name: Sign:	Date & Time: Location:	Received by: Name: Sign:	Date & Time: Location:
Relinquished by: Name: Sign:	Date & Time: Location:	Received by: Name: Sign:	Date & Time: Location:

Sample Condition Received in Lab

Temperature In Compliance:	(Y) / N		
Container Intact:	(Y) / N	Preserved:	(Y) / N / NA
Received On Ice:	(Y) / N	Preserved at Lab:	(Y) / N

Comments

*Analysis Assigned: Metals, Hg, Pesticides, 8260B, Dioxins, Sulfides, Anions, Paint filter test, TKN, Ammonia

See instructions, on reverse, for completing this form.
FIGURE 2a

Original-retained by lab

1st copy – Transporter
Last copy - for sample originator

Date: 7-31-20

* Samples taken from the MBC Dewatering Centrifuges.

A completed Sampling Report and Chain of Custody Record form must accompany the sample once the monthly composite is completed and delivered to the lab.

METRO BIOSOLIDS CENTER SLUDGE COMPOSITE DAILY SAMPLE LOG

For Month of : July 2020

Date	Day	Time	Source *	Sampler		Notes
07/01/20	W	0700	2,3,6,8	LC		
07/02/20	Th	0700	3,5,6	E.N.		
07/03/20	F	0700	3,4,5,6	SL		
07/04/20	Sa	0700	3,4,5,6	SL		
07/05/20	Su	0700	3,4,5,6	LK		
07/06/20	M	0730	3,6	MN		
07/07/20	Tu	0700	3,4,6	LC		
07/08/20	W	0700	3467	E.N.		
07/09/20	Th	0700	4,6,7,8	LC		
07/10/20	F	0632	4,6,7,8	KB		
07/11/20	Sa	0700	4,6,7,8	LK		
07/12/20	Su	0730	4,6,7,8	LK		
07/13/20	M	0700	3.4.6.7	LC		
07/14/20	Tu	0700	2.3.6.7	LC		
07/15/20	W	0755	2,3,6,7	KB		
07/16/20	Th	0700	3.6	LC		
07/17/20	F	0700	3.4.6.7	LC		
07/18/20	Sa	0700	3467	SC		
07/19/20	Sn	0700	3467	SC		
07/20/20	M	0700	3.4.6.7	LC		
07/21/20	Tu	0628	3,4,5	KB		
07/22/20	W	0700	3.4.5,6	LC		
07/23/20	Th	0700	3.4.5.6	LC		
07/24/20	F	0641	3,4,5,8	KB		
07/25/20	Sa	0630	3,5,8	SL		
07/26/20	Sn	0700	3,4,5,8	BR		
07/27/20	M	0636	3,4,8	KB		
07/28/20	Tu	0625	3,4,5,8	KB		
07/29/20	W	0624	3,4,5,8	KB		
07/30/20	Th	0630	4,5,7,8	KB		
07/31/20	F	0700	4.5.6	LC		

Revised 12/31/2019

PEDRIC EVANS

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-JUL-2020 to 31-JUL-2020

Source: MBCDEWCN
Sample ID: P1178877
Sample Date: 31-JUL-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	5.41	1.44	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.31	MG/KG	265	70.8	10000	*	100.00		
Beryllium	0.01	MG/KG	0.069	0.018	75	*	0.75		
Cadmium	0.03	MG/KG	0.626	0.167	100	*	1.00	39	
Chromium (VI)			NA		500	NA	5.00		
Chromium	0.1	MG/KG	51.8	13.8	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.06	0.817	8000	*	80.00		
Copper	2.4	MG/KG	598	160	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	12.6	3.4	1000	*	5.00	300	350
Mercury	0.058	MG/KG	0.445	0.118	20	*	0.20	17	
Molybdenum	0.1	MG/KG	17.4	4.65	3500	*	350.00		
Nickel	0.6	MG/KG	23.7	6.33	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.44	1.72	100	*	1.00	100	
Silver	0.27	MG/KG	2.56	0.684	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	23.0	6.14	2400	*	24.00		
Zinc	0.8	MG/KG	951	254	5000	*	250.00	2,800	
Fluoride	1	MG/KG	178	47.5	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total#	1400	MG/KG	28300	7560					
Total Solids		WT%	26.7						
Total Volatile Solids		WT%	61.4						
pH		PH	7.98		>2 - <12				
Ammonia-N	76	MG/KG	5720						
Nitrite Nitrate Calc	.67	MG/KG	8.32						
Organic Nitrogen Calc.		MG/KG	44600						
Total Kjeldahl Nitrogen		MG/KG	50400						
Phosphorus	7.77	MG/KG	19400						
Aldrin	0.0014	MG/KG	ND	ND	1.4	*	0.14		
2,4-D			NA	NA	100	NA	10.0		
Chlordanes	0.0017	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0027	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0007	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.0011	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0013	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.0009	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0017	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0027	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0051	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA		17	NA	1.70		
PCBs (Arochlors)	0.06	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.18	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0451	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA		10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

9/1/2020

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory (ELAP Cert. No.1609)

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.
# = Internal check sample recovery is outside method acceptance limits; sample result not included in average calculations.

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - *Centrifuge Dewatered Sludge*

I. INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuged dewatered sludge samples taken from the centrifuges over the calendar month of Jul 2020.

Metals from Table 3 of Paragraph 503.13†
(All concentrations in dry weight)

Source: MBCDEWCN
Sample ID: P1178877
Sample Date: 31-JUL-2020

Parameter	Method	Value	Units	40 CFR 503 Limits **	Units
Arsenic	SW6010C/3050B	ND	MG/KG	41	MG/KG
Cadmium	SW6010C/3050B	.626	MG/KG	39	MG/KG
Chromium	SW6010C/3050B	51.8	MG/KG	1,200	MG/KG
Copper	SW6010C/3050B	598	MG/KG	1,500	MG/KG
Lead	SW6010C/3050B	12.6	MG/KG	300	MG/KG
Mercury	SW7471B	.445	MG/KG	17	MG/KG
Molybdenum	SW6010C/3050B	17.4	MG/KG		MG/KG
Nickel	SW6010C/3050B	23.7	MG/KG	420	MG/KG
Selenium	SW6010C/3050B	6.44	MG/KG	100	MG/KG
Zinc	SW6010C/3050B	951	MG/KG	2,800	MG/KG
Total Solids	SM2540G	26.7	WT%		WT%
Total Volatile Solids	SM2540G	61.4	WT%		WT%
Total Kjeldahl Nitrogen#	SM4500NORG_B	5.04	WT%		WT%
Phosphorus	SW6010C/3050B	19400	MG/KG		MG/KG

† Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist
Environmental Chemistry Laboratory,
Arizona State Cert. No. AZ0783

9/1/2020
Date

VAR CERT. Form
Revised 7/6/2000

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT
CERTIFICATION STATEMENT

In Compliance with
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the City of San Diego Public Utilities Department

VECTOR ATTRACTION REDUCTION

The daily fractional volatile solids reduction (FVSR) values were calculated using the Van Kleck Equation and raw and digested sludge volatile solids for the month of Aug 2020 from locations based on the following information from Operations staff:

All sludge sent to Metro Biosolids Center (MBC) from the Pt. Loma WWTP is pumped from Digester 7.
Only North City Water Reclamation Plant (NCWRP) raw sludge is going to MBC digesters.
The MBC thickened sludge samples are representative of the raw sludge from NCWRP.
MBC is using Digester No.1 for sludge processing.

The following determinations of volatile solids were done using approved methods by a laboratory certified by the State of Arizona (Cert. No. AZ0783)

55.0 % Average Volatile Solids Reduction for the Pt. Loma WTP sludge digestion process.
61.2 % Average Volatile Solids Reduction for the sludge MBC treats from the NCWRP.

Both streams **do** / ~~do not~~ meet 38% FVSR criteria.

Environmental Chemistry Laboratory Senior Chemist — Date 9/29/2020

I certify that the sludge samples taken and used in these determinations were taken and handled under my direction and supervision using approved methods and are representative samples of actual operational conditions.

Wastewater Treatment Superintendent — Date 10/20/2020
Metro Biosolids Center (MBC)

Wastewater Treatment Superintendent — Date 10-30-20
Pt. Loma Wastewater Treatment Plant

CERTIFICATION STATEMENT
VECTOR ATTRACTION REQUIREMENTS

I certify, under penalty of law, the vector attraction reduction requirement in Paragraph 503.33 (b) (1) which states that:
The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent, has 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 vector reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

By:

Chief Plant Operator
Wastewater Treatment and Disposal — Date 11/3/20

FVSR (Fractional Volatile Solids Reduction)

$$FVSR = \frac{VS_p - VS_b}{VS_p - (VS_p * VS_b)} = \frac{Vol.solidsRaw - Vol.solids\ Digested}{Vol.solids\ Raw - (Vol.solids\ Raw * Vol.solids\ Digested)}$$

Where: VS_p = Volatile Solids Feed Sludge (RAW SLUDGE),
VS_b = Volatile Solids Digested Sludge (DIG SLUDGE), currently only digester 7 is used for the calculation.

Volatile Solids (VS) is expressed as fractional numbers.

Average Volatile Solids for Aug 2020

Average %TVS Digested Sludge (Digester 7) for the month.	Average Raw (feed) sludge %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
61.2	77.8	55.0%

Average Volatile Solids for Aug 2020

Average %TVS Digested Sludge (MBC Dig 1) for the month.	Average Raw (feed) sludge (MBC_TSBTC) %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
65.6	83.1	61.2%

Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\METALS\TS_VS_DSLDG\20218TS84

ALVARADO WASTEWATER CHEMISTRY LAB.
ARIZONA DH No. AZ0783
Total and Volatile Solids

BATCH ID: 20218TS84 ANALYSIS DATE: 8/5/2020 PROTOCOL: SM2540G
ANALYSIS: TS/VS_SLDG MDL(%): 0.24
ANALYST: TJCANNON LCS TRUE VALUE: **3.9**

SAMPLE ID	SAMPLE DATE	SOURCE	TEST TYPE	DISH ID	TARE WT grams	WET WT grams	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TS	COMMENTS
Standard Methods 2540B for the Determination of Residue (%TS)												
P1186123	8/5/2020	LAB	BLNK	HOW	75.43	112.2700	75.43	7:39 AM	75.43	10:17 AM	ND	
P1186124	8/5/2020	LAB	LCS	DIG7	72.85	114.3600	74.47	7:39 AM	74.45	10:17 AM	3.9	%REC= 100
P1183666	8/4/2020	MBC_DIG1		XM	81.95	115.1200	82.56	7:39 AM	82.56	10:17 AM	1.8	
P1183666	8/4/2020	MBC_DIG1	DUP	PO	77.93	110.8700	78.55	7:39 AM	78.54	10:17 AM	1.9	%RPD =5.4
P1183667	8/4/2020	MBC_TSBTC		RJ	75.74	114.7300	77.56	7:39 AM	77.57	10:17 AM	4.7	
P1183669	8/4/2020	PLDIG7		S6	75.59	111.4300	76.4	7:39 AM	76.39	10:17 AM	2.2	
P1183668	8/4/2020	RAW COMP		AZ	71.4	119.4500	73.38	7:39 AM	73.38	10:17 AM	4.1	
						FINAL WT (g)						
EPA Method 160.4 for %TVS at 550°C					TARE WT (g)	Total Solids	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TVS	
P1186123	8/5/2020	LAB	BLNK	HOW	75.43	75.43						
P1186124	8/5/2020	LAB	LCS	DIG7	72.85	74.45						
P1183666	8/4/2020	MBC_DIG1		XM	81.95	82.56	82.15	1:55 PM	82.15	10:28 AM	67.2	
P1183666	8/4/2020	MBC_DIG1	DUP	PO	77.93	78.54	78.15	1:55 PM	78.15	10:28 AM	63.9	%RPD =5
P1183667	8/4/2020	MBC_TSBTC		RJ	75.74	77.57	76.05	1:55 PM	76.05	10:28 AM	83.1	
P1183669	8/4/2020	PLDIG7		S6	75.59	76.39	75.9	1:55 PM	75.90	10:28 AM	61.2	
P1183668	8/4/2020	RAW COMP		AZ	71.4	73.38	71.84	1:55 PM	71.84	10:28 AM	77.8	

1st Entry_____ 2nd Entry_____ Final Entry_____

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-AUG-2020 to 31-AUG-2020

Source: MBCDEWCN
Sample ID: P1190465
Sample Date: 31-AUG-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	5.69	1.52	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.35	MG/KG	268	71.7	10000	*	100.00		
Beryllium	0.01	MG/KG	0.07	0.018	75	*	0.75		
Cadmium	0.04	MG/KG	1.38	0.369	100	*	1.00	39	
Chromium (VI)					500	NA	5.00		
Chromium	0.1	MG/KG	51	13.6	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	4	1.07	8000	*	80.00		
Copper	2.4	MG/KG	610	163	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	11.4	3	1000	*	5.00	300	350
Mercury	0.1	MG/KG	0.95	0.253	20	*	0.20	17	
Molybdenum	0.1	MG/KG	17.3	4.63	3500	*	350.00		
Nickel	0.6	MG/KG	24	6.42	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	3.09	0.827	100	*	1.00	100	
Silver	0.27	MG/KG	2.67	0.714	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	21.3	5.7	2400	*	24.00		
Zinc	0.8	MG/KG	936	250	5000	*	250.00	2,800	
Fluoride	5	MG/KG	177	47.3	18000	*	180.00		
Cyanide-Reactive			NA						
Cyanide, Total	0.13	MG/KG	1	0.348					
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	19200	5140					
Total Solids		WT%	26.8						
Total Volatile Solids		WT%	61.4						
pH		PH	8.04		>2 - <12				
Aldrin	0.0351	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0413	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0585	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0163	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.0279	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.034	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.001	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0251	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0308	MG/KG	ND	ND	100	*	10.00		
Mirex	0.099	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol	14.8	MG/KG	ND	ND	17	*	1.70		
PCBs (Arochlors)	1.6	MG/KG	ND	ND	50	*	5.00		
Toxaphene	4.45	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.023	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		
2,4-D			NA	NA	100	NA	10.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Date: 10/1/2020

Elvira Mercado, Senior Chemist, Environmental Chemistry Services
Alvarado Wastewater Chemistry Laboratory (CA ELAP Cert. No 1609)

TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
W.E.T. = Waste Extraction Technique
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - Centrifuge Dewatered Sludge

INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuge dewatered sludge samples taken from the centrifuges over the calendar month of August 2020.

Metals from Table 3 of Paragraph 503.13+
(All concentrations in dry weight)

Source: MBCDEWCN
Sample ID: P1190465
Sample Date: 31-AUG-2020

Parameter	Method	Value	Units	503 Limit	Units
Arsenic	EPA6010C/3050B	ND	MG/KG	41	MG/KG
Cadmium	EPA6010C/3050B	1.38	MG/KG	39	MG/KG
Chromium	EPA6010C/3050B	51	MG/KG	1,200	MG/KG
Copper	EPA6010C/3050B	610	MG/KG	1,500	MG/KG
Lead	EPA6010C/3050B	11.4	MG/KG	300	MG/KG
Mercury	SW7471B	0.95	MG/KG	17	MG/KG
Molybdenum	EPA6010C/3050B	17.3	MG/KG	75	MG/KG^
Nickel	EPA6010C/3050B	24	MG/KG	420	MG/KG
Selenium	EPA6010C/3050B	3.09	MG/KG	100	MG/KG
Zinc	EPA6010C/3050B	936	MG/KG	2,800	MG/KG
Total Solids	SM2540G	26.8	WT%		
Total Volatile Solids	SM2540G	61.4	WT%		
Ammonia-N	SM4500-NH3B+C	6430	MG/KG		
Nitrite-N	EPA300.0	ND	MG/KG		
Nitrate-N	EPA300.0	ND	MG/KG		
Total Kjeldahl Nitrogen	SM4500-NH3B+NORG_B	50800	MG/KG		
Total Nitrogen	#	50800	MG/KG		
Total Phosphorus	EPA6010C/3050B	17000	MG/KG		

+ Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist _____ Date 10/1/2020
Environmental Chemistry Services
Alvarado Wastewater Chemistry Laboratory (Arizona State Cert. No. AZ0783)

Var Cert. Form
Revised 7/6/2000

ALVARADO WASTEWATER CHEMISTRY LAB
Cert. No. 1609 / ARIZONA Cert. No. AZ0783
TOTAL KJELDAHL NITROGEN SOLIDS

BATCH ID: 20259TKN31
ANALYSIS: TKN_TIT_SLDG
MATRIX TYPE: DEWATERED_SLDG

ANALYSIS DATE: 9/15/2020

MDL: 0.05

ANALYST: LPANTOJA

PROTOCOL: **4500-Norg B**

pH STANDARDS: Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\SB\pH buffer standars -exp date_ lot_ source-.xlsm

Buffer # 10	Fisher cat. #	SB115-4	Exp. Date:	9/30/2020	Lot# 185490
Buffer # 4	Fisher cat. #	SB101-4	Exp. Date:	7/31/2022	Lot# 202304
Buffer # 7	Fisher cat. #	SB107-4	Exp. Date:	10/31/2020	Lot# 186926

pH check	
Initial	7.03
Final	7.019

Vendor	Exp.	Lot #	Concentration	Conc. units	Volume used, ml	COMMENTS
Lab Chem	1/18/2021	J009-19	1000	mg/L	2.50	LCS/SPK
HACH	11/302022	A7334	100	mg/L	2.50	MDL check, tv=0.125%
PHENOVA, Soil:	10/31/2020	7070-09	0.245	%		Acceptance Range,%:
						53.9 - 138
FOSS Analytical	10/31/2020	136322	KJELTABS Cu-3.5		1/2 tab	Digestion tablet

Slope: 101 | Acceptable % range: 95 to 105 | Calibration result: PASS

H2SO4 Lot # 1901A91 EXP: 12/21 | **Normality of H2SO4 =** 0.02 | **Titrator verification, 5.0 ml:** 5.0 | **Ml from 1000 mg/L NH3N used for SPK =** 2.5

SAMPLE ID	SOURCE	SAMPLE TYPE	TEST #	SAMPLE SIZE	UNIT	TS %	ML of H2SO4 used for end point	ANALYTE	UNITS	RESULT WT%	TRUE VALUE WT%	COMMENTS	PUT BLANK FIRST
P1193480	LAB_ALV	BLNK	1	0.2	grams	100	0.184	TKN	WT%	0.02576			4.9
P1193481	LAB_ALV	CHK	1	0.2	grams	100	8.884	TKN	WT%	1.22	1.25	97.6	7.45
P1193482	PHENOVA	CHK	1	0.215	grams	100	1.814	TKN	WT%	0.212	0.245	86.5	9.55
P1190465	MBCDEWCN	SAMP	1	0.2482	grams	26.8	11.85	TKN	WT%	4.91			9
P1190465	MBCDEWCN	SAMP	2	0.2138	grams	26.8	10.92	TKN	WT%	5.25		6.7	11.25
P1190465	MBCDEWCN	SPK	1	0.2335	grams	26.8	19.93	TKN	WT%	8.84	4.00	94	12.35
P1190465	MBCDEWCN	SPK	2	0.2096	grams	26.8	17.79	TKN	WT%	8.78	4.45	83.1 / 0.7	12.35
P1193483	LAB_ALV	CHK	1	0.2	grams	100	1.272	TKN	WT%	0.152	0.125	121.6 MDL chk	8.40

P1190465	MBCDEWCN	CHK		Analyte:	TOTKN	MG/KG	49100
P1190465	MBCDEWCN	SAMP	DUP	Analyte:	TOTKN	MG/KG	52500

↓Where is your Total_N sample ID?
A23

P1190465	MBCDEWCN	CHK		Analyte:	AMMONIA_N	MG/KG	6390
P1190465	MBCDEWCN	SAMP	DUP	Analyte:	AMMONIA_N	MG/KG	6460

P1190465	MBCDEWCN	CHK		Analyte: **	NITROGEN_ORG	MG/KG	42700
P1190465	MBCDEWCN	SAMP	DUP	Analyte: **	NITROGEN_ORG	MG/KG	46000

** NITROGEN_ORG (MG/KG) = (TOTKN MG/KG) - (AMMONIA_N MG/KG)

1st Entry_____ 2nd Entry_____ Final Entry_____

The City of SAN DIEGO

PUBLIC UTILITIES DEPARTMENT
ENVIRONMENTAL MONITORING & TECHNICAL SERVICES DIVISION
ENVIRONMENTAL CHEMISTRY SERVICES SECTION
5530 Kiowa Drive
La Mesa, CA 91942
(619) 668-3215

SAMPLING REPORT & CHAIN OF CUSTODY RECORD

Project/Client:	Quarterly Dewatered Sludge/MBC	Contact Name:	Richard Pitchford	Type of Sampling Equipment/How sample obtained/other sampling notes:
Contact Name:	Estella Lanez	Sampler/s:	Sampling group	ECS-THERM-159
Phone:	(619)221-8352	Phone:	(858) 614 - 5509	ML Biomedical calibration date 5/20 – 5/21

Sample Information: (All information is required) Number of attachments:

Date/Time Sample Taken	Source / Location	Sample Type/Description	Grab / Composite	Vol / wt (mL / L / g)	Number of containers	Container Type	Preservative cool, ≤ °6C	Analyses requested	Sample Log Number (Lab use only)	Sample Temperature (Lab use only)
08/31/2020 @2359	MBCDEWCN	DW sludge	Comp	10L	1	G	≤6.0°C	*	P1190465	2.9°C
09/01/2020 @ 1027	Field Blank	Reagent water	Grab	40ml	1	G	≤6.0°C	Volatiles	P1190466	0.3°C
08/31/2020 @2359	Centrate	Wastewater	Comp	1L	1	P	HNO3/HCL	Metals, Hg	P1183665	N/A

Chain-of-Custody

Relinquished by: Name: Joshua Rambo Sign:	Date & Time 9/1/2020 1030 Location: MBC	Received by: Name: ELEANOR BROWN Sign:	Date & Time 09/01/2020 1029 Location: MBC	**Sample Condition Received in Lab**
				Temperature In Compliance: (Y) N
				Container Intact: (Y) / N — Preserved: (Y) / N / NA
				Received On Ice: Y / (N) — Preserved at Lab: (Y) / N
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:	**Comments** *Analysis Assigned: Metals, Hg, Pesticides, 8260B, Dioxins, Sulfides, Anions, Paint filter test, TKN, Ammonia
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:	

See instructions, on reverse, for completing this form.
FIGURE 2a

Original-retained by lab — 1st copy – Transporter — Last copy - for sample originator

A completed Sampling Report and Chain of Custody Record form must accompany the sample once the monthly composite is completed and delivered to the lab.

METRO BIOSOLIDS CENTER SLUDGE COMPOSITE DAILY SAMPLE LOG

For Month of : August

Date	Day	Time	Source *	Sampler	Notes
08/01/20	Sa	0752	2,4,5,6	GC	
08/02/20	Sn	0700	2,4,5,6	BR	
08/03/20	M	0700	2,4,5,6	E.N	
08/04/20	Tu	0700	2,4,5,6	LL	
08/05/20	W	0745	2,3,4,5	EN	
08/06/20	Th	0632	2,3,5	KB	
08/07/20	F	0635	2,3,5	KB	
08/08/20	Sa	0633	3	GC	
08/09/20	Sn	0600	0	BR	No Ptloma flow, No centrifuge op
08/10/20	M	0826	2,5,6	KB	
08/11/20	Tu	0711	2,3,5	MN	
08/12/20	W	0700	2,3,6	LL	
08/13/20	Th	0700	2,3,5,6	MN	
08/14/20	F	0700	3,5,6,8	MN	
08/15/20	S	0821	3,5,6,8	GC	
08/16/20	Sn	0730	3,5,6,8	BR	
08/17/20	M	0710	3,5,6	MN	
08/18/20	Tu	0715	2,3,6	MN	
08/19/20	W	0645	2,3,6,8	MN	
08/20/20	Th	0552	2,6,7,8	MN	
08/21/20	F	0725	2,6,7,8	MN	
08/22/20	Sa	0827	2,6,7,8	GC	
08/23/20	Sn	0730	2,6,7,8	BR	
08/24/20	M	0628	2,6,7,8	KB	
08/25/20	Tu	0700	2,7,8	BK	
08/26/20	W	0700	2,5,6,7	LC	
08/27/20	Th	0700	2,5,6,7	LC	
08/28/20	F	0706	2,5,6,7	E.N.	Temp 4
08/29/20	Sa				
08/30/20	Sn				
08/31/20	M	0700	2,6	E.N	Temp 3°

Print Supervisor's Name: Javier Zavala Sign: Javier Zavala

Date: 8-31-20

Revised 12/31/2019

A completed Sampling Report and Chain of Custody Record form must accompany the sample once the monthly composite is completed and delivered to the lab.

Refrigerator Serial No: 203M02435 Target Temperature: > 2 C deg and < 6 C deg
Thermometer Serial No. : ECST-056

METRO BIOSOLIDS CENTER SLUDGE COMPOSITE DAILY SAMPLE LOG

For Month of : August

Date	Day	Time	Source *	TEMP	Sampler
08/01/20	Sa				
08/02/20	Sn				
08/03/20	M				
08/04/20	Tu				
08/05/20	W				
08/06/20	Th				
08/07/20	F				
08/08/20	Sa				
08/09/20	Sn				
08/10/20	M				
08/11/20	Tu				
08/12/20	W				
08/13/20	Th				
08/14/20	F				
08/15/20	S				
08/16/20	Sn				
08/17/20	M				
08/18/20	Tu				
08/19/20	W				
08/20/20	Th				
08/21/20	F				
08/22/20	Sa				
08/23/20	Sn				
08/24/20	M				
08/25/20	Tu				
08/26/20	W				
08/27/20	Th				
08/28/20	F	0900	2,5,6,7	4°	E.N.
08/29/20	Sa	0810	2,5,6,7	2°	EC
08/30/20	Sn	0745	2,5,6,7	3°C	MN
08/31/20	M	0700	2,6	3°	E.N.

Print Supervisor's Name: Javier Zavala Sign: Javier Zavala

Date: 8-31-20

Revised 8/28/2020

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT
CERTIFICATION STATEMENT

In Compliance with
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the City of San Diego Public Utilities Department

VECTOR ATTRACTION REDUCTION

The daily fractional volatile solids reduction (FVSR) values were calculated using the Van Kleck Equation and raw and digested sludge volatile solids for the month of Sep 2020 from locations based on the following information from Operations staff:

All sludge sent to Metro Biosolids Center (MBC) from the Pt. Loma WWTP is pumped from Digester 7.
Only North City Water Reclamation Plant (NCWRP) raw sludge is going to MBC digesters.
The MBC thickened sludge samples are representative of the raw sludge from NCWRP.
MBC is using Digester No.1 for sludge processing.

The following determinations of volatile solids were done using approved methods by a laboratory certified by the State of Arizona (Cert. No. AZ0783)

62.1 % Average Volatile Solids Reduction for the Pt. Loma WTP sludge digestion process.
55.3 % Average Volatile Solids Reduction for the sludge MBC treats from the NCWRP.

Both streams **do** / ~~do not~~ meet 38% FVSR criteria.

_____ Date 10/30/2020
Environmental Chemistry Laboratory Senior Chemist

I certify that the sludge samples taken and used in these determinations were taken and handled under my direction and supervision using approved methods and are representative samples of actual operational conditions.

_____ 11/19/2020 _____ 11/27/20
Wastewater Treatment Superintendent Date Wastewater Treatment Superintendent Date
Metro Biosolids Center (MBC) Pt. Loma Wastewater Treatment Plant

CERTIFICATION STATEMENT
VECTOR ATTRACTION REQUIREMENTS

I certify, under penalty of law, the vector attraction reduction requirement in Paragraph 503.33 (b) (1) which states that:
The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent, has 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 vector reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

By: _____ 12/22/20
Chief Plant Operator Date
Wastewater Treatment and Disposal

FVSR (Fractional Volatile Solids Reduction)

$$FVSR = \frac{VS_p - VS_b}{VS_p - (VS_p * VS_b)} = \frac{Vol.solidsRaw - Vol.solids\ Digested}{Vol.solids\ Raw - (Vol.solids\ Raw * Vol.solids\ Digested)}$$

Where: VS_p = Volatile Solids Feed Sludge (RAW SLUDGE),
VS_b = Volatile Solids Digested Sludge (DIG SLUDGE), currently only digester 7 is used for the calculation.

Volatile Solids (VS) is expressed as fractional numbers.

Average Volatile Solids for Sep 2020

Average %TVS Digested Sludge (Digester 7) for the month.	Average Raw (feed) sludge %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
58.9	79.1	62.1%

Average Volatile Solids for Sep 2020

Average %TVS Digested Sludge (MBC Dig 1) for the month.	Average Raw (feed) sludge (MBC_TSBTC) %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
66.9	81.9	55.3%

Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\METALS\TS_VS_DSLDG\20247TS70

ALVARADO WASTEWATER CHEMISTRY LAB.
ARIZONA DH No. AZ0783
Total and Volatile Solids

BATCH ID: 20247TS70 ANALYSIS DATE: 9/3/2020 PROTOCOL: SM2540G
ANALYSIS: TS/VS_SLDG MDL(%): 0.24
ANALYST: TJCANNON LCS TRUE VALUE: **3.9**

SAMPLE ID	SAMPLE DATE	SOURCE	TEST TYPE	DISH ID	TARE WT grams	WET WT grams	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TS	COMMENTS
Standard Methods 2540B for the Determination of Residue (%TS)												
P1192280	9/3/2020	LAB	BLNK	PB	74.99	108.99	74.99	7:28 AM	74.99	9:44 AM	ND	
P1192281	9/3/2020	LAB	LCS	THE	74.83	114.39	76.36	7:28 AM	76.36	9:44 AM	3.9	%REC= 100
P1190317	9/1/2020	MBC_DIG1		HOW	75.41	115.99	76.17	7:28 AM	76.17	9:44 AM	1.9	
P1190317	9/1/2020	MBC_DIG1	DUP	RJ	75.74	120.97	76.55	7:28 AM	76.55	9:44 AM	1.8	%RPD =5.4
P1190318	9/1/2020	MBC_TSBTC		S6	75.59	115.62	77.52	7:28 AM	77.52	9:44 AM	4.8	
P1190320	9/1/2020	PLDIG7		AZ	71.39	113.18	72.29	7:28 AM	72.29	9:44 AM	2.2	
P1190319	9/1/2020	RAW COMP		PO	77.94	119.19	79.64	7:28 AM	79.66	9:44 AM	4.2	
						FINAL WT (g)						
EPA Method 160.4 for %TVS at 550°C					TARE WT (g)	Total Solids	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TVS	
P1192280	9/3/2020	LAB	BLNK	PB	74.99	74.99						
P1192281	9/3/2020	LAB	LCS	THE	74.83	76.36						
P1190317	9/1/2020	MBC_DIG1		HOW	75.41	76.17	75.68	2:03 PM	75.67	10:40 AM	65.8	
P1190317	9/1/2020	MBC_DIG1	DUP	RJ	75.74	76.55	76.00	2:03 PM	76.00	10:40 AM	67.9	%RPD =3.1
P1190318	9/1/2020	MBC_TSBTC		S6	75.59	77.52	75.96	2:03 PM	75.94	10:40 AM	81.9	
P1190320	9/1/2020	PLDIG7		AZ	71.39	72.29	71.76	2:03 PM	71.76	10:40 AM	58.9	
P1190319	9/1/2020	RAW COMP		PO	77.94	79.66	78.3	2:03 PM	78.30	10:40 AM	79.1	

1st Entry_____ 2nd Entry_____ Final Entry_____

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-SEP-2020 to 30-SEP-2020

Source: MBCDEWCN
Sample ID: P1190315
Sample Date: 30-SEP-20

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	6.81	1.85	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.31	MG/KG	273	74.1	10000	*	100.00		
Beryllium	0.01	MG/KG	ND	ND	75	*	0.75		
Cadmium	0.04	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)					500	NA	5.00		
Chromium	0.1	MG/KG	51	13.9	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.05	0.828	8000	*	80.00		
Copper	2.4	MG/KG	645	175	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	11.6	3.15	1000	*	5.00	300	350
Mercury	0.1	MG/KG	0.62	0.167	20	*	0.20	17	
Molybdenum	0.1	MG/KG	19.3	5.24	3500	*	350.00		
Nickel	0.6	MG/KG	24	6.52	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	2.82	0.766	100	*	1.00	100	
Silver	0.27	MG/KG	2.81	0.763	500	*	5.00		
Thallium	0.2	MG/KG	0.42	0.114	700	*	7.00		
Vanadium	0.1	MG/KG	20.9	5.67	2400	*	24.00		
Zinc	0.8	MG/KG	976	265	5000	*	250.00	2,800	
Fluoride	5.0	MG/KG	184	50.0	18000	*	180.00		
Cyanide-Reactive			NA						
Cyanide, Total	0.13	MG/KG	18.6	5.05					
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	10300	2810					
Total Solids		WT%	27.2						
Total Volatile Solids		WT%	61.9						
pH		PH	7.81		>2 - <12				
Aldrin	0.0066	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0082	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.075	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0054	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.012	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0095	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	4.60	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0157	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0379	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0076	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	*	1.70		
PCBs (Arochlors)	0.63	MG/KG	ND	ND	50	*	5.00		
Toxaphene	1.26	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.045	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		
2,4D			NA	NA	100	NA	10.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Date: 10/30/2020

Elvira Mercado, Senior Chemist, Environmental Chemistry Services
Alvarado Wastewater Chemistry Laboratory (CA ELAP Cert. No 1609)

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition,
. this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - Centrifuge Dewatered Sludge

INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuge dewatered sludge samples taken from the centrifuges over the calendar month of September 2020.

Metals from Table 3 of Paragraph 503.13+
(All concentrations in dry weight)

Source: MBCDEWCN
Sample ID: P1190315
Sample Date: 30-SEP-20

Parameter	Method	Value	Units	40 CFR 503 Limits **	Units
Arsenic	EPA6010C/3050B	ND	MG/KG	41	MG/KG
Cadmium	EPA6010C/3050B	ND	MG/KG	39	MG/KG
Chromium	EPA6010C/3050B	51	MG/KG	1,200	MG/KG
Copper	EPA6010C/3050B	645	MG/KG	1,500	MG/KG
Lead	EPA6010C/3050B	11.6	MG/KG	300	MG/KG
Mercury	SW7471B	0.62	MG/KG	17	MG/KG
Molybdenum	EPA6010C/3050B	19.3	MG/KG	75	MG/KG
Nickel	EPA6010C/3050B	24	MG/KG	420	MG/KG
Selenium	EPA6010C/3050B	2.82	MG/KG	100	MG/KG
Zinc	EPA6010C/3050B	976	MG/KG	2,800	MG/KG
Total Solids	SM2540G	27.2	WT%		WT%
Total Volatile Solids	SM2540G	61.9	WT%		WT%
Ammonia-N	SM4500-NH3 B+C	5630	MG/KG		MG/KG
Nitrite-N	EPA300.0	3.2	MG/KG		MG/KG
Nitrate-N	EPA300.0	67	MG/KG		MG/KG
Total Kjeldahl Nitrogen	SM4500-NH3B+NORG_B	53650	MG/KG		MG/KG
Total Nitrogen	#	53720	MG/KG		MG/KG
Total Phosphorus	EPA6010C/3050B	16300	MG/KG		MG/KG

+ Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist _____ Date 10/30/2020
Environmental Chemistry Services
Alvarado Wastewater Chemistry Laboratory (Arizona State Cert. No. AZ0783)

Var Cert. Form
Revised 7/6/2000

The City of SAN DIEGO

PUBLIC UTILITIES DEPARTMENT
ENVIRONMENTAL MONITORING & TECHNICAL SERVICES DIVISION
ENVIRONMENTAL CHEMISTRY SERVICES SECTION
5530 Kiowa Drive
La Mesa, CA 91942
(619) 668-3215

SAMPLING REPORT & CHAIN OF CUSTODY RECORD

Project/Client:	Dewatered Sludge/MBC	Contact Name:	Richard Pitchford	Type of Sampling Equipment/How sample obtained/other sampling notes: ECS-THERM-159
Contact Name:	Estella Lanez	Sampler/s:	J. Guarnes/E. Brown	ML Biomedical calibration date 05/20 – 05/21
Phone:	(619)221-8352	Phone:	(858) 614 - 5509	

Sample Information: (All information is required) Number of attachments:

Date/Time Sample Taken	Source / Location	Sample Type/Description	Grab / Composite	Vol / wt (mL / L / g)	Number of containers	Container Type	Preservative cool, ≤ °6C	Analyses requested	Sample Log Number (Lab use only)	Sample Temperature (Lab use only)
09/30/2020 @2359	MBCDEWCN	DW sludge	Comp	10L	1	G	≤6.0°C	*	P1190315	5.6 c
10/01/2020 @ 1100	Field Blank	Reagent water	Grab	40ml	1	G	≤6.0°C	Volatiles	P1190316	4.0 c
09/30/2020 @2359	Centrate	Wastewater	Comp	1L	1	P	HNO3	Metals, Hg	P1190314	N/A

Chain-of-Custody

Relinquished by: Name: Joshua Rambo Sign:	Date & Time 10/1/2020 1102 Location: MBC	Received by: Name: Joe Guarnes Sign:	Date & Time 10/1/2020 1102 Location: MBC
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:

Sample Condition Received in Lab

Temperature In Compliance:	(Y) N		
Container Intact:	(Y) / N	Preserved:	(Y) / N / NA
Received On Ice:	(Y) N	Preserved at Lab:	(Y) / N

Comments

*Analysis Assigned: Metals, Hg, Pesticides, 8260B, Dioxins, Sulfides, Cyanide, Anions, Paint filter test, TKN, Ammonia

See instructions, on reverse, for completing this form.
FIGURE 2a

Original-retained by lab — 1st copy – Transporter — Last copy - for sample originator

* Samples taken from the MBC Dewatering Centrifuges.

A completed Sampling Report and Chain of Custody Record form must accompany the sample once the monthly composite is completed and delivered to the lab.

Refrigerator Serial No: 203M02435 Target Temperature: > 2 C deg and < 6 C deg
Thermometer Serial No. : ECST-056

METRO BIOSOLIDS CENTER SLUDGE COMPOSITE DAILY SAMPLE LOG

For Month of : September

Date	Day	Time	Source *	TEMP	Sampler
09/01/20	Tu	0700	2,5,6,7	4°	BK
09/02/20	W	0700	5,6,7	4°	BK
09/03/20	Th	0700	4,6,7	4°	BK
09/04/20	F	0631	4,5,6,7	3°C	KB
09/05/20	Sa	0637	4,5,6,7	3°C	GC
09/06/20	Sn	0730	4,5,7,8	3°C	LK
09/07/20	M	0730	4,7,8	3°C	LK
09/08/20	Tu	0700	2,6,7	3°C	BK
09/09/20	W	0700	2,4,5,6,7	3°	E.N.
09/10/20	Th	0700	2,4,6,7	3°	E.N.
09/11/20	F	0730	2,4,6,7	3°C	LK
09/12/20	Sa	0700	2,4,6,7	4°C	RSL
/13/20	Sn	0740	2,4,6,7	2°C	MN
09/14/20	M	0700	2,4,6,7	2.4°C	E.N.
09/15/20	Tu	0700	2,4,6,7	2.5°C	E.N
09/16/20	W	0642	2,4,6	2.5°C	MN
09/17/20	Th	0700	2,5,6,7	2.5°C	E.N
09/18/20	F	0702	2,5,6,7	2.0°C	MN
09/19/20	Sa	0630	2,5,6,7	2.5°C	SC
09/20/20	Sn	0730	2,5,6,7	2.5°C	LK
09/21/20	M	0730	2,4	2.5°C	LC
09/22/20	Tu	0700	4,6,7	2.5°C	LC
09/23/20	W	0200	4,5,6,7	2.5°C	BR
09/24/20	Th	0700	2,4,5,6	2.4°	E.N.
09/25/20	F	0700	2,6,7	2.5	LC
09/26/20	Sa	0624	2,5,6,7	2.0°C	MN
09/27/20	Sn	0646	2,5,6,7	2.0°C	LK
09/28/20	M	0630	2,5,6,7	3.0°C	LC
09/29/20	Tu	0700	2,5,6,7	3.0	BB
09/30/20	W	0300	2,5,6,7	3°C	BR

Supervisor's Name: Javier Zavala Sign:

Revised 8/28/2020

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT
CERTIFICATION STATEMENT

In Compliance with
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the City of San Diego Public Utilities Department

VECTOR ATTRACTION REDUCTION

The daily fractional volatile solids reduction (FVSR) values were calculated using the Van Kleck Equation and raw and digested sludge volatile solids for the month of Oct 2020 from locations based on the following information from Operations staff:

All sludge sent to Metro Biosolids Center (MBC) from the Pt. Loma WWTP is pumped from Digester 7.
Only North City Water Reclamation Plant (NCWRP) raw sludge is going to MBC digesters.
The MBC thickened sludge samples are representative of the raw sludge from NCWRP.
MBC is using Digester No.1 for sludge processing.

The following determinations of volatile solids were done using approved methods by a laboratory certified by the State of Arizona (Cert. No. AZ0783)

57.4 % Average Volatile Solids Reduction for the Pt. Loma WTP sludge digestion process.
45.1 % Average Volatile Solids Reduction for the sludge MBC treats from the NCWRP.

Both streams **do** / ~~do not~~ meet 38% FVSR criteria.

Environmental Chemistry Laboratory Senior Chemist — Date 11/25/2020

I certify that the sludge samples taken and used in these determinations were taken and handled under my direction and supervision using approved methods and are representative samples of actual operational conditions.

Wastewater Treatment Superintendent — Date 12/16/2020
Metro Biosolids Center (MBC)

Wastewater Treatment Superintendent — Date 12/24/20
Pt. Loma Wastewater Treatment Plant

CERTIFICATION STATEMENT
VECTOR ATTRACTION REQUIREMENTS

I certify, under penalty of law, the vector attraction reduction requirement in Paragraph 503.33 (b) (1) which states that:
The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent, has 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 vector reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

By: — 1/7/21

Chief Plant Operator — Date
Wastewater Treatment and Disposal

FVSR (Fractional Volatile Solids Reduction)

$$FVSR = \frac{VS_p - VS_b}{VS_p - (VS_p * VS_b)} = \frac{Vol.solidsRaw - Vol.solids\ Digested}{Vol.solids\ Raw - (Vol.solids\ Raw * Vol.solids\ Digested)}$$

Where: VS_p = Volatile Solids Feed Sludge (RAW SLUDGE),
VS_b = Volatile Solids Digested Sludge (DIG SLUDGE), currently only digester 7 is used for the calculation.

Volatile Solids (VS) is expressed as fractional numbers.

Average Volatile Solids for Oct 2020

Average %TVS Digested Sludge (Digester 7) for the month.	Average Raw (feed) sludge %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
59.6	77.6	57.4%

Average Volatile Solids for Oct 2020

Average %TVS Digested Sludge (MBC Dig 1) for the month.	Average Raw (feed) sludge (MBC_TSBTC) %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
67.1	78.8	45.1%

Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\METALS\TS_VS_DSLDG\20282TS23

ALVARADO WASTEWATER CHEMISTRY LAB.
ARIZONA DH No. AZ0783
Total and Volatile Solids

BATCH ID: 20282TS23 ANALYSIS DATE: 10/8/2020 PROTOCOL: SM2540G
ANALYSIS: TS/VS_SLDG MDL(%): 0.24
ANALYST: TJCANNON LCS TRUE VALUE: **3.9**

SAMPLE ID	SAMPLE DATE	SOURCE	TEST TYPE	DISH ID	TARE WT grams	WET WT grams	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TS	COMMENTS
Standard Methods 2540B for the Determination of Residue (%TS)												
P1198299	10/8/2020	LAB	BLNK	MG	75.83	111.07	75.83	7:38 AM	75.83	9:48 AM	ND	
P1198300	10/8/2020	LAB	LCS	I	72	114.56	73.66	7:38 AM	73.67	9:48 AM	3.9	%REC= 100
P1196341	10/6/2020	MBC_DIG1		7	79.35	114.66	80.1	7:38 AM	80.11	9:48 AM	2.2	
P1196341	10/6/2020	MBC_DIG1	DUP	PO	77.94	119.06	78.83	7:38 AM	78.82	9:48 AM	2.1	%RPD =4.7
P1196342	10/6/2020	MBC_TSBTC		RAW	75.1	114.04	76.09	7:38 AM	76.09	9:48 AM	2.5	
P1196344	10/6/2020	PLDIG7		S7	75.15	123.49	76.24	7:38 AM	76.24	9:48 AM	2.3	
P1196343	10/6/2020	RAW COMP		CR	80.44	121.79	82.2	7:38 AM	82.18	9:48 AM	4.2	
						FINAL WT (g)						
EPA Method 160.4 for %TVS at 550°C					TARE WT (g)	Total Solids	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TVS	
P1198299	10/8/2020	LAB	BLNK	MG	75.83	75.83						
P1198300	10/8/2020	LAB	LCS	I	72	73.67						
P1196341	10/6/2020	MBC_DIG1		7	79.35	80.11	79.6	1:52 PM	79.6	11:01 AM	67.1	
P1196341	10/6/2020	MBC_DIG1	DUP	PO	77.94	78.82	78.23	1:52 PM	78.23	11:01 AM	67	%RPD =0.1
P1196342	10/6/2020	MBC_TSBTC		RAW	75.1	76.09	75.32	1:52 PM	75.31	11:01 AM	78.8	
P1196344	10/6/2020	PLDIG7		S7	75.15	76.24	75.6	1:52 PM	75.59	11:01 AM	59.6	
P1196343	10/6/2020	RAW COMP		CR	80.44	82.18	80.84	1:52 PM	80.83	11:01 AM	77.6	

1st Entry_____ 2nd Entry_____ Final Entry_____

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-OCT-2020 to 31-OCT-2020

Source: MBCDEWCN
Sample ID: P1196337
Sample Date: 31-OCT-20

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	7.36	2	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.35	MG/KG	313	85	10000	*	100.00		
Beryllium	0.01	MG/KG	0.06	0.016	75	*	0.75		
Cadmium	0.04	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)					500	NA	5.00		
Chromium	0.1	MG/KG	59.4	16.1	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.83	1.04	8000	*	80.00		
Copper	2.4	MG/KG	654	178	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	11.5	3.1	1000	*	5.00	300	350
Mercury	0.1	MG/KG	0.69	0.187	20	*	0.20	17	
Molybdenum	0.1	MG/KG	20.5	5.57	3500	*	350.00		
Nickel	0.6	MG/KG	27.9	7.58	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	7.26	1.97	100	*	1.00	100	
Silver	0.27	MG/KG	3.22	0.874	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	20.7	5.62	2400	*	24.00		
Zinc	0.8	MG/KG	1010	274	5000	*	250.00	2,800	
Fluoride	5.1	MG/KG	270	73.2	18000	*	180.00		
Cyanide-Reactive			NA						
Cyanide, Total	0.13	MG/KG	4	1.12					
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	31500	8540					
Total Solids		WT%	27.2						
Total Volatile Solids		WT%	62.3						
pH		PH	7.81		>2 - <12				
Aldrin	0.0066	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0083	MG/KG	0.021	0.0057	2.5	*	0.25		
DDT, DDE, DDD	0.074	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0054	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.0122	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0095	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.0047	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0154	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0376	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0075	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol	1.27	MG/KG	ND	ND	17	*	1.70		
PCBs (Arochlors)	0.63	MG/KG	ND	ND	50	*	5.00		
Toxaphene	1.24	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.013	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP	380	UG/KG	ND	ND	10	NA	1.00		
2,4D	380	UG/KG	ND	ND	100	NA	10.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Date: 11/27/2020

Elvira Mercado, Senior Chemist, Environmental Chemistry Services
Alvarado Wastewater Chemistry Laboratory (CA ELAP Cert. No 1609)

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
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CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - Centrifuge Dewatered Sludge

INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuge dewatered sludge samples taken from the centrifuges over the calendar month of October 2020.

Metals from Table 3 of Paragraph 503.13+
(All concentrations in dry weight)

Source: MBCDEWCN
Sample ID: P1196337
Sample Date: 31-OCT-20

Parameter	Method	Value	Units	40 CFR 503 Limits **	Units
Arsenic	EPA6010C/3050B	ND	MG/KG	41	MG/KG
Cadmium	EPA6010C/3050B	ND	MG/KG	39	MG/KG
Chromium	EPA6010C/3050B	59.4	MG/KG	1,200	MG/KG
Copper	EPA6010C/3050B	654	MG/KG	1,500	MG/KG
Lead	EPA6010C/3050B	11.5	MG/KG	300	MG/KG
Mercury	SW7471B	0.69	MG/KG	17	MG/KG
Molybdenum	EPA6010C/3050B	20.5	MG/KG	75	MG/KG
Nickel	EPA6010C/3050B	27.9	MG/KG	420	MG/KG
Selenium	EPA6010C/3050B	7.26	MG/KG	100	MG/KG
Zinc	EPA6010C/3050B	1010	MG/KG	2,800	MG/KG
Total Solids	SM2540G	27.2	WT%		WT%
Total Volatile Solids	SM2540G	62.3	WT%		WT%
Ammonia-N	SM4500-NH3 B+C	7540	MG/KG		MG/KG
Nitrite-N	EPA300.0	5.4	MG/KG		MG/KG
Nitrate-N	EPA300.0	ND	MG/KG		MG/KG
Total Kjeldahl Nitrogen	SM4500-NH3B+NORG_B	53500	MG/KG		MG/KG
Total Nitrogen	#	53500	MG/KG		MG/KG
Total Phosphorus	EPA6010C/3050B	17100	MG/KG		MG/KG

+ Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist _____ Date 11/27/2020
Environmental Chemistry Services
Alvarado Wastewater Chemistry Laboratory (Arizona State Cert. No. AZ0783)

Var Cert. Form
Revised 7/6/2000

The City of SAN DIEGO

PUBLIC UTILITIES DEPARTMENT
ENVIRONMENTAL MONITORING & TECHNICAL SERVICES DIVISION
ENVIRONMENTAL CHEMISTRY SERVICES SECTION
5530 Kiowa Drive
La Mesa, CA 91942
(619) 668-3215

SAMPLING REPORT & CHAIN OF CUSTODY RECORD

Project/Client:	Quarterly Dewatered Sludge/MBC	Contact Name:	Richard Pitchford	Type of Sampling Equipment/How sample obtained/other sampling notes:	
Contact Name:	Estela Lanez	Sampler/s:	Sampling group		ECS-THERM-159
Phone:	(619)221-8352	Phone:	(858) 614 - 5509		ML Biomedical calibration date 5/20 – 5/21

Sample Information: (All information is required) Number of attachments:

Date/Time Sample Taken	Source / Location	Sample Type/Description	Grab / Composite	Vol / wt (mL / L / g)	Number of containers	Container Type	Preservative cool, ≤ °6C	Analyses requested	Sample Log Number (Lab use only)	Sample Temperature (Lab use only)
10/31/2020 @2359	MBCDEWCN	DW sludge	Comp	10L	1	G	≤6.0°C	*	P1196337	4.9
11/02/2020 @ 1045	Field Blank	Reagent water	Grab	40ml	1	G	≤6.0°C	Volatiles	P1196338	2.8
10/31/2020 @2359	Centrate	Wastewater	Comp	1L	1	P	HNO3	Metals, Hg	P1196339	N/A

Chain-of-Custody

Relinquished by: Name: Joshua Lamb. Sign:	Date & Time 11/2/2020 1045 Location: MBC	Received by: Name: ELEANOR BROWN Sign: Eleanor Brown	Date & Time 11/2/2020 1050 Location: MBC
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:

Sample Condition Received in Lab

Temperature In Compliance:	(Y) / N		
Container Intact:	(Y) / N	Preserved:	(Y) / N / NA
Received On Ice:	Y / (N)	Preserved at Lab:	Y / (N)

Comments
*Analysis Assigned: Metals, Hg, Pesticides, 8260B, Dioxins, Sulfides, Phenols, Anions, Paint filter test, TKN, Ammonia

See instructions, on reverse, for completing this form.
FIGURE 2a

Original-retained by lab — 1st copy – Transporter, Last copy - for sample originator

* Samples taken from the MBC Dewatering Centrifuges.

A completed Sampling Report and Chain of Custody Record form must accompany the sample once the monthly composite is completed and delivered to the lab.

Refrigerator Serial No: 203M02435 Target Temperature: ≥ 2 C deg and ≤ 6 C deg
Thermometer Serial No : ECST-056

METRO BIOSOLIDS CENTER SLUDGE COMPOSITE DAILY SAMPLE LOG

For Month of : October

Date	Day	Time	Source *	TEMP	Sampler / Notes
10/01/20	Thursday	0800	5, 6, 7	2.5	LC
10/02/20	Friday	0730	2,5,7,8	2.5	BK
10/03/20	Saturday	0700	2, 5, 7, 8	2,5	BK
10/04/20	Sunday	0730	2,5,7,8	2.5	LK
10/05/20	Monday	0700	2.5.6.7	2.5	LC
10/06/20	Tuesday	LL	2,5	2.5	LL
10/07/20	Wednesday	0806	2,5,7	2.5°C	MN
10/08/20	Thursday	0730	2.4.5.7	2.7	LC
10/09/20	Friday	0700	2.4.5.7	2.3	LC
10/10/20	Saturday	0700	2457	3.0	SL
10/11/20	Sunday	0730	2,4,5,6	2.5	LK
10/12/20	Monday	0800	2.4.5.6	2.5	LL
10/13/20	Tuesday	0633	2,4,5,6	2.5°C	KB
10/14/20	Wednesday	0730	2,4,5,6	3.0°C	MN
10/15/20	Thursday	0700	2467	3.0°C	E.N.
10/16/20	Friday	0715	2,4,6,7	3.0°C	MN
10/17/20	Saturday	0730	2,4,6,7	3.0°C	SL
10/18/20	Sunday	0715	2,4,6,7	2.5°	BK
10/19/20	Monday	0629	2, 4, 6	2.5°C	KB
10/20/20	Tuesday	0634	2,3,4	3.5°C	KB
10/21/20	Wednesday	0620	2,3,4	3.0°C	KB
10/22/20	Thursday	0631	2,3,4,8	3.0°C	KB
10/23/20	Friday	0646	2,3,4,8	3.0°C	KB
10/24/20	Saturday	0612	2,3,4,8	3.0°C	GC
10/25/20	Sunday	0730	2,3,4,8	3°C	EK
10/26/20	Monday	0700	2.3.4.8	3.0°C	LC
10/27/20	Tuesday	0700	2.3.4.8	3.0°C	LC
10/28/20	Wednesday	0638	3,4,5,8	3.0°C	KB
10/29/20	Thursday	0647	3,4,5,8	3.0°C	KB
10/30/20	Friday	0634	3,5,6	3.0°C	KB
10/31/20	Saturday	0628	3,5,6	3.0°C	GC

SUPERVISOR-DEDRIC EVANS

Revised 10/1/2020

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT
CERTIFICATION STATEMENT

In Compliance with
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the City of San Diego Public Utilities Department

VECTOR ATTRACTION REDUCTION

The daily fractional volatile solids reduction (FVSR) values were calculated using the Van Kleck Equation and raw and digested sludge volatile solids for the month of Nov 2020 from locations based on the following information from Operations staff:

All sludge sent to Metro Biosolids Center (MBC) from the Pt. Loma WWTP is pumped from Digester 7.
Only North City Water Reclamation Plant (NCWRP) raw sludge is going to MBC digesters.
The MBC thickened sludge samples are representative of the raw sludge from NCWRP.
MBC is using Digester No.1 for sludge processing.

The following determinations of volatile solids were done using approved methods by a laboratory certified by the State of Arizona (Cert. No. AZ0783)

54.0 % Average Volatile Solids Reduction for the Pt. Loma WTP sludge digestion process.
61.5 % Average Volatile Solids Reduction for the sludge MBC treats from the NCWRP.

Both streams **do** / ~~do not~~ meet 38% FVSR criteria.

Environmental Chemistry Laboratory Senior Chemist — Date 12/29/2020

I certify that the sludge samples taken and used in these determinations were taken and handled under my direction and supervision using approved methods and are representative samples of actual operational conditions.

Wastewater Treatment Superintendent, Metro Biosolids Center (MBC) — Date 2/2/2021

Wastewater Treatment Superintendent, Pt. Loma Wastewater Treatment Plant — Date 2/8/21

CERTIFICATION STATEMENT
VECTOR ATTRACTION REQUIREMENTS

I certify, under penalty of law, the vector attraction reduction requirement in Paragraph 503.33 (b) (1) which states that:
The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent, has 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 vector reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

By: — 2/9/21

Chief Plant Operator
Wastewater Treatment and Disposal — Date

FVSR (Fractional Volatile Solids Reduction)

$$FVSR = \frac{VS_p - VS_b}{VS_p - (VS_p * VS_b)} = \frac{Vol.solidsRaw - Vol.solids\ Digested}{Vol.solids\ Raw - (Vol.solids\ Raw * Vol.solids\ Digested)}$$

Where: VS_p = Volatile Solids Feed Sludge (RAW SLUDGE),
VS_b = Volatile Solids Digested Sludge (DIG SLUDGE), currently only digester 7 is used for the calculation.

Volatile Solids (VS) is expressed as fractional numbers.

Average Volatile Solids for Nov 2020

Average %TVS Digested Sludge (Digester 7) for the month.	Average Raw (feed) sludge %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
60.5	76.9	54.0%

Average Volatile Solids for Nov 2020

Average %TVS Digested Sludge (MBC Dig 1) for the month.	Average Raw (feed) sludge (MBC_TSBTC) %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
67.4	84.3	61.5%

ALVARADO WASTEWATER CHEMISTRY LAB.
ARIZONA DH No. AZ0783
Total and Volatile Solids

BATCH ID: 20310TS61 ANALYSIS DATE: 11/5/2020 PROTOCOL: SM2540G
ANALYSIS: TS/VS_SLDG MDL(%): 0.24
ANALYST: TJCANNON LCS TRUE VALUE: **3.9**

SAMPLE ID	SAMPLE DATE	SOURCE	TEST TYPE	DISH ID	TARE WT grams	WET WT grams	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TS	COMMENTS
Standard Methods 2540B for the Determination of Residue (%TS)												
P1204024	11/5/2020	LAB	BLNK	6	72.36	111.97	72.36	9:12 AM	72.36	12:36 PM	ND	
P1204025	11/5/2020	LAB	LCS	THE	74.81	119.39	76.55	9:12 AM	76.55	12:36 PM	3.9	%REC= 100
P1201807	11/3/2020	MBC_DIG1		AZ	71.38	109.23	72.11	9:12 AM	72.12	12:36 PM	2	
P1201807	11/3/2020	MBC_DIG1	DUP	RJ	75.73	116.04	76.5	9:12 AM	76.49	12:36 PM	1.9	%RPD =5.1
P1201808	11/3/2020	MBC_TSBTC		HOW	75.44	113.06	76.66	9:12 AM	76.65	12:36 PM	3.2	
P1201810	11/3/2020	PLDIG7		7	79.35	118.11	80.21	9:12 AM	80.21	12:36 PM	2.2	
P1201809	11/3/2020	RAW COMP		PO	77.92	114.20	79.41	9:12 AM	79.39	12:36 PM	4.1	
						FINAL WT (g)						
EPA Method 160.4 for %TVS at 550°C					TARE WT (g)	Total Solids	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TVS	
P1204024	11/5/2020	LAB	BLNK	6	72.36	72.36						
P1204025	11/5/2020	LAB	LCS	THE	74.81	76.55						
P1201807	11/3/2020	MBC_DIG1		AZ	71.38	72.12	71.63	12:22 PM	71.62	7:55 AM	67.6	
P1201807	11/3/2020	MBC_DIG1	DUP	RJ	75.73	76.49	75.99	12:22 PM	75.98	7:55 AM	67.1	%RPD =0.7
P1201808	11/3/2020	MBC_TSBTC		HOW	75.44	76.65	75.63	12:22 PM	75.63	7:55 AM	84.3	
P1201810	11/3/2020	PLDIG7		7	79.35	80.21	79.69	12:22 PM	79.69	7:55 AM	60.5	
P1201809	11/3/2020	RAW COMP		PO	77.92	79.39	78.25	12:22 PM	78.26	7:55 AM	76.9	

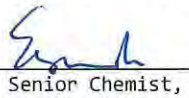
1st Entry_____ 2nd Entry_____ Final Entry_____

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-NOV-2020 to 30-NOV-2020

Source: MBCDEWCN
Sample ID: P1201790
Sample Date: 30-NOV-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	7.12	1.95	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.35	MG/KG	310	85.1	10000	*	100.00		
Beryllium	0.01	MG/KG	0.03	0.009	75	*	0.75		
Cadmium	0.036	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)		MG/KG	NA	NA	500	NA	5.00		
Chromium	0.1	MG/KG	57.0	15.7	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.52	0.966	8000	*	80.00		
Copper	2.4	MG/KG	609	167	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	11.2	3.08	1000	*	5.00	300	350
Mercury	0.1	MG/KG	0.67	0.184	20	*	0.20	17	
Molybdenum	0.1	MG/KG	17.9	4.91	3500	*	350.00		
Nickel	0.6	MG/KG	26.3	7.22	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.39	1.75	100	*	1.00	100	
Silver	0.27	MG/KG	2.49	0.684	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	21.2	5.82	2400	*	24.00		
Zinc	0.8	MG/KG	963	264	5000	*	250.00	2,800	
Fluoride#	5.0	MG/KG	81.0	22.3	18000	NA	180.00		
Cyanide-Reactive			NA						
Cyanide, Total	0.13	MG/KG	4.53	1.24					
Sulfides-Reactive	38	MG/KG	130	36					
Sulfides-Total	1400	MG/KG	27900	7660					
Total Solids		WT%	27.5						
Total Volatile Solids		WT%	62.3						
pH		PH	7.88		>2 - <12				
Aldrin	0.0065	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0081	MG/KG	0.097	0.0267	2.5	*	0.25		
DDT, DDE, DDD	0.073	MG/KG	0.03	0.008	1.0	*	0.10		
Dieldrin	0.0052	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.0117	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0093	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.005	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0152	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.037	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0074	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	0.61	MG/KG	ND	ND	50	*	5.00		
Toxaphene	1.22	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.006	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		
2,4D			NA	NA	100	NA	10.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.



Date: 12/30/2020

Elvira Mercado, Senior Chemist, Environmental Chemistry Services
Alvarado Wastewater Chemistry Laboratory (CA ELAP Cert. No 1609)

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition,
. this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.
# = Relative percent difference of sample duplicates outside method acceptance criteria; value not included in average calculations.

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - Centrifuge Dewatered Sludge
INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuge dewatered sludge samples taken from the centrifuges over the calendar month of November 2020.

Metals from Table 3 of Paragraph 503.13+
(All concentrations in dry weight)

Source: MBCDEWCN
Sample ID: P1201790
Sample Date: 30-NOV-2020

Parameter	Method	Value	Units	40 CFR 503 Limits **	Units
Arsenic	EPA6010C/3050B	ND	MG/KG	41	MG/KG
Cadmium	EPA6010C/3050B	ND	MG/KG	39	MG/KG
Chromium	EPA6010C/3050B	57.0	MG/KG	1,200	MG/KG
Copper	EPA6010C/3050B	609	MG/KG	1,500	MG/KG
Lead	EPA6010C/3050B	11.2	MG/KG	300	MG/KG
Mercury	SW7471B	0.67	MG/KG	17	MG/KG
Molybdenum	EPA6010C/3050B	17.9	MG/KG	75	MG/KG^
Nickel	EPA6010C/3050B	26.3	MG/KG	420	MG/KG
Selenium	EPA6010C/3050B	6.39	MG/KG	100	MG/KG
Zinc	EPA6010C/3050B	963	MG/KG	2,800	MG/KG
Total Solids	SM2540G	27.5	WT%		WT%
Total Volatile Solids	SM2540G	62.3	WT%		WT%
Ammonia-N	SM4500-NH3 B+C	5000	MG/KG		MG/KG
Nitrite-N	EPA300.0	ND	MG/KG		MG/KG
Nitrate-N	EPA300.0	ND	MG/KG		MG/KG
Total Kjeldahl Nitrogen	SM4500-NH3B+NORG_B	63500	MG/KG		MG/KG
Total Nitrogen	#	63500	MG/KG		MG/KG
Total Phosphorus	EPA6010C/3050B	18300	MG/KG		MG/KG

+ Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist _____ Date 12/30/2020
Environmental Chemistry Services
Alvarado Wastewater Chemistry Laboratory (Arizona State Cert. No. AZ0783)

The City of SAN DIEGO

PUBLIC UTILITIES DEPARTMENT
ENVIRONMENTAL MONITORING & TECHNICAL SERVICES DIVISION
ENVIRONMENTAL CHEMISTRY SERVICES SECTION
5530 Kiowa Drive
La Mesa, CA 91942
(619) 668-3215

SAMPLING REPORT & CHAIN OF CUSTODY RECORD

Project/Client:	Dewatered Sludge/MBC	Contact Name:	Richard Pitchford	Type of Sampling Equipment/How sample obtained/other sampling notes:
Contact Name:	Estella Lanez	Sampler/s:	J. Guarnes/E. Brown	ECS-THERM-159
Phone:	(619)221-8352	Phone:	(858) 614 - 5509	ML Biomedical calibration date 05/20 – 05/21

Sample Information: (All information is required) Number of attachments: _____

Date/Time Sample Taken	Source / Location	Sample Type/Description	Grab / Composite	Vol / wt (mL / L / g)	Number of containers	Container Type	Preservative cool, ≤ °6C	Analyses requested	Sample Log Number (Lab use only)	Sample Temperature (Lab use only)
11/30/2020 @2359	MBCDEWCN	DW sludge	Comp	10L	1	G	≤6.0°C	*	P1201790	4.3°C
12/01/2020 @ 0920	Field Blank	Reagent water	Grab	40ml	1	G	≤6.0°C	Volatiles	P1201791	1.4°C
11/30/2020 @2359	Centrate	Wastewater	Comp	1L	2	P	HNO_3	Metals, Hg	P1201789	N/A

Chain-of-Custody

Relinquished by: Name: Joshua Rambo Sign:	Date & Time 12/1/2020 0945 Location: MBC	Received by: Name: 12/1/2020 Sign:	Date & Time 12/1/2020 0945 Location: MBC
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:

Sample Condition Received in Lab

Temperature In Compliance:	(Y) / N		
Container Intact:	(Y) / N	Preserved:	(Y) / N / NA
Received On Ice:	(Y) / N	Preserved at Lab:	(Y) / N

Comments

*Analysis Assigned: Metals, Hg, Pesticides, 8260B, Dioxins, Sulfides, Cyanide, Anions, Paint filter test, TKN, Ammonia

See instructions, on reverse, for completing this form.
FIGURE 2a

Original-retained by lab
1st copy – Transporter
Last copy - for sample originator

City of San Diego
Public Utilities Department
Metro Biosolids Center

A completed Sampling Report and Chain of Custody Record form must accompany the sample once the monthly composite is completed and delivered to the lab.

Refrigerator Serial No: 203M02435 **Target Temperature:** ≥ 2 C deg and ≤ 6 C deg **Thermometer Serial No:** ECST-056

METRO BIOSOLIDS CENTER SLUDGE COMPOSITE DAILY SAMPLE LOG

For Month of: November 2020

Date	Day	Time	Source*	Sampler	REFRIGERATOR TEMPERATURE
1	Sunday	0715	3, 4, 5, 6	BR	
2	Monday	0648	3, 4, 5, 6	KB	2.0°C
3	Tuesday	0818	4, 5, 6	MN	2.0°C
4	Wednesday	0300	3, 4, 5, 6	SL	2.0°C
5	Thursday	0641	4, 5, 6, 7	KB	2.5°C
6	Friday	0745	3, 4, 6, 7	MN	3.0°C
7	Saturday	0634	4, 6, 7	GC	2.5°C
8	Sunday	0720	4, 6, 7	BR	3.0°C
9	Monday	0727	3, 4, 6, 7	MN	3.0°C
10	Tuesday	0740	3, 6, 7	MN	2.5°C
11	Wednesday	0621	3, 4, 6, 7	GC	
12	Thursday	0725	3, 4, 6, 7	MN	2.5°C
13	Friday	0630	3, 4, 6, 7	KB	2.0°C
14	Saturday	0740	3, 4, 6, 7	GC	3.0°C
15	Sunday		3, 4, 6, 7	BR	3°C
16	Monday	0636	3, 4, 6, 7	KB	2.0°C
17	Tuesday	0730	3, 6, 7	MN	2.5°C
18	Wednesday	0636	3, 5, 6, 7	KB	2.5°C
19	Thursday	0638	3, 5, 6, 7	KB	3.0°C
20	Friday	0710	3, 4, 6, 7	MN	2.5°C
21	Saturday	0626	3, 4, 6, 7	GC	3.0°C
22	Sunday		3, 4, 6, 7	BR	2.5°C
23	Monday	0850	3, 4, 6	MN	2.5°C
24	Tuesday	0810	3, 4, 5, 6	MN	3.0°C
25	Wednesday	0640	3, 4, 5, 6	MN	3.0°C
26	Thursday	0550	1, 4, 5	GC	2.0°C
27	Friday	0621	1, 3, 4, 5	KB	3.0°C
28	Saturday	0630	1, 3, 4	GC	3.0°C
29	Sunday	0700	1, 3, 4	K	3.0°C
30	Monday	0700	1 3 4	E.N.	3.0°C

Print Supervisor's Name: [signature] Signature: [signature]

Date: 11-30-20

Revision: 10.30.2020

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT
CERTIFICATION STATEMENT

In Compliance with
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the City of San Diego Public Utilities Department

VECTOR ATTRACTION REDUCTION

The daily fractional volatile solids reduction (FVSR) values were calculated using the Van Kleck Equation and raw and digested sludge volatile solids for the month of Dec 2020 from locations based on the following information from Operations staff:

All sludge sent to Metro Biosolids Center (MBC) from the Pt. Loma WWTP is pumped from Digester 7.
Only North City Water Reclamation Plant (NCWRP) raw sludge is going to MBC digesters.
The MBC thickened sludge samples are representative of the raw sludge from NCWRP.
MBC is using Digester No.1 for sludge processing.

The following determinations of volatile solids were done using approved methods by a laboratory certified by the State of Arizona (Cert. No. AZ0783)

58.6 % Average Volatile Solids Reduction for the Pt. Loma WTP sludge digestion process.
50.9 % Average Volatile Solids Reduction for the sludge MBC treats from the NCWRP.

Both streams **do** / ~~do not~~ meet 38% FVSR criteria.

Environmental Chemistry Laboratory Senior Chemist — Date 1/29/2021

I certify that the sludge samples taken and used in these determinations were taken and handled under my direction and supervision using approved methods and are representative samples of actual operational conditions.

Wastewater Treatment Superintendent — Date 2/4/2021
Metro Biosolids Center (MBC)

Wastewater Treatment Superintendent — Date 2/8/21
Pt. Loma Wastewater Treatment Plant

CERTIFICATION STATEMENT
VECTOR ATTRACTION REQUIREMENTS

I certify, under penalty of law, the vector attraction reduction requirement in Paragraph 503.33 (b) (1) which states that:
The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent, has 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 vector reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

By:

Chief Plant Operator — Date 2/9/21
Wastewater Treatment and Disposal

FVSR (Fractional Volatile Solids Reduction)

$$FVSR = \frac{VS_p - VS_b}{VS_p - (VS_p * VS_b)} = \frac{Vol.solidsRaw - Vol.solids\ Digested}{Vol.solids\ Raw - (Vol.solids\ Raw * Vol.solids\ Digested)}$$

Where: VS_p = Volatile Solids Feed Sludge (RAW SLUDGE),
VS_b = Volatile Solids Digested Sludge (DIG SLUDGE), currently only digester 7 is used for the calculation.

Volatile Solids (VS) is expressed as fractional numbers.

Average Volatile Solids for Dec 2020

Average %TVS Digested Sludge (Digester 7) for the month.	Average Raw (feed) sludge %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
60.3	78.6	58.6%

Average Volatile Solids for Dec 2020

Average %TVS Digested Sludge (MBC Dig 1) for the month.	Average Raw (feed) sludge (MBC_TSBTC) %TVS for the month	Calculated FVSR (%)
CA Lab data used	CA Lab data used	CA Lab data used
68.8	81.8	50.9%

Y:\EMTS\41.Sections\WCS\GROUPS\PUBLIC\METALS\TS_VS_DSLDG\20338TS34

ALVARADO WASTEWATER CHEMISTRY LAB.
ARIZONA DH No. AZ0783
Total and Volatile Solids

BATCH ID: 20338TS34 ANALYSIS DATE: 12/3/2020 PROTOCOL: SM2540G
ANALYSIS: TS/VS_SLDG MDL(%): 0.24
ANALYST: TJCANNON LCS TRUE VALUE: 3.9

SAMPLE ID	SAMPLE DATE	SOURCE	TEST TYPE	DISH ID	TARE WT grams	WET WT grams	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TS	COMMENTS
Standard Methods 2540B for the Determination of Residue (%TS)												
P1208911	12/3/2020	LAB	BLNK	1	72.01	108.38	72.02	7:54 AM	72	10:06 AM	ND	
P1208912	12/3/2020	LAB	LCS	THE	74.82	117.34	76.48	7:54 AM	76.46	10:06 AM	3.9	%REC= 100
P1205619	12/1/2020	MBC_DIG1		DIG7	72.84	110.66	73.6	7:54 AM	73.57	10:06 AM	1.9	
P1205619	12/1/2020	MBC_DIG1	DUP	RAW	75.11	118.78	75.96	7:54 AM	75.95	10:06 AM	1.9	%RPD =0
P1205620	12/1/2020	MBC_TSBTC		7	79.36	113.31	80.69	7:54 AM	80.68	10:06 AM	3.9	
P1205622	12/1/2020	PLDIG7		6	72.36	106.86	73.09	7:54 AM	73.09	10:06 AM	2.1	
P1205621	12/1/2020	RAW COMP		PO	77.94	122.44	79.68	7:54 AM	79.67	10:06 AM	3.9	
						FINAL WT (g)						
EPA Method 160.4 for %TVS at 550°C					TARE WT (g)	Total Solids	INITIAL WT (g)	HOUR	FINAL WT (g)	HOUR	% TVS	
P1208911	12/3/2020	LAB	BLNK	1	72.01	72						
P1208912	12/3/2020	LAB	LCS	THE	74.82	76.46						
P1205619	12/1/2020	MBC_DIG1		DIG7	72.84	73.57	73.06	2:14 PM	73.07	12:25 PM	68.5	
P1205619	12/1/2020	MBC_DIG1	DUP	RAW	75.11	75.95	75.37	2:14 PM	75.37	12:25 PM	69	%RPD =0.7
P1205620	12/1/2020	MBC_TSBTC		7	79.36	80.68	79.6	2:14 PM	79.6	12:25 PM	81.8	
P1205622	12/1/2020	PLDIG7		6	72.36	73.09	72.65	2:14 PM	72.65	12:25 PM	60.3	
P1205621	12/1/2020	RAW COMP		PO	77.94	79.67	78.31	2:14 PM	78.31	12:25 PM	78.6	

1st Entry_____ 2nd Entry_____ Final Entry_____

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-DEC-2020 to 31-DEC-2020

Source: MBCDEWCN
Sample ID: P1208014
Sample Date: 31-DEC-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	6.23	1.77	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.35	MG/KG	305	86.6	10000	*	100.00		
Beryllium	0.01	MG/KG	0.047	0.013	75	*	0.75		
Cadmium	0.04	MG/KG	0.226	0.064	100	*	1.00	39	
Chromium (VI)					500	NA	5.00		
Chromium	0.1	MG/KG	56.9	16.2	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.27	0.929	8000	*	80.00		
Copper	2.4	MG/KG	614	174	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	12.1	3.44	1000	*	5.00	300	350
Mercury	0.3	MG/KG	0.63	0.179	20	*	0.20	17	
Molybdenum	0.1	MG/KG	18.5	5.25	3500	*	350.00		
Nickel	0.6	MG/KG	21.1	5.99	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	4.24	1.20	100	*	1.00	100	
Silver	0.27	MG/KG	2.62	0.744	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	20.8	5.91	2400	*	24.00		
Zinc	0.8	MG/KG	944	268	5000	*	250.00	2,800	
Fluoride	5	MG/KG	218	61.8	18000	*	180.00		
Cyanide-Reactive			NA						
Cyanide, Total	0.13	MG/KG	5.50	1.56					
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	11900	3380					
Total Solids		WT%	28.4						
Total Volatile Solids		WT%	62.3						
pH		PH	7.75		>2 - <12				
Aldrin	0.0063	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0079	MG/KG	0.075	0.0214	2.5	*	0.25		
DDT, DDE, DDD	0.0715	MG/KG	0.01	0.003	1.0	*	0.10		
Dieldrin	0.0051	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.0114	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0091	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.005	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0149	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0362	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0072	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	0.6	MG/KG	ND	ND	50	*	5.00		
Toxaphene	1.2	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.012	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		
2,4D			NA	NA	100	NA	10.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Date: 1/29/2021

Elvira Mercado, Senior Chemist, Environmental Chemistry Services
Alvarado Wastewater Chemistry Laboratory (CA ELAP Cert. No 1609)

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

CERTIFICATION STATEMENT
In Compliance With
U.S. Environmental Protection Agency 40 CFR Part 503 Standards
For the Use and Disposal of Bulk Sewage Sludge from the
Metro Biosolids Center
Operated by the
City of San Diego Public Utilities Department

Monthly Sludge Composite Certification - Centrifuge Dewatered Sludge
INORGANIC POLLUTANT CONCENTRATIONS: The results of analyses below are for a composite sample of daily centrifuge dewatered sludge samples taken from the centrifuges over the calendar month of December 2020.

Metals from Table 3 of Paragraph 503.13+
(All concentrations in dry weight)

Source: MBCDEWCN
Sample ID: P1208014
Sample Date: 31-DEC-2020

Parameter	Method	Value	Units	40 CFR 503 Limits	Units
Arsenic	EPA6010C/3050B	ND	MG/KG	41	MG/KG
Cadmium	EPA6010C/3050B	0.226	MG/KG	39	MG/KG
Chromium	EPA6010C/3050B	56.9	MG/KG	1,200	MG/KG
Copper	EPA6010C/3050B	614	MG/KG	1,500	MG/KG
Lead	EPA6010C/3050B	12.1	MG/KG	300	MG/KG
Mercury	SW7471B	0.63	MG/KG	17	MG/KG
Molybdenum	EPA6010C/3050B	18.5	MG/KG	75	MG/KG^
Nickel	EPA6010C/3050B	21.1	MG/KG	420	MG/KG
Selenium	EPA6010C/3050B	4.24	MG/KG	100	MG/KG
Zinc	EPA6010C/3050B	944	MG/KG	2,800	MG/KG
Total Solids	SM2540G	28.4	WT%		WT%
Total Volatile Solids	SM2540G	62.3	WT%		WT%
Ammonia-N	SM4500-NH3C B+C	6700	MG/KG		MG/KG
Nitrite-N	EPA300.0	5.1	MG/KG		MG/KG
Nitrate-N	EPA300.0	3.1	MG/KG		MG/KG
Total Kjeldahl Nitrogen	SM4500_NH3B+NORG_B	49400	MG/KG		MG/KG
Total Nitrogen	#	49400	MG/KG		MG/KG
Total Phosphorus	EPA6010C/3050B	21600	MG/KG		MG/KG

+ Also conforms to Table 2-Monthly Average Pollutant Concentration of the Arizona Administrative Code Title 18, Chapter 9.
^ Limits for Molybdenum taken from 2009 version of 40 CFR part 503.13 Table 1, Ceiling Concentrations
# Value is a sum calculation of Total Kjeldahl Nitrogen, Nitrate as N and Nitrite as N.

Based on this month's analysis and the results of analyses of monthly sludge composite samples for the previous year, no parameter in the described sludge stream exceeds 40 CFR Part 503 Standards for land application.

Senior Chemist _____ Date: 1/29/2021
Environmental Chemistry Services
Alvarado Wastewater Chemistry Laboratory (Arizona State Cert. No. AZ0783)

The City of SAN DIEGO

PUBLIC UTILITIES DEPARTMENT
ENVIRONMENTAL MONITORING & TECHNICAL SERVICES DIVISION
ENVIRONMENTAL CHEMISTRY SERVICES SECTION
5530 Kiowa Drive
La Mesa, CA 91942
(619) 668-3215

SAMPLING REPORT & CHAIN OF CUSTODY RECORD

Project/Client:	Dewatered Sludge/MBC	Contact Name:	Richard Pitchford	Type of Sampling Equipment/How sample obtained/other sampling notes:	
Contact Name:	Estella Lanez	Sampler/s:	J. Guarnes/E. Brown		ECS-THERM-159
Phone:	(619)221-8352	Phone:	(858) 614 - 5509		ML Biomedical calibration date 05/20 – 05/21

Sample Information: (All information is required) Number of attachments:

Date/Time Sample Taken	Source / Location	Sample Type/Description	Grab / Composite	Vol / wt (mL / L / g)	Number of containers	Container Type	Preservative cool, ≤ °6C	Analyses requested	Sample Log Number (Lab use only)	Sample Temperature (Lab use only)
12/31/2020 @2359	MBCDEWCN	DW sludge	Comp	10L	1	G	≤6.0°C	*	P1208014	3.4°C
01/04/2021 @ 1025	Field Blank	Reagent water	Grab	40ml	1	G	≤6.0°C	Volatiles	P1208015	2.1°C
12/31/2020 @2359	Centrate	Wastewater	Comp	1L	~~2~~ 1	P	HNO3	Metals, Hg	P1208013	N/A

Chain-of-Custody

Relinquished by: Name: Joshua Rambo Sign:	Date & Time 1/4/2021 1054 Location: MBC	Received by: Name: Joe Guerra Sign:	Date & Time 1/4/2021 Location: 1054 MBC
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:
Relinquished by: Name: Sign:	Date & Time Location:	Received by: Name: Sign:	Date & Time Location:

Sample Condition Received in Lab

Temperature In Compliance:	(Y) / N		
Container Intact:	(Y) / N	Preserved:	(Y) / N / NA
Received On Ice:	(Y) / N	Preserved at Lab:	(Y) / N

Comments

*Analysis Assigned: Metals, Hg, Pesticides, 8260B, Dioxins, Sulfides, Cyanide, Anions, Paint filter test, TKN, Ammonia

See instructions on reverse, for completing this form.
FIGURE 2a

Original-retained by lab — 1st copy – Transporter — Last copy - for sample originator

City of San Diego

Public Utilities Department

Metro Biosolids Center

A completed Sampling Report and Chain of Custody Record form must accompany the sample once the monthly composite is completed and delivered to the lab.

Refrigerator Serial No: 203M02435 **Target Temperature:** ≥ 2 C deg and ≤ 6 C deg **Thermometer Serial No:** ECST-056

METRO BIOSOLIDS CENTER SLUDGE COMPOSITE DAILY SAMPLE LOG

For Month of: December 2020

Date	Day	Time	Source*	Sampler	REFRIGERATOR TEMPERATURE
1	Tuesday	0800	1,4	BK	3
2	Wednesday	0700	1347	G.N.	3° C
3	Thursday	0700	1347	E.N.	3.0
4	Friday	0700	1367	G.N.	3.0°C
5	Saturday	0800	1,3,6,7	SL	3°C
6	Sunday	0800	1367	LK	3°C
7	Monday	0700	367	E.N.	3 C
8	Tuesday	0700	3567	E.N.	3 C
9	Wednesday	0458	3,5,6,7	MN	3°C
10	Thursday	0600	3,4,5,6	SL	3 °C
11	Friday	0630	3,4,5,6	KB	3 °C
12	Saturday	0630	3,4,5,6	SL	3°C
13	Sunday	0700	3,4,5,6	LK	3°C
14	Monday	0725	3,4,5,6	BK	3 C
15	Tuesday	0800	3.4.5.6	LL	3.0 °C
16	Wednesday	0700	346	LC	3.0°C
17	Thursday	0700	3,4,5,6	BK	3.0°
18	Friday	0700	3.4.5.6	LL	3.0
19	Saturday	0700	3456	SL	3°C
20	Sunday	0700	3,4,5	LK	3°C
21	Monday	0700	3.4.5.6	LC	3.0°C
22	Tuesday	0700	2.3.5.6	LL	3.0°C
23	Wednesday	0700	2356	E.N.	3.0°C
24	Thursday	0700	2,3,5	BK	3.0 C
25	Friday	0700	2,3,5,8	SL	3.0°C
26	Saturday	0700	3,5	SL	3.0°C
27	Sunday	0700	2,3,5,6	LK	3.0°C
28	Monday	0624	2,3,5	KB	2.5°C
29	Tuesday	0635	2,3,5,6	KB	3.0° C
30	Wednesday	0647	2,3,5,6	KB	3.0° C
31	Thursday	0700	2.3.6.7	LL	3.0 °C

Print Supervisor's Name: John Cauzza Signature: JOHN CAUZZA

Date: 12-31-20

Revision: 10.30.2020

Enclosure 3 Copies of Monthly Biosolids Certification statements for Meeting Pathogen Reduction Requirements for 2020

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CITY OF SAN DIEGO
PUBLIC UTITLITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
January 1, 2020 – January 31, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Metropolitan Biosolids Center sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

I certify, under penalty of law, that the Class B pathogen requirements in 503.32 (b)(3) 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 requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For The City of San Diego
Public Utilities Department

By: _____ Date 3/11/20

Richard Pitchford
Superintendent
Wastewater Treatment and Disposal Division
Metropolitan Biosolids Center

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
January 1, 2020 – January 31, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, CA, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Point Loma Wastewater Treatment Plant sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

I certify, under penalty of law, that the Class B pathogen requirements in 503.32 (b)(3) 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 requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For The City of San Diego
Public Utilities Department

By: _____ Date 3/20/20

David Marlow
Superintendent
Wastewater Treatment and Disposal Division
Point Loma Wastewater Treatment Plant

CITY OF SAN DIEGO
PUBLIC UTITLITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
February 1, 2020 – February 29, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Metropolitan Biosolids Center sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

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For The City of San Diego
Public Utilities Department

By: _____ Date 4/21/20

Richard Pitchford
Superintendent
Wastewater Treatment and Disposal Division
Metropolitan Biosolids Center

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
February 1, 2020 – February 29, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, CA, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Point Loma Wastewater Treatment Plant sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

I certify, under penalty of law, that the Class B pathogen requirements in 503.32 (b)(3) 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 requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For The City of San Diego
Public Utilities Department

By: _____ Date 5-1-20

David Marlow
Superintendent
Wastewater Treatment and Disposal Division
Point Loma Wastewater Treatment Plant

CITY OF SAN DIEGO
PUBLIC UTITLITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
March 1, 2020 – March 31, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Metropolitan Biosolids Center sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

I certify, under penalty of law, that the Class B pathogen requirements in 503.32 (b)(3) 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 requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For The City of San Diego
Public Utilities Department

By: _____ Date 5/21/20

Richard Pitchford
Superintendent
Wastewater Treatment and Disposal Division
Metropolitan Biosolids Center

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
March 1, 2020 – March 31, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, CA, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Point Loma Wastewater Treatment Plant sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

I certify, under penalty of law, that the Class B pathogen requirements in 503.32 (b)(3) 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 requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For The City of San Diego
Public Utilities Department

By: _____ Date 5/29/20

David Marlow
Superintendent
Wastewater Treatment and Disposal Division
Point Loma Wastewater Treatment Plant

CITY OF SAN DIEGO
PUBLIC UTITLITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
April 1, 2020 – April 30, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Metropolitan Biosolids Center sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

I certify, under penalty of law, that the Class B pathogen requirements in 503.32 (b)(3) 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 requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For The City of San Diego
Public Utilities Department

By: _____ Date 6/19/20

Richard Pitchford
Superintendent
Wastewater Treatment and Disposal Division
Metropolitan Biosolids Center

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
April 1, 2020 – April 30, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, CA, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Point Loma Wastewater Treatment Plant sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

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For The City of San Diego
Public Utilities Department

By: D. L. Marlow Date 6-23-20

David Marlow
Superintendent
Wastewater Treatment and Disposal Division
Point Loma Wastewater Treatment Plant

CITY OF SAN DIEGO
PUBLIC UTITLITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
May 1, 2020 – May 31, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Metropolitan Biosolids Center sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

I certify, under penalty of law, that the Class B pathogen requirements in 503.32 (b)(3) 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 requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For The City of San Diego
Public Utilities Department

By: _____ Date 7/14/20

Richard Pitchford
Superintendent
Wastewater Treatment and Disposal Division
Metropolitan Biosolids Center

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
May 1, 2020 – May 31, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, CA, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Point Loma Wastewater Treatment Plant sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

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For The City of San Diego
Public Utilities Department

By: _____ Date 7/15/20

David Marlow
Superintendent
Wastewater Treatment and Disposal Division
Point Loma Wastewater Treatment Plant

CITY OF SAN DIEGO
PUBLIC UTITLITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
June 1, 2020 – June 30, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Metropolitan Biosolids Center sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

I certify, under penalty of law, that the Class B pathogen requirements in 503.32 (b)(3) 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 requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For The City of San Diego
Public Utilities Department

By: _____ Date 8/25/2020

Richard Pitchford
Superintendent
Wastewater Treatment and Disposal Division
Metropolitan Biosolids Center

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT for MEETING PATHOGEN REDUCTION REQUIREMENTS June 1, 2020 – June 30, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, CA, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Point Loma Wastewater Treatment Plant sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

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For The City of San Diego
Public Utilities Department

By: _____ Date 9/1/20

David Marlow
Superintendent
Wastewater Treatment and Disposal Division
Point Loma Wastewater Treatment Plant

CITY OF SAN DIEGO
PUBLIC UTITLITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
July 1, 2020 – July 31, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Metropolitan Biosolids Center sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

I certify, under penalty of law, that the Class B pathogen requirements in 503.32 (b)(3) 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 requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For The City of San Diego
Public Utilities Department

By: _____ Date 9/16/2020

Richard Pitchford
Superintendent
Wastewater Treatment and Disposal Division
Metropolitan Biosolids Center

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
July 1, 2020 – July 31, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, CA, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Point Loma Wastewater Treatment Plant sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

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For The City of San Diego
Public Utilities Department

By: _____ Date 9/18/20

David Marlow
Superintendent
Wastewater Treatment and Disposal Division
Point Loma Wastewater Treatment Plant

CITY OF SAN DIEGO
PUBLIC UTITLITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
August 1, 2020 – August 31, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Metropolitan Biosolids Center sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

I certify, under penalty of law, that the Class B pathogen requirements in 503.32 (b)(3) 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 requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For The City of San Diego
Public Utilities Department

By: _____ Date 10/20/2020

Richard Pitchford
Superintendent
Wastewater Treatment and Disposal Division
Metropolitan Biosolids Center

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
August 1, 2020 – August 31, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, CA, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Point Loma Wastewater Treatment Plant sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

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For The City of San Diego
Public Utilities Department

By: _____ Date 10-30-20

David Marlow
Superintendent
Wastewater Treatment and Disposal Division
Point Loma Wastewater Treatment Plant

CITY OF SAN DIEGO
PUBLIC UTITLITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
September 1, 2020 – September 30, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Metropolitan Biosolids Center sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

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For The City of San Diego
Public Utilities Department

By: _____ Date 11/19/2020

Richard Pitchford
Superintendent
Wastewater Treatment and Disposal Division
Metropolitan Biosolids Center

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
September 1, 2020 – September 30, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, CA, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Point Loma Wastewater Treatment Plant sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

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For The City of San Diego
Public Utilities Department

By: _____ Date 11-27-20

David Marlow
Superintendent
Wastewater Treatment and Disposal Division
Point Loma Wastewater Treatment Plant

CITY OF SAN DIEGO
PUBLIC UTITLITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
October 1, 2020 – October 31, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Metropolitan Biosolids Center sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

503.17 (a)(4)(i)(B) - Certification statement for meeting pathogens reduction requirements.

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For The City of San Diego
Public Utilities Department

By: _____ Date 12/16/2020

Richard Pitchford
Superintendent
Wastewater Treatment and Disposal Division
Metropolitan Biosolids Center

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
October 1, 2020 – October 31, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, CA, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

At the City of San Diego Point Loma Wastewater Treatment Plant sludge undergoes anaerobic, high rate, mesophilic digestion that meets 503 regulations for detention time and temperature.

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For The City of San Diego
Public Utilities Department

By:_____ Date 12/24/20

David Marlow
Superintendent
Wastewater Treatment and Disposal Division
Point Loma Wastewater Treatment Plant

CITY OF SAN DIEGO
PUBLIC UTITLITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
November 1, 2020 – November 30, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

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For The City of San Diego
Public Utilities Department

By: R Pitchford Date 2/2/2021

Richard Pitchford
Superintendent
Wastewater Treatment and Disposal Division
Metropolitan Biosolids Center

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
November 1, 2020 – November 30, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, CA, Public Utilities Department.

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For The City of San Diego
Public Utilities Department

By: D. Marlow Date 2/8/21

David Marlow
Superintendent
Wastewater Treatment and Disposal Division
Point Loma Wastewater Treatment Plant

CITY OF SAN DIEGO
PUBLIC UTITLITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
December 1, 2020 – December 31, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, Public Utilities Department.

503.17 (a)(4)(i)(C) - A description of how the Class B pathogens requirement in 503.32 (b) (3) is met.

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For The City of San Diego
Public Utilities Department

By: _____ Date 2/4/2021

Richard Pitchford
Superintendent
Wastewater Treatment and Disposal Division
Metropolitan Biosolids Center

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT

BIOSOLIDS CERTIFICATION STATEMENT
for
MEETING PATHOGEN REDUCTION REQUIREMENTS
December 1, 2020 – December 31, 2020

The following pathogens reduction requirement has been prepared in accordance with U.S. Environmental Protection Agency 40 CFR Part 503 Standards for the use and disposal of bulk sewage sludge from the Metro Biosolids Center Operated by the City of San Diego, CA, Public Utilities Department.

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For The City of San Diego
Public Utilities Department

By: _____ Date 2/8/21

David Marlow
Superintendent
Wastewater Treatment and Disposal Division
Point Loma Wastewater Treatment Plant

Enclosure 4 Copies of Monthly Biosolids Production Reports for 2020

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POINT LOMA WASTEWATER TREATMENT PLANT
METROBIOSOLIDS CENTER SOLIDS REPORT

01-JAN-2020 TO 31-JAN-2020

Date	Pt. Loma Raw sludge Gallons	%TS	Tons	Pt. Loma Digested Biosolids Gallons	%TS	Tons	MBC Combined Centrate Gallons	%TS	Tons	MBC Dewatered Biosolids Hauled Wet Tons	%TS	Dry Tons
01-01	1,115,718			1,115,718			2,332,424	0.20	19	.00	29.95	.00
01-02	1,216,937	3.8	193	1,216,937	2.2	112	2,193,208	0.20	18	494.22	28.95	143.08
01-03	1,177,936			1,177,936	2.2	108	2,081,347	0.20	17	670.67	29.40	197.18
01-04	810,153			810,153			1,962,100	0.20	16	.00	30.40	.00
01-05	1,162,615	4.8	233	1,162,615			2,212,934	0.20	18	.00	29.40	.00
01-06	1,077,549			1,077,549	2.6	117	2,283,725	0.20	19	567.45	30.40	172.50
01-07	1,078,471	4.1	184	1,078,471	2.3	103	2,317,145	0.20	19	624.99	30.75	192.18
01-08	1,083,263			1,083,263	2.3	104	2,077,905	0.20	17	521.38	30.55	159.28
01-09	1,086,039	4.2	190	1,086,039	2.3	104	2,101,144	0.25	22	348.36	30.15	105.03
01-10	1,145,957			1,145,957	2.3	110	2,097,446	0.30	26	371.44	30.80	114.40
01-11	1,275,464			1,275,464			2,090,549	0.30	26	.00	29.20	.00
01-12	1,147,101	4.2	201	1,147,101			2,152,120	0.30	27	.00	29.05	.00
01-13	1,151,411			1,151,411	2.4	115	2,114,308	0.30	26	543.08	29.60	160.75
01-14	1,139,178	4.2	200	1,139,178	2.3	109	2,090,686	0.30	26	501.78	28.90	145.01
01-15	920,972			920,972	2.2	85	1,993,697	0.30	25	520.04	29.60	153.93
01-16	1,292,626	4.3	232	1,292,626	2.2	119	2,180,791	0.20	18	298.62	29.75	88.84
01-17	1,150,936			1,150,936	2.3	110	2,206,974	0.20	18	395.29	29.55	116.81
01-18	1,290,502			1,290,502			2,189,205	0.20	18	.00	29.40	.00
01-19	1,168,594			1,168,594			2,197,522	0.20	18	.00	30.35	.00
01-20	1,133,226			1,133,226			2,159,066	0.20	18	.00	30.20	.00
01-21	1,157,282	4.1	198	1,157,282	2.3	111	2,254,799	0.20	19	472.86	30.05	142.09
01-22	1,448,800			1,448,800	2.3	139	2,109,019	0.30	26	521.45	28.60	149.13
01-23	1,292,904	4.3	232	1,292,904	2.3	124	2,047,515	0.20	17	416.44	28.75	119.73
01-24	1,073,085			1,073,085	2.2	98	2,020,489	0.20	17	545.11	29.90	162.99
01-25	1,127,343			1,127,343			2,156,298	0.20	18	.00	28.50	.00
01-26	1,119,696	4.2	196	1,119,696			2,137,382	0.20	18	.00	28.80	.00
01-27	1,018,464			1,018,464	2.3	98	2,058,833	0.20	17	487.83	29.00	141.47
01-28	1,117,557	4.1	191	1,117,557	2.3	107	1,924,286	0.20	16	424.82	29.80	126.60
01-29	1,188,718			1,188,718	2.2	109	2,178,255	0.30	27	398.91	29.00	115.68
01-30	1,181,274	4.1	202	1,181,274	2.2	108	2,243,392	0.20	19	370.73	28.80	106.77
01-31	1,115,361			1,115,361	2.2	102	2,185,981	0.20	18	490.21	29.30	143.63
avg	1,144,037	4.2	204	1,144,037	2.3	109	2,140,340	0.23	20	322.12	29.58	95.39
sum	35,465,132		6,211	35,465,132		3,373	66,350,545		629.23	9,985.68		2,953.35

Sludge and Biosolids Totals are calculated using the total flow and average %TS values since there are not values for every day of the month.

Note: The Tons and Dry Tons calculations of the summary totals is computed by using the following equations:
Tons = Monthly Total Gallons*(8.34 lbs/Gallon)*(1Ton/2000 lbs)*(Avg %TS/100), Dry Tons = (Monthly Total Wet Tons)*(%TS/100)

POINT LOMA WASTEWATER TREATMENT PLANT
METROBIOSOLIDS CENTER SOLIDS REPORT

01-FEB-2020 TO 29-FEB-2020

Date	Pt. Loma Raw sludge Gallons	%TS	Tons	Pt. Loma Digested Biosolids Gallons	%TS	Tons	MBC Combined Centrate Gallons	%TS	Tons	MBC Dewatered Biosolids Hauled Wet Tons	%TS	Dry Tons
02-01	1,111,260			1,111,260			1,984,492	0.20	17	.00	29.80	.00
02-02	1,115,893	4.2	195	1,115,893			2,056,920	0.20	17	.00	28.75	.00
02-03	978,415			978,415	2.7	110	2,032,445	0.20	17	494.72	29.75	147.18
02-04	1,109,336	4.2	194	1,109,336	2.0	93	1,945,772	0.30	24	475.07	29.95	142.28
02-05	1,170,568			1,170,568	2.6	127	2,100,176	0.25	22	545.02	28.70	156.42
02-06	1,140,604	4.2	200	1,140,604	1.7	81	2,186,646	0.30	27	502.64	30.00	150.79
02-07	1,121,486			1,121,486	2.2	103	2,130,462	0.20	18	499.01	30.90	154.19
02-08	1,120,061			1,120,061			1,939,232	0.20	16	.00	30.90	.00
02-09	1,107,714	3.9	180	1,107,714			2,149,763	0.20	18	.00	30.20	.00
02-10	1,092,386			1,092,386	2.9	132	1,980,680	0.30	25	566.43	28.80	163.13
02-11	1,101,310	4.4	202	1,101,310	2.2	101	2,089,825	0.30	26	447.23	29.30	131.04
02-12	1,146,252			1,146,252	2.4	115	2,107,771	0.30	26	540.87	29.05	157.12
02-13	1,115,462	4.0	186	1,115,462	2.0	93	2,163,573	0.30	27	550.02	28.40	156.21
02-14	1,106,854			1,106,854	1.8	83	2,167,346	0.30	27	455.46	29.30	133.45
02-15	1,103,240			1,103,240			2,032,610	0.30	25	.00	30.40	.00
02-16	1,112,743			1,112,743			2,132,733	0.20	18	.00	30.25	.00
02-17	1,105,308			1,105,308			2,031,067	0.30	25	.00	29.40	.00
02-18	1,202,290	4.1	206	1,202,290	2.2	110	2,200,799	0.20	18	620.28	29.60	183.60
02-19	1,168,930			1,168,930	2.2	107	2,163,259	0.25	23	491.85	29.65	145.83
02-20	992,791	4.2	174	992,791	2.2	91	2,124,114	0.30	27	570.57	29.00	165.47
02-21	1,187,909			1,187,909	2.3	114	2,119,199	0.20	18	419.21	28.60	119.89
02-22	1,210,219			1,210,219			2,170,441	0.30	27	.00	29.10	.00
02-23	1,119,991	4.1	192	1,119,991			2,204,771	0.30	28	.00	29.30	.00
02-24	1,120,254			1,120,254	2.6	122	1,984,841	0.20	17	614.57	28.60	175.77
02-25	851,999	4.2	149	851,999	1.5	53	1,968,999	0.30	25	549.87	28.90	158.91
02-26	1,202,854			1,202,854	1.8	90	2,139,952	0.30	27	539.80	29.70	160.32
02-27	1,144,113	4.3	205	1,144,113	2.2	105	2,305,513	0.30	29	271.46	28.40	77.09
02-28	1,078,932			1,078,932	2.3	104	2,098,765	0.30	26	417.96	29.60	123.72
02-29	1,132,269			1,132,269			2,197,582	0.30	27	.00	28.90	.00
avg	1,112,808	4.2	189	1,112,808	2.2	102	2,100,336	0.26	23	330.07	29.42	96.64
sum	32,271,443		5,603	32,271,443		2,961	60,909,748		665.64	9,572.04		2,816.16

Sludge and Biosolids Totals are calculated using the total flow and average %TS values since there are not values for every day of the month.

Note: The Tons and Dry Tons calculations of the summary totals is computed by using the following equations:
Tons = Monthly Total Gallons*(8.34 lbs/Gallon)*(1Ton/2000 lbs)*(Avg %TS/100), Dry Tons = (Monthly Total Wet Tons)*(%TS/100)

POINT LOMA WASTEWATER TREATMENT PLANT
METROBIOSOLIDS CENTER SOLIDS REPORT

01-MAR-2020 TO 31-MAR-2020

Date	Pt. Loma Raw sludge Gallons	%TS	Tons	Pt. Loma Digested Biosolids Gallons	%TS	Tons	MBC Combined Centrate Gallons	%TS	Tons	MBC Dewatered Biosolids Hauled Wet Tons	%TS	Dry Tons
03-01	1,118,079	4.1	191	1,118,079			2,175,555	0.20	18	.00	28.05	.00
03-02	1,115,624			1,115,624	2.9	135	2,211,431	0.30	28	639.98	30.40	194.55
03-03	1,119,353	3.8	177	1,119,353	2.2	103	2,276,203	0.30	28	541.05	28.15	152.31
03-04	1,115,709			1,115,709	2.1	98	2,144,404	0.25	22	444.72	29.20	129.86
03-05	1,149,748	4.1	197	1,149,748	2.2	106	2,385,571	0.30	30	298.94	28.55	85.35
03-06	1,166,593			1,166,593	2.2	107	2,299,127	0.20	19	395.41	30.05	118.82
03-07	1,125,872			1,125,872			2,270,434	0.30	28	.00	30.20	.00
03-08	1,072,863	4.3	192	1,072,863			2,091,362	0.20	17	.00	30.05	.00
03-09	1,116,473			1,116,473	2.3	107	2,081,166	0.20	17	545.28	28.95	157.86
03-10	840,552	4.2	147	840,552	2.3	81	2,117,251	0.20	18	477.00	30.20	144.05
03-11	1,275,906			1,275,906	2.4	128	2,232,367	0.20	19	419.73	30.15	126.55
03-12	1,064,644	4.5	200	1,064,644	2.3	102	2,248,048	0.20	19	388.77	28.30	110.02
03-13	1,278,220			1,278,220	2.3	123	2,253,981	0.20	19	292.33	29.10	85.07
03-14	1,174,040			1,174,040			2,310,539	0.20	19	.00	28.10	.00
03-15	1,122,398	4.5	211	1,122,398			2,246,872	0.20	19	.00	28.30	.00
03-16	1,127,022			1,127,022	2.7	127	2,238,280	0.20	19	475.70	29.15	138.67
03-17	1,100,600	4.1	188	1,100,600	3.6	165	2,335,600	0.20	19	477.49	32.10	153.27
03-18	1,125,345			1,125,345	2.1	99	2,350,518	0.20	20	472.34	28.20	133.20
03-19	1,124,204	4.2	197	1,124,204	2.5	117	2,232,321	0.20	19	449.20	28.60	128.47
03-20	1,125,858			1,125,858	2.4	113	2,060,308	0.20	17	498.50	28.85	143.82
03-21	968,997			968,997			2,107,614	0.20	18	.00	27.10	.00
03-22	1,132,701	3.5	165	1,132,701			2,296,346	0.20	19	.00	29.70	.00
03-23	1,115,760			1,115,760	2.1	98	2,241,321	0.20	19	503.50	29.40	148.03
03-24	1,122,226	2.9	136	1,122,226	2.7	126	2,344,378	0.20	20	480.10	28.75	138.03
03-25	1,135,069			1,135,069	2.6	123	2,309,977	0.20	19	425.21	28.65	121.82
03-26	1,123,806	4.0	188	1,123,806	2.3	108	2,098,097	0.20	17	467.66	28.35	132.58
03-27	1,133,904			1,133,904	2.3	109	2,198,142	0.20	18	486.92	28.20	137.31
03-28	1,140,363			1,140,363			2,320,623	0.20	19	.00	29.20	.00
03-29	1,136,354	3.7	175	1,136,354			2,204,881	0.20	18	.00	28.40	.00
03-30	1,116,316			1,116,316	2.2	102	2,249,707	0.20	19	544.83	30.10	163.99
03-31	1,132,546	3.7	175	1,132,546			2,288,147	0.20	19	.00	28.55	.00
avg	1,119,908	4.0	181	1,119,908	2.4	113	2,232,922	0.21	20	313.70	29.07	91.73
sum	34,717,145		5,749	34,717,145		3,495	69,220,571		619.20	9,724.66		2,826.58

Sludge and Biosolids Totals are calculated using the total flow and average %TS values since there are not values for every day of the month.

Note: The Tons and Dry Tons calculations of the summary totals is computed by using the following equations:
Tons = Monthly Total Gallons*(8.34 lbs/Gallon)*(1Ton/2000 lbs)*(Avg %TS/100), Dry Tons = (Monthly Total Wet Tons)*(%TS/100)

POINT LOMA WASTEWATER TREATMENT PLANT
METROBIOSOLIDS CENTER SOLIDS REPORT

01-APR-2020 TO 30-APR-2020

Date	Pt. Loma Raw sludge Gallons	%TS	Tons	Pt. Loma Digested Biosolids Gallons	%TS	Tons	MBC Combined Centrate Gallons	%TS	Tons	MBC Dewatered Biosolids Hauled Wet Tons	%TS	Dry Tons
04-01	1,113,992			1,113,992	2.2	102	2,234,854	0.20	19	571.51	28.80	164.59
04-02	1,125,657	3.9	183	1,125,657	2.3	108	2,244,067	0.20	19	571.27	28.25	161.38
04-03	1,146,965			1,146,965	2.1	100	2,219,047	0.20	19	480.42	28.60	137.40
04-04	1,140,902			1,140,902			2,213,043	0.20	18	.00	29.50	.00
04-05	1,148,698	3.8	182	1,148,698			2,189,952	0.20	18	.00	28.60	.00
04-06	1,139,196			1,139,196	2.5	119	2,081,978	0.20	17	403.22	29.05	117.14
04-07	1,135,354	4.1	194	1,135,354	2.4	114	2,414,718	0.20	20	427.88	28.95	123.87
04-08	1,143,952			1,143,952	2.3	110	2,311,330	0.20	19	426.81	28.30	120.79
04-09	1,194,065	4.3	214	1,194,065	2.3	115	2,317,518	0.20	19	419.72	28.45	119.41
04-10	1,107,418			1,107,418	2.2	102	1,936,322	0.20	16	420.05	29.30	123.07
04-11	1,130,809			1,130,809			1,425,704	0.20	12	.00	29.00	.00
04-12	1,112,539	4.9	227	1,112,539			1,449,602	0.30	18	.00	29.85	.00
04-13	1,118,390			1,118,390	2.6	121	1,264,624	0.30	16	401.66	30.35	121.90
04-14	1,068,969	6.3	281	1,068,969	2.4	107	2,087,736	0.30	26	405.16	28.05	113.65
04-15	1,092,496			1,092,496	2.5	114	1,687,223	0.30	21	399.35	30.05	120.00
04-16	1,096,167	6.1	279	1,096,167	2.7	123	1,410,285	0.30	18	388.72	28.20	109.62
04-17	1,084,283			1,084,283	2.4	109	1,459,786	0.30	18	398.37	29.75	118.52
04-18	1,086,002			1,086,002			1,295,604	0.30	16	.00	28.30	.00
04-19	1,159,438	4.1	198	1,159,438			1,295,190	0.30	16	.00	29.70	.00
04-20	1,166,850			1,166,850	2.5	122	1,378,854	0.30	17	366.46	29.50	108.11
04-21	1,149,743	4.0	192	1,149,743	2.4	115	1,147,801	0.40	19	426.00	28.65	122.05
04-22	1,104,924			1,104,924	2.4	111	2,037,228	0.40	34	372.72	31.00	115.54
04-23	1,096,979	4.1	188	1,096,979	2.5	114	2,261,524	0.20	19	384.43	29.80	114.56
04-24	1,093,403			1,093,403	2.4	109	2,386,608	0.20	20	394.06	29.85	117.63
04-25	1,092,313			1,092,313			2,437,002	0.20	20	.00	29.40	.00
04-26	1,078,848	3.8	171	1,078,848			2,355,531	0.20	20	.00	29.50	.00
04-27	1,102,605			1,102,605	2.9	133	2,390,849	0.20	20	396.28	29.45	116.70
04-28	1,084,890	3.8	172	1,084,890	2.5	113	2,220,960	0.20	19	498.99	28.90	144.21
04-29	1,109,793			1,109,793	2.6	120	2,386,274	0.20	20	451.45	29.25	132.05
04-30	1,103,569	5.8	267	1,103,569	2.7	124	2,294,482	0.20	19	506.29	28.75	145.56
avg	1,117,640	4.5	211	1,117,640	2.4	114	1,961,190	0.24	19	317.03	29.17	92.26
sum	33,529,209		6,346	33,529,209		3,419	58,835,696		597.01	9,510.82		2,774.31

Sludge and Biosolids Totals are calculated using the total flow and average %TS values since there are not values for every day of the month.

Note: The Tons and Dry Tons calculations of the summary totals is computed by using the following equations:
Tons = Monthly Total Gallons*(8.34 lbs/Gallon)*(1Ton/2000 lbs)*(Avg %TS/100), Dry Tons = (Monthly Total Wet Tons)*(%TS/100)

POINT LOMA WASTEWATER TREATMENT PLANT
METROBIOSOLIDS CENTER SOLIDS REPORT

01-MAY-2020 TO 31-MAY-2020

Date	Pt. Loma Raw sludge Gallons	%TS	Tons	Pt. Loma Digested Biosolids Gallons	%TS	Tons	MBC Combined Centrate Gallons	%TS	Tons	MBC Dewatered Biosolids Hauled Wet Tons	%TS	Dry Tons
05-01	1,076,641			1,076,641	2.3	103	2,179,033	0.20	18	498.52	30.35	151.30
05-02	1,055,756			1,055,756			2,183,435	0.20	18	.00	29.20	.00
05-03	1,143,017	3.8	181	1,143,017			2,252,866	0.20	19	.00	30.00	.00
05-04	1,084,587			1,084,587	2.4	109	2,291,588	0.20	19	473.09	29.25	138.38
05-05	1,004,814	4.0	168	1,004,814	2.3	96	2,119,929	0.20	18	503.33	29.65	149.24
05-06	1,085,230			1,085,230	2.3	104	2,148,129	0.20	18	475.25	29.10	138.30
05-07	1,087,282	4.0	181	1,087,282	2.3	104	2,184,738	0.20	18	448.32	28.15	126.20
05-08	1,097,941			1,097,941	2.3	105	2,269,778	0.20	19	472.25	29.20	137.90
05-09	1,032,554			1,032,554			2,163,376	0.20	18	.00	29.50	.00
05-10	1,088,268	4.2	191	1,088,268			2,168,832	0.30	27	.00	29.40	.00
05-11	1,105,993			1,105,993	2.3	106	2,232,008	0.20	19	424.06	28.20	119.58
05-12	1,089,798	4.0	182	1,089,798	2.3	105	2,202,739	0.20	18	479.60	29.10	139.56
05-13	1,077,828			1,077,828	2.3	103	2,083,629	0.20	17	475.41	28.95	137.63
05-14	698,077	4.1	119	698,077	2.4	70	2,081,784	0.20	17	477.11	28.25	134.78
05-15	1,200,425			1,200,425	2.3	115	2,161,309	0.20	18	379.80	28.50	108.24
05-16	1,205,007			1,205,007			2,316,462	0.20	19	.00	28.80	.00
05-17	1,110,259	3.9	181	1,110,259			2,246,119	0.25	23	.00	28.65	.00
05-18	1,065,803			1,065,803	2.6	116	2,149,361	0.30	27	426.10	28.50	121.44
05-19	780,496	4.1	133	780,496	2.3	75	2,066,000	0.20	17	402.66	28.00	112.74
05-20	1,189,559			1,189,559	2.5	124	2,145,822	0.20	18	479.19	27.95	133.93
05-21	1,344,305	3.8	213	1,344,305	2.3	129	2,222,092	0.20	19	576.81	28.60	164.97
05-22	1,081,129			1,081,129	2.3	104	2,285,246	0.20	19	445.28	28.70	127.80
05-23	1,071,556			1,071,556			2,304,945	0.20	19	.00	28.65	.00
05-24	1,064,238			1,064,238			2,018,021	0.20	17	.00	28.00	.00
05-25	1,070,771			1,070,771			1,920,106	0.30	24	.00	28.20	.00
05-26	739,350	4.0	123	739,350	2.2	68	2,209,171	0.30	28	468.55	27.65	129.55
05-27	1,154,140			1,154,140	2.3	111	2,321,015	0.30	29	545.92	27.45	149.86
05-28	1,128,975	3.8	179	1,128,975	2.3	108	2,310,776	0.30	29	451.89	26.90	121.56
05-29	1,172,655			1,172,655	2.3	113	2,210,621	0.30	28	400.80	27.60	110.62
05-30	1,241,868			1,241,868			2,235,495	0.30	28	373.33	27.70	103.41
05-31	1,192,898	3.7	184	1,192,898			2,237,706	0.30	28	.00	28.15	.00
avg	1,081,975	4.0	170	1,081,975	2.3	103	2,191,036	0.23	21	312.17	28.59	88.94
sum	33,541,220		5,525	33,541,220		3,259	67,922,131		653.27	9,677.27		2,766.76

Sludge and Biosolids Totals are calculated using the total flow and average %TS values since there are not values for every day of the month.

Note: The Tons and Dry Tons calculations of the summary totals is computed by using the following equations:
Tons = Monthly Total Gallons*(8.34 lbs/Gallon)*(1Ton/2000 lbs)*(Avg %TS/100), Dry Tons = (Monthly Total Wet Tons)*(%TS/100)

POINT LOMA WASTEWATER TREATMENT PLANT
METROBIOSOLIDS CENTER SOLIDS REPORT

01-JUN-2020 TO 30-JUN-2020

Date	Pt. Loma Raw sludge Gallons	%TS	Tons	Pt. Loma Digested Biosolids Gallons	%TS	Tons	MBC Combined Centrate Gallons	%TS	Tons	MBC Dewatered Biosolids Hauled Wet Tons	%TS	Dry Tons
06-01	1,141,221			1,141,221	2.3	110	2,219,005	0.30	28	448.06	27.60	123.66
06-02	1,144,882	3.7	177	1,144,882	2.1	100	2,172,629	0.20	18	452.22	27.55	124.59
06-03	1,141,643			1,141,643	2.2	105	2,116,610	0.20	18	500.57	26.80	134.15
06-04	1,098,363	4.0	183	1,098,363	2.2	101	2,188,192	0.30	27	501.51	26.30	131.90
06-05	1,134,222			1,134,222	2.5	118	2,337,395	0.20	19	495.03	27.80	137.62
06-06	1,132,563			1,132,563			2,256,922	0.30	28	173.75	28.30	49.17
06-07	1,129,100	4.0	188	1,129,100			2,229,335	0.20	19	.00	27.75	.00
06-08	1,128,948			1,128,948	2.6	122	2,236,068	0.30	28	471.07	28.20	132.84
06-09	1,169,969	4.1	200	1,169,969	2.4	117	2,145,608	0.30	27	542.78	27.80	150.89
06-10	1,116,219			1,116,219	2.5	116	2,269,703	0.30	28	501.02	27.00	135.28
06-11	1,282,744	3.9	209	1,282,744	2.6	139	1,958,071	0.30	24	576.69	27.45	158.30
06-12	1,999,412			1,999,412	2.3	192	2,485,968	0.30	31	495.85	26.95	133.63
06-13	1,239,206			1,239,206			2,373,787	0.30	30	.00	27.30	.00
06-14	1,127,051	3.9	183	1,127,051			2,171,352	0.20	18	.00	26.15	.00
06-15	1,169,329			1,169,329	2.5	122	2,320,128	0.30	29	502.39	27.25	136.90
06-16	1,105,773	3.9	180	1,105,773	2.3	106	2,093,331	0.30	26	477.42	27.45	131.05
06-17	1,164,855			1,164,855	2.5	121	2,203,828	0.30	28	421.17	27.45	115.61
06-18	998,455	4.2	175	998,455	2.2	92	1,597,010	0.30	20	395.02	27.65	109.22
06-19	1,321,662			1,321,662	2.5	138	2,416,286	0.30	30	370.72	28.55	105.84
06-20	1,289,332			1,289,332			2,339,988	0.30	29	.00	27.40	.00
06-21	1,176,288	4.1	201	1,176,288			2,351,058	0.20	20	.00	27.50	.00
06-22	1,177,605			1,177,605	2.6	128	1,806,273	0.20	15	496.26	28.60	141.93
06-23	1,172,422	4.0	196	1,172,422	2.3	112	2,149,625	0.20	18	546.19	27.90	152.39
06-24	1,173,986			1,173,986	2.3	113	2,515,898	0.30	31	474.93	27.45	130.37
06-25	1,173,190	4.1	201	1,173,190	2.1	103	2,341,528	0.20	20	544.05	27.15	147.71
06-26	1,178,248			1,178,248	2.4	118	2,164,156	0.30	27	400.61	28.25	113.17
06-27	1,177,003			1,177,003			2,360,848	0.30	30	.00	26.40	.00
06-28	1,157,588	4.2	203	1,157,588			2,203,436	0.20	18	.00	27.30	.00
06-29	1,160,769			1,160,769	2.5	121	2,262,897	0.25	24	477.45	26.60	127.00
06-30	1,152,805	4.2	202	1,152,805	2.4	115	2,235,305	0.20	19	524.14	28.20	147.81
avg	1,191,162	4.0	192	1,191,162	2.4	119	2,217,408	0.26	24	359.63	27.47	99.03
sum	35,734,853		5,995	35,734,853		3,542	66,522,240		725.86	10,788.90		2,963.53

Sludge and Biosolids Totals are calculated using the total flow and average %TS values since there are not values for every day of the month.

Note: The Tons and Dry Tons calculations of the summary totals is computed by using the following equations:
Tons = Monthly Total Gallons*(8.34 lbs/Gallon)*(1Ton/2000 lbs)*(Avg %TS/100), Dry Tons = (Monthly Total Wet Tons)*(%TS/100)

POINT LOMA WASTEWATER TREATMENT PLANT
METROBIOSOLIDS CENTER SOLIDS REPORT

01-JUL-2020 TO 31-JUL-2020

Date	Pt. Loma Raw sludge Gallons	%TS	Tons	Pt. Loma Digested Biosolids Gallons	%TS	Tons	MBC Combined Centrate Gallons	%TS	Tons	MBC Dewatered Biosolids Hauled Wet Tons	%TS	Dry Tons
07-01	1,201,866			1,201,866	2.1	105	2,251,205	0.20	19	465.27	27.30	127.02
07-02	918,406			918,406	2.2	84	2,036,493	0.30	25	497.81	26.40	131.42
07-03	1,328,864			1,328,864			2,339,073	0.30	29	.00	27.00	.00
07-04	1,230,281			1,230,281			2,369,977	0.30	30	.00	27.10	.00
07-05	1,168,309	3.8	185	1,168,309			2,242,285	0.30	28	.00	26.75	.00
07-06	1,139,900			1,139,900	2.6	124	2,207,056	0.30	28	495.18	26.55	131.47
07-07	1,172,437	4.0	196	1,172,437	2.3	112	2,249,682	0.30	28	502.85	26.85	135.02
07-08	1,181,771			1,181,771	2.5	123	2,384,497	0.30	30	448.92	27.25	122.33
07-09	1,176,971	3.9	191	1,176,971	2.3	113	2,275,073	0.20	19	495.49	27.05	134.03
07-10	1,181,602			1,181,602	2.3	113	2,228,182	0.30	28	492.53	26.65	131.26
07-11	1,175,488			1,175,488			2,236,604	0.30	28	174.15	26.70	46.50
07-12	1,176,693	3.9	191	1,176,693			2,255,724	0.30	28	.00	26.35	.00
07-13	1,164,455			1,164,455	2.7	131	2,348,094	0.20	20	450.07	28.05	126.24
07-14	1,169,347	3.8	185	1,169,347	2.3	112	2,287,558	0.20	19	435.89	25.45	110.93
07-15	1,173,853			1,173,853	2.3	113	2,478,709	0.30	31	421.88	26.00	109.69
07-16	1,182,920	3.9	192	1,182,920	2.2	109	2,112,500	0.30	26	472.57	27.15	128.30
07-17	1,243,904			1,243,904	2.3	119	2,512,543	0.30	31	391.29	25.75	100.76
07-18	1,283,870			1,283,870			2,391,386	0.30	30	241.13	27.20	65.59
07-19	1,243,356	3.7	192	1,243,356			2,364,817	0.30	30	.00	26.60	.00
07-20	1,167,759			1,167,759	2.6	127	2,180,753	0.30	27	422.39	26.85	113.41
07-21	1,178,694	4.1	202	1,178,694	2.4	118	2,196,982	0.30	27	422.63	26.50	112.00
07-22	1,181,306			1,181,306	2.6	128	2,299,087	0.30	29	466.69	26.10	121.81
07-23	1,187,005	4.1	203	1,187,005	2.4	119	2,289,207	0.20	19	466.98	26.70	124.68
07-24	1,226,890			1,226,890	2.2	113	2,316,702	0.30	29	491.92	26.05	128.15
07-25	1,156,891			1,156,891			2,258,178	0.30	28	297.63	26.10	77.68
07-26	1,169,300	3.7	180	1,169,300			2,177,170	0.30	27	.00	26.65	.00
07-27	1,164,454			1,164,454	2.4	117	2,152,927	0.20	18	491.71	26.10	128.34
07-28	1,165,581	3.9	190	1,165,581	2.2	107	2,238,523	0.30	28	515.58	25.85	133.28
07-29	1,188,769			1,188,769	2.3	114	1,879,015	0.30	24	610.67	25.75	157.25
07-30	1,167,867	3.8	185	1,167,867	2.2	107	2,256,099	0.30	28	589.82	25.75	151.88
07-31	1,187,086			1,187,086	2.3	114	2,183,056	0.30	27	511.55	26.50	135.56
avg	1,182,448	3.9	191	1,182,448	2.4	115	2,258,037	0.28	26	363.63	26.55	96.28
sum	36,655,895		5,936	36,655,895		3,592	69,999,157		819.19	11,272.60		2,992.88

Sludge and Biosolids Totals are calculated using the total flow and average %TS values since there are not values for every day of the month.

Note: The Tons and Dry Tons calculations of the summary totals is computed by using the following equations:
Tons = Monthly Total Gallons*(8.34 lbs/Gallon)*(1Ton/2000 lbs)*(Avg %TS/100), Dry Tons = (Monthly Total Wet Tons)*(%TS/100)

POINT LOMA WASTEWATER TREATMENT PLANT
METROBIOSOLIDS CENTER SOLIDS REPORT

01-JUL-2020 TO 31-JUL-2020

Date	Pt. Loma Raw sludge Gallons	%TS	Tons	Pt. Loma Digested Biosolids Gallons	%TS	Tons	MBC Combined Centrate Gallons	%TS	Tons	MBC Dewatered Biosolids Hauled Wet Tons	%TS	Dry Tons
07-01	1,201,866			1,201,866	2.1	105	2,251,205	0.20	19	465.27	27.30	127.02
07-02	918,406			918,406	2.2	84	2,036,493	0.30	25	497.81	26.40	131.42
07-03	1,328,864			1,328,864			2,339,073	0.30	29	.00	27.00	.00
07-04	1,230,281			1,230,281			2,369,977	0.30	30	.00	27.10	.00
07-05	1,168,309	3.8	185	1,168,309			2,242,285	0.30	28	.00	26.75	.00
07-06	1,139,900			1,139,900	2.6	124	2,207,056	0.30	28	495.18	26.55	131.47
07-07	1,172,437	4.0	196	1,172,437	2.3	112	2,249,682	0.30	28	502.85	26.85	135.02
07-08	1,181,771			1,181,771	2.5	123	2,384,497	0.30	30	448.92	27.25	122.33
07-09	1,176,971	3.9	191	1,176,971	2.3	113	2,275,073	0.20	19	495.49	27.05	134.03
07-10	1,181,602			1,181,602	2.3	113	2,228,182	0.30	28	492.53	26.65	131.26
07-11	1,175,488			1,175,488			2,236,604	0.30	28	174.15	26.70	46.50
07-12	1,176,693	3.9	191	1,176,693			2,255,724	0.30	28	.00	26.35	.00
07-13	1,164,455			1,164,455	2.7	131	2,348,094	0.20	20	450.07	28.05	126.24
07-14	1,169,347	3.8	185	1,169,347	2.3	112	2,287,558	0.20	19	435.89	25.45	110.93
07-15	1,173,853			1,173,853	2.3	113	2,478,709	0.30	31	421.88	26.00	109.69
07-16	1,182,920	3.9	192	1,182,920	2.2	109	2,112,500	0.30	26	472.57	27.15	128.30
07-17	1,243,904			1,243,904	2.3	119	2,512,543	0.30	31	391.29	25.75	100.76
07-18	1,283,870			1,283,870			2,391,386	0.30	30	241.13	27.20	65.59
07-19	1,243,356	3.7	192	1,243,356			2,364,817	0.30	30	.00	26.60	.00
07-20	1,167,759			1,167,759	2.6	127	2,180,753	0.30	27	422.39	26.85	113.41
07-21	1,178,694	4.1	202	1,178,694	2.4	118	2,196,982	0.30	27	422.63	26.50	112.00
07-22	1,181,306			1,181,306	2.6	128	2,299,087	0.30	29	466.69	26.10	121.81
07-23	1,187,005	4.1	203	1,187,005	2.4	119	2,289,207	0.20	19	466.98	26.70	124.68
07-24	1,226,890			1,226,890	2.2	113	2,316,702	0.30	29	491.92	26.05	128.15
07-25	1,156,891			1,156,891			2,258,178	0.30	28	297.63	26.10	77.68
07-26	1,169,300	3.7	180	1,169,300			2,177,170	0.30	27	.00	26.65	.00
07-27	1,164,454			1,164,454	2.4	117	2,152,927	0.20	18	491.71	26.10	128.34
07-28	1,165,581	3.9	190	1,165,581	2.2	107	2,238,523	0.30	28	515.58	25.85	133.28
07-29	1,188,769			1,188,769	2.3	114	1,879,015	0.30	24	610.67	25.75	157.25
07-30	1,167,867	3.8	185	1,167,867	2.2	107	2,256,099	0.30	28	589.82	25.75	151.88
07-31	1,187,086			1,187,086	2.3	114	2,183,056	0.30	27	511.55	26.50	135.56
avg	1,182,448	3.9	191	1,182,448	2.4	115	2,258,037	0.28	26	363.63	26.55	96.28
sum	36,655,895		5,936	36,655,895		3,592	69,999,157		819.19	11,272.60		2,992.88

Sludge and Biosolids Totals are calculated using the total flow and average %TS values since there are not values for every day of the month.

Note: The Tons and Dry Tons calculations of the summary totals is computed by using the following equations:
Tons = Monthly Total Gallons*(8.34 lbs/Gallon)*(1Ton/2000 lbs)*(Avg %TS/100), Dry Tons = (Monthly Total Wet Tons)*(%TS/100)

POINT LOMA WASTEWATER TREATMENT PLANT
METROBIOSOLIDS CENTER SOLIDS REPORT

01-AUG-2020 TO 31-AUG-2020

Date	Pt. Loma Raw sludge Gallons	%TS	Tons	Pt. Loma Digested Biosolids Gallons	%TS	Tons	MBC Combined Centrate Gallons	%TS	Tons	MBC Dewatered Biosolids Hauled Wet Tons	%TS	Dry Tons
08-01	1,163,483			1,163,483			2,246,176	0.30	28	.00	27.40	.00
08-02	1,172,084	4.3	210	1,172,084			2,145,557	0.30	27	.00	27.90	.00
08-03	1,130,005			1,130,005	2.3	108	2,203,980	0.30	28	542.95	26.70	144.97
08-04	1,132,133	4.1	194	1,132,133	2.3	109	2,165,435	0.30	27	533.75	27.45	146.51
08-05	1,186,156			1,186,156	2.4	119	2,241,873	0.30	28	370.63	26.35	97.66
08-06	1,219,794	4.1	209	1,219,794	2.2	112	2,238,347	0.30	28	392.65	26.10	102.48
08-07	1,331,677			1,331,677	2.2	122	1,805,788	0.30	23	363.25	26.65	96.81
08-08	1,310,492			1,310,492			1,223,550	0.20	10	.00	25.60	.00
08-09	1,192,875	3.6	179	1,192,875			1,110,109	0.20	9	.00	26.13*	.00
08-10	1,144,799			1,144,799	2.3	110	2,104,913	0.40	35	336.48	25.20	84.79
08-11	1,130,527	3.7	174	1,130,527	2.2	104	2,351,877	0.30	29	343.58	25.70	88.30
08-12	1,160,883			1,160,883	2.3	111	2,156,653	0.30	27	337.86	27.10	91.56
08-13	1,264,873	4.0	211	1,264,873	2.3	121	2,252,908	0.30	28	246.48	27.15	66.92
08-14	1,300,793			1,300,793	2.3	125	2,386,395	0.30	30	294.81	27.45	80.93
08-15	1,251,463			1,251,463			2,386,053	0.30	30	.00	27.30	.00
08-16	1,090,397	3.6	164	1,090,397			2,257,736	0.30	28	.00	27.75	.00
08-17	1,093,309			1,093,309	2.6	119	2,138,638	0.30	27	441.95	26.95	119.11
08-18	1,045,298	4.2	183	1,045,298	2.2	96	2,175,572	0.30	27	486.05	28.35	137.80
08-19	1,057,945			1,057,945	2.4	106	2,084,784	0.30	26	489.53	27.80	136.09
08-20	687,864	4.5	129	687,864	2.4	69	1,960,108	0.20	16	485.06	26.10	126.60
08-21	1,145,613			1,145,613	2.3	110	2,261,240	0.30	28	482.91	26.55	128.21
08-22	1,146,453			1,146,453			2,373,878	0.30	30	.00	27.50	.00
08-23	1,057,335	3.9	172	1,057,335			2,371,143	0.30	30	.00	26.60	.00
08-24	1,019,091			1,019,091	2.4	102	2,340,012	0.30	29	491.74	26.55	130.56
08-25	975,134	3.9	159	975,134	2.5	102	2,180,085	0.40	36	494.03	26.35	130.18
08-26	992,154			992,154	2.4	99	2,529,111	0.30	32	493.41	27.70	136.67
08-27	1,122,621	4.1	192	1,122,621	2.2	103	2,538,236	0.30	32	464.15	27.70	128.57
08-28	1,098,214			1,098,214	2.5	115	2,496,299	0.30	31	461.91	27.70	127.95
08-29	1,053,422			1,053,422			2,571,115	0.30	32	.00	27.70	.00
08-30	1,021,989	3.8	162	1,021,989			2,496,836	0.30	31	.00	27.05	.00
08-31	970,900			970,900	2.3	93	2,350,454	0.30	29	465.04	26.80	124.63
avg	1,118,380	4.0	180	1,118,380	2.3	107	2,198,221	0.30	27	290.91	26.95	78.30
sum	34,669,776		5,761	34,669,776		3,373	68,144,861		843.33	9,018.22		2,430.05

*No sample taken 08/09/2020. %Ts value used to calculate dry tons is the average of previous 2 days.

Sludge and Biosolids Totals are calculated using the total flow and average %TS values since there are not values for every day of the month.

Note: The Tons and Dry Tons calculations of the summary totals is computed by using the following equations:
Tons = Monthly Total Gallons*(8.34 lbs/Gallon)*(1Ton/2000 lbs)*(Avg %TS/100), Dry Tons = (Monthly Total Wet Tons)*(%TS/100)

POINT LOMA WASTEWATER TREATMENT PLANT
METROBIOSOLIDS CENTER SOLIDS REPORT

01-Sep-2020 To 30-Sep-2020

Date	Pt. Loma Raw sludge Gallons	%TS	Tons	Pt. Loma Digested Biosolids Gallons	%TS	Tons	MBC Combined Centrate Gallons	%TS	Tons	MBC Dewatered Biosolids Hauled Wet Tons	%TS	Dry Tons
09-01	1,043,701	4.0	174	1,043,701	2.3	100	2,464,071	0.30	31	512.43	27.15	139.12
09-02	608,292			608,292	2.3	58	2,266,560	0.40	38	538.64	26.95	145.16
09-03	1,077,257	4.0	180	1,077,257	2.3	103	2,263,312	0.30	28	535.31	27.25	145.87
09-04	1,095,314			1,095,314	2.5	114	2,478,329	0.30	31	537.59	27.00	145.15
09-05	1,100,739			1,100,739			2,537,211	0.30	32	.00	27.10	.00
09-06	1,009,189			1,009,189			2,218,627	0.30	28	.00	26.20	.00
09-07	975,995			975,995			1,897,795	0.30	24	.00	26.30	.00
09-08	945,924	4.0	158	945,924	2.4	95	2,257,954	0.30	28	568.25	27.45	155.98
09-09	1,046,237			1,046,237	2.3	100	2,644,739	0.50	55	614.13	26.80	164.59
09-10	1,104,750	3.9	180	1,104,750	2.5	115	2,669,314	0.30	33	618.65	27.05	167.34
09-11	1,094,942			1,094,942	2.6	119	2,645,059	0.30	33	586.07	26.95	157.95
09-12	1,055,096			1,055,096			2,637,860	0.30	33	369.18	26.40	97.46
09-13	977,838	3.8	155	977,838			2,382,360	0.30	30	.00	26.35	.00
09-14	1,082,141			1,082,141	2.7	122	2,352,472	0.30	29	593.65	26.40	156.72
09-15	1,025,134	3.7	158	1,025,134	2.2	94	2,379,538	0.30	30	561.00	27.75	155.68
09-16	990,662			990,662	2.5	103	2,332,041	0.30	29	649.04	27.10	175.89
09-17	1,072,483	3.9	174	1,072,483	2.5	112	2,418,887	0.30	30	595.39	26.90	160.16
09-18	1,044,046			1,044,046	2.2	96	2,427,290	0.30	30	586.04	26.10	152.96
09-19	979,075			979,075			2,405,867	0.30	30	.00	28.30	.00
09-20	945,308	3.9	154	945,308			2,334,239	0.30	29	.00	26.00	.00
09-21	1,092,186			1,092,186	2.3	105	2,530,494	0.30	32	589.40	26.85	158.25
09-22	1,115,231	4.0	186	1,115,231	2.4	112	2,470,638	0.20	21	512.07	26.90	137.75
09-23	1,117,283			1,117,283	2.4	112	2,086,488	0.30	26	564.01	27.30	153.97
09-24	700,937	3.9	114	700,937	2.4	70	2,303,425	0.30	29	549.01	26.85	147.41
09-25	1,255,209			1,255,209	2.4	126	2,251,441	0.30	28	512.28	27.50	140.88
09-26	1,242,381			1,242,381			2,425,310	0.30	30	.00	26.90	.00
09-27	1,213,408	3.9	197	1,213,408			2,387,421	0.30	30	.00	26.00	.00
09-28	1,273,268			1,273,268	2.3	122	2,398,283	0.30	30	470.27	26.35	123.92
09-29	1,273,386	3.8	202	1,273,386	2.4	127	2,414,171	0.30	30	464.79	27.75	128.98
09-30	1,272,130			1,272,130	2.4	127	2,027,081	0.40	34	468.25	26.65	124.79
avg	1,060,985	3.9	5,176	1,060,985	2.4	3,179	2,376,943	0.31	31	399.85	26.89	107.87
sum	31,829,542			31,829,542			71,308,277		921.80	11,995.45		3,224.98

Sludge and Biosolids Totals are calculated using the total flow and average %TS values since there are not values for every day of the month.

Note: The Tons and Dry Tons calculations of the summary totals is computed by using the following equations:
Tons = Monthly Total Gallons*(8.34 lbs/Gallon)*(1Ton/2000 lbs)*(Avg %TS/100), Dry Tons = (Monthly Total Wet Tons)*(%TS/100)

POINT LOMA WASTEWATER TREATMENT PLANT
METROBIOSOLIDS CENTER SOLIDS REPORT

01-OCT-2020 TO 31-OCT-2020

Date	Pt. Loma Raw sludge Gallons	%TS	Tons	Pt. Loma Digested Biosolids Gallons	%TS	Tons	MBC Combined Centrate Gallons	%TS	Tons	MBC Dewatered Biosolids Hauled Wet Tons	%TS	Dry Tons
10-01	1,256,639	3.7	194	1,256,639	2.3	121	2,072,488	0.30	26	543.37	25.65	139.37
10-02	1,188,528			1,188,528	2.3	114	2,340,243	0.40	39	464.82	27.20	126.43
10-03	1,147,775			1,147,775			2,293,989	0.30	29	.00	26.40	.00
10-04	1,196,384	4.0	200	1,196,384			2,266,832	0.30	28	.00	26.20	.00
10-05	1,134,769			1,134,769	2.6	123	2,143,866	0.30	27	475.32	27.25	129.52
10-06	1,005,406	4.2	176	1,005,406	2.3	96	1,684,845	0.30	21	589.01	26.60	156.68
10-07	1,105,856			1,105,856	2.7	125	1,581,880	0.30	20	631.29	27.15	171.40
10-08	1,271,507	3.8	202	1,271,507	2.4	127	2,198,767	0.40	37	536.14	27.15	145.56
10-09	1,284,926			1,284,926	2.6	139	2,485,504	0.40	41	510.64	26.95	137.62
10-10	1,287,648			1,287,648			2,394,976	0.30	30	.00	26.50	.00
10-11	1,206,442	3.8	191	1,206,442			2,455,270	0.30	31	.00	26.00	.00
10-12	1,090,041			1,090,041	2.3	105	2,341,853	0.30	29	569.68	26.40	150.40
10-13	996,139	4.2	175	996,139	1.6	67	2,046,679	0.30	26	560.20	25.75	144.25
10-14	1,229,267			1,229,267	2.4	123	2,278,770	0.30	29	535.37	25.85	138.39
10-15	1,280,888	3.7	198	1,280,888	2.4	128	2,336,489	0.30	29	514.33	26.60	136.81
10-16	1,284,164			1,284,164	2.4	129	2,464,720	0.30	31	558.78	26.80	149.75
10-17	1,240,388			1,240,388			2,458,046	0.30	31	.00	26.50	.00
10-18	1,140,632	3.8	181	1,140,632			2,199,947	0.30	28	.00	26.40	.00
10-19	1,161,605			1,161,605	2.3	111	2,226,917	0.30	28	534.82	25.95	138.79
10-20	1,209,938	4.0	202	1,209,938	2.4	121	2,265,229	0.40	38	509.11	26.65	135.68
10-21	1,276,390			1,276,390	2.4	128	2,306,438	0.30	29	582.18	26.75	155.73
10-22	1,276,414	3.8	202	1,276,414	2.2	117	2,200,712	0.30	28	539.47	26.95	145.39
10-23	1,200,836			1,200,836	2.3	115	2,384,729	0.30	30	535.06	26.35	140.99
10-24	1,137,554			1,137,554			2,264,793	0.30	28	.00	27.90	.00
10-25	1,138,301	3.9	185	1,138,301			2,187,085	0.30	27	.00	27.05	.00
10-26	1,163,446			1,163,446	2.3	112	2,167,139	0.30	27	534.33	26.90	143.73
10-27	1,243,328	3.8	197	1,243,328	2.5	130	2,336,625	0.40	39	536.91	26.90	144.43
10-28	1,221,323			1,221,323	2.3	117	2,382,947	0.30	30	533.44	26.15	139.49
10-29	1,128,651	3.9	184	1,128,651	2.4	113	2,292,969	0.30	29	513.56	26.90	138.15
10-30	1,127,834			1,127,834	2.4	113	2,270,960	0.30	28	484.74	28.45	137.91
10-31	1,240,845			1,240,845			2,221,613	0.30	28	.00	27.70	.00
avg	1,189,479	3.9	5985	1,189,479	2.4	3620	2,243,655	0.32	30	380.41	26.71	101.50
sum	36,873,864			36,873,864			69,553,320		916.89	11,792.57		3,149.57

Sludge and Biosolids Totals are calculated using the total flow and average %TS values since there are not values for every day of the month.

Note: The Tons and Dry Tons calculations of the summary totals is computed by using the following equations:
Tons = Monthly Total Gallons*(8.34 lbs/Gallon)*(1Ton/2000 lbs)*(Avg %TS/100), Dry Tons = (Monthly Total Wet Tons)*(%TS/100)

POINT LOMA WASTEWATER TREATMENT PLANT
METROBIOSOLIDS CENTER SOLIDS REPORT

01-NOV-2020 TO 30-NOV-2020

Date	Pt. Loma Raw sludge Gallons	%TS	Tons	Pt. Loma Digested Biosolids Gallons	%TS	Tons	MBC Combined Centrate Gallons	%TS	Tons	MBC Dewatered Biosolids Hauled Wet Tons	%TS	Dry Tons
11-01	1,230,063	3.7	190	1,230,063			2,329,393	0.30	29	.00	27.55	.00
11-02	1,130,732			1,130,732	2.4	113	2,411,017	0.30	30	503.07	26.60	133.82
11-03	1,110,464	3.9	181	1,110,464	2.3	107	2,233,450	0.30	28	466.10	27.45	127.94
11-04	1,128,437			1,128,437	2.4	113	2,203,766	0.30	28	515.13	26.85	138.31
11-05	1,133,778	3.9	184	1,133,778	2.4	114	2,299,217	0.30	29	539.80	26.40	142.51
11-06	1,144,196			1,144,196	2.3	110	2,376,789	0.30	30	442.32	27.35	120.97
11-07	1,137,746			1,137,746			2,094,289	0.30	26	.00	27.00	.00
11-08	1,143,380	3.9	186	1,143,380			2,360,983	0.30	30	.00	27.05	.00
11-09	1,249,867			1,249,867	2.3	120	2,184,931	0.30	27	564.46	26.15	147.61
11-10	1,269,129			1,269,129	2.3	122	2,305,580	0.30	29	589.50	28.10	165.65
11-11	1,282,060			1,282,060			2,295,893	0.30	29	.00	27.40	.00
11-12	992,864	4.0	166	992,864	2.3	95	2,385,123	0.20	20	615.56	26.70	164.35
11-13	1,170,185			1,170,185	2.2	107	2,312,112	0.30	29	564.51	27.85	157.22
11-14	1,285,590			1,285,590			2,391,947	0.30	30	.00	26.90	.00
11-15	1,153,103	3.8	183	1,153,103			2,322,554	0.25	24	.00	27.70	.00
11-16	1,171,332			1,171,332	2.3	112	2,163,012	0.30	27	462.19	27.25	125.95
11-17	1,238,066	4.1	212	1,238,066	2.3	119	2,410,026	0.30	30	515.63	27.50	141.80
11-18	1,298,039			1,298,039	2.3	125	2,380,375	0.30	30	496.91	28.45	141.37
11-19	1,306,406	3.8	207	1,306,406	2.4	131	2,381,781	0.30	30	495.32	27.10	134.23
11-20	1,304,010			1,304,010	2.2	120	2,430,965	0.30	30	458.55	27.90	127.94
11-21	1,307,878			1,307,878			2,384,413	0.30	30	.00	28.00	.00
11-22	1,255,324	3.6	188	1,255,324			2,224,376	0.30	28	.00	28.50	.00
11-23	1,174,639			1,174,639	2.6	127	2,304,856	0.30	29	520.72	28.10	146.32
11-24	1,144,164			1,144,164	2.2	105	2,422,563	0.30	30	529.74	26.65	141.18
11-25	1,159,088			1,159,088			2,413,026	0.30	30	545.19	27.00	147.20
11-26	1,148,148			1,148,148			2,119,182	0.30	27	.00	26.60	.00
11-27	1,133,065			1,133,065	2.2	104	2,130,552	0.30	27	564.06	26.50	149.48
11-28	1,136,097			1,136,097			2,181,121	0.30	27	364.37	27.40	99.84
11-29	1,134,889	3.5	166	1,134,889			2,069,298	0.30	26	.00	26.95	.00
11-30	1,137,180			1,137,180	2.3	109	2,334,598	0.30	29	494.63	26.50	131.08
avg	1,186,997	3.8	186	1,186,997	2.3	114	2,295,240	0.30	28	341.59	27.25	92.83
sum	35,609,919		5,672	35,609,919		3,440	68,857,188		847.05	10,247.76		2,792.34

Sludge and Biosolids Totals are calculated using the total flow and average %TS values since there are not values for every day of the month.

Note: The Tons and Dry Tons calculations of the summary totals is computed by using the following equations:
Tons = Monthly Total Gallons*(8.34 lbs/Gallon)*(1Ton/2000 lbs)*(Avg %TS/100), Dry Tons = (Monthly Total Wet Tons)*(%TS/100)

POINT LOMA WASTEWATER TREATMENT PLANT
METROBIOSOLIDS CENTER SOLIDS REPORT

01-DEC-2020 TO 31-DEC-2020

Date	Pt. Loma Raw sludge Gallons	%TS	Tons	Pt. Loma Digested Biosolids Gallons	%TS	Tons	MBC Combined Centrate Gallons	%TS	Tons	MBC Dewatered Biosolids Hauled Wet Tons	%TS	Dry Tons
12-01	972,053	4.1	166	972,053	2.3	93	2,235,449	0.20	19	515.30	25.60	131.92
12-02	1,269,008			1,269,008	2.2	116	2,331,792	0.30	29	491.02	27.20	133.56
12-03	1,243,852	3.7	192	1,243,852	2.1	109	2,353,708	0.30	29	397.23	25.60	101.69
12-04	1,273,337			1,273,337	2.2	117	2,434,502	0.30	30	580.30	27.55	159.87
12-05	1,294,425			1,294,425			2,239,284	0.30	28	.00	27.40	.00
12-06	1,215,253	3.9	198	1,215,253			2,336,440	0.30	29	.00	26.85	.00
12-07	1,250,151			1,250,151	2.3	120	2,084,893	0.30	26	589.16	28.90	170.27
12-08	1,206,256	3.7	186	1,206,256	2.2	111	2,430,268	0.30	30	530.61	27.80	147.51
12-09	1,187,790			1,187,790	2.2	109	1,863,612	0.30	23	536.82	28.00	150.31
12-10	1,264,426	3.8	200	1,264,426	2.2	116	2,337,465	0.30	29	558.05	27.70	154.58
12-11	1,184,404			1,184,404	2.2	109	2,085,697	0.30	26	605.55	28.05	169.86
12-12	1,150,526			1,150,526			2,068,668	0.30	26	.00	28.60	.00
12-13	1,129,352	3.9	184	1,129,352			2,085,331	0.30	26	.00	28.65	.00
12-14	1,133,370			1,133,370	2.2	104	1,859,932	0.30	23	484.74	28.15	136.45
12-15	1,130,572	3.9	184	1,130,572	2.2	104	2,213,791	0.30	28	484.15	28.45	137.74
12-16	1,189,387			1,189,387	2.1	104	2,207,006	0.30	28	488.33	29.45	143.81
12-17	1,236,664	3.8	196	1,236,664	2.0	103	2,352,951	0.30	29	456.20	28.30	129.10
12-18	1,120,059			1,120,059	2.2	103	2,348,502	0.30	29	503.07	30.10	151.42
12-19	1,157,093			1,157,093			2,199,412	0.30	28	.00	29.20	.00
12-20	1,139,466	3.5	166	1,139,466			2,252,350	0.25	23	.00	28.05	.00
12-21	1,225,062			1,225,062	2.2	112	2,222,291	0.30	28	487.18	29.80	145.18
12-22	1,248,636	3.5	182	1,248,636	2.2	115	2,365,206	0.30	30	554.05	28.50	157.90
12-23	1,282,577			1,282,577	2.2	118	2,293,732	0.30	29	561.98	28.10	157.92
12-24	1,292,665			1,292,665	2.2	119	2,362,447	0.30	30	483.41	28.60	138.26
12-25	1,267,376			1,267,376			2,424,245	0.30	30	.00	29.40	.00
12-26	1,295,640			1,295,640			2,410,707	0.30	30	.00	29.90	.00
12-27	1,287,369	3.5	188	1,287,369			2,386,794	0.30	30	.00	27.95	.00
12-28	1,286,413			1,286,413	2.7	145	2,312,885	0.30	29	516.62	28.30	146.20
12-29	1,281,247	3.9	208	1,281,247	2.2	118	2,555,473	0.30	32	522.17	28.70	149.86
12-30	1,288,672			1,288,672	2.5	134	2,418,746	0.30	30	561.71	29.30	164.58
12-31	1,294,074			1,294,074	2.1	113	2,409,909	0.30	30	507.72	28.50	144.70
avg	1,219,264	3.8	188	1,219,264	2.2	113	2,273,661	0.30	28	368.24	28.28	103.96
sum	37,797,175		5,937	37,797,175		3,503	70,483,488		867.53	11,415.37		3,228.16

Sludge and Biosolids Totals are calculated using the total flow and average %TS values since there are not values for every day of the month.

Note: The Tons and Dry Tons calculations of the summary totals is computed by using the following equations:
Tons = Monthly Total Gallons*(8.34 lbs/Gallon)*(1Ton/2000 lbs)*(Avg %TS/100), Dry Tons = (Monthly Total Wet Tons)*(%TS/100)

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Enclosure 5 Copies of Monthly Biosolids Use/Disposal Summary reports for 2020

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City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group		Landfilled	Beneficial Use												
			ADC	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application
				Cullison Farms YM-2				Rutgers Farms YM-6				Anderson Farms YM-8			
San Diego Landfill Systems		Otay Landfill	Otay Landfill/ADC	Field YM	Field YM	Field YM	Field YM	Field MA 7-2403	Field MA 7-1001	Field MA	Field MA	Field YM 8-13	Field YM	Field YM	Field YM
Landfill Disposal		San Diego Cnty.	San Diego Cnty.	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County
Beneficial Use		California	California	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona
January-20		Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids
Date	Day	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons
1/1/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/2/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	193.25	0.00	0.00	0.00
1/3/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	317.94	0.00	0.00	0.00
1/4/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/5/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/6/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	267.95	0.00	0.00	0.00
1/7/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	322.37	0.00	0.00	0.00
1/8/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/9/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/10/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/11/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/12/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/13/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/16/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/17/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/18/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/19/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/20/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/21/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	221.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	221.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/23/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	171.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	221.42	0.00	0.00	0.00	0.00	0.00	0.00
1/25/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	241.73	0.00	0.00	0.00	0.00	0.00	0.00
1/28/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	149.14	0.00	0.00	0.00	0.00	0.00	0.00
1/29/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	147.14	0.00	0.00	0.00	0.00	0.00	0.00
1/30/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.40	0.00	0.00	0.00	0.00	0.00	0.00
1/31/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	193.20	0.00	0.00	0.00	0.00	0.00	0.00
	Totals:	0.00	0.00	0.00	0.00	0.00	0.00	615.18	1,051.03	0.00	0.00	1,101.51	0.00	0.00	0.00

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems
Landfill Disposal
Beneficial Use
January-20

		Beneficial Use										
		Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application			
		Tule Ranch YM-J				Skouson Farms YM-9						
		Field YM J-5	Field YM	Field YM	Field YM	Field YM 9-49	Field YM9-53	Field YM 9-19	Field YM	Daily	Daily	Daily
		Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Totals	total	Totals
		Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	hauled	cake solids	hauled
		Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	wet	%	dry
Date	Day	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	tons		tons
1/1/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.95	0.00
1/2/2020	Thursday	300.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	494.22	28.95	143.08
1/3/2020	Friday	352.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	670.67	29.40	197.18
1/4/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.40	0.00
1/5/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.40	0.00
1/6/2020	Monday	299.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	567.45	30.40	172.50
1/7/2020	Tuesday	302.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	624.99	30.75	192.18
1/8/2020	Wednesday	301.32	0.00	0.00	0.00	220.06	0.00	0.00	0.00	521.38	30.55	159.28
1/9/2020	Thursday	202.46	0.00	0.00	0.00	145.90	0.00	0.00	0.00	348.36	30.15	105.03
1/10/2020	Friday	200.33	0.00	0.00	0.00	171.11	0.00	0.00	0.00	371.44	30.80	114.40
1/11/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.20	0.00
1/12/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.05	0.00
1/13/2020	Monday	299.59	0.00	0.00	0.00	171.52	71.97	0.00	0.00	543.08	29.60	160.75
1/14/2020	Tuesday	304.49	0.00	0.00	0.00	0.00	197.29	0.00	0.00	501.78	28.90	145.01
1/15/2020	Wednesday	299.89	0.00	0.00	0.00	0.00	220.15	0.00	0.00	520.04	29.60	153.93
1/16/2020	Thursday	150.73	0.00	0.00	0.00	0.00	0.00	147.89	0.00	298.62	29.75	88.84
1/17/2020	Friday	199.29	0.00	0.00	0.00	0.00	0.00	196.00	0.00	395.29	29.55	116.81
1/18/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.40	0.00
1/19/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.35	0.00
1/20/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.20	0.00
1/21/2020	Tuesday	250.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	472.86	30.05	142.09
1/22/2020	Wednesday	299.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	521.45	28.60	149.13
1/23/2020	Thursday	245.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	416.44	28.75	119.73
1/24/2020	Friday	323.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	545.11	29.90	162.99
1/25/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.50	0.00
1/26/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.80	0.00
1/27/2020	Monday	246.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	487.83	29.00	141.47
1/28/2020	Tuesday	275.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	424.82	29.80	126.60
1/29/2020	Wednesday	251.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	398.91	29.00	115.68
1/30/2020	Thursday	272.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	370.73	28.80	106.77
1/31/2020	Friday	297.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	490.21	29.30	143.63
	Totals:	5,676.07	0.00	0.00	0.00	708.59	489.41	343.89	0.00	9,985.68		2,953.35
											29.58	

Daily average wet tons produced:	322.12
Daily average dry tons produced:	95.39

Total tons, Landfilled:	0.00
Cost per ton:	$41.71
Total cost, Landfilled:	$0.00
Total tons, Beneficial use/ADC:	0.00
Cost per ton:	$52.01
Total cost, Beneficial use/ADC:	$0.00
Total tons, Beneficial use/Land App.:	9,985.68
Cost per ton:	$52.01
Total cost, Beneficial use/Land App.:	$519,355.22
Total cost:	$519,355.22

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

ADC - Alternative Daily Cover.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group		Landfilled	Beneficial Use												
		ADC	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application
			Cullison Farms YM-2				Harquahala Valley Farms YM-6				Anderson Farms YM-8			
San Diego Landfill Systems		Otay Landfill	Otay Landfill/ADC	Field YM	Field YM	Field YM	Field YM	Field MA 7-1002	Field MA 7-2404	Field MA 7-0901	Field MA 7-1006	Field YM	Field YM	Field YM	Field YM
Landfill Disposal		San Diego Cnty.	San Diego Cnty.	Yuma County	Yuma County	Yuma County	Yuma County	Maricopa County	Maricopa County	Maricopa County	Maricopa County	Yuma County	Yuma County	Yuma County	Yuma County
Beneficial Use		California	California	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona
February-20		Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids
Date	Day	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons
2/1/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/2/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/3/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	194.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/4/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	50.59	98.03	0.00	0.00	0.00	0.00	0.00	0.00
2/5/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	222.04	0.00	0.00	0.00	0.00	0.00	0.00
2/6/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	174.07	0.00	0.00	0.00	0.00	0.00	0.00
2/7/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.55	75.85	0.00	0.00	0.00	0.00	0.00
2/8/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/9/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/10/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	268.87	0.00	0.00	0.00	0.00	0.00
2/11/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74.19	0.00	0.00	0.00	0.00	0.00
2/12/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	171.75	0.00	0.00	0.00	0.00	0.00
2/13/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	24.38	0.00	147.87	0.00	0.00	0.00	0.00	0.00
2/14/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	190.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/15/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/16/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/17/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/18/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	221.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/19/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	98.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	24.75	0.00	0.00	146.61	0.00	0.00	0.00	0.00
2/21/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	123.11	0.00	0.00	0.00	0.00
2/22/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/23/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/24/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219.12	0.00	0.00	0.00	0.00
2/25/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	123.48	0.00	0.00	0.00	0.00
2/26/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	145.10	0.00	0.00	0.00	0.00
2/27/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	122.33	0.00	0.00	0.00	0.00
2/28/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	171.84	0.00	0.00	0.00	0.00
2/29/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Totals:	0.00	0.00	0.00	0.00	0.00	0.00	805.31	592.69	738.53	1,051.59	0.00	0.00	0.00	0.00

Monthly average % cake solids:

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems
Landfill Disposal
Beneficial Use
February-20

Date	Day	Land Application Tule Ranch YM-J Field YM J-5 Yuma County Arizona Biosolids Delivered, tons	Land Application Tule Ranch YM-J Field YM j-4 Yuma County Arizona Biosolids Delivered, tons	Land Application Tule Ranch YM-J Field YM Yuma County Arizona Biosolids Delivered, tons	Land Application Tule Ranch YM-J Field YM Yuma County Arizona Biosolids Delivered, tons	Land Application Skouson YM-9 Field YM Yuma County Arizona Biosolids Delivered, tons	Land Application Skouson YM-9 Field YM Yuma County Arizona Biosolids Delivered, tons	Land Application Skouson YM-9 Field YM Yuma County Arizona Biosolids Delivered, tons	Land Application Skouson YM-9 Field YM Yuma County Arizona Biosolids Delivered, tons	Daily Totals hauled wet tons	Daily total cake solids %	Daily Totals hauled dry tons
2/1/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.80	0.00
2/2/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.75	0.00
2/3/2020	Monday	299.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	494.72	29.75	147.18
2/4/2020	Tuesday	326.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	475.07	29.95	142.28
2/5/2020	Wednesday	322.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	545.02	28.70	156.42
2/6/2020	Thursday	328.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	502.64	30.00	150.79
2/7/2020	Friday	324.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	499.01	30.90	154.19
2/8/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.90	0.00
2/9/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.20	0.00
2/10/2020	Monday	0.00	297.56	0.00	0.00	0.00	0.00	0.00	0.00	566.43	28.80	163.13
2/11/2020	Tuesday	0.00	373.04	0.00	0.00	0.00	0.00	0.00	0.00	447.23	29.30	131.04
2/12/2020	Wednesday	0.00	369.12	0.00	0.00	0.00	0.00	0.00	0.00	540.87	29.05	157.12
2/13/2020	Thursday	0.00	377.77	0.00	0.00	0.00	0.00	0.00	0.00	550.02	28.40	156.21
2/14/2020	Friday	0.00	264.93	0.00	0.00	0.00	0.00	0.00	0.00	455.46	29.30	133.45
2/15/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.40	0.00
2/16/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.25	0.00
2/17/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.40	0.00
2/18/2020	Tuesday	0.00	398.68	0.00	0.00	0.00	0.00	0.00	0.00	620.28	29.60	183.60
2/19/2020	Wednesday	0.00	393.26	0.00	0.00	0.00	0.00	0.00	0.00	491.85	29.65	145.83
2/20/2020	Thursday	0.00	399.21	0.00	0.00	0.00	0.00	0.00	0.00	570.57	29.00	165.47
2/21/2020	Friday	0.00	296.10	0.00	0.00	0.00	0.00	0.00	0.00	419.21	28.60	119.89
2/22/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.10	0.00
2/23/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.30	0.00
2/24/2020	Monday	0.00	395.45	0.00	0.00	0.00	0.00	0.00	0.00	614.57	28.60	175.77
2/25/2020	Tuesday	0.00	426.39	0.00	0.00	0.00	0.00	0.00	0.00	549.87	28.90	158.91
2/26/2020	Wednesday	0.00	394.70	0.00	0.00	0.00	0.00	0.00	0.00	539.80	29.70	160.32
2/27/2020	Thursday	0.00	149.13	0.00	0.00	0.00	0.00	0.00	0.00	271.46	28.40	77.09
2/28/2020	Friday	0.00	246.12	0.00	0.00	0.00	0.00	0.00	0.00	417.96	29.60	123.72
2/29/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.90	0.00
	Totals:	1,602.46	4,781.46	0.00	0.00	0.00	0.00	0.00	0.00	9,572.04		2,816.16
									Monthly average % cake solids:		29.42	

Daily average wet tons produced:	330.07
Daily average dry tons produced:	96.64

Total tons, Landfilled:	0.00
Cost per ton:	$40.73
Total cost, Landfilled:	$0.00
Total tons, Beneficial use/ADC:	0.00
Cost per ton:	$52.01
Total cost, Beneficial use/ADC:	$0.00
Total tons, Beneficial use/Land App.:	9,572.04
Cost per ton:	$52.01
Total cost, Beneficial use/Land App.:	$497,841.80
Total cost:	$497,841.80

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

ADC - Alternative Daily Cover.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group		Landfilled	Beneficial Use									
		ADC	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application
			Cullison Farms YM-2			Rutgers Farms YM-6				Anderson Farms YM-8	
San Diego Landfill Systems		Otay Landfill	Otay Landfill/ADC	Field YM 2-161	Field YM	Field YM	Field YM	Field MA 8-23	Field MA 8-21	Field MA 7-1006	Field MA 7-1007	Field YM
Landfill Disposal		San Diego Cnty.	San Diego Cnty.	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County
Beneficial Use		California	California	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona
March-20		Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids
Date	Day	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons
3/1/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/2/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	267.91	0.00	0.00
3/3/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	146.41	0.00
3/4/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	121.64	0.00
3/5/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/6/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.23	0.00
3/7/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/8/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/9/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	148.53	0.00	0.00	0.00	0.00
3/10/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	73.73	0.00	0.00	0.00	0.00
3/11/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/12/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	70.84	0.00	0.00	0.00	0.00
3/13/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/14/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/15/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/16/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	100.04	0.00	0.00	0.00	0.00
3/17/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74.30	0.00	0.00	0.00
3/18/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.85	0.00	0.00	0.00
3/19/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.28	0.00	0.00	0.00
3/20/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.24	0.00	0.00	0.00
3/21/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/22/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/23/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.79	0.00	0.00	0.00
3/24/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.35	0.00	0.00	0.00
3/25/2020	Wednesday	0.00	0.00	48.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/26/2020	Thursday	0.00	0.00	75.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/27/2020	Friday	0.00	0.00	97.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/28/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/29/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/30/2020	Monday	0.00	0.00	121.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/31/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Totals:	0.00	0.00	342.37	0.00	0.00	0.00	393.14	443.81	267.91	316.28	0.00

ADC - Alternative Daily Cover.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems
Landfill Disposal
Beneficial Use
March-20

		Beneficial Use						
		Land Application	Land Application	Land Application	Land Application			
		Tule Ranch YM-J						
		Field YM	Field YM J-4	Field YM J-10	Field YM	Daily Totals hauled wet tons	Daily total cake solids %	Daily Totals hauled dry tons
		Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona			
		Biosolids	Biosolids	Biosolids	Biosolids			
Date	Day	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons			
3/1/2020	Sunday	0.00	0.00	0.00	0.00	0.00	28.05	0.00
3/2/2020	Monday	0.00	372.07	0.00	0.00	639.98	30.40	194.55
3/3/2020	Tuesday	0.00	394.64	0.00	0.00	541.05	28.15	152.31
3/4/2020	Wednesday	0.00	323.08	0.00	0.00	444.72	29.20	129.86
3/5/2020	Thursday	0.00	298.94	0.00	0.00	298.94	28.55	85.35
3/6/2020	Friday	0.00	347.18	0.00	0.00	395.41	30.05	118.82
3/7/2020	Saturday	0.00	0.00	0.00	0.00	0.00	30.20	0.00
3/8/2020	Sunday	0.00	0.00	0.00	0.00	0.00	30.05	0.00
3/9/2020	Monday	0.00	396.75	0.00	0.00	545.28	28.95	157.86
3/10/2020	Tuesday	0.00	403.27	0.00	0.00	477.00	30.20	144.05
3/11/2020	Wednesday	0.00	419.73	0.00	0.00	419.73	30.15	126.55
3/12/2020	Thursday	0.00	317.93	0.00	0.00	388.77	28.30	110.02
3/13/2020	Friday	0.00	0.00	292.33	0.00	292.33	29.10	85.07
3/14/2020	Saturday	0.00	0.00	0.00	0.00	0.00	28.10	0.00
3/15/2020	Sunday	0.00	0.00	0.00	0.00	0.00	28.30	0.00
3/16/2020	Monday	0.00	0.00	375.66	0.00	475.70	29.15	138.67
3/17/2020	Tuesday	0.00	0.00	403.19	0.00	477.49	32.10	153.27
3/18/2020	Wednesday	0.00	0.00	399.49	0.00	472.34	28.20	133.20
3/19/2020	Thursday	0.00	0.00	400.92	0.00	449.20	28.60	128.47
3/20/2020	Friday	0.00	0.00	399.26	0.00	498.50	28.85	143.82
3/21/2020	Saturday	0.00	0.00	0.00	0.00	0.00	27.10	0.00
3/22/2020	Sunday	0.00	0.00	0.00	0.00	0.00	29.70	0.00
3/23/2020	Monday	0.00	0.00	427.71	0.00	503.50	29.40	148.03
3/24/2020	Tuesday	0.00	0.00	406.75	0.00	480.10	28.75	138.03
3/25/2020	Wednesday	0.00	0.00	376.41	0.00	425.21	28.65	121.82
3/26/2020	Thursday	0.00	0.00	392.62	0.00	467.66	28.35	132.58
3/27/2020	Friday	0.00	0.00	389.43	0.00	486.92	28.20	137.31
3/28/2020	Saturday	0.00	0.00	0.00	0.00	0.00	29.20	0.00
3/29/2020	Sunday	0.00	0.00	0.00	0.00	0.00	28.40	0.00
3/30/2020	Monday	0.00	0.00	423.79	0.00	544.83	30.10	163.99
3/31/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	28.55	0.00
	Totals:	0.00	3,273.59	4,687.56	0.00	9,724.66		2,826.58
						Monthly average % cake solids:	29.07	

Daily average wet tons produced:	313.70
Daily average dry tons produced:	91.73

Total tons, Landfilled:	0.00
Cost per ton:	$40.73
Total cost, Landfilled:	$0.00
Total tons, Beneficial use/ADC:	0.00
Cost per ton:	$52.01
Total cost, Beneficial use/ADC:	$0.00
Total tons, Beneficial use/Land App.:	9,724.66
Cost per ton:	$52.01
Total cost, Beneficial use/Land App.:	$505,779.57
Total cost:	$505,779.57

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems

Landfill Disposal

Beneficial Use

April-20

Date	Day	Landfilled	Beneficial Use								
			ADC	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application
				Cullison Farms YM-2				Tule Ranch YM-J			
		Otay Landfill	Otay Landfill/ADC	Field YM 2-161	Field YM	Field YM	Field YM	Field YM J-10	Field YM	Field YM	Field YM
		San Diego Cnty. California	San Diego Cnty. California	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona
		Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons
4/1/2020	Wednesday	0.00	0.00	72.96	0.00	0.00	0.00	498.55	0.00	0.00	0.00
4/2/2020	Thursday	0.00	0.00	74.96	0.00	0.00	0.00	496.31	0.00	0.00	0.00
4/3/2020	Friday	0.00	0.00	93.62	0.00	0.00	0.00	386.80	0.00	0.00	0.00
4/4/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/5/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	403.22	0.00	0.00	0.00
4/7/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	427.88	0.00	0.00	0.00
4/8/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	426.81	0.00	0.00	0.00
4/9/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	419.72	0.00	0.00	0.00
4/10/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	420.05	0.00	0.00	0.00
4/11/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/12/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/13/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	401.66	0.00	0.00	0.00
4/14/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	405.16	0.00	0.00	0.00
4/15/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	399.35	0.00	0.00	0.00
4/16/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	388.72	0.00	0.00	0.00
4/17/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	398.37	0.00	0.00	0.00
4/18/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/19/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/20/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	366.46	0.00	0.00	0.00
4/21/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	426.00	0.00	0.00	0.00
4/22/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	372.72	0.00	0.00	0.00
4/23/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	384.43	0.00	0.00	0.00
4/24/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	394.06	0.00	0.00	0.00
4/25/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/26/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/27/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	396.28	0.00	0.00	0.00
4/28/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	498.99	0.00	0.00	0.00
4/29/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	451.45	0.00	0.00	0.00
4/30/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	506.29	0.00	0.00	0.00
	Totals:	0.00	0.00	241.54	0.00	0.00	0.00	9,269.28	0.00	0.00	0.00
							Monthly average % cake solids:				

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

ADC - Alternative Daily Cover.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems
Landfill Disposal
Beneficial Use
April-20

Date	Day	Daily Totals hauled wet tons	Daily total cake solids %	Daily Totals hauled dry tons
4/1/2020	Wednesday	571.51	28.80	164.59
4/2/2020	Thursday	571.27	28.25	161.38
4/3/2020	Friday	480.42	28.60	137.40
4/4/2020	Saturday	0.00	29.50	0.00
4/5/2020	Sunday	0.00	28.60	0.00
4/6/2020	Monday	403.22	29.05	117.14
4/7/2020	Tuesday	427.88	28.95	123.87
4/8/2020	Wednesday	426.81	28.30	120.79
4/9/2020	Thursday	419.72	28.45	119.41
4/10/2020	Friday	420.05	29.30	123.07
4/11/2020	Saturday	0.00	29.00	0.00
4/12/2020	Sunday	0.00	29.85	0.00
4/13/2020	Monday	401.66	30.35	121.90
4/14/2020	Tuesday	405.16	28.05	113.65
4/15/2020	Wednesday	399.35	30.05	120.00
4/16/2020	Thursday	388.72	28.20	109.62
4/17/2020	Friday	398.37	29.75	118.52
4/18/2020	Saturday	0.00	28.30	0.00
4/19/2020	Sunday	0.00	29.70	0.00
4/20/2020	Monday	366.46	29.50	108.11
4/21/2020	Tuesday	426.00	28.65	122.05
4/22/2020	Wednesday	372.72	31.00	115.54
4/23/2020	Thursday	384.43	29.80	114.56
4/24/2020	Friday	394.06	29.85	117.63
4/25/2020	Saturday	0.00	29.40	0.00
4/26/2020	Sunday	0.00	29.50	0.00
4/27/2020	Monday	396.28	29.45	116.70
4/28/2020	Tuesday	498.99	28.90	144.21
4/29/2020	Wednesday	451.45	29.25	132.05
4/30/2020	Thursday	506.29	28.75	145.56
	Totals:	9,510.82		2,774.31
	Monthly average % cake solids:		29.17	

Daily average wet tons produced:	317.03
Daily average dry tons produced:	92.26

Total tons, Landfilled:	0.00
Cost per ton:	$40.73
Total cost, Landfilled:	$0.00
Total tons, Beneficial use/ADC:	0.00
Cost per ton:	$52.74
Total cost, Beneficial use/ADC:	$0.00
Total tons, Beneficial use/Land App.:	9,510.82
Cost per ton:	$52.74
Total cost, Beneficial use/Land App.:	$501,643.70
Total cost:	$501,643.70

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

ADC - Alternative Daily Cover.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group San Diego Landfill Systems Landfill Disposal Beneficial Use May-20		Landfilled	Beneficial Use								
			ADC	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application
				Anderson Farms YM-8				Tule Ranch YM-J			
		Otay Landfill	Otay Landfill/ADC	Field YM	Field YM	Field YM	Field YM	Field YM J-10	Field YM N	Field YM	Field YM
		San Diego Cnty. California	San Diego Cnty. California	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona
Date	Day	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons
5/1/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	498.52	0.00	0.00	0.00
5/2/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	473.09	0.00	0.00	0.00
5/5/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	503.33	0.00	0.00	0.00
5/6/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	475.25	0.00	0.00	0.00
5/7/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	448.32	0.00	0.00	0.00
5/8/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	472.25	0.00	0.00
5/9/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/10/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/11/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	424.06	0.00	0.00
5/12/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	479.60	0.00	0.00
5/13/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	475.41	0.00	0.00
5/14/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	477.11	0.00	0.00
5/15/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	379.80	0.00	0.00
5/16/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/18/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	426.10	0.00	0.00
5/19/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	402.66	0.00	0.00
5/20/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	479.19	0.00	0.00
5/21/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	576.81	0.00	0.00
5/22/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	445.28	0.00	0.00
5/23/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/24/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/25/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/26/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	468.55	0.00	0.00
5/27/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	545.92	0.00	0.00
5/28/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	451.89	0.00	0.00
5/29/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	400.80	0.00	0.00
5/30/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	373.33	0.00	0.00
5/31/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Totals:	0.00	0.00	0.00	0.00	0.00	0.00	2,398.51	7,278.76	0.00	0.00
								Monthly average % cake solids:			

ADC - Alternative Daily Cover.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems
Landfill Disposal
Beneficial Use
May-20

Date	Day	Beneficial Use: Land Application, Skouson YM-9, Field YM, Yuma County Arizona, Biosolids Delivered, tons	Beneficial Use: Land Application, Skouson YM-9, Field YM, Yuma County Arizona, Biosolids Delivered, tons	Beneficial Use: Land Application, Skouson YM-9, Field YM, Yuma County Arizona, Biosolids Delivered, tons	Beneficial Use: Land Application, Skouson YM-9, Field YM, Yuma County Arizona, Biosolids Delivered, tons	Daily Totals hauled wet tons	Daily total cake solids %	Daily Totals hauled dry tons
5/1/2020	Friday	0.00	0.00	0.00	0.00	498.52	30.35	151.30
5/2/2020	Saturday	0.00	0.00	0.00	0.00	0.00	29.20	0.00
5/3/2020	Sunday	0.00	0.00	0.00	0.00	0.00	30.00	0.00
5/4/2020	Monday	0.00	0.00	0.00	0.00	473.09	29.25	138.38
5/5/2020	Tuesday	0.00	0.00	0.00	0.00	503.33	29.65	149.24
5/6/2020	Wednesday	0.00	0.00	0.00	0.00	475.25	29.10	138.30
5/7/2020	Thursday	0.00	0.00	0.00	0.00	448.32	28.15	126.20
5/8/2020	Friday	0.00	0.00	0.00	0.00	472.25	29.20	137.90
5/9/2020	Saturday	0.00	0.00	0.00	0.00	0.00	29.50	0.00
5/10/2020	Sunday	0.00	0.00	0.00	0.00	0.00	29.40	0.00
5/11/2020	Monday	0.00	0.00	0.00	0.00	424.06	28.20	119.58
5/12/2020	Tuesday	0.00	0.00	0.00	0.00	479.60	29.10	139.56
5/13/2020	Wednesday	0.00	0.00	0.00	0.00	475.41	28.95	137.63
5/14/2020	Thursday	0.00	0.00	0.00	0.00	477.11	28.25	134.78
5/15/2020	Friday	0.00	0.00	0.00	0.00	379.80	28.50	108.24
5/16/2020	Saturday	0.00	0.00	0.00	0.00	0.00	28.80	0.00
5/17/2020	Sunday	0.00	0.00	0.00	0.00	0.00	28.65	0.00
5/18/2020	Monday	0.00	0.00	0.00	0.00	426.10	28.50	121.44
5/19/2020	Tuesday	0.00	0.00	0.00	0.00	402.66	28.00	112.74
5/20/2020	Wednesday	0.00	0.00	0.00	0.00	479.19	27.95	133.93
5/21/2020	Thursday	0.00	0.00	0.00	0.00	576.81	28.60	164.97
5/22/2020	Friday	0.00	0.00	0.00	0.00	445.28	28.70	127.80
5/23/2020	Saturday	0.00	0.00	0.00	0.00	0.00	28.65	0.00
5/24/2020	Sunday	0.00	0.00	0.00	0.00	0.00	28.00	0.00
5/25/2020	Monday	0.00	0.00	0.00	0.00	0.00	28.20	0.00
5/26/2020	Tuesday	0.00	0.00	0.00	0.00	468.55	27.65	129.55
5/27/2020	Wednesday	0.00	0.00	0.00	0.00	545.92	27.45	149.86
5/28/2020	Thursday	0.00	0.00	0.00	0.00	451.89	26.90	121.56
5/29/2020	Friday	0.00	0.00	0.00	0.00	400.80	27.60	110.62
5/30/2020	Saturday	0.00	0.00	0.00	0.00	373.33	27.70	103.41
5/31/2020	Sunday	0.00	0.00	0.00	0.00	0.00	28.15	0.00
	Totals:	0.00	0.00	0.00	0.00	9,677.27		2,766.76
					Monthly average % cake solids		28.59	

Daily average wet tons produced:	312.17
Daily average dry tons produced:	88.94

Total tons, Landfilled:	0.00
Cost per ton:	$40.73
Total cost, Landfilled:	$0.00
Total tons, Beneficial use/ADC:	0.00
Cost per ton:	$53.00
Total cost, Beneficial use/ADC:	$0.00
Total tons, Beneficial use/Land App.:	9,677.27
Cost per ton:	$53.00
Total cost, Beneficial use/Land App.:	$512,895.31
Total cost:	$512,895.31

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems

Landfill Disposal

Beneficial Use

June-20

		Landfilled	**Beneficial Use**								
			ADC	Land Application				Land Application			
				Anderson Farms YM-8				Tule Ranch YM-J			
		Otay Landfill	Otay Landfill/ADC	Field YM	Field YM	Field YM	Field YM	Field YM N	Field YM	Field YM	Field YM
		San Diego Cnty. California	San Diego Cnty. California	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona
		Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids
Date	Day	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons
6/1/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	448.06	0.00	0.00	0.00
6/2/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	452.22	0.00	0.00	0.00
6/3/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	500.57	0.00	0.00	0.00
6/4/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	501.51	0.00	0.00	0.00
6/5/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	495.03	0.00	0.00	0.00
6/6/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	173.75	0.00	0.00	0.00
6/7/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/8/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	471.07	0.00	0.00	0.00
6/9/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	542.78	0.00	0.00	0.00
6/10/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	501.02	0.00	0.00	0.00
6/11/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	576.69	0.00	0.00	0.00
6/12/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	495.85	0.00	0.00	0.00
6/13/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/15/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	502.39	0.00	0.00	0.00
6/16/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	477.42	0.00	0.00	0.00
6/17/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	421.17	0.00	0.00	0.00
6/18/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	395.02	0.00	0.00	0.00
6/19/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	370.72	0.00	0.00	0.00
6/20/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/21/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/22/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	496.26	0.00	0.00	0.00
6/23/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	546.19	0.00	0.00	0.00
6/24/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	474.93	0.00	0.00	0.00
6/25/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	544.05	0.00	0.00	0.00
6/26/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	400.61	0.00	0.00	0.00
6/27/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	477.45	0.00	0.00	0.00
6/30/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	524.14	0.00	0.00	0.00
	Totals:	0.00	0.00	0.00	0.00	0.00	0.00	10,788.90	0.00	0.00	0.00
										Monthly average % cake solids:	

ADC - Alternative Daily Cover.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems
Landfill Disposal
Beneficial Use
June-20

Date	Day	Beneficial Use: Land Application: Skousen Ranch YM-9 — Field YM, Yuma County, Arizona, Biosolids Delivered, tons	Field YM, Yuma County, Arizona, Biosolids Delivered, tons	Field YM, Yuma County, Arizona, Biosolids Delivered, tons	Field YM, Yuma County, Arizona, Biosolids Delivered, tons	Daily Totals hauled wet tons	Daily total cake solids %	Daily Totals hauled dry tons
6/1/2020	Monday	0.00	0.00	0.00	0.00	448.06	27.60	123.66
6/2/2020	Tuesday	0.00	0.00	0.00	0.00	452.22	27.55	124.59
6/3/2020	Wednesday	0.00	0.00	0.00	0.00	500.57	26.80	134.15
6/4/2020	Thursday	0.00	0.00	0.00	0.00	501.51	26.30	131.90
6/5/2020	Friday	0.00	0.00	0.00	0.00	495.03	27.80	137.62
6/6/2020	Saturday	0.00	0.00	0.00	0.00	173.75	28.30	49.17
6/7/2020	Sunday	0.00	0.00	0.00	0.00	0.00	27.75	0.00
6/8/2020	Monday	0.00	0.00	0.00	0.00	471.07	28.20	132.84
6/9/2020	Tuesday	0.00	0.00	0.00	0.00	542.78	27.80	150.89
6/10/2020	Wednesday	0.00	0.00	0.00	0.00	501.02	27.00	135.28
6/11/2020	Thursday	0.00	0.00	0.00	0.00	576.69	27.45	158.30
6/12/2020	Friday	0.00	0.00	0.00	0.00	495.85	26.95	133.63
6/13/2020	Saturday	0.00	0.00	0.00	0.00	0.00	27.30	0.00
6/14/2020	Sunday	0.00	0.00	0.00	0.00	0.00	26.15	0.00
6/15/2020	Monday	0.00	0.00	0.00	0.00	502.39	27.25	136.90
6/16/2020	Tuesday	0.00	0.00	0.00	0.00	477.42	27.45	131.05
6/17/2020	Wednesday	0.00	0.00	0.00	0.00	421.17	27.45	115.61
6/18/2020	Thursday	0.00	0.00	0.00	0.00	395.02	27.65	109.22
6/19/2020	Friday	0.00	0.00	0.00	0.00	370.72	28.55	105.84
6/20/2020	Saturday	0.00	0.00	0.00	0.00	0.00	27.40	0.00
6/21/2020	Sunday	0.00	0.00	0.00	0.00	0.00	27.50	0.00
6/22/2020	Monday	0.00	0.00	0.00	0.00	496.26	28.60	141.93
6/23/2020	Tuesday	0.00	0.00	0.00	0.00	546.19	27.90	152.39
6/24/2020	Wednesday	0.00	0.00	0.00	0.00	474.93	27.45	130.37
6/25/2020	Thursday	0.00	0.00	0.00	0.00	544.05	27.15	147.71
6/26/2020	Friday	0.00	0.00	0.00	0.00	400.61	28.25	113.17
6/27/2020	Saturday	0.00	0.00	0.00	0.00	0.00	26.40	0.00
6/28/2020	Sunday	0.00	0.00	0.00	0.00	0.00	27.30	0.00
6/29/2020	Monday	0.00	0.00	0.00	0.00	477.45	26.60	127.00
6/30/2020	Tuesday	0.00	0.00	0.00	0.00	524.14	28.20	147.81
	Totals:	0.00	0.00	0.00	0.00	10,788.90		2,963.53
				Monthly average % cake solids:			27.47	

Daily average wet tons produced:	359.63
Daily average dry tons produced:	99.03

Total tons, Landfilled:	0.00
Cost per ton:	$40.73
Total cost, Landfilled:	$0.00
Total tons, Beneficial use/ADC:	0.00
Cost per ton:	$53.00
Total cost, Beneficial use/ADC:	$0.00
Total tons, Beneficial use/Land App.:	10,788.90
Cost per ton:	$53.00
Total cost, Beneficial use/Land App.:	$571,811.70
Total cost:	$571,811.70

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems

Landfill Disposal

Beneficial Use

July-20

Date	Day	Landfilled	Beneficial Use								
			ADC	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application
				Cullison Farms YM-2				Rutgers Farms YM-6			
		Otay Landfill	Otay Landfill/ADC	Field YM	Field YM	Field YM	Field YM	Field YM	Field YM	Field YM	Field YM
		San Diego Cnty. California	San Diego Cnty. California	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona
		Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons
7/1/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/2/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/3/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/7/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/8/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/9/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/11/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/12/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/14/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/15/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/16/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/17/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/18/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/19/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/21/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/22/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/23/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/25/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/26/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/28/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/29/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/30/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/31/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Totals:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Monthly average % cake solids:

ADC - Alternative Daily Cover.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems

Landfill Disposal

Beneficial Use

July-20

		Beneficial Use									
		Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application
		Anderson Farms YM-8				Tule Ranch YM-J		Skouson Farms YM-9			
		Cert. total	City total	Cert. total	Field YM	Field YM	Field YM	Field YM	Field YM	Field YM	Field YM
		Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona
Date	Day	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons
7/1/2020	Wednesday	0.00	0.00	0.00	0.00	485.27	0.00	0.00	0.00	0.00	0.00
7/2/2020	Thursday	0.00	0.00	0.00	0.00	497.81	0.00	0.00	0.00	0.00	0.00
7/3/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/4/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/5/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/6/2020	Monday	0.00	0.00	0.00	0.00	495.18	0.00	0.00	0.00	0.00	0.00
7/7/2020	Tuesday	0.00	0.00	0.00	0.00	502.85	0.00	0.00	0.00	0.00	0.00
7/8/2020	Wednesday	0.00	0.00	0.00	0.00	448.92	0.00	0.00	0.00	0.00	0.00
7/9/2020	Thursday	0.00	0.00	0.00	0.00	495.49	0.00	0.00	0.00	0.00	0.00
7/10/2020	Friday	0.00	0.00	0.00	0.00	492.53	0.00	0.00	0.00	0.00	0.00
7/11/2020	Saturday	0.00	0.00	0.00	0.00	174.15	0.00	0.00	0.00	0.00	0.00
7/12/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/13/2020	Monday	0.00	0.00	0.00	0.00	450.07	0.00	0.00	0.00	0.00	0.00
7/14/2020	Tuesday	0.00	0.00	0.00	0.00	435.89	0.00	0.00	0.00	0.00	0.00
7/15/2020	Wednesday	0.00	0.00	0.00	0.00	421.88	0.00	0.00	0.00	0.00	0.00
7/16/2020	Thursday	0.00	0.00	0.00	0.00	472.57	0.00	0.00	0.00	0.00	0.00
7/17/2020	Friday	0.00	0.00	0.00	0.00	391.29	0.00	0.00	0.00	0.00	0.00
7/18/2020	Saturday	0.00	0.00	0.00	0.00	241.13	0.00	0.00	0.00	0.00	0.00
7/19/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/20/2020	Monday	0.00	0.00	0.00	0.00	422.39	0.00	0.00	0.00	0.00	0.00
7/21/2020	Tuesday	0.00	0.00	0.00	0.00	422.63	0.00	0.00	0.00	0.00	0.00
7/22/2020	Wednesday	0.00	0.00	0.00	0.00	466.69	0.00	0.00	0.00	0.00	0.00
7/23/2020	Thursday	25.39	0.00	0.00	0.00	441.59	0.00	0.00	0.00	0.00	0.00
7/24/2020	Friday	48.16	0.00	0.00	0.00	443.76	0.00	0.00	0.00	0.00	0.00
7/25/2020	Saturday	0.00	0.00	0.00	0.00	297.63	0.00	0.00	0.00	0.00	0.00
7/26/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/2020	Monday	72.17	0.00	0.00	0.00	419.54	0.00	0.00	0.00	0.00	0.00
7/28/2020	Tuesday	72.99	0.00	0.00	0.00	442.59	0.00	0.00	0.00	0.00	0.00
7/29/2020	Wednesday	72.32	0.00	0.00	0.00	538.35	0.00	0.00	0.00	0.00	0.00
7/30/2020	Thursday	69.31	0.00	0.00	0.00	520.51	0.00	0.00	0.00	0.00	0.00
7/31/2020	Friday	0.00	0.00	0.00	0.00	511.55	0.00	0.00	0.00	0.00	0.00
	Totals:	360.34	0.00	0.00	0.00	10,912.26	0.00	0.00	0.00	0.00	0.00
											Monthly average % cake solids:

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems
Landfill Disposal
Beneficial Use
July-20

Date	Day	Daily Totals hauled wet tons	Daily total cake solids %	Daily Totals hauled dry tons
7/1/2020	Wednesday	465.27	27.30	127.02
7/2/2020	Thursday	497.81	26.40	131.42
7/3/2020	Friday	0.00	27.00	0.00
7/4/2020	Saturday	0.00	27.10	0.00
7/5/2020	Sunday	0.00	26.75	0.00
7/6/2020	Monday	495.18	26.55	131.47
7/7/2020	Tuesday	502.85	26.85	135.02
7/8/2020	Wednesday	448.92	27.25	122.33
7/9/2020	Thursday	495.49	27.05	134.03
7/10/2020	Friday	492.53	26.65	131.26
7/11/2020	Saturday	174.15	26.70	46.50
7/12/2020	Sunday	0.00	26.35	0.00
7/13/2020	Monday	450.07	28.05	126.24
7/14/2020	Tuesday	435.89	25.45	110.93
7/15/2020	Wednesday	421.88	26.00	109.69
7/16/2020	Thursday	472.57	27.15	128.30
7/17/2020	Friday	391.29	25.75	100.76
7/18/2020	Saturday	241.13	27.20	65.59
7/19/2020	Sunday	0.00	26.60	0.00
7/20/2020	Monday	422.39	26.85	113.41
7/21/2020	Tuesday	422.63	26.50	112.00
7/22/2020	Wednesday	466.69	26.10	121.81
7/23/2020	Thursday	466.98	26.70	124.68
7/24/2020	Friday	491.92	26.05	128.15
7/25/2020	Saturday	297.63	26.10	77.68
7/26/2020	Sunday	0.00	26.65	0.00
7/27/2020	Monday	491.71	26.10	128.34
7/28/2020	Tuesday	515.58	25.85	133.28
7/29/2020	Wednesday	610.67	25.75	157.25
7/30/2020	Thursday	589.82	25.75	151.88
7/31/2020	Friday	511.55	26.50	135.56
	Totals:	11,272.60		2,992.88
	Monthly average % cake solids:		26.55	

Daily average wet tons produced:	363.63
Daily average dry tons produced:	96.28

Total tons, Landfilled:	0.00
Cost per ton:	$41.71
Total cost, Landfilled:	$0.00
Total tons, Beneficial use/ADC:	0.00
Cost per ton:	$52.01
Total cost, Beneficial use/ADC:	$0.00
Total tons, Beneficial use/Land App.:	11,272.60
Cost per ton:	$53.00
Total cost, Beneficial use/Land App.:	$597,447.54
Total cost:	$597,447.54

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group		Landfilled	Beneficial Use								
			ADC	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application
				Cullison Farms YM-2				Rutgers Farms YM-6			
		Otay Landfill	Otay Landfill/ADC	Field YM	Field YM	Field YM	Field YM	Field YM	Field YM	Field YM	Field YM
San Diego Landfill Systems											
Landfill Disposal		San Diego Cnty.	San Diego Cnty.	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County	Yuma County
Beneficial Use		California	California	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona	Arizona
August-20		Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids
Date	Day	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons
8/1/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/2/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/3/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/4/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/5/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/6/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/7/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/8/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/9/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/10/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/11/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/12/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/13/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/14/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/15/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/16/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/17/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/18/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/19/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/20/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/21/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/22/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/23/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/24/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/25/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/26/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/27/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/28/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/29/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/30/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/31/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Totals:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
										Monthly average % cake solids:	

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

ADC - Alternative Daily Cover.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems

Landfill Disposal

Beneficial Use

August-20

		Beneficial Use									
		Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application
		Anderson Farms YM-8				Tule Ranch YM-J				Skouson Farms YM-9	
		City total	Cert. total	Field YM	Field YM	Field YM	Field YM	Field YM 8-7	Field YM	Field YM N	Field YM
		Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona
		Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids
Date	Day	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons
8/1/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/2/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/3/2020	Monday	48.26	0.00	0.00	0.00	494.69	0.00	0.00	0.00	0.00	0.00
8/4/2020	Tuesday	47.39	0.00	0.00	0.00	486.36	0.00	0.00	0.00	0.00	0.00
8/5/2020	Wednesday	0.00	0.00	0.00	0.00	370.63	0.00	0.00	0.00	0.00	0.00
8/6/2020	Thursday	0.00	0.00	0.00	0.00	392.65	0.00	0.00	0.00	0.00	0.00
8/7/2020	Friday	0.00	0.00	0.00	0.00	363.25	0.00	0.00	0.00	0.00	0.00
8/8/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/9/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/10/2020	Monday	0.00	0.00	0.00	0.00	336.48	0.00	0.00	0.00	0.00	0.00
8/11/2020	Tuesday	48.78	0.00	0.00	0.00	294.80	0.00	0.00	0.00	0.00	0.00
8/12/2020	Wednesday	0.00	0.00	0.00	0.00	337.86	0.00	0.00	0.00	0.00	0.00
8/13/2020	Thursday	0.00	0.00	0.00	0.00	246.48	0.00	0.00	0.00	0.00	0.00
8/14/2020	Friday	0.00	0.00	0.00	0.00	294.81	0.00	0.00	0.00	0.00	0.00
8/15/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/16/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/17/2020	Monday	0.00	0.00	0.00	0.00	441.95	0.00	0.00	0.00	0.00	0.00
8/18/2020	Tuesday	0.00	0.00	0.00	0.00	486.05	0.00	0.00	0.00	0.00	0.00
8/19/2020	Wednesday	0.00	0.00	0.00	0.00	489.53	0.00	0.00	0.00	0.00	0.00
8/20/2020	Thursday	0.00	0.00	0.00	0.00	485.06	0.00	0.00	0.00	0.00	0.00
8/21/2020	Friday	0.00	0.00	0.00	0.00	482.91	0.00	0.00	0.00	0.00	0.00
8/22/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/23/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/24/2020	Monday	0.00	0.00	0.00	0.00	491.74	0.00	0.00	0.00	0.00	0.00
8/25/2020	Tuesday	0.00	0.00	0.00	0.00	494.03	0.00	0.00	0.00	0.00	0.00
8/26/2020	Wednesday	0.00	0.00	0.00	0.00	493.41	0.00	0.00	0.00	0.00	0.00
8/27/2020	Thursday	0.00	0.00	0.00	0.00	464.15	0.00	0.00	0.00	0.00	0.00
8/28/2020	Friday	0.00	0.00	0.00	0.00	461.91	0.00	0.00	0.00	0.00	0.00
8/29/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/30/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/31/2020	Monday	0.00	0.00	0.00	0.00	465.04	0.00	0.00	0.00	0.00	0.00
	Totals:	144.43	0.00	0.00	0.00	8,873.79	0.00	0.00	0.00	0.00	0.00
										Monthly average % cake solids:	

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems
Landfill Disposal
Beneficial Use
August-20

Date	Day	Land Application Field YM Yuma County Arizona Biosolids Delivered, tons	Land Application Field YM Yuma County Arizona Biosolids Delivered, tons	Daily Totals hauled wet tons	Daily total cake solids %	Daily Totals hauled dry tons
8/1/2020	Saturday	0.00	0.00	0.00	27.40	0.00
8/2/2020	Sunday	0.00	0.00	0.00	27.90	0.00
8/3/2020	Monday	0.00	0.00	542.95	26.70	144.97
8/4/2020	Tuesday	0.00	0.00	533.75	27.45	146.51
8/5/2020	Wednesday	0.00	0.00	370.63	26.35	97.66
8/6/2020	Thursday	0.00	0.00	392.65	26.10	102.48
8/7/2020	Friday	0.00	0.00	363.25	26.65	96.81
8/8/2020	Saturday	0.00	0.00	0.00	25.60	0.00
8/9/2020	Sunday	0.00	0.00	0.00	26.13	0.00
8/10/2020	Monday	0.00	0.00	336.48	25.20	84.79
8/11/2020	Tuesday	0.00	0.00	343.58	25.70	88.30
8/12/2020	Wednesday	0.00	0.00	337.86	27.10	91.56
8/13/2020	Thursday	0.00	0.00	246.48	27.15	66.92
8/14/2020	Friday	0.00	0.00	294.81	27.45	80.93
8/15/2020	Saturday	0.00	0.00	0.00	27.30	0.00
8/16/2020	Sunday	0.00	0.00	0.00	27.75	0.00
8/17/2020	Monday	0.00	0.00	441.95	26.95	119.11
8/18/2020	Tuesday	0.00	0.00	486.05	28.35	137.80
8/19/2020	Wednesday	0.00	0.00	489.53	27.80	136.09
8/20/2020	Thursday	0.00	0.00	485.06	26.10	126.60
8/21/2020	Friday	0.00	0.00	482.91	26.55	128.21
8/22/2020	Saturday	0.00	0.00	0.00	27.50	0.00
8/23/2020	Sunday	0.00	0.00	0.00	26.60	0.00
8/24/2020	Monday	0.00	0.00	491.74	26.55	130.56
8/25/2020	Tuesday	0.00	0.00	494.03	26.35	130.18
8/26/2020	Wednesday	0.00	0.00	493.41	27.70	136.67
8/27/2020	Thursday	0.00	0.00	464.15	27.70	128.57
8/28/2020	Friday	0.00	0.00	461.91	27.70	127.95
8/29/2020	Saturday	0.00	0.00	0.00	27.70	0.00
8/30/2020	Sunday	0.00	0.00	0.00	27.05	0.00
8/31/2020	Monday	0.00	0.00	465.04	26.80	124.63
	Totals:	0.00	0.00	9,018.22		2,430.05
				Monthly average % cake solids:	26.95	

Daily average wet tons produced:	290.91
Daily average dry tons produced:	78.30

Total tons, Landfilled:	0.00
Cost per ton:	$41.71
Total cost, Landfilled:	$0.00
Total tons, Beneficial use/ADC:	0.00
Cost per ton:	$52.01
Total cost, Beneficial use/ADC:	$0.00
Total tons, Beneficial use/Land App.:	9,018.22
Cost per ton:	$53.00
Total cost, Beneficial use/Land App.:	$477,965.40
Total cost:	$477,965.40

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems

Landfill Disposal

Beneficial Use

September-20

		Landfilled	Beneficial Use								
			ADC	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application
				Anderson Farms YM-8				Tule Ranch YM-J			
		Otay Landfill	Otay Landfill/ADC	Field YM 8-7	Field YM	Field YM	Field YM	Field YM N	Field YM	Field YM	Field YM
		San Diego Cnty. California	San Diego Cnty. California	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona
		Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids
Date	Day	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons
9/1/2020	Tuesday	0.00	0.00	47.04	0.00	0.00	0.00	465.39	0.00	0.00	0.00
9/2/2020	Wednesday	0.00	0.00	25.03	0.00	0.00	0.00	513.61	0.00	0.00	0.00
9/3/2020	Thursday	0.00	0.00	24.04	0.00	0.00	0.00	511.27	0.00	0.00	0.00
9/4/2020	Friday	0.00	0.00	47.94	0.00	0.00	0.00	489.65	0.00	0.00	0.00
9/5/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/6/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/7/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/8/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	568.25	0.00	0.00	0.00
9/9/2020	Wednesday	0.00	0.00	49.09	0.00	0.00	0.00	565.04	0.00	0.00	0.00
9/10/2020	Thursday	0.00	0.00	50.04	0.00	0.00	0.00	568.61	0.00	0.00	0.00
9/11/2020	Friday	0.00	0.00	24.31	0.00	0.00	0.00	561.76	0.00	0.00	0.00
9/12/2020	Saturday	0.00	0.00	25.21	0.00	0.00	0.00	343.97	0.00	0.00	0.00
9/13/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/14/2020	Monday	0.00	0.00	24.82	0.00	0.00	0.00	568.83	0.00	0.00	0.00
9/15/2020	Tuesday	0.00	0.00	49.07	0.00	0.00	0.00	511.93	0.00	0.00	0.00
9/16/2020	Wednesday	0.00	0.00	50.26	0.00	0.00	0.00	598.78	0.00	0.00	0.00
9/17/2020	Thursday	0.00	0.00	49.62	0.00	0.00	0.00	545.77	0.00	0.00	0.00
9/18/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	586.04	0.00	0.00	0.00
9/19/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/20/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/21/2020	Monday	0.00	0.00	50.30	0.00	0.00	0.00	539.10	0.00	0.00	0.00
9/22/2020	Tuesday	0.00	0.00	25.02	0.00	0.00	0.00	487.05	0.00	0.00	0.00
9/23/2020	Wednesday	0.00	0.00	24.96	0.00	0.00	0.00	539.05	0.00	0.00	0.00
9/24/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	549.01	0.00	0.00	0.00
9/25/2020	Friday	0.00	0.00	23.65	0.00	0.00	0.00	488.63	0.00	0.00	0.00
9/26/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/27/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/28/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	470.27	0.00	0.00	0.00
9/29/2020	Tuesday	0.00	0.00	24.24	0.00	0.00	0.00	440.55	0.00	0.00	0.00
9/30/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	468.25	0.00	0.00	0.00
	Totals:	0.00	0.00	614.64	0.00	0.00	0.00	11,380.81	0.00	0.00	0.00

ADC - Alternative Daily Cover.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems
Landfill Disposal
Beneficial Use
September-20

Date	Day	Land Application Skouson Farms YM-9 City total Yuma County Arizona Biosolids Delivered, tons	Land Application Cert. total Yuma County Arizona Biosolids Delivered, tons	Land Application Field YM 8-7 Yuma County Arizona Biosolids Delivered, tons	Land Application Field YM Yuma County Arizona Biosolids Delivered, tons	Daily Totals hauled wet tons	Daily total cake solids %	Daily Totals hauled dry tons
9/1/2020	Tuesday	0.00	0.00	0.00	0.00	512.43	27.15	139.12
9/2/2020	Wednesday	0.00	0.00	0.00	0.00	538.64	26.95	145.16
9/3/2020	Thursday	0.00	0.00	0.00	0.00	535.31	27.25	145.87
9/4/2020	Friday	0.00	0.00	0.00	0.00	537.59	27.00	145.15
9/5/2020	Saturday	0.00	0.00	0.00	0.00	0.00	27.10	0.00
9/6/2020	Sunday	0.00	0.00	0.00	0.00	0.00	26.20	0.00
9/7/2020	Monday	0.00	0.00	0.00	0.00	0.00	26.30	0.00
9/8/2020	Tuesday	0.00	0.00	0.00	0.00	568.25	27.45	155.98
9/9/2020	Wednesday	0.00	0.00	0.00	0.00	614.13	26.80	164.59
9/10/2020	Thursday	0.00	0.00	0.00	0.00	618.65	27.05	167.34
9/11/2020	Friday	0.00	0.00	0.00	0.00	586.07	26.95	157.95
9/12/2020	Saturday	0.00	0.00	0.00	0.00	369.18	26.40	97.46
9/13/2020	Sunday	0.00	0.00	0.00	0.00	0.00	26.35	0.00
9/14/2020	Monday	0.00	0.00	0.00	0.00	593.65	26.40	156.72
9/15/2020	Tuesday	0.00	0.00	0.00	0.00	561.00	27.75	155.68
9/16/2020	Wednesday	0.00	0.00	0.00	0.00	649.04	27.10	175.89
9/17/2020	Thursday	0.00	0.00	0.00	0.00	595.39	26.90	160.16
9/18/2020	Friday	0.00	0.00	0.00	0.00	586.04	26.10	152.96
9/19/2020	Saturday	0.00	0.00	0.00	0.00	0.00	28.30	0.00
9/20/2020	Sunday	0.00	0.00	0.00	0.00	0.00	26.00	0.00
9/21/2020	Monday	0.00	0.00	0.00	0.00	589.40	26.85	158.25
9/22/2020	Tuesday	0.00	0.00	0.00	0.00	512.07	26.90	137.75
9/23/2020	Wednesday	0.00	0.00	0.00	0.00	564.01	27.30	153.97
9/24/2020	Thursday	0.00	0.00	0.00	0.00	549.01	26.85	147.41
9/25/2020	Friday	0.00	0.00	0.00	0.00	512.28	27.50	140.88
9/26/2020	Saturday	0.00	0.00	0.00	0.00	0.00	26.90	0.00
9/27/2020	Sunday	0.00	0.00	0.00	0.00	0.00	26.00	0.00
9/28/2020	Monday	0.00	0.00	0.00	0.00	470.27	26.35	123.92
9/29/2020	Tuesday	0.00	0.00	0.00	0.00	464.79	27.75	128.98
9/30/2020	Wednesday	0.00	0.00	0.00	0.00	468.25	26.65	124.79
	Totals:	0.00	0.00	0.00	0.00	11,995.45		3,224.98
							26.89	

Daily average wet tons produced:	399.85
Daily average dry tons produced:	107.87

Total tons, Landfilled:	0.00
Cost per ton:	$41.71
Total cost, Landfilled:	$0.00
Total tons, Beneficial use/ADC:	0.00
Cost per ton:	$53.00
Total cost, Beneficial use/ADC:	$0.00
Total tons, Beneficial use/Land App.:	11,995.45
Cost per ton:	$53.00
Total cost, Beneficial use/Land App.:	$635,758.85
Total cost:	$635,758.85

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems

Landfill Disposal
Beneficial Use

October-20

		Landfilled	Beneficial Use								
			ADC	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application
				Anderson Farms YM-8				Tule Ranch YM-J			
		Otay Landfill	Otay Landfill/ADC	Field YM 8-6	Field YM	Field YM	Field YM	Field YM N	Field YM	Field YM	Field YM
		San Diego Cnty. California	San Diego Cnty. California	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona
		Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids
Date	Day	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons
10/1/2020	Thursday	0.00	0.00	25.21	0.00	0.00	0.00	518.16	0.00	0.00	0.00
10/2/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	464.82	0.00	0.00	0.00
10/3/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/4/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/5/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	475.32	0.00	0.00	0.00
10/6/2020	Tuesday	0.00	0.00	49.62	0.00	0.00	0.00	539.39	0.00	0.00	0.00
10/7/2020	Wednesday	0.00	0.00	72.67	0.00	0.00	0.00	558.62	0.00	0.00	0.00
10/8/2020	Thursday	0.00	0.00	47.93	0.00	0.00	0.00	488.21	0.00	0.00	0.00
10/9/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	510.64	0.00	0.00	0.00
10/10/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/11/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/12/2020	Monday	0.00	0.00	25.12	0.00	0.00	0.00	544.56	0.00	0.00	0.00
10/13/2020	Tuesday	0.00	0.00	49.71	0.00	0.00	0.00	510.49	0.00	0.00	0.00
10/14/2020	Wednesday	0.00	0.00	48.46	0.00	0.00	0.00	486.91	0.00	0.00	0.00
10/15/2020	Thursday	0.00	0.00	24.82	0.00	0.00	0.00	489.51	0.00	0.00	0.00
10/16/2020	Friday	0.00	0.00	49.04	0.00	0.00	0.00	509.74	0.00	0.00	0.00
10/17/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/18/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/19/2020	Monday	0.00	0.00	48.77	0.00	0.00	0.00	486.05	0.00	0.00	0.00
10/20/2020	Tuesday	0.00	0.00	24.56	0.00	0.00	0.00	484.55	0.00	0.00	0.00
10/21/2020	Wednesday	0.00	0.00	48.18	0.00	0.00	0.00	534.00	0.00	0.00	0.00
10/22/2020	Thursday	0.00	0.00	24.74	0.00	0.00	0.00	514.73	0.00	0.00	0.00
10/23/2020	Friday	0.00	0.00	24.92	0.00	0.00	0.00	510.14	0.00	0.00	0.00
10/24/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/25/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/26/2020	Monday	0.00	0.00	25.18	0.00	0.00	0.00	509.15	0.00	0.00	0.00
10/27/2020	Tuesday	0.00	0.00	23.71	0.00	0.00	0.00	513.20	0.00	0.00	0.00
10/28/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	533.44	0.00	0.00	0.00
10/29/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	513.56	0.00	0.00	0.00
10/30/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	484.74	0.00	0.00	0.00
10/31/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Totals:	0.00	0.00	612.64	0.00	0.00	0.00	11,179.93	0.00	0.00	0.00

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

ADC - Alternative Daily Cover.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems
Landfill Disposal
Beneficial Use
October-20

Date	Day	Daily Totals hauled wet tons	Daily total cake solids %	Daily Totals hauled dry tons
10/1/2020	Thursday	543.37	25.65	139.37
10/2/2020	Friday	464.82	27.20	126.43
10/3/2020	Saturday	0.00	26.40	0.00
10/4/2020	Sunday	0.00	26.20	0.00
10/5/2020	Monday	475.32	27.25	129.52
10/6/2020	Tuesday	589.01	26.60	156.68
10/7/2020	Wednesday	631.29	27.15	171.40
10/8/2020	Thursday	536.14	27.15	145.56
10/9/2020	Friday	510.64	26.95	137.62
10/10/2020	Saturday	0.00	26.50	0.00
10/11/2020	Sunday	0.00	26.00	0.00
10/12/2020	Monday	569.68	26.40	150.40
10/13/2020	Tuesday	560.20	25.75	144.25
10/14/2020	Wednesday	535.37	25.85	138.39
10/15/2020	Thursday	514.33	26.60	136.81
10/16/2020	Friday	558.78	26.80	149.75
10/17/2020	Saturday	0.00	26.50	0.00
10/18/2020	Sunday	0.00	26.40	0.00
10/19/2020	Monday	534.82	25.95	138.79
10/20/2020	Tuesday	509.11	26.65	135.68
10/21/2020	Wednesday	582.18	26.75	155.73
10/22/2020	Thursday	539.47	26.95	145.39
10/23/2020	Friday	535.06	26.35	140.99
10/24/2020	Saturday	0.00	27.90	0.00
10/25/2020	Sunday	0.00	27.05	0.00
10/26/2020	Monday	534.33	26.90	143.73
10/27/2020	Tuesday	536.91	26.90	144.43
10/28/2020	Wednesday	533.44	26.15	139.48
10/29/2020	Thursday	513.56	26.90	138.15
10/30/2020	Friday	484.74	28.45	137.91
10/31/2020	Saturday	0.00	27.70	0.00
	Totals:	11,792.57		3,149.57
			26.71	

Daily average wet tons produced:	380.41
Daily average dry tons produced:	101.50

Total tons, Landfilled:	0.00
Cost per ton:	$41.71
Total cost, Landfilled:	$0.00
Total tons, Beneficial use/ADC:	0.00
Cost per ton:	$53.00
Total cost, Beneficial use/ADC:	$0.00
Total tons, Beneficial use/Land App.:	11,792.57
Cost per ton:	$53.00
Total cost, Beneficial use/Land App.:	$625,005.95
Total cost:	$625,005.95

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group San Diego Landfill Systems Landfill Disposal Beneficial Use November-20		Landfilled	Beneficial Use								
			ADC	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application
				Anderson Farms YM-8				Tule Ranch YM-J			
		Otay Landfill	Otay Landfill/ADC	Field YM 8-14	Field YM	Field YM	Field YM	Field YM-DU13	Field YM	Field YM	Field YM
		San Diego Cnty. California	San Diego Cnty. California	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona
Date	Day	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons	Biosolids Delivered, tons
11/1/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/2/2020	Monday	0.00	0.00	24.93	0.00	0.00	0.00	478.14	0.00	0.00	0.00
11/3/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	466.10	0.00	0.00	0.00
11/4/2020	Wednesday	0.00	0.00	24.67	0.00	0.00	0.00	490.46	0.00	0.00	0.00
11/5/2020	Thursday	0.00	0.00	49.09	0.00	0.00	0.00	490.71	0.00	0.00	0.00
11/6/2020	Friday	0.00	0.00	25.22	0.00	0.00	0.00	417.10	0.00	0.00	0.00
11/7/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/9/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	564.46	0.00	0.00	0.00
11/10/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	589.50	0.00	0.00	0.00
11/11/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	615.56	0.00	0.00	0.00
11/13/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	564.51	0.00	0.00	0.00
11/14/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/15/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	462.19	0.00	0.00	0.00
11/17/2020	Tuesday	0.00	0.00	25.10	0.00	0.00	0.00	490.53	0.00	0.00	0.00
11/18/2020	Wednesday	0.00	0.00	24.82	0.00	0.00	0.00	472.09	0.00	0.00	0.00
11/19/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	495.32	0.00	0.00	0.00
11/20/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	458.55	0.00	0.00	0.00
11/21/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/22/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/23/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	520.72	0.00	0.00	0.00
11/24/2020	Tuesday	0.00	0.00	25.00	0.00	0.00	0.00	504.74	0.00	0.00	0.00
11/25/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	545.19	0.00	0.00	0.00
11/26/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/27/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	564.06	0.00	0.00	0.00
11/28/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	364.37	0.00	0.00	0.00
11/29/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/30/2020	Monday	0.00	0.00	0.00	0.00	0.00	0.00	494.63	0.00	0.00	0.00
	Totals:	0.00	0.00	198.83	0.00	0.00	0.00	10,048.91	0.00	0.00	0.00

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

ADC - Alternative Daily Cover.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems
Landfill Disposal
Beneficial Use
November-20

Date	Day	Daily Totals hauled wet tons	Daily total cake solids %	Daily Totals hauled dry tons
11/1/2020	Sunday	0.00	27.55	0.00
11/2/2020	Monday	503.07	26.60	133.82
11/3/2020	Tuesday	466.10	27.45	127.94
11/4/2020	Wednesday	515.13	26.85	138.31
11/5/2020	Thursday	539.80	26.40	142.51
11/6/2020	Friday	442.32	27.35	120.97
11/7/2020	Saturday	0.00	27.00	0.00
11/8/2020	Sunday	0.00	27.05	0.00
11/9/2020	Monday	564.46	26.15	147.61
11/10/2020	Tuesday	589.50	28.10	165.65
11/11/2020	Wednesday	0.00	27.40	0.00
11/12/2020	Thursday	615.56	26.70	164.35
11/13/2020	Friday	564.51	27.85	157.22
11/14/2020	Saturday	0.00	26.90	0.00
11/15/2020	Sunday	0.00	27.70	0.00
11/16/2020	Monday	462.19	27.25	125.95
11/17/2020	Tuesday	515.63	27.50	141.80
11/18/2020	Wednesday	496.91	28.45	141.37
11/19/2020	Thursday	495.32	27.10	134.23
11/20/2020	Friday	458.55	27.90	127.94
11/21/2020	Saturday	0.00	28.00	0.00
11/22/2020	Sunday	0.00	28.50	0.00
11/23/2020	Monday	520.72	28.10	146.32
11/24/2020	Tuesday	529.74	26.65	141.18
11/25/2020	Wednesday	545.19	27.00	147.20
11/26/2020	Thursday	0.00	26.60	0.00
11/27/2020	Friday	564.06	26.50	149.48
11/28/2020	Saturday	364.37	27.40	99.84
11/29/2020	Sunday	0.00	26.95	0.00
11/30/2020	Monday	494.63	26.50	131.08
	Totals:	10,247.760		2,792.34
			27.25	

Daily average wet tons produced:	341.59
Daily average dry tons produced:	92.83

Total tons, Landfilled:	0.00
Cost per ton:	$41.71
Total cost, Landfilled:	$0.00
Total tons, Beneficial use/ADC:	0.00
Cost per ton:	$53.00
Total cost, Beneficial use/ADC:	$0.00
Total tons, Beneficial use/Land App.:	10,247.74
Cost per ton:	$53.00
Total cost, Beneficial use/Land App.:	$543,129.96
Total cost:	$543,129.96

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group San Diego Landfill Systems Landfill Disposal Beneficial Use **December-20**		**Landfilled**	**Beneficial Use**								
			ADC	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application	Land Application
				Anderson Farms YM-8				Tule Ranch YM-J			
		Otay Landfill	Otay Landfill/ADC	Field YM 8-14	Field YM 8-3	Field YM	Field YM	Field DU-8	Field YM	Field YM	Field YM
		San Diego Cnty. California	San Diego Cnty. California	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona	Yuma County Arizona
		Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids	Biosolids
Date	Day	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons	Delivered, tons
12/1/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	515.30	0.00	0.00	0.00
12/2/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	491.02	0.00	0.00	0.00
12/3/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	397.23	0.00	0.00	0.00
12/4/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	580.30	0.00	0.00	0.00
12/5/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/7/2020	Monday	0.00	0.00	24.51	0.00	0.00	0.00	564.65	0.00	0.00	0.00
12/8/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	530.61	0.00	0.00	0.00
12/9/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	536.82	0.00	0.00	0.00
12/10/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	558.05	0.00	0.00	0.00
12/11/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	605.55	0.00	0.00	0.00
12/12/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/13/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/14/2020	Monday	0.00	0.00	0.00	23.91	0.00	0.00	460.83	0.00	0.00	0.00
12/15/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	484.15	0.00	0.00	0.00
12/16/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	488.33	0.00	0.00	0.00
12/17/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	456.20	0.00	0.00	0.00
12/18/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	503.07	0.00	0.00	0.00
12/19/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/20/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/21/2020	Monday	0.00	0.00	0.00	24.98	0.00	0.00	462.20	0.00	0.00	0.00
12/22/2020	Tuesday	0.00	0.00	0.00	25.54	0.00	0.00	528.51	0.00	0.00	0.00
12/23/2020	Wednesday	0.00	0.00	0.00	25.74	0.00	0.00	536.24	0.00	0.00	0.00
12/24/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	483.41	0.00	0.00	0.00
12/25/2020	Friday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/26/2020	Saturday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/27/2020	Sunday	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/28/2020	Monday	0.00	0.00	0.00	50.61	0.00	0.00	466.01	0.00	0.00	0.00
12/29/2020	Tuesday	0.00	0.00	0.00	0.00	0.00	0.00	522.17	0.00	0.00	0.00
12/30/2020	Wednesday	0.00	0.00	0.00	0.00	0.00	0.00	561.71	0.00	0.00	0.00
12/31/2020	Thursday	0.00	0.00	0.00	0.00	0.00	0.00	507.72	0.00	0.00	0.00
	Totals:	0.00	0.00	24.51	150.78	0.00	0.00	11,240.08	0.00	0.00	0.00

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

ADC - Alternative Daily Cover.

City of San Diego

BIOSOLIDS DISPOSAL/BENEFICIAL USE MONTHLY REPORT

Operations Support Group

San Diego Landfill Systems
Landfill Disposal
Beneficial Use
December-20

Date	Day	Daily Totals hauled wet tons	Daily total cake solids %	Daily Totals hauled dry tons
12/1/2020	Tuesday	515.30	25.60	131.92
12/2/2020	Wednesday	491.02	27.20	133.56
12/3/2020	Thursday	397.23	25.60	101.69
12/4/2020	Friday	580.30	27.55	159.87
12/5/2020	Saturday	0.00	27.40	0.00
12/6/2020	Sunday	0.00	26.85	0.00
12/7/2020	Monday	589.16	28.90	170.27
12/8/2020	Tuesday	530.61	27.80	147.51
12/9/2020	Wednesday	536.82	28.00	150.31
12/10/2020	Thursday	558.05	27.70	154.58
12/11/2020	Friday	605.55	28.05	169.86
12/12/2020	Saturday	0.00	28.60	0.00
12/13/2020	Sunday	0.00	28.65	0.00
12/14/2020	Monday	484.74	28.15	136.45
12/15/2020	Tuesday	484.15	28.45	137.74
12/16/2020	Wednesday	488.33	29.45	143.81
12/17/2020	Thursday	456.20	28.30	129.10
12/18/2020	Friday	503.07	30.10	151.42
12/19/2020	Saturday	0.00	29.20	0.00
12/20/2020	Sunday	0.00	28.05	0.00
12/21/2020	Monday	487.18	29.80	145.18
12/22/2020	Tuesday	554.05	28.50	157.90
12/23/2020	Wednesday	561.98	28.10	157.92
12/24/2020	Thursday	483.41	28.60	138.26
12/25/2020	Friday	0.00	29.40	0.00
12/26/2020	Saturday	0.00	29.90	0.00
12/27/2020	Sunday	0.00	27.95	0.00
12/28/2020	Monday	516.62	28.30	146.20
12/29/2020	Tuesday	522.17	28.70	149.86
12/30/2020	Wednesday	561.71	29.30	164.58
12/31/2020	Thursday	507.72	28.50	144.70
	Totals:	11,415.37		3,228.16
			28.28	

Daily average wet tons produced:	368.24
Daily average dry tons produced:	103.96

Total tons, Landfilled:	0.00
Cost per ton:	$41.71
Total cost, Landfilled:	$0.00
Total tons, Beneficial use/ADC:	0.00
Cost per ton:	$53.00
Total cost, Beneficial use/ADC:	$0.00
Total tons, Beneficial use/Land App.:	11,415.37
Cost per ton:	$53.00
Total cost, Beneficial use/Land App.:	$605,014.61
Total cost:	$605,014.61

The %TS values listed on days where hauling did not take place are included in the calculation of average monthly %TS.

The average monthly %TS (rounded to nearest 10th) is used to calculate the total monthly dry tons produced.

Enclosure 6 Influent Flows (average dry weather basis) for 2020

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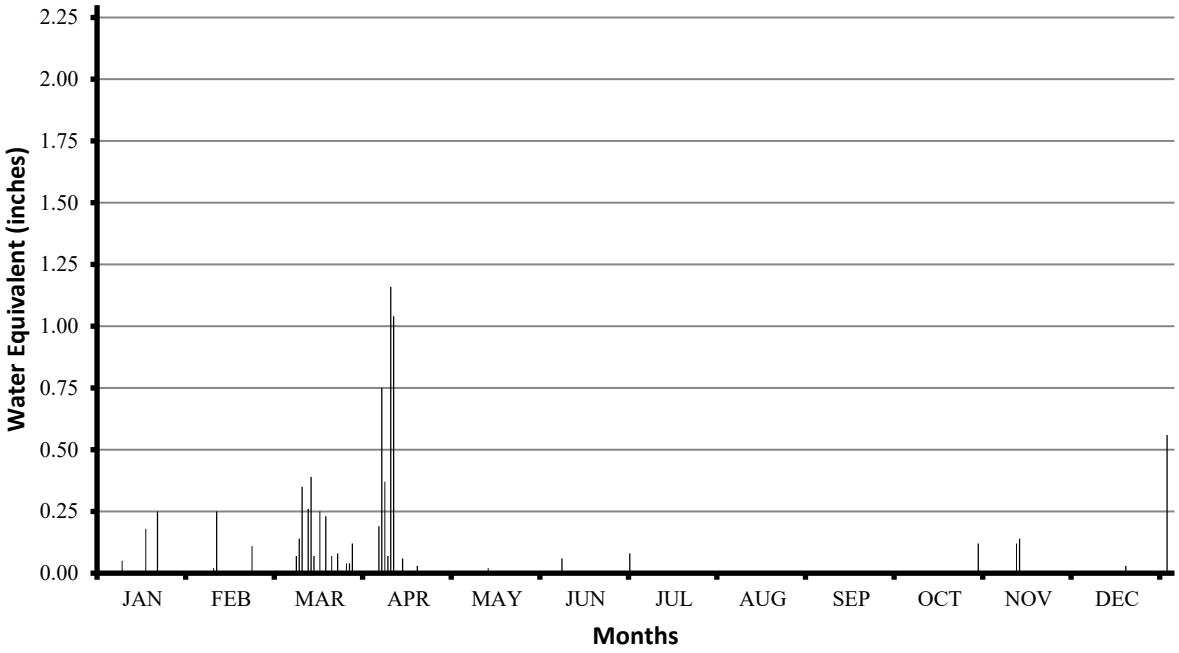
San Diego Precipitation -2020
Daily Rainfall - Lindbergh Field



San Diego Precipitation – 2020
Daily Rainfall – Lindbergh Field

Total Annual Precipitation = 7.83 **Maximum= 1.16** **Trace=0**

First Quarter		Second Quarter		Third Quarter		Fourth Quarter	
Date	Rain	Date	Rain	Date	Rain	Date	Rain
9-Jan-20	0.05	5-Apr-20	0.19	4-Aug-20	T	25-Oct-20	0.12
17-Jan-20	0.18	6-Apr-20	0.75			6-Nov-20	T
20-Jan-20	T	7-Apr-20	0.37			7-Nov-20	0.12
21-Jan-20	0.25	8-Apr-20	0.07			8-Nov-20	0.14
3-Feb-20	T	9-Apr-20	1.16			9-Nov-20	T
9-Feb-20	0.02	10-Apr-20	1.04			14-Dec-20	0.03
10-Feb-20	0.25	11-Apr-20	0.01			17-Dec-20	T
21-Feb-20	T	12-Apr-20	T			24-Dec-20	T
22-Feb-20	0.11	13-Apr-20	0.06			28-Dec-20	0.56
1-Mar-20	0.01	14-Apr-20	T			29-Dec-20	0.01
2-Mar-20	T	18-Apr-20	0.03				
7-Mar-20	0.01	19-Apr-20	T				
8-Mar-20	0.07	20-Apr-20	T				
9-Mar-20	0.14	21-Apr-20	T				
10-Mar-20	0.35	29-Apr-20	T				
12-Mar-20	0.26	12-May-20	0.02				
13-Mar-20	0.39	13-May-20	T				
14-Mar-20	0.07	5-Jun-20	T				
15-Mar-20	T	6-Jun-20	0.06				
16-Mar-20	0.25	28-Jun-20	T				
17-Mar-20	0.01	29-Jun-20	0.08				
18-Mar-20	0.23						
19-Mar-20	T						
20-Mar-20	0.07						
22-Mar-20	0.08						
23-Mar-20	0.01						
25-Mar-20	0.04						
26-Mar-20	0.04						
27-Mar-20	0.12						
29-Mar-20	T						
TOTALS	3.01		3.84		0		0.98

Point Loma Wastewater Treatment Plant
2020 Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	144.3	147.1	150.6	153.6	143.2	137.0	136.1	133.8	134.1	137.9	142.3	132.6	
2	156.2	147.0	145.1	143.2	146.4	134.7	139.9	134.5	135.3	154.9	134.3	136.0	
3	154.7	150.1	145.0	146.8	146.9	140.5	137.8	138.1	137.3	168.2	136.0	136.1	
4	153.3	146.8	142.5	147.5	142.4	136.9	139.9	139.8	137.3	141.4	134.4	133.9	
5	151.8	146.0	141.9	142.1	141.5	136.3	138.3	133.5	136.7	141.4	136.5	136.5	
6	150.6	146.8	141.4	157.2	141.3	141.1	142.0	132.8	134.5	137.4	139.3	135.5	
7	148.1	143.6	139.6	230.3	141.8	143.6	136.5	133.5	136.4	135.8	140.2	133.9	
8	150.0	147.8	149.7	215.1	141.7	137.8	134.9	135.6	138.9	136.5	147.2	134.5	
9	147.5	159.2	140.8	189.2	141.7	135.8	137.4	134.4	141.7	137.4	145.3	131.6	
10	153.9	162.7	166.7	298.3	143.8	136.4	137.7	136.5	137.8	135.3	141.0	138.8	
11	147.8	157.6	156.6	278.4	142.0	132.5	141.4	137.7	141.2	140.9	142.1	129.6	
12	151.5	153.2	176.8	211.4	140.3	134.1	137.2	135.3	138.9	144.6	136.8	134.4	
13	153.2	147.9	193.4	200.3	140.5	133.4	138.7	135.0	141.9	133.7	144.2	141.0	
14	148.3	151.1	178.5	189.1	139.8	135.8	131.0	132.4	139.8	136.4	136.9	132.0	
15	148.0	143.6	164.7	175.8	136.5	137.9	134.4	130.0	137.0	134.0	141.8	133.4	
16	149.7	142.1	168.8	170.5	139.6	132.0	133.9	147.7	135.4	139.7	136.8	131.1	
17	150.4	151.4	179.2	166.2	144.8	138.7	135.8	141.1	138.0	138.2	137.5	139.7	
18	145.6	145.3	177.0	157.3	137.0	135.6	130.1	141.0	135.5	144.5	132.8	133.9	
19	147.7	142.3	177.5	160.1	138.3	146.0	140.8	140.9	139.9	136.0	136.3	131.5	
20	145.7	146.7	170.6	160.6	135.4	140.8	135.5	138.1	143.0	140.2	134.3	132.3	
21	159.6	143.1	166.3	152.5	137.8	142.8	132.5	139.1	139.6	137.0	136.3	135.9	
22	150.1	151.4	159.3	156.3	135.0	142.2	134.1	141.8	141.1	135.3	138.2	130.1	
23	155.4	155.1	163.8	155.1	139.0	135.4	139.0	140.4	138.8	124.0	134.6	129.0	
24	151.9	151.2	164.2	148.4	139.3	142.7	133.4	140.2	141.3	132.7	137.2	139.1	
25	146.4	147.4	156.2	147.9	134.3	141.3	133.3	139.3	140.1	139.5	134.5	125.6	
26	151.0	154.2	152.5	153.6	113.3	137.8	137.2	135.9	134.4	139.2	140.7	128.8	
27	142.7	151.3	165.2	148.4	132.3	138.5	132.7	140.4	141.1	138.1	127.9	136.1	
28	148.3	141.2	159.7	147.7	141.8	141.0	135.0	133.2	140.6	133.8	130.6	148.4	
29	147.8	142.9	154.6	143.1	135.0	140.8	132.4	135.6	138.2	136.6	134.9	152.4	
30	145.8		151.8	144.7	132.7	138.1	136.6	140.3	138.3	132.3	141.2	143.1	Annual
31	147.3		149.1		130.6		139.7	136.5		137.9		147.6	Summary
Average	149.8	148.8	159.6	173.0	138.6	138.2	136.3	137.2	138.5	138.7	137.7	135.6	144.3
Minimum	142.7	141.2	139.6	142.1	113.3	132.0	130.1	130.0	134.1	124.0	127.9	125.6	113.3
Maximum	159.6	162.7	193.4	298.3	146.9	146.0	142.0	147.7	143.0	168.2	147.2	152.4	298.3
Total	4644.4	4315.3	4948.9	5190.1	4295.6	4147.4	4225.3	4253.8	4153.5	4300.4	4132.3	4203.9	52811

Point Loma Wastewater Treatment Plant
2020 Dry Weather Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	144.3	147.1		153.6	143.2	137.0	136.1	133.8	134.1	137.9	142.3	132.6	
2	156.2	147.0		143.2	146.4	134.7	139.9	134.5	135.3	154.9	134.3	136.0	
3	154.7		145.0	146.8	146.9	140.5	137.8	138.1	137.3	168.2	136.0	136.1	
4	153.3	146.8	142.5	147.5	142.4	136.9	139.9		137.3	141.4	134.4	133.9	
5	151.8	146.0	141.9		141.5		138.3	133.5	136.7	141.4	136.5	136.5	
6	150.6	146.8	141.4		141.3		142.0	132.8	134.5	137.4		135.5	
7	148.1	143.6			141.8	143.6	136.5	133.5	136.4	135.8		133.9	
8	150.0	147.8			141.7	137.8	134.9	135.6	138.9	136.5		134.5	
9					141.7	135.8	137.4	134.4	141.7	137.4		131.6	
10	153.9				143.8	136.4	137.7	136.5	137.8	135.3	141.0	138.8	
11	147.8	157.6	156.6		142.0	132.5	141.4	137.7	141.2	140.9	142.1	129.6	
12	151.5	153.2				134.1	137.2	135.3	138.9	144.6	136.8	134.4	
13	153.2	147.9				133.4	138.7	135.0	141.9	133.7	144.2	141.0	
14	148.3	151.1			139.8	135.8	131.0	132.4	139.8	136.4	136.9		
15	148.0	143.6		175.8	136.5	137.9	134.4	130.0	137.0	134.0	141.8	133.4	
16	149.7	142.1		170.5	139.6	132.0	133.9	147.7	135.4	139.7	136.8	131.1	
17		151.4		166.2	144.8	138.7	135.8	141.1	138.0	138.2	137.5		
18	145.6	145.3			137.0	135.6	130.1	141.0	135.5	144.5	132.8	133.9	
19	147.7	142.3			138.3	146.0	140.8	140.9	139.9	136.0	136.3	131.5	
20		146.7			135.4	140.8	135.5	138.1	143.0	140.2	134.3	132.3	
21			166.3		137.8	142.8	132.5	139.1	139.6	137.0	136.3	135.9	
22	150.1			156.3	135.0	142.2	134.1	141.8	141.1	135.3	138.2	130.1	
23	155.4	155.1		155.1	139.0	135.4	139.0	140.4	138.8	124.0	134.6	129.0	
24	151.9	151.2	164.2	148.4	139.3	142.7	133.4	140.2	141.3	132.7	137.2		
25	146.4	147.4		147.9	134.3	141.3	133.3	139.3	140.1		134.5	125.6	
26	151.0	154.2		153.6	113.3	137.8	137.2	135.9	134.4	139.2	140.7	128.8	
27	142.7	151.3		148.4	132.3	138.5	132.7	140.4	141.1	138.1	127.9	136.1	
28	148.3	141.2	159.7	147.7	141.8		135.0	133.2	140.6	133.8	130.6		
29	147.8	142.9			135.0		132.4	135.6	138.2	136.6	134.9		
30	145.8		151.8	144.7	132.7	138.1	136.6	140.3	138.3	132.3	141.2	143.1	Annual
31	147.3		149.1		130.6		139.7	136.5		137.9		147.6	Summary
Average	149.7	147.9	151.8	153.7	138.4	138.0	136.3	137.1	138.5	138.7	136.9	134.3	140.5
Minimum	142.7	141.2	141.4	143.2	113.3	132.0	130.1	130.0	134.1	124.0	127.9	125.6	113.3
Maximum	156.2	157.6	166.3	175.8	146.9	146.0	142.0	147.7	143.0	168.2	144.2	147.6	175.8
Total	4041.2	3549.0	1518.3	2305.4	4014.9	3588.4	4225.3	4114.0	4153.5	4161.0	3560.3	3492.3	42724

South Bay Water Reclamation Plant
Influent Flows (MGD) 2020

Days	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	6.36	6.20	6.35	6.26	6.98	6.67	6.81	6.88	6.66	6.02	6.54	6.47	
2	6.78	6.68	6.44	6.63	6.82	6.95	5.64	6.72	6.39	6.52	6.62	6.33	
3	7.04	6.60	6.33	6.88	6.86	6.90	6.38	6.61	6.60	6.67	6.73	4.17	
4	6.87	7.03	6.59	6.65	6.79	6.79	6.52	6.76	6.99	6.66	6.77	5.28	
5	6.87	6.31	7.40	6.62	6.77	7.09	6.48	6.67	6.91	3.77	6.73	5.42	
6	6.71	6.85	6.48	6.24	6.93	6.85	6.79	6.78	6.78	6.71	6.85	5.44	
7	6.87	6.90	6.72	6.88	6.94	6.84	6.91	6.56	6.60	6.54	6.76	5.66	
8	6.77	6.95	6.65	6.83	6.47	6.71	6.09	6.64	6.71	6.26	6.60	6.44	
9	6.89	6.69	5.93	6.65	7.07	6.84	3.77	6.80	6.84	6.80	6.56	5.79	
10	6.62	6.80	6.74	7.99	6.80	4.89	6.49	6.60	7.24	6.68	6.82	5.81	
11	6.64	6.86	6.75	8.11	6.89	6.85	6.79	6.75	6.00	6.67	6.68	6.63	
12	6.89	6.92	6.71	7.89	6.75	7.08	6.58	6.64	6.76	6.64	6.77	6.56	
13	5.46	6.88	6.99	6.10	6.87	6.85	6.84	6.88	6.66	6.65	6.88	6.70	
14	6.31	7.08	6.74	6.03	6.88	6.78	6.77	6.79	6.65	6.66	6.65	6.46	
15	6.96	6.94	6.70	6.77	7.05	6.38	6.87	6.78	6.87	6.70	6.58	6.96	
16	6.82	6.65	6.44	7.13	6.92	7.33	6.88	5.63	6.42	6.96	6.52	5.61	
17	6.53	6.69	6.81	7.03	6.81	2.99	7.02	5.60	6.70	6.75	6.62	6.61	
18	6.86	6.84	6.72	7.02	6.66	4.49	6.93	6.55	6.89	6.62	6.68	6.76	
19	5.95	6.84	6.73	6.52	6.88	1.03	6.70	6.07	6.76	6.56	6.65	6.63	
20	5.59	6.86	7.02	6.70	6.85	1.38	5.92	6.65	6.13	6.66	6.84	6.49	
21	4.59	6.68	6.73	6.12	6.62	5.67	6.78	7.04	6.64	6.71	6.62	6.17	
22	6.80	6.97	6.73	5.54	7.05	4.27	6.82	6.82	6.72	6.61	6.56	6.64	
23	6.32	6.44	6.48	6.10	6.76	6.01	6.36	6.56	6.71	6.26	5.92	6.55	
24	7.01	6.70	6.57	6.97	6.74	6.04	7.11	6.74	6.75	6.55	6.12	6.59	
25	6.79	4.18	7.22	7.01	6.49	6.46	6.87	6.89	6.90	6.63	6.60	5.78	
26	6.02	0.00	6.81	6.71	6.76	7.07	6.84	6.87	6.79	6.46	6.41	6.23	
27	6.17	2.94	6.59	6.65	6.81	5.60	6.89	6.88	6.62	6.69	4.46	6.41	
28	6.08	6.10	6.75	6.83	6.78	6.14	6.70	7.00	6.58	6.60	5.63	6.28	
29	6.08	6.87	6.58	6.81	6.97	5.72	6.87	6.72	6.76	6.73	4.79	6.65	
30	6.05		6.46	6.82	6.87	6.09	6.77	6.77	6.68	6.79	6.31	6.74	
31	6.30		6.08		6.82		7.02	6.77		6.69		6.16	Annual Summary
Average	6.45	6.29	6.65	6.75	6.83	5.89	6.59	6.66	6.69	6.52	6.44	6.21	6.50
Minimum	4.59	0.00	5.93	5.54	6.47	1.03	3.77	5.60	6.00	3.77	4.46	4.17	0.00
Maximum	7.04	7.08	7.40	8.11	7.07	7.33	7.11	7.04	7.24	6.96	6.88	6.96	8.11
Total	200.00	182.45	206.24	202.49	211.66	176.76	204.21	206.42	200.71	202.22	193.27	192.42	2,379

South Bay Water Reclamation Plant
Influent Dry Weather Flows (MGD) 2020

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	6.36	6.20		6.26	6.98	6.67	6.81	6.88	6.66	6.02	6.54	6.47	
2	6.78	6.68		6.63	6.82	6.95	5.64	6.72	6.39	6.52	6.62	6.33	
3	7.04		6.33	6.88	6.86	6.90	6.38	6.61	6.60	6.67	6.73	4.17	
4	6.87	7.03	6.59	6.65	6.79	6.79	6.52		6.99	6.66	6.77	5.28	
5	6.87	6.31	7.40		6.77		6.48	6.67	6.91	3.77	6.73	5.42	
6	6.71	6.85	6.48		6.93		6.79	6.78	6.78	6.71		5.44	
7	6.87	6.90			6.94	6.84	6.91	6.56	6.60	6.54		5.66	
8	6.77	6.95			6.47	6.71	6.09	6.64	6.71	6.26		6.44	
9					7.07	6.84	3.77	6.80	6.84	6.80		5.79	
10	6.62				6.80	4.89	6.49	6.60	7.24	6.68	6.82	5.81	
11	6.64	6.86	6.75		6.89	6.85	6.79	6.75	6.00	6.67	6.68	6.63	
12	6.89	6.92				7.08	6.58	6.64	6.76	6.64	6.77	6.56	
13	5.46	6.88				6.85	6.84	6.88	6.66	6.65	6.88	6.70	
14	6.31	7.08			6.88	6.78	6.77	6.79	6.65	6.66	6.65		
15	6.96	6.94		6.77	7.05	6.38	6.87	6.78	6.87	6.70	6.58	6.96	
16	6.82	6.65		7.13	6.92	7.33	6.88	5.63	6.42	6.96	6.52	5.61	
17		6.69		7.03	6.81	2.99	7.02	5.60	6.70	6.75	6.62		
18	6.86	6.84			6.66	4.49	6.93	6.55	6.89	6.62	6.68	6.76	
19	5.95	6.84			6.88	1.03	6.70	6.07	6.76	6.56	6.65	6.63	
20		6.86			6.85	1.38	5.92	6.65	6.13	6.66	6.84	6.49	
21			6.73		6.62	5.67	6.78	7.04	6.64	6.71	6.62	6.17	
22	6.80			5.54	7.05	4.27	6.82	6.82	6.72	6.61	6.56	6.64	
23	6.32	6.44		6.10	6.76	6.01	6.36	6.56	6.71	6.26	5.92	6.55	
24	7.01	6.70	6.57	6.97	6.74	6.04	7.11	6.74	6.75	6.55	6.12		
25	6.79	4.18		7.01	6.49	6.46	6.87	6.89	6.90		6.60	5.78	
26	6.02	0.00		6.71	6.76	7.07	6.84	6.87	6.79	6.46	6.41	6.23	
27	6.17	2.94		6.65	6.81	5.60	6.89	6.88	6.62	6.69	4.46	6.41	
28	6.08	6.10	6.75	6.83	6.78		6.70	7.00	6.58	6.60	5.63		
29	6.08	6.87			6.97		6.87	6.72	6.76	6.73	4.79		
30	6.05		6.46	6.82	6.87	6.09	6.77	6.77	6.68	6.79	6.31	6.74	
31	6.30		6.08		6.82		7.02	6.77		6.69		6.16	Annual Summary
Average	6.53	6.20	6.61	6.67	6.83	5.81	6.59	6.66	6.69	6.52	6.40	6.15	6.47
Minimum	5.46	0.00	6.08	5.54	6.47	1.03	3.77	5.60	6.00	3.77	4.46	4.17	0.00
Maximum	7.04	7.08	7.40	7.13	7.07	7.33	7.11	7.04	7.24	6.96	6.88	6.96	7.40
Total	176	149	66	100	198	151	204	200	201	196	167	160	1967

Enclosure 7 Copies of Monthly Title 22 Reports on MBC dewatered biosolids for 2020

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POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-JAN-2020 to 31-JAN-2020

Source: MBCDEWCN
Sample ID: P1143475
Sample Date: 31-JAN-20

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	6.37	1.86	500	*	15.00		
Arsenic	0.31	MG/KG	4.09	1.19	500	*	5.00	41	
Barium	0.31	MG/KG	256	74.8	10000	*	100.00		
Beryllium	0.01	MG/KG	0.03	0.009	75	*	0.75		
Cadmium	0.036	MG/KG	0.27	0.077	100	*	1.00	39	
Chromium (VI)			NA		500	NA	5.00		
Chromium	0.1	MG/KG	60.1	17.6	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.19	0.931	8000	*	80.00		
Copper	2.4	MG/KG	564	165	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	9.60	2.80	1000	*	5.00	300	350
Mercury	0.059	MG/KG	0.552	0.161	20	*	0.20	17	
Molybdenum	0.1	MG/KG	15.3	4.47	3500	*	350.00		
Nickel	0.6	MG/KG	26.4	7.71	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.43	1.88	100	*	1.00	100	
Silver	0.27	MG/KG	2.98	0.870	500	*	5.00		
Thallium	0.2	MG/KG	DNQ0.247	DNQ0.072	700	*	7.00		
Vanadium	0.1	MG/KG	26.9	7.86	2400	*	24.00		
Zinc	0.8	MG/KG	913	267	5000	*	250.00	2,800	
Fluoride	4.6	MG/KG	36	10.5	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	6140	1790					
Total Solids		WT%	29.2						
Total Volatile Solids		WT%	60.2						
pH		PH	7.94		>2 - <12				
Ammonia-N	28	MG/KG	9100						
Nitrite Nitrate Calc		MG/KG	31.8						
Organic Nitrogen Calc.		MG/KG	49700						
Total Kjeldahl Nitrogen		MG/KG	58800						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0016	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
2,4-D			NA	NA	100	NA	10.00		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.001	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.28	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0209	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous
as defined by California Code, Title 22, Section 66699.

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition,
. this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-JAN-2020 to 31-JAN-2020

Source: MBCDEWCN
Sample ID: P1143475
Sample Date: 31-JAN-20

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	6.37	1.86	500	*	15.00		
Arsenic	0.31	MG/KG	4.09	1.19	500	*	5.00	41	
Barium	0.31	MG/KG	256	74.8	10000	*	100.00		
Beryllium	0.01	MG/KG	0.03	0.009	75	*	0.75		
Cadmium	0.036	MG/KG	0.27	0.077	100	*	1.00	39	
Chromium (VI)			NA		500	NA	5.00		
Chromium	0.1	MG/KG	60.1	17.6	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.19	0.931	8000	*	80.00		
Copper	2.4	MG/KG	564	165	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	9.60	2.80	1000	*	5.00	300	350
Mercury	0.059	MG/KG	0.552	0.161	20	*	0.20	17	
Molybdenum	0.1	MG/KG	15.3	4.47	3500	*	350.00		
Nickel	0.6	MG/KG	26.4	7.71	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.43	1.88	100	*	1.00	100	
Silver	0.27	MG/KG	2.98	0.870	500	*	5.00		
Thallium	0.2	MG/KG	DNQ0.247	DNQ0.072	700	*	7.00		
Vanadium	0.1	MG/KG	26.9	7.86	2400	*	24.00		
Zinc	0.8	MG/KG	913	267	5000	*	250.00	2,800	
Fluoride	4.6	MG/KG	36	10.5	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	6140	1790					
Total Solids		WT%	29.2						
Total Volatile Solids		WT%	60.2						
pH		PH	7.94		>2 - <12				
Ammonia-N	28	MG/KG	9100						
Nitrite Nitrate Calc		MG/KG	31.8						
Organic Nitrogen Calc.		MG/KG	49700						
Total Kjeldahl Nitrogen		MG/KG	58800						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0016	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
2,4-D			NA	NA	100	NA	10.00		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.001	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.28	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0209	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699. All determinations were done using approved methods by laboratories certified by the State of Arizona (Cert. No. AZ0783).

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
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* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
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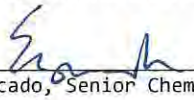
POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-FEB-2020 to 29-FEB-2020

Source: MBCDEWCN
Sample ID: P1146172
Sample Date: 29-FEB-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	6.31	1.87	500	*	15.00		
Arsenic	0.31	MG/KG	2.96	0.876	500	*	5.00	41	
Barium	0.31	MG/KG	275	81.3	10000	*	100.00		
Beryllium	0.01	MG/KG	0.070	0.020	75	*	0.75		
Cadmium	0.036	MG/KG	0.840	0.249	100	*	1.00	39	
Chromium (VI)			NA		500	NA	5.00		
Chromium	0.1	MG/KG	50.6	14.9	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	2.99	0.884	8000	*	80.00		
Copper	2.4	MG/KG	556	164	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	10.6	3.13	1000	*	5.00	300	350
Mercury	0.059	MG/KG	0.695	0.205	20	*	0.20	17	
Molybdenum	0.1	MG/KG	14.2	4.20	3500	*	350.00		
Nickel	0.6	MG/KG	22.1	6.53	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.09	1.80	100	*	1.00	100	
Silver	0.27	MG/KG	3.00	0.887	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	22.3	6.59	2400	*	24.00		
Zinc	0.8	MG/KG	878	259	5000	*	250.00	2,800	
Fluoride	4.6	MG/KG	38.9	11.5	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	7300	2160					
Total Solids		WT%	29.6						
Total Volatile Solids		WT%	61.6						
pH		PH	8.1		>2 - <12				
Ammonia-N	76	MG/KG	7850						
Nitrite Nitrate Calc		MG/KG	22.3						
Organic Nitrogen Calc.		MG/KG	48400						
Total Kjeldahl Nitrogen		MG/KG	56200						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0015	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
2,4-D	0.330	MG/KG	ND	ND	100	*	10.00		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.001	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol	13.2	MG/KG	ND	ND	17	*	1.70		
PCBs (Arochlors)	2.26	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0206	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP	0.330	MG/KG	ND	ND	10	*	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous
as defined by California Code, Title 22, Section 66699.



Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

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CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-FEB-2020 to 29-FEB-2020

Source: MBCDEWCN
Sample ID: P1146172
Sample Date: 29-FEB-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	6.31	1.87	500	*	15.00		
Arsenic	0.31	MG/KG	2.96	0.876	500	*	5.00	41	
Barium	0.31	MG/KG	275	81.3	10000	*	100.00		
Beryllium	0.01	MG/KG	0.070	0.020	75	*	0.75		
Cadmium	0.036	MG/KG	0.840	0.249	100	*	1.00	39	
Chromium (VI)			NA		500	NA	5.00		
Chromium	0.1	MG/KG	50.6	14.9	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	2.99	0.884	8000	*	80.00		
Copper	2.4	MG/KG	556	164	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	10.6	3.13	1000	*	5.00	300	350
Mercury	0.059	MG/KG	0.695	0.205	20	*	0.20	17	
Molybdenum	0.1	MG/KG	14.2	4.20	3500	*	350.00		
Nickel	0.6	MG/KG	22.1	6.53	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.09	1.80	100	*	1.00	100	
Silver	0.27	MG/KG	3.00	0.887	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	22.3	6.59	2400	*	24.00		
Zinc	0.8	MG/KG	878	259	5000	*	250.00	2,800	
Fluoride	4.6	MG/KG	38.9	11.5	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	7300	2160					
Total Solids		WT%	29.6						
Total Volatile Solids		WT%	61.6						
pH		PH	8.1		>2 - <12				
Ammonia-N	76	MG/KG	7850						
Nitrite Nitrate Calc		MG/KG	22.3						
Organic Nitrogen Calc.		MG/KG	48400						
Total Kjeldahl Nitrogen		MG/KG	56200						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0015	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
2,4-D	0.330	MG/KG	ND	ND	100	*	10.00		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.001	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol	13.2	MG/KG	ND	ND	17	*	1.70		
PCBs (Arochlors)	2.26	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0206	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP	0.330	MG/KG	ND	ND	10	*	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699. All determinations were done using approved methods by laboratories certified by the State of Arizona (Cert. No. AZ0783).

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
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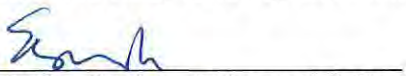
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-MAR-2020 to 31-MAR-2020

Source: MBCDEWCN
Sample ID: P1154208
Sample Date: 31-MAR-20

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	3.4	MG/KG	6.13	1.79	500	*	15.00		
Arsenic	3.05	MG/KG	2.23	0.65	500	*	5.00	41	
Barium	3.1	MG/KG	316	92.4	10000	*	100.00		
Beryllium	0.06	MG/KG	0.06	0.018	75	*	0.75		
Cadmium	0.4	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)			NA	NA	500	NA	5.00		
Chromium	1	MG/KG	54.1	15.8	2500	*	560.00	1,200	
Cobalt	0.6	MG/KG	3.56	1.04	8000	*	80.00		
Copper	23.7	MG/KG	589	172	2500	*	25.00	1,500	2,500
Lead	2	MG/KG	12.7	3.7	1000	*	5.00	300	350
Mercury	0.059	MG/KG	0.921	0.269	20	*	0.20	17	
Molybdenum	1.3	MG/KG	15.2	4.43	3500	*	350.00		
Nickel	5.6	MG/KG	24.1	7.05	2000	*	20.00	420	2,000
Selenium	4.92	MG/KG	5.99	1.75	100	*	1.00	100	
Silver	2.66	MG/KG	3.49	1.02	500	*	5.00		
Thallium	2.5	MG/KG	2.15	0.627	700	*	7.00		
Vanadium	1.3	MG/KG	24.2	7.08	2400	*	24.00		
Zinc	7.7	MG/KG	1010	294	5000	*	250.00	2,800	
Fluoride	5.1	MG/KG	ND	ND	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	7290	2130					
Total Solids		WT%	29.2						
Total Volatile Solids		WT%	61.6						
pH		PH	8.1		>2 - <12				
Ammonia-N	76	MG/KG	6550						
Nitrite Nitrate Calc		MG/KG	99.8						
Organic Nitrogen Calc.		MG/KG	60500						
Total Kjeldahl Nitrogen		MG/KG	67100						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0016	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
2,4-D			NA	NA	100	NA	10.00		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.001	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.28	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0205	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous
as defined by California Code, Title 22, Section 66699.



Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

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NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-MAR-2020 to 31-MAR-2020

Source: MBCDEWCN
Sample ID: P1154208
Sample Date: 31-MAR-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	3.4	MG/KG	6.13	1.79	500	*	15.00		
Arsenic	3.05	MG/KG	2.23	0.65	500	*	5.00	41	
Barium	3.1	MG/KG	316	92.4	10000	*	100.00		
Beryllium	0.06	MG/KG	0.06	0.018	75	*	0.75		
Cadmium	0.4	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)			NA	NA	500	NA	5.00		
Chromium	1	MG/KG	54.1	15.8	2500	*	560.00	1,200	
Cobalt	0.6	MG/KG	3.56	1.04	8000	*	80.00		
Copper	23.7	MG/KG	589	172	2500	*	25.00	1,500	2,500
Lead	2	MG/KG	12.7	3.7	1000	*	5.00	300	350
Mercury	0.059	MG/KG	0.921	0.269	20	*	0.20	17	
Molybdenum	1.3	MG/KG	15.2	4.43	3500	*	350.00		
Nickel	5.6	MG/KG	24.1	7.05	2000	*	20.00	420	2,000
Selenium	4.92	MG/KG	5.99	1.75	100	*	1.00	100	
Silver	2.66	MG/KG	3.49	1.02	500	*	5.00		
Thallium	2.5	MG/KG	2.15	0.627	700	*	7.00		
Vanadium	1.3	MG/KG	24.2	7.08	2400	*	24.00		
Zinc	7.7	MG/KG	1010	294	5000	*	250.00	2,800	
Fluoride	5.1	MG/KG	ND	ND	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	7290	2130					
Total Solids		WT%	29.2						
Total Volatile Solids		WT%	61.6						
pH		PH	8.1		>2 - <12				
Ammonia-N	76	MG/KG	6550						
Nitrite Nitrate Calc		MG/KG	99.8						
Organic Nitrogen Calc.		MG/KG	60500						
Total Kjeldahl Nitrogen		MG/KG	67100						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0016	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
2,4-D			NA	NA	100	NA	10.00		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.001	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.28	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0205	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699. All determinations were done using approved methods by laboratories certified by the State of Arizona (Cert. No. AZ0783).

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

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POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-APR-2020 to 30-APR-2020

Source: MBCDEWCN
Sample ID: P1160484
Sample Date: 30-APR-20

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	5.83	1.68	500	*	15.0		
Arsenic	0.31	MG/KG	4.61	1.33	500	*	5.00	41	
Barium	0.31	MG/KG	273	78.5	10000	*	100.0		
Beryllium	0.01	MG/KG	0.120	0.035	75	*	0.75		
Cadmium	0.04	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)			NA	NA	500	NA	5.00		
Chromium	0.1	MG/KG	52.4	15.1	2500	*	560.0	1,200	
Cobalt	0.1	MG/KG	3.13	0.901	8000	*	80.0		
Copper	2.4	MG/KG	550	158	2500	*	25.0	1,500	2,500
Lead	0.2	MG/KG	11.2	3.22	1000	*	5.00	300	350
Molybdenum	0.1	MG/KG	14.6	4.20	3500	*	350.0		
Mercury	0.059	MG/KG	0.603	0.173	20	*	0.20	17	
Nickel	0.6	MG/KG	21.0	6.04	2000	*	20.0	420	2,000
Selenium	0.49	MG/KG	6.46	1.86	100	*	1.00	100	
Silver	0.27	MG/KG	2.94	0.845	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	35.7	10.3	2400	*	24.0		
Zinc	0.8	MG/KG	880	253	5000	*	250.0	2,800	
Fluoride	5.1	MG/KG	ND#	0.00#	18000	*	180.0		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	6800	1960					
Total Solids		WT%	28.8						
Total Volatile Solids		WT%	58.4						
pH		PH	8.15		>2 - <12				
Ammonia-N	76	MG/KG	6400						
Nitrite Nitrate Calc	0.67	MG/KG	1.52						
Organic Nitrogen Calc.		MG/KG	44000						
Total Kjeldahl Nitrogen		MG/KG	50400						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
2,4-D			NA	NA	100	NA	10.00		
Chlordanes	0.0015	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.0009	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.22	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.16	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0208	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
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MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.
* = Internal check sample recovery is outside method acceptance limits; sample result not included in average calculations.

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-APR-2020 to 30-APR-2020

Source: MBCDEWCN
Sample ID: P1160484
Sample Date: 30-APR-20

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	5.83	1.68	500	*	15.0		
Arsenic	0.31	MG/KG	4.61	1.33	500	*	5.00	41	
Barium	0.31	MG/KG	273	78.5	10000	*	100.0		
Beryllium	0.01	MG/KG	0.120	0.035	75	*	0.75		
Cadmium	0.04	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)			NA	NA	500	NA	5.00		
Chromium	0.1	MG/KG	52.4	15.1	2500	*	560.0	1,200	
Cobalt	0.1	MG/KG	3.13	0.901	8000	*	80.0		
Copper	2.4	MG/KG	550	158	2500	*	25.0	1,500	2,500
Lead	0.2	MG/KG	11.2	3.22	1000	*	5.00	300	350
Molybdenum	0.1	MG/KG	14.6	4.20	3500	*	350.0		
Mercury	0.059	MG/KG	0.603	0.173	20	*	0.20	17	
Nickel	0.6	MG/KG	21.0	6.04	2000	*	20.0	420	2,000
Selenium	0.49	MG/KG	6.46	1.86	100	*	1.00	100	
Silver	0.27	MG/KG	2.94	0.845	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	35.7	10.3	2400	*	24.0		
Zinc	0.8	MG/KG	880	253	5000	*	250.0	2,800	
Fluoride	5.1	MG/KG	ND#	0.00#	18000	*	180.0		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	6800	1960					
Total Solids		WT%	28.8						
Total Volatile Solids		WT%	58.4						
pH		PH	8.15		>2 - <12				
Ammonia-N	76	MG/KG	6400						
Nitrite Nitrate Calc	0.67	MG/KG	1.52						
Organic Nitrogen Calc.		MG/KG	44000						
Total Kjeldahl Nitrogen		MG/KG	50400						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
2,4-D			NA	NA	100	NA	10.00		
Chlordanes	0.0015	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.001	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0004	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.0009	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0009	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.22	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.16	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0208	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699. All determinations were done using approved methods by laboratories certified by the State of Arizona (Cert. No. AZ0783).

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# = Internal check sample recovery is outside method acceptance limits; sample result not included in average calculations.

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-MAY-2020 to 31-MAY-2020

Source: MBCDEWCN
Sample ID: P1165500
Sample Date: 31-MAY-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	4.85	1.38	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.31	MG/KG	270	77	10000	*	100.00		
Beryllium	0.01	MG/KG	0.089	0.025	75	*	.75		
Cadmium	0.03	MG/KG	0.761	0.217	100	*	1.00	39	
Chromium (VI)			NA		500	NA	5.00		
Chromium	0.1	MG/KG	52.0	14.8	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.53	1.01	8000	*	80.00		
Copper	2.4	MG/KG	569	162	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	12.4	3.53	1000	*	5.00	300	350
Molybdenum	0.1	MG/KG	15.3	4.36	3500	*	350.00		
Mercury	0.059	MG/KG	0.618	0.176	20	*	0.20	17	
Nickel	0.6	MG/KG	24.1	6.87	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.16	1.76	100	*	1.00	100	
Silver	0.27	MG/KG	2.66	0.758	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	34.6	9.86	2400	*	24.00		
Zinc	0.8	MG/KG	904	258	5000	*	250.00	2,800	
Fluoride	1	MG/KG	141	40.2	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	20000	5700					
Total Solids		WT%	28.5						
Total Volatile Solids		WT%	59.5						
pH		PH	8.17		>2 - <12				
Ammonia-N	76	MG/KG	5600						
Nitrite Nitrate Calc		MG/KG	1.53#						
Organic Nitrogen Calc.		MG/KG	45000						
Total Kjeldahl Nitrogen		MG/KG	50600			NA			
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	.14		
2,4-D	0.35	MG/KG	ND	ND	100	*	10.00		
Chlordanes	0.0016	MG/KG	ND	ND	2.5	*	.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	.10		
Dieldrin	0.0006	MG/KG	0.01	0.002	8.0	*	.80		
Endrin	0.0011	MG/KG	ND	ND	0.2	*	.02		
Heptachlor	0.0005	MG/KG	ND	ND	4.7	*	.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.928	MG/KG	ND	ND					
BHC, Total	0.001	MG/KG	ND	ND	4.0	*	.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol	13.9	MG/KG	ND	ND	17	*	1.70		
PCBs (Arochlors)	2.32	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	.50		
Trichloroethene	0.021	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP	0.35	MG/KG	ND	ND	10	*	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.
# = Nitrate Sample analyzed outside holding time; sample result not included in average calculations.

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-MAY-2020 to 31-MAY-2020

Source: MBCDEWCN
Sample ID: P1165500
Sample Date: 31-MAY-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	4.85	1.38	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.31	MG/KG	270	77	10000	*	100.00		
Beryllium	0.01	MG/KG	0.089	0.025	75	*	0.75		
Cadmium	0.03	MG/KG	0.761	0.217	100	*	1.00	39	
Chromium (VI)			NA		500	NA	5.00		
Chromium	0.1	MG/KG	52.0	14.8	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.53	1.01	8000	*	80.00		
Copper	2.4	MG/KG	569	162	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	12.4	3.53	1000	*	5.00	300	350
Molybdenum	0.1	MG/KG	15.3	4.36	3500	*	350.00		
Mercury	0.059	MG/KG	0.618	0.176	20	*	0.20	17	
Nickel	0.6	MG/KG	24.1	6.87	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.16	1.76	100	*	1.00	100	
Silver	0.27	MG/KG	2.66	0.758	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	34.6	9.86	2400	*	24.00		
Zinc	0.8	MG/KG	904	258	5000	*	250.00	2,800	
Fluoride	1	MG/KG	141	40.2	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	20000	5700					
Total Solids		WT%	28.5						
Total Volatile Solids		WT%	59.5						
pH		PH	8.17		>2 - <12				
Ammonia-N	76	MG/KG	5600						
Nitrite Nitrate Calc		MG/KG	1.53#						
Organic Nitrogen Calc.		MG/KG	45000						
Total Kjeldahl Nitrogen		MG/KG	50600						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
2,4-D	0.35	MG/KG	ND	ND	100	*	10.00		
Chlordanes	0.0016	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	0.01	0.002	8.0	*	0.80		
Endrin	0.0011	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0005	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.928	MG/KG	ND	ND					
BHC, Total	0.001	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0007	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol	13.9	MG/KG	ND	ND	17	*	1.70		
PCBs (Arochlors)	2.32	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.17	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.021	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP	0.35	MG/KG	ND	ND	10	*	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699. All determinations were done using approved methods by laboratories certified by the State of Arizona (Cert. No. AZ0783).

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

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MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.
# = Nitrate Sample analyzed outside holding time; sample result not included in average calculations.

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge

From 01-JUN-2020 to 30-JUN-2020

Source: MBCDEWCN
Sample ID: P1171268
Sample Date: 30-JUN-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	4.89	1.34	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.31	MG/KG	274	74.8	10000	*	100.00		
Beryllium	0.01	MG/KG	0.08	0.021	75	*	0.75		
Cadmium	0.03	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)			NA	NA	500	NA	5.00		
Chromium	0.1	MG/KG	51.3	14.0	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	80.1	21.9	8000	*	80.00		
Copper	2.4	MG/KG	671	183	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	13.8	3.8	1000	*	5.00	300	350
Molybdenum	0.1	MG/KG	15.9	4.34	3500	*	350.00		
Mercury#	0.118	MG/KG	0.677	0.184	20	*	0.20	17	
Nickel	0.6	MG/KG	25.1	6.85	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.42	1.75	100	*	1.00	100	
Silver	0.27	MG/KG	18.6	5.08	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	26.4	7.21	2400	*	24.00		
Zinc	0.8	MG/KG	937	256	5000	*	250.00	2,800	
Fluoride	1	MG/KG	204	55.7	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	15900	4350					
Total Solids		WT%	27.3						
Total Volatile Solids		WT%	60.4						
pH		PH	8.07		>2 - <12				
Ammonia-N	76	MG/KG	5860						
Nitrite Nitrate Calc	0.67	MG/KG	1.73						
Organic Nitrogen Calc.		MG/KG	41500						
Total Kjeldahl Nitrogen		MG/KG	47400						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
2,4-D			NA	NA	100	NA	10.0		
Chlordanes	0.0016	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.0011	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0005	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.0009	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.001	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0008	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.41	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.18	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0223	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

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NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.
# = Relative percent difference of sample duplicates outside quality control criteria.

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge

From 01-JUN-2020 to 30-JUN-2020

Source: MBCDEWCN
Sample ID: P1171268
Sample Date: 30-JUN-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	4.89	1.34	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.31	MG/KG	274	74.8	10000	*	100.00		
Beryllium	0.01	MG/KG	0.08	0.021	75	*	0.75		
Cadmium	0.03	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)			NA	NA	500	NA	5.00		
Chromium	0.1	MG/KG	51.3	14.0	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	80.1	21.9	8000	*	80.00		
Copper	2.4	MG/KG	671	183	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	13.8	3.8	1000	*	5.00	300	350
Molybdenum	0.1	MG/KG	15.9	4.34	3500	*	350.00		
Mercury#	0.118	MG/KG	0.677	0.184	20	*	0.20	17	
Nickel	0.6	MG/KG	25.1	6.85	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.42	1.75	100	*	1.00	100	
Silver	0.27	MG/KG	18.6	5.08	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	26.4	7.21	2400	*	24.00		
Zinc	0.8	MG/KG	937	256	5000	*	250.00	2,800	
Fluoride	1	MG/KG	204	55.7	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	15900	4350					
Total Solids		WT%	27.3						
Total Volatile Solids		WT%	60.4						
pH		PH	8.07		>2 - <12				
Ammonia-N	76	MG/KG	5860						
Nitrite Nitrate Calc	0.67	MG/KG	1.73						
Organic Nitrogen Calc.		MG/KG	41500						
Total Kjeldahl Nitrogen		MG/KG	47400						
Aldrin	0.0006	MG/KG	ND	ND	1.4	*	0.14		
2,4-D			NA	NA	100	NA	10.0		
Chlordanes	0.0016	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0011	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0006	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.0011	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0005	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.0009	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.001	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0008	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0012	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	2.41	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.18	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0223	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699. All determinations were done using approved methods by laboratories certified by the State of Arizona (Cert. No. AZ0783).

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory

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. this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
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MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
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# = Relative percent difference of sample duplicates outside quality control criteria.

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-JUL-2020 to 31-JUL-2020

Source: MBCDEWCN
Sample ID: P1178877
Sample Date: 31-JUL-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	5.41	1.44	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.31	MG/KG	265	70.8	10000	*	100.00		
Beryllium	0.01	MG/KG	0.069	0.018	75	*	0.75		
Cadmium	0.03	MG/KG	0.626	0.167	100	*	1.00	39	
Chromium (VI)			NA		500	NA	5.00		
Chromium	0.1	MG/KG	51.8	13.8	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.06	0.817	8000	*	80.00		
Copper	2.4	MG/KG	598	160	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	12.6	3.4	1000	*	5.00	300	350
Mercury	0.058	MG/KG	0.445	0.118	20	*	0.20	17	
Molybdenum	0.1	MG/KG	17.4	4.65	3500	*	350.00		
Nickel	0.6	MG/KG	23.7	6.33	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.44	1.72	100	*	1.00	100	
Silver	0.27	MG/KG	2.56	0.684	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	23.0	6.14	2400	*	24.00		
Zinc	0.8	MG/KG	951	254	5000	*	250.00	2,800	
Fluoride	1	MG/KG	178	47.5	18000	*	180.00		
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total#	1400	MG/KG	28300	7560					
Total Solids		WT%	26.7						
Total Volatile Solids		WT%	61.4						
pH		PH	7.98		>2 - <12				
Ammonia-N	76	MG/KG	5720						
Nitrite Nitrate Calc	.67	MG/KG	8.32						
Organic Nitrogen Calc.		MG/KG	44600						
Total Kjeldahl Nitrogen		MG/KG	50400						
Phosphorus	7.77	MG/KG	19400						
Aldrin	0.0014	MG/KG	ND	ND	1.4	*	0.14		
2,4-D			NA	NA	100	NA	10.0		
Chlordanes	0.0017	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0027	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0007	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.0011	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0013	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.0009	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0017	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0027	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0051	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA		17	NA	1.70		
PCBs (Arochlors)	0.06	MG/KG	ND	ND	50	*	5.00		
Toxaphene	0.18	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.0451	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA		10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

9/1/2020

Elvira Mercado, Senior Chemist, Environmental Chemistry Laboratory (ELAP Cert. No.1609)

TTLC = Total Threshold Limit Concentration.
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** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.
# = Internal check sample recovery is outside method acceptance limits; sample result not included in average calculations.

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-AUG-2020 to 31-AUG-2020

Source: MBCDEWCN
Sample ID: P1190465
Sample Date: 31-AUG-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	5.69	1.52	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.35	MG/KG	268	71.7	10000	*	100.00		
Beryllium	0.01	MG/KG	0.07	0.018	75	*	0.75		
Cadmium	0.04	MG/KG	1.38	0.369	100	*	1.00	39	
Chromium (VI)					500	NA	5.00		
Chromium	0.1	MG/KG	51	13.6	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	4	1.07	8000	*	80.00		
Copper	2.4	MG/KG	610	163	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	11.4	3	1000	*	5.00	300	350
Mercury	0.1	MG/KG	0.95	0.253	20	*	0.20	17	
Molybdenum	0.1	MG/KG	17.3	4.63	3500	*	350.00		
Nickel	0.6	MG/KG	24	6.42	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	3.09	0.827	100	*	1.00	100	
Silver	0.27	MG/KG	2.67	0.714	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	21.3	5.7	2400	*	24.00		
Zinc	0.8	MG/KG	936	250	5000	*	250.00	2,800	
Fluoride	5	MG/KG	177	47.3	18000	*	180.00		
Cyanide-Reactive			NA						
Cyanide, Total	0.13	MG/KG	1	0.348					
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	19200	5140					
Total Solids		WT%	26.8						
Total Volatile Solids		WT%	61.4						
pH		PH	8.04		>2 - <12				
Aldrin	0.0351	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0413	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.0585	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0163	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.0279	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.034	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.001	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0251	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0308	MG/KG	ND	ND	100	*	10.00		
Mirex	0.099	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol	14.8	MG/KG	ND	ND	17	*	1.70		
PCBs (Arochlors)	1.6	MG/KG	ND	ND	50	*	5.00		
Toxaphene	4.45	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.023	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		
2,4-D			NA	NA	100	NA	10.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Date: 10/1/2020

Elvira Mercado, Senior Chemist, Environmental Chemistry Services
Alvarado Wastewater Chemistry Laboratory (CA ELAP Cert. No 1609)

TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
W.E.T. = Waste Extraction Technique
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-SEP-2020 to 30-SEP-2020

Source: MBCDEWCN
Sample ID: P1190315
Sample Date: 30-SEP-20

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	6.81	1.85	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.31	MG/KG	273	74.1	10000	*	100.00		
Beryllium	0.01	MG/KG	ND	ND	75	*	0.75		
Cadmium	0.04	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)					500	NA	5.00		
Chromium	0.1	MG/KG	51	13.9	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.05	0.828	8000	*	80.00		
Copper	2.4	MG/KG	645	175	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	11.6	3.15	1000	*	5.00	300	350
Mercury	0.1	MG/KG	0.62	0.167	20	*	0.20	17	
Molybdenum	0.1	MG/KG	19.3	5.24	3500	*	350.00		
Nickel	0.6	MG/KG	24	6.52	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	2.82	0.766	100	*	1.00	100	
Silver	0.27	MG/KG	2.81	0.763	500	*	5.00		
Thallium	0.2	MG/KG	0.42	0.114	700	*	7.00		
Vanadium	0.1	MG/KG	20.9	5.67	2400	*	24.00		
Zinc	0.8	MG/KG	976	265	5000	*	250.00	2,800	
Fluoride	5.0	MG/KG	184	50.0	18000	*	180.00		
Cyanide-Reactive			NA						
Cyanide, Total	0.13	MG/KG	18.6	5.05					
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	10300	2810					
Total Solids		WT%	27.2						
Total Volatile Solids		WT%	61.9						
pH		PH	7.81		>2 - <12				
Aldrin	0.0066	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0082	MG/KG	ND	ND	2.5	*	0.25		
DDT, DDE, DDD	0.075	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0054	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.012	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0095	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	4.60	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0157	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0379	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0076	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	*	1.70		
PCBs (Arochlors)	0.63	MG/KG	ND	ND	50	*	5.00		
Toxaphene	1.26	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.045	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		
2,4D			NA	NA	100	NA	10.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Date: 10/30/2020

Elvira Mercado, Senior Chemist, Environmental Chemistry Services
Alvarado Wastewater Chemistry Laboratory (CA ELAP Cert. No 1609)

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition,
. this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-OCT-2020 to 31-OCT-2020

Source: MBCDEWCN
Sample ID: P1196337
Sample Date: 31-OCT-20

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	7.36	2	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.35	MG/KG	313	85	10000	*	100.00		
Beryllium	0.01	MG/KG	0.06	0.016	75	*	0.75		
Cadmium	0.04	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)					500	NA	5.00		
Chromium	0.1	MG/KG	59.4	16.1	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.83	1.04	8000	*	80.00		
Copper	2.4	MG/KG	654	178	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	11.5	3.1	1000	*	5.00	300	350
Mercury	0.1	MG/KG	0.69	0.187	20	*	0.20	17	
Molybdenum	0.1	MG/KG	20.5	5.57	3500	*	350.00		
Nickel	0.6	MG/KG	27.9	7.58	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	7.26	1.97	100	*	1.00	100	
Silver	0.27	MG/KG	3.22	0.874	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	20.7	5.62	2400	*	24.00		
Zinc	0.8	MG/KG	1010	274	5000	*	250.00	2,800	
Fluoride	5.1	MG/KG	270	73.2	18000	*	180.00		
Cyanide-Reactive			NA						
Cyanide, Total	0.13	MG/KG	4	1.12					
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	31500	8540					
Total Solids		WT%	27.2						
Total Volatile Solids		WT%	62.3						
pH		PH	7.81		>2 - <12				
Aldrin	0.0066	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0083	MG/KG	0.021	0.0057	2.5	*	0.25		
DDT, DDE, DDD	0.074	MG/KG	ND	ND	1.0	*	0.10		
Dieldrin	0.0054	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.0122	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0095	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.0047	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0154	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0376	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0075	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol	1.27	MG/KG	ND	ND	17	*	1.70		
PCBs (Arochlors)	0.63	MG/KG	ND	ND	50	*	5.00		
Toxaphene	1.24	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.013	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP	380	UG/KG	ND	ND	10	NA	1.00		
2,4D	380	UG/KG	ND	ND	100	NA	10.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Date: 11/27/2020

Elvira Mercado, Senior Chemist, Environmental Chemistry Services
Alvarado Wastewater Chemistry Laboratory (CA ELAP Cert. No 1609)

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-NOV-2020 to 30-NOV-2020

Source: MBCDEWCN
Sample ID: P1201790
Sample Date: 30-NOV-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	7.12	1.95	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.35	MG/KG	310	85.1	10000	*	100.00		
Beryllium	0.01	MG/KG	0.03	0.009	75	*	0.75		
Cadmium	0.036	MG/KG	ND	ND	100	*	1.00	39	
Chromium (VI)		MG/KG	NA	NA	500	NA	5.00		
Chromium	0.1	MG/KG	57.0	15.7	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.52	0.966	8000	*	80.00		
Copper	2.4	MG/KG	609	167	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	11.2	3.08	1000	*	5.00	300	350
Mercury	0.1	MG/KG	0.67	0.184	20	*	0.20	17	
Molybdenum	0.1	MG/KG	17.9	4.91	3500	*	350.00		
Nickel	0.6	MG/KG	26.3	7.22	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	6.39	1.75	100	*	1.00	100	
Silver	0.27	MG/KG	2.49	0.684	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	21.2	5.82	2400	*	24.00		
Zinc	0.8	MG/KG	963	264	5000	*	250.00	2,800	
Fluoride#	5.0	MG/KG	81.0	22.3	18000	NA	180.00		
Cyanide-Reactive			NA						
Cyanide, Total	0.13	MG/KG	4.53	1.24					
Sulfides-Reactive	38	MG/KG	130	36					
Sulfides-Total	1400	MG/KG	27900	7660					
Total Solids		WT%	27.5						
Total Volatile Solids		WT%	62.3						
pH		PH	7.88		>2 - <12				
Aldrin	0.0065	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0081	MG/KG	0.097	0.0267	2.5	*	0.25		
DDT, DDE, DDD	0.073	MG/KG	0.03	0.008	1.0	*	0.10		
Dieldrin	0.0052	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.0117	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0093	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.005	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0152	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.037	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0074	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	0.61	MG/KG	ND	ND	50	*	5.00		
Toxaphene	1.22	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.006	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		
2,4D			NA	NA	100	NA	10.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Date: 12/30/2020

Elvira Mercado, Senior Chemist, Environmental Chemistry Services
Alvarado Wastewater Chemistry Laboratory (CA ELAP Cert. No 1609)

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.
# = Relative percent difference of sample duplicates outside method acceptance criteria; value not included in average calculations.

POINT LOMA WASTEWATER TREATMENT PLANT
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
Metro Biosolids Center Dewatered Sludge
From 01-DEC-2020 to 31-DEC-2020

Source: MBCDEWCN
Sample ID: P1208014
Sample Date: 31-DEC-2020

Constituent	MDL.	Units	Total Dry Wt. mg/Kg	Total Wet Wt. mg/Kg	TTLC Wet Wt. mg/Kg	W.E.T. Wet Wt. mg/L	STLC Wet Wt. mg/L	40 CFR 503 Limits ** mg/Kg	CA Health & Safety code Limits *** mg/Kg
Antimony	0.3	MG/KG	6.23	1.77	500	*	15.00		
Arsenic	0.31	MG/KG	ND	ND	500	*	5.00	41	
Barium	0.35	MG/KG	305	86.6	10000	*	100.00		
Beryllium	0.01	MG/KG	0.047	0.013	75	*	0.75		
Cadmium	0.04	MG/KG	0.226	0.064	100	*	1.00	39	
Chromium (VI)					500	NA	5.00		
Chromium	0.1	MG/KG	56.9	16.2	2500	*	560.00	1,200	
Cobalt	0.1	MG/KG	3.27	0.929	8000	*	80.00		
Copper	2.4	MG/KG	614	174	2500	*	25.00	1,500	2,500
Lead	0.2	MG/KG	12.1	3.44	1000	*	5.00	300	350
Mercury	0.3	MG/KG	0.63	0.179	20	*	0.20	17	
Molybdenum	0.1	MG/KG	18.5	5.25	3500	*	350.00		
Nickel	0.6	MG/KG	21.1	5.99	2000	*	20.00	420	2,000
Selenium	0.49	MG/KG	4.24	1.20	100	*	1.00	100	
Silver	0.27	MG/KG	2.62	0.744	500	*	5.00		
Thallium	0.2	MG/KG	ND	ND	700	*	7.00		
Vanadium	0.1	MG/KG	20.8	5.91	2400	*	24.00		
Zinc	0.8	MG/KG	944	268	5000	*	250.00	2,800	
Fluoride	5	MG/KG	218	61.8	18000	*	180.00		
Cyanide-Reactive			NA						
Cyanide, Total	0.13	MG/KG	5.50	1.56					
Sulfides-Reactive	38	MG/KG	ND	ND					
Sulfides-Total	1400	MG/KG	11900	3380					
Total Solids		WT%	28.4						
Total Volatile Solids		WT%	62.3						
pH		PH	7.75		>2 - <12				
Aldrin	0.0063	MG/KG	ND	ND	1.4	*	0.14		
Chlordanes	0.0079	MG/KG	0.075	0.0214	2.5	*	0.25		
DDT, DDE, DDD	0.0715	MG/KG	0.01	0.003	1.0	*	0.10		
Dieldrin	0.0051	MG/KG	ND	ND	8.0	*	0.80		
Endrin	0.0114	MG/KG	ND	ND	0.2	*	0.02		
Heptachlor	0.0091	MG/KG	ND	ND	4.7	*	0.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0.005	MG/KG	ND	ND	4.0	*	0.40		
BHC, Total	0.0149	MG/KG	ND	ND	4.0	*	0.40		
Methoxychlor	0.0362	MG/KG	ND	ND	100	*	10.00		
Mirex	0.0072	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	0.6	MG/KG	ND	ND	50	*	5.00		
Toxaphene	1.2	MG/KG	ND	ND	5	*	0.50		
Trichloroethene	0.012	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		
2,4D			NA	NA	100	NA	10.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

Date: 1/29/2021

Elvira Mercado, Senior Chemist, Environmental Chemistry Services
Alvarado Wastewater Chemistry Laboratory (CA ELAP Cert. No 1609)

TTLC = Total Threshold Limit Concentration.
STLC = Soluble Threshold Limit Concentration.
W.E.T. = Waste Extraction Technique.
* = The total wet concentration is less than 10 times the STLC. Therefore, by definition, this substance is present in concentration that is less than the limit for hazardous wastes.
** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
*** = The California State Health and Safety Code 25157.8 established a lower limit for Lead.
NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
MDL = Method Detection Limit (mg/Kg per dry weight; except for pH and Total and Volatile Solids)
MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

Enclosure 8 Results of other analyses of dewatered biosolids for 2020

Tables showing the analyses for metals (including priority pollutants), pH, total and volatile solids, pesticides & PCBs, and organic priority pollutant compounds of sewage biosolids samples taken in 2020.

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METROBIOSOLIDS CENTER

ANNUAL 2020

Trace Metals
EPA Method 6010B/C

Source:			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:			31-JAN-2020	29-FEB-2020	31-MAR-2020	30-APR-2020	31-MAY-2020	30-JUN-2020
Sample ID:	MDL	Units	P1143475	P1146172	P1154208	P1160484	P1165500	P1171268
Aluminum	62.1	MG/KG	3310	2960	3300	3940	3810	2950
Antimony	3.39	MG/KG	6.4	6.3	6.1	5.8	4.9	4.9
Arsenic	3.05	MG/KG	4.09	2.96	<3.05	4.61	ND	ND
Barium	3.1	MG/KG	256	275	317	273	270	274
Beryllium	.06	MG/KG	0.03	0.07	0.06	0.12	0.09	0.08
Cadmium	.36	MG/KG	0.3	0.8	ND	ND	0.8	ND
Chromium	.98	MG/KG	60.1	50.6	54.1	52.4	52.0	51.3
Cobalt	.57	MG/KG	3.2	3.0	3.6	3.1	3.5	80.1
Cyanide, Total	.13	MG/KG	NR	NR	NR	NR	5.93	NR
Copper	23.7	MG/KG	564	556	590	550	569	671
Iron	37.5	MG/KG	89400	84200	87400	84300	79300	85300
Lead	2.01	MG/KG	9.6	10.6	12.7	11.2	12.4	13.8
Manganese	1.22	MG/KG	333	327	364	332	300	295
Mercury	.29	MG/KG	0.55	0.70	0.92	0.60	0.62	0.68
Molybdenum	1.27	MG/KG	15.3	14.2	15.2	14.6	15.3	15.9
Nickel	5.6	MG/KG	26.4	22.1	24.2	21.0	24.1	25.1
Selenium	4.92	MG/KG	6.43	6.09	5.99	6.46	6.16	6.42
Silver	2.66	MG/KG	2.98	3.00	3.49	2.94	2.66	18.60
Thallium	2.45	MG/KG	DNQ0.25	ND	<2.45	ND	ND	ND
Vanadium	1.29	MG/KG	26.9	22.3	24.3	35.7	34.6	26.4
Zinc	7.68	MG/KG	913	878	1010	880	904	937
Sulfides-Reactive	38	MG/KG	ND	ND	ND	ND	ND	ND
Sulfides-Total	1400	MG/KG	6140	7300	7300	6800	20000	16000
Total Kjeldahl Nitrogen	.05	WT%	5.88	5.62	6.71	5.04	5.06	4.74
Total Volatile Solids		WT%	60.2	61.6	61.6	58.4	59.5	60.4
Total Solids		WT%	29.2	29.6	29.2	28.8	28.5	27.3
pH		PH	7.94	8.10	8.10	8.15	8.17	8.07

DNQ= Detected but not quantified. Sample result is less than minimum Level but greater than or equal to MDL.

ND= Not Detected
NA= Not Analyzed
NS= Not Sampled
NR= Not Required

MBCDEWCN= Metro Biosolids Center Dewatered Centrifuged Sludge.

METROBIOSOLIDS CENTER

ANNUAL 2020

Trace Metals
EPA Method 6010B/C

Source:			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:			31-JUL-2020	31-AUG-2020	30-SEP-2020	31-OCT-2020	30-NOV-2020	31-DEC-2020
Sample ID:	MDL	Units	P1178877	P1190465	P1190315	P1196337	P1201790	P1208014
Aluminum	62.1	MG/KG	2930	2810	2690	2870	3060	2740
Antimony	3.39	MG/KG	5.4	5.7	6.8	7.4	7.1	6.2
Arsenic	3.05	MG/KG	ND	ND	ND	ND	ND	ND
Barium	3.1	MG/KG	265	268	273	313	310	305
Beryllium	.06	MG/KG	0.07	0.07	ND	0.06	0.03	0.05
Cadmium	.36	MG/KG	0.6	1.4	ND	ND	ND	0.2
Chromium	.98	MG/KG	51.8	51.0	51.0	59.4	57.0	56.9
Cobalt	.57	MG/KG	3.1	4.0	3.1	3.8	3.5	3.3
Cyanide, Total	.13	MG/KG	NR	1.30	18.6	4.12	4.53	5.50
Copper	23.7	MG/KG	598	610	645	654	609	614
Iron	37.5	MG/KG	89900	78100	87600	95200	95700	98400
Lead	2.01	MG/KG	12.6	11.4	11.6	11.5	11.2	12.1
Manganese	1.22	MG/KG	290	298	308	323	344	367
Mercury	.29	MG/KG	0.45	0.95	0.62	0.69	0.67	0.63
Molybdenum	1.27	MG/KG	17.4	17.3	19.3	20.5	17.9	18.5
Nickel	5.6	MG/KG	23.7	24.0	24.0	27.9	26.3	21.1
Selenium	4.92	MG/KG	6.44	3.09	2.82	7.26	6.39	4.24
Silver	2.66	MG/KG	2.56	2.67	2.81	3.22	2.49	2.62
Thallium	2.45	MG/KG	ND	ND	DNQ0.42	ND	ND	ND
Vanadium	1.29	MG/KG	23.0	21.3	20.9	20.7	21.2	20.8
Zinc	7.68	MG/KG	951	936	976	1010	963	944
Sulfides-Reactive	38	MG/KG	ND	ND	ND	ND	130.0	ND
Sulfides-Total	1400	MG/KG	41000*	19200	10400	31500	27900	11900
Total Kjeldahl Nitrogen	.05	WT%	5.04	5.08	5.37	5.35	6.35	4.94
Total Volatile Solids		WT%	61.4	61.4	61.9	62.3	62.3	62.3
Total Solids		WT%	26.7	26.8	27.2	27.2	27.5	28.4
pH		PH	7.98	8.04	7.81	7.81	7.88	7.75

DNQ= Detected but not quantified. Sample result is less than minimum Level but greater than or equal to MDL.

ND= Not Detected
NA= Not Analyzed
NS= Not Sampled
NR= Not Required

MBCDEWCN= Metro Biosolids Center Dewatered Centrifuged Sludge.

* = Internal check sample recovery is outside method acceptance limits; sample result not included in average calculations.

METROBIOSOLIDS CENTER

ANNUAL 2020

TOTAL NITROGEN

Source			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date			31-JAN-2020	29-FEB-2020	31-MAR-2020	30-APR-2020	31-MAY-2020	30-JUN-2020	31-JUL-2020
Sample	MDL	Units	P1143475	P1146172	P1154208	P1160484	P1165500	P1171268	P1178877
Total Nitrogen*	500	MG/KG	58800	56200	67100	50400	50600	47400	50400

Source			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	RAW COMP	RAW COMP
Date			30-SEP-2020	31-AUG-2020	31-OCT-2020	30-NOV-2020	31-DEC-2020	04-FEB-2020	05-MAY-2020
Sample	MDL	Units	P1190315	P1190465	P1196337	P1201790	P1208014	P1143817	P1163104
Total Nitrogen*	500	MG/KG	53700	50800	53500	63500	49400	36500	39200

Source			RAW COMP	RAW COMP	DIG COMP	DIG COMP	DIG COMP	DIG COMP
Date			04-AUG-2020	06-OCT-2020	04-FEB-2020	05-MAY-2020	04-AUG-2020	06-OCT-2020
Sample	MDL	Units	P1181547	P1194346	P1143832	P1163119	P1181562	P1194361
Total Nitrogen*	500	MG/KG	34100	36800	74600	73900	65400	68400

* = Value is a sum calculation of Total kjeldahl nitrogen, Nitrate as N and Nitrite as N.

ND=not detected; NS=not sampled; NA=not analyzed

METROBIOSOLIDS CENTER

ANNUAL 2020

Radioactivity
EPA Method 900.0
Analyzed by FGL Environmental

Source	Sample Date	Sample ID	Gross Alpha Radiation	Gross Beta Radiation
MBC_COMBCN	04-FEB-2020	P1143812	14.8±1.8	19.7±1.6
MBC_COMBCN	05-MAY-2020	P1163099	15.0±2.6	13.3±1.9
MBC_COMBCN	04-AUG-2020	P1181542	12.1±2.3	10.9±1.8
MBC_COMBCN	06-OCT-2020	P1194341	14.8±2.1	10.8±1.6
MBC_COMBCN	ANNUAL	AVERAGE	14.2±2.2	13.7±1.7

Units in picocuries per Liter (pCi/L)

Source	Sample Date	Sample ID		Gross Alpha Radiation	Gross Beta Radiation
MBCDEWCN	29-FEB-2020	P1146172		8300±3000	11000±2400
MBCDEWCN	31-MAY-2020	P1165500		9370±3140	12300±2480
MBCDEWCN	31-AUG-2020	P1190465		10000±6460	7210±3930
MBCDEWCN	31-OCT-2020	P1196337		14100±7470*	4280±3300*

Units in picocuries/liter (pCi/kg)

ND= Not Detected
NA= Not Analyzed
NS= Not Sampled
NR= Not Required

* = Analyzed by: Pace Analytical EPA Method 9310

METROBIOSOLIDS CENTER

ANNUAL 2020

Chlorinated Pesticide Analysis

Source			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date			31-JAN-2020	29-FEB-2020	31-MAR-2020	30-APR-2020	31-MAY-2020
Analyte	MDL	Units	P1143475	P1146172	P1154208	P1160484	P1165500
Aldrin	34350	NG/KG	ND	ND	ND	ND	ND
Dieldrin	16250	NG/KG	ND	ND	ND	ND	5060*
BHC, Alpha isomer	19550	NG/KG	ND	ND	ND	ND	ND
BHC, Beta isomer	25050	NG/KG	ND	ND	ND	ND	ND
BHC, Gamma isomer	24300	NG/KG	ND	ND	ND	ND	ND
BHC, Delta isomer	18100	NG/KG	ND	ND	ND	ND	ND
p,p-DDD	20300	NG/KG	ND	ND	ND	ND	ND
p,p-DDE	27400	NG/KG	ND	ND	ND	ND	ND
p,p-DDT	75500	NG/KG	ND	ND	ND	ND	ND
o,p-DDD	38200	NG/KG	ND	ND	ND	ND	ND
o,p-DDE	28800	NG/KG	ND	ND	ND	ND	ND
o,p-DDT	65500	NG/KG	ND	ND	ND	ND	ND
Heptachlor	34000	NG/KG	ND	ND	ND	ND	ND
Heptachlor epoxide	34400	NG/KG	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	33150	NG/KG	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	41300	NG/KG	ND	ND	ND	ND	ND
Alpha Chlordene		NG/KG	NA	NA	NA	NA	NA
Gamma Chlordene		NG/KG	NA	NA	NA	NA	NA
Oxychlordane	26850	NG/KG	ND	ND	ND	ND	ND
Trans Nonachlor	30850	NG/KG	ND	ND	ND	ND	ND
Cis Nonachlor	58500	NG/KG	ND	ND	ND	ND	ND
Alpha Endosulfan	54500	NG/KG	ND	ND	ND	ND	ND
Beta Endosulfan	57500	NG/KG	ND	ND	ND	ND	ND
Endosulfan Sulfate	72000	NG/KG	ND	ND	ND	ND	ND
Endrin aldehyde	123000	NG/KG	ND	ND	ND	ND	ND
Toxaphene	4535000	NG/KG	ND	ND	ND	ND	ND
Mirex	99000	NG/KG	ND	ND	ND	ND	ND
Methoxychlor	38450	NG/KG	ND	ND	ND	ND	ND
PCB 1016	1600000	NG/KG	ND	ND	ND	ND	ND
PCB 1221	2410000	NG/KG	ND	ND	ND	ND	ND
PCB 1232	1820000	NG/KG	ND	ND	ND	ND	ND
PCB 1242	1600000	NG/KG	ND	ND	ND	ND	ND
PCB 1248	1600000	NG/KG	ND	ND	ND	ND	ND
PCB 1254	1600000	NG/KG	ND	ND	ND	ND	ND
PCB 1260	1600000	NG/KG	ND	ND	ND	ND	ND
PCB 1262	1600000	NG/KG	ND	ND	ND	ND	ND
Aldrin + Dieldrin	34350	NG/KG	0	0	0	0	5060
Hexachlorocyclohexanes	25050	NG/KG	0	0	0	0	0
DDT and derivatives	75500	NG/KG	0	0	0	0	0
Chlordane + related cmpds.	41300	NG/KG	0	0	0	0	0
Polychlorinated biphenyls	2410000	NG/KG	0	0	0	0	0
Chlorinated Hydrocarbons	4535000	NG/KG	0	0	0	0	5060

* = Confirmed by MS/MS

ND= not detected
NA= not analyzed
NS= not sampled

METROBIOSOLIDS CENTER

ANNUAL 2020

Chlorinated Pesticide Analysis

Source			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date			30-JUN-2020	31-JUL-2020	31-AUG-2020	30-SEP-2020	31-OCT-2020
Analyte	MDL	Units	P1171268	P1178877	P1190465	P1190315	P1196337
Aldrin	34350	NG/KG	ND	ND	ND	ND	ND
Dieldrin	16250	NG/KG	ND	ND	ND	ND	ND
BHC, Alpha isomer	19550	NG/KG	ND	ND	ND	ND	ND
BHC, Beta isomer	25050	NG/KG	ND	ND	ND	ND	ND
BHC, Gamma isomer	24300	NG/KG	ND	ND	ND	ND	ND
BHC, Delta isomer	18100	NG/KG	ND	ND	ND	ND	ND
p,p-DDD	20300	NG/KG	ND	ND	ND	ND	ND
p,p-DDE	27400	NG/KG	ND	ND	ND	ND	ND
p,p-DDT	75500	NG/KG	ND	ND	ND	ND	ND
o,p-DDD	38200	NG/KG	ND	ND	ND	ND	ND
o,p-DDE	28800	NG/KG	ND	ND	ND	ND	ND
o,p-DDT	65500	NG/KG	ND	ND	ND	ND	ND
Heptachlor	34000	NG/KG	ND	ND	ND	ND	ND
Heptachlor epoxide	34400	NG/KG	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	33150	NG/KG	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	41300	NG/KG	ND	ND	ND	ND	DNQ24000
Alpha Chlordene		NG/KG	NA	NA	NA	NA	NA
Gamma Chlordene		NG/KG	NA	NA	NA	NA	NA
Oxychlordane	26850	NG/KG	ND	ND	ND	ND	ND
Trans Nonachlor	30850	NG/KG	ND	ND	ND	ND	ND
Cis Nonachlor	58500	NG/KG	ND	ND	ND	ND	ND
Alpha Endosulfan	54500	NG/KG	ND	ND	ND	ND	ND
Beta Endosulfan	57500	NG/KG	ND	ND	ND	ND	ND
Endosulfan Sulfate	72000	NG/KG	ND	ND	ND	ND	ND
Endrin aldehyde	123000	NG/KG	ND	ND	ND	ND	ND
Toxaphene	4535000	NG/KG	ND	ND	ND	ND	ND
Mirex	99000	NG/KG	ND	ND	ND	ND	ND
Methoxychlor	38450	NG/KG	ND	ND	ND	ND	ND
PCB 1016	1600000	NG/KG	ND	ND	ND	ND	ND
PCB 1221	2410000	NG/KG	ND	ND	ND	ND	ND
PCB 1232	1820000	NG/KG	ND	ND	ND	ND	ND
PCB 1242	1600000	NG/KG	ND	ND	ND	ND	ND
PCB 1248	1600000	NG/KG	ND	ND	ND	ND	ND
PCB 1254	1600000	NG/KG	ND	ND	ND	ND	ND
PCB 1260	1600000	NG/KG	ND	ND	ND	ND	ND
PCB 1262	1600000	NG/KG	ND	ND	ND	ND	ND
Aldrin + Dieldrin	34350	NG/KG	0	0	0	0	0
Hexachlorocyclohexanes	25050	NG/KG	0	0	0	0	0
DDT and derivatives	75500	NG/KG	0	0	0	0	0
Chlordane + related cmpds.	41300	NG/KG	0	0	0	0	0
Polychlorinated biphenyls	2410000	NG/KG	0	0	0	0	0
Chlorinated Hydrocarbons	4535000	NG/KG	0	0	0	0	0

ND= not detected
NA= not analyzed
NS= not sampled

METROBIOSOLIDS CENTER

ANNUAL 2020

Chlorinated Pesticide Analysis

Source			MBCDEWCN	MBCDEWCN	
Date			30-NOV-2020	31-DEC-2020	Annual
Analyte	MDL	Units	P1201790	P1208014	Average
Aldrin	34350	NG/KG	ND	ND	ND
Dieldrin	16250	NG/KG	ND	ND	422
BHC, Alpha isomer	19550	NG/KG	ND	ND	ND
BHC, Beta isomer	25050	NG/KG	ND	ND	ND
BHC, Gamma isomer	24300	NG/KG	ND	ND	ND
BHC, Delta isomer	18100	NG/KG	ND	ND	ND
p,p-DDD	20300	NG/KG	ND	ND	ND
p,p-DDE	27400	NG/KG	DNQ11200	ND	0.0
p,p-DDT	75500	NG/KG	ND	ND	ND
o,p-DDD	38200	NG/KG	DNQ17600	DNQ10300	0.0
o,p-DDE	28800	NG/KG	ND	ND	ND
o,p-DDT	65500	NG/KG	ND	ND	ND
Heptachlor	34000	NG/KG	ND	ND	ND
Heptachlor epoxide	34400	NG/KG	ND	ND	ND
Alpha (cis) Chlordane	33150	NG/KG	DNQ42600	44400	3700
Gamma (trans) Chlordane	41300	NG/KG	53100	DNQ33200	4400
Alpha Chlordene		NG/KG	NA	NA	NA
Gamma Chlordene		NG/KG	NA	NA	NA
Oxychlordane	26850	NG/KG	ND	ND	ND
Trans Nonachlor	30850	NG/KG	DNQ41900	53100	4400
Cis Nonachlor	58500	NG/KG	DNQ12900	DNQ10100	0.0
Alpha Endosulfan	54500	NG/KG	ND	ND	ND
Beta Endosulfan	57500	NG/KG	ND	ND	ND
Endosulfan Sulfate	72000	NG/KG	ND	ND	ND
Endrin aldehyde	123000	NG/KG	ND	ND	ND
Toxaphene	4535000	NG/KG	ND	ND	ND
Mirex	99000	NG/KG	ND	ND	ND
Methoxychlor	38450	NG/KG	ND	ND	ND
PCB 1016	1600000	NG/KG	ND	ND	ND
PCB 1221	2410000	NG/KG	ND	ND	ND
PCB 1232	1820000	NG/KG	ND	ND	ND
PCB 1242	1600000	NG/KG	ND	ND	ND
PCB 1248	1600000	NG/KG	ND	ND	ND
PCB 1254	1600000	NG/KG	ND	ND	ND
PCB 1260	1600000	NG/KG	ND	ND	ND
PCB 1262	1600000	NG/KG	ND	ND	ND
Aldrin + Dieldrin	34350	NG/KG	0	0	422
Hexachlorocyclohexanes	25050	NG/KG	0	0	0
DDT and derivatives	75500	NG/KG	0	0	0
Chlordane + related cmpds.	41300	NG/KG	53100	44400	8100
Polychlorinated biphenyls	2410000	NG/KG	0	0	0
Chlorinated Hydrocarbons	4535000	NG/KG	53100	44400	8520

ND= not detected
NA= not analyzed
NS= not sampled

METROBIOSOLIDS CENTER

ANNUAL 2020

Tributyl Tin (Sludge)

Source			MBCDEWCN	MBCDEWCN
Date			31-MAY-2020	31-OCT-2020
Analyte	MDL	UNITS	P1165500	P1196337
Dibutyltin	34.1	UG/KG	ND	ND
Monobutyltin	20	UG/KG	ND	ND
Tributyltin	26.8	UG/KG	ND	ND

ND= not detected
NA= not analyzed
NS= not sampled

METROBIOSOLIDS CENTER

ANNUAL 2020

HERBICIDES
EPA METHOD 8151A

Source			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date			29-FEB-2020	31-MAY-2020	31-AUG-2020	31-OCT-2020
Sample	MDL	Units	P1146172	P1165500	P1190465	P1196337
2,4-Dichlorophenoxyacetic acid	.35	MG/KG	ND	ND	ND	ND
2,4,5-TP (Silvex)	.35	MG/KG	ND	ND	ND	ND

ND=not detected; NS=not sampled; NA=not analyzed

METROBIOSOLIDS CENTER

ANNUAL 2020

Organophosphorus Pesticides

EPA Method 614

Source			MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
Date			04-FEB-2020	05-MAY-2020	04-AUG-2020	06-OCT-2020
Analyte	MDL	Units	P1143812	P1163099	P1181542	P1194341
Demeton O	3.43	UG/L	ND	ND	ND	ND
Demeton S	23.9	UG/L	ND	ND	ND	ND
Diazinon	5.55	UG/L	ND	ND	ND	ND
Guthion	10.4	UG/L	ND	ND	ND	ND
Malathion	4.31	UG/L	ND	ND	ND	ND
Parathion	1.92	UG/L	ND	ND	ND	ND
Chlorpyrifos	3.54	UG/L	ND	ND	ND	ND
Coumaphos	2.5	UG/L	ND	ND	ND	ND
Dichlorvos	3.35	UG/L	ND	ND	ND	ND
Disulfoton	2.26	UG/L	ND	ND	ND	ND
Stirophos	4.15	UG/L	ND	ND	ND	ND
Thiophosphorus Pesticides	10.4	UG/L	0.00	0.00	0.00	0.00
Demeton -O, -S	23.9	UG/L	0.00	0.00	0.00	0.00
Total Organophosphorus Pesticides	23.9	UG/L	0.00	0.00	0.00	0.00

Source			MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL
Date			04-FEB-2020	31-MAY-2020	04-AUG-2020	07-OCT-2020
Analyte	MDL	Units	P1143848	P1165500	P1181578	P1194377
Demeton O	3.43	UG/L	ND	ND	ND	ND
Demeton S	23.9	UG/L	ND	ND	ND	ND
Diazinon	5.55	UG/L	ND	ND	ND	ND
Guthion	10.4	UG/L	ND	ND	ND	ND
Malathion	4.31	UG/L	ND	ND	ND	ND
Parathion	1.92	UG/L	ND	ND	ND	ND
Chlorpyrifos	3.54	UG/L	ND	ND	ND	ND
Coumaphos	2.5	UG/L	ND	ND	ND	ND
Dichlorvos	3.35	UG/L	ND	ND	ND	ND
Disulfoton	2.26	UG/L	ND	ND	ND	ND
Stirophos	4.15	UG/L	ND	ND	ND	ND
Thiophosphorus Pesticides	10.4	UG/L	0.00	0.00	0.00	0.00
Demeton -O, -S	23.9	UG/L	0.00	0.00	0.00	0.00
Total Organophosphorus Pesticides	23.9	UG/L	0.00	0.00	0.00	0.00

ND=not detected
NS=not sampled
NA=not analyzed

METROBIOSOLIDS CENTER

ANNUAL 2020

Organophosphorus Pesticides

EPA Method 614

Source			MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL
Date			04-FEB-2020	05-MAY-2020	06-OCT-2020
Analyte	MDL	Units	P1143845	P1163132	P1194374
Demeton O	3.43	UG/L	ND	ND	ND
Demeton S	23.9	UG/L	ND	ND	ND
Diazinon	5.55	UG/L	ND	ND	ND
Guthion	10.4	UG/L	ND	ND	ND
Malathion	4.31	UG/L	ND	ND	ND
Parathion	1.92	UG/L	ND	ND	ND
Chlorpyrifos	3.54	UG/L	ND	ND	ND
Coumaphos	2.5	UG/L	ND	ND	ND
Dichlorvos	3.35	UG/L	ND	ND	ND
Disulfoton	2.26	UG/L	ND	ND	ND
Stirophos	4.15	UG/L	ND	ND	ND
Thiophosphorus Pesticides	10.4	UG/L	0.00	0.00	0.00
Demeton -O, -S	23.9	UG/L	0.00	0.00	0.00
Total Organophosphorus Pesticides	23.9	UG/L	0.00	0.00	0.00

ND=not detected
NS=not sampled
NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT

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Organophosphorus Pesticides
EPA Method 8141

Source			MBCDEWCN	MBCDEWCN
Date			31-MAY-2020	31-OCT-2020
Analyte	MDL	Units	P1165500	P1196337
Demeton O	89.7	UG/KG	ND	ND
Demeton S	582	UG/KG	ND	ND
Diazinon	89	UG/KG	ND	ND
Guthion	1270	UG/KG	ND	ND
Malathion	95.2	UG/KG	ND	ND
Parathion	77.7	UG/KG	ND	ND
Chlorpyrifos	150	UG/KG	ND	ND
Coumaphos	101	UG/KG	ND	ND
Dichlorvos	80.2	UG/KG	ND	ND
Disulfoton	74.8	UG/KG	ND	ND
Stirophos	148	UG/KG	ND	ND
Thiophosphorus Pesticides	1270	UG/KG	0.0	0.0
Demeton -O, -S	582	UG/KG	0.0	0.0
Total Organophosphorus Pesticides	1270	UG/KG	0.0	0.0

ND=not detected, NS=not sampled, NA=not analyzed

METROBIOSOLIDS CENTER
ANNUAL 2020

Base/Neutrals

Source			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date			29-FEB-2020	31-MAY-2020	31-AUG-2020	31-OCT-2020
Analyte	MDL	Units	P1146172	P1165500	P1190465	P1196337
Acenaphthene	6100	UG/KG	ND	ND	ND	ND
Acenaphthylene	6100	UG/KG	ND	ND	ND	ND
Anthracene	6100	UG/KG	ND	ND	ND	ND
Benzidine	7030	UG/KG	46000	ND	ND	ND
3,4-Benzo(b)fluoranthene	6100	UG/KG	ND	ND	ND	ND
Benzo[k]fluoranthene	6100	UG/KG	ND	ND	ND	ND
Benzo[a]anthracene	6100	UG/KG	ND	ND	ND	ND
Benzo[a]pyrene	6100	UG/KG	ND	ND	ND	ND
Benzo[g,h,i]perylene	6100	UG/KG	ND	ND	ND	ND
4-Bromophenyl phenyl ether	6100	UG/KG	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	6100	UG/KG	ND	ND	ND	ND
Bis-(2-chloroethyl) ether	6100	UG/KG	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	6100	UG/KG	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	6100	UG/KG	ND	ND	ND	ND
2-Chloronaphthalene	171	UG/KG	ND	ND	ND	ND
Chrysene	6100	UG/KG	ND	ND	ND	ND
Dibenzo(a,h)anthracene	6100	UG/KG	ND	ND	ND	ND
Butyl benzyl phthalate	6100	UG/KG	ND	ND	ND	ND
Di-n-butyl phthalate	6160	UG/KG	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	6160	UG/KG	ND	37800	56300	54100
Diethyl phthalate	6100	UG/KG	ND	ND	ND	ND
Dimethyl phthalate	6100	UG/KG	ND	ND	ND	ND
Di-n-octyl phthalate	6160	UG/KG	ND	ND	ND	ND
3,3-Dichlorobenzidine	6100	UG/KG	ND	ND	ND	ND
2,4-Dinitrotoluene	6160	UG/KG	ND	ND	ND	ND
2,6-Dinitrotoluene	6160	UG/KG	ND	ND	ND	ND
1,2-Diphenylhydrazine	412	UG/KG	ND	ND	ND	ND
Fluoranthene	6100	UG/KG	ND	ND	ND	ND
Fluorene	6100	UG/KG	ND	ND	ND	ND
Hexachlorobenzene	6100	UG/KG	ND	ND	ND	ND
Hexachlorobutadiene	6100	UG/KG	ND	ND	ND	ND
Hexachlorocyclopentadiene	6100	UG/KG	ND	ND	ND	ND
Hexachloroethane	6100	UG/KG	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	6100	UG/KG	ND	ND	ND	ND
Isophorone	6100	UG/KG	ND	ND	ND	ND
Naphthalene	6100	UG/KG	ND	ND	ND	DNQ285
Nitrobenzene	6100	UG/KG	ND	ND	ND	ND
N-nitrosodimethylamine	6100	UG/KG	ND	ND	ND	ND
N-nitrosodi-n-propylamine	6100	UG/KG	ND	ND	ND	ND
N-nitrosodiphenylamine	6100	UG/KG	ND	ND	ND	ND
Phenanthrene	6100	UG/KG	ND	ND	ND	ND
Pyrene	6100	UG/KG	ND	ND	ND	ND
1,2,4-Trichlorobenzene	6100	UG/KG	ND	ND	ND	ND
1,3-Dichlorobenzene	6160	UG/KG	ND	ND	ND	ND
1,2-Dichlorobenzene	6160	UG/KG	ND	ND	ND	ND
1,4-Dichlorobenzene	6160	UG/KG	ND	ND	ND	ND
PolyNuc. Aromatic Hydrocarbons	6100	UG/KG	0	0	0	0
Base/Neutral Compounds	7030	UG/KG	46000	37800	56300	54100
Dichlorobenzenes	6160	UG/KG	0	0	0	0
Benzo[e]pyrene	50.9	UG/KG	ND	ND	ND	ND
Biphenyl		UG/KG	ND	397	DNQ311*	DNQ320*
2,6-Dimethylnaphthalene	182	UG/KG	1040	1030	1300	918
1-Methylnaphthalene	190	UG/KG	ND	ND	ND	ND
1-Methylphenanthrene	238	UG/KG	ND	ND	ND	ND
2-Methylnaphthalene	181	UG/KG	425	DNQ357	450	440
2,3,5-Trimethylnaphthalene	168	UG/KG	ND	ND	ND	ND
Perylene	6100	UG/KG	ND	ND	ND	ND
Pyridine	1580	UG/KG	ND	ND	ND	ND

* = Method blank value is outside method acceptance limits; sample result not included in average calculations.

ND= not detected, NA= not analyzed, NS= not sampled

METROBIOSOLIDS CENTER

ANNUAL 2020

Phenolics

Source			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	
Date			29-FEB-2020	31-MAY-2020	31-AUG-2020	31-OCT-2020	
Analyte	MDL	Units	P1146172	P1165500	P1190465	P1196337	Average
2-Chlorophenol	6100	UG/KG	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	6100	UG/KG	ND	ND	ND	ND	ND
2,4-Dichlorophenol	6100	UG/KG	ND	ND	ND	ND	ND
2,4-Dimethylphenol	6100	UG/KG	ND	ND	ND	ND	ND
2,4-Dinitrophenol	6100	UG/KG	ND	ND	ND	ND	ND
4,6-dinitro-2-methylphenol	14800	UG/KG	ND	ND	ND	ND	ND
2-Nitrophenol	6100	UG/KG	ND	ND	ND	ND	ND
4-Nitrophenol	14800	UG/KG	ND	ND	ND	ND	ND
Pentachlorophenol	14800	UG/KG	ND	ND	ND	ND	ND
Phenol	6100	UG/KG	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	6100	UG/KG	ND	ND	ND	ND	ND
2-Methylphenol	6100	UG/KG	ND	ND	ND	ND	ND
4-Methylphenol(3-MP is unresolved)	6100	UG/KG	ND	ND	ND	1120	280
2,4,5-Trichlorophenol	14800	UG/KG	ND	ND	ND	ND	ND
Total Chlorinated Phenols	14800	UG/KG	0	0	0	0	0
Total Non-Chlorinated Phenols	14800	UG/KG	0	0	0	1120	280
Phenols	14800	UG/KG	0	0	0	1120	280

ND= not detected
NA= not analyzed
NS= not sampled

METROBIOSOLIDS CENTER

ANNUAL 2020

Purgeables

Source			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date			31-JAN-2020	29-FEB-2020	31-MAR-2020	30-APR-2020	31-MAY-2020	30-JUN-2020
Analyte	MDL	Units	P1143475	P1146172	P1154208	P1160484	P1165500	P1171268
Acrolein	118	UG/KG	ND	ND	ND^	ND^	ND	ND
Acrylonitrile	62.2	UG/KG	ND	ND	ND	ND	ND	ND
Benzene	15.5	UG/KG	ND	ND	ND	ND	ND	<7.7
Bromodichloromethane	16.1	UG/KG	ND	ND	ND	ND	ND	ND
Bromoform	17.5	UG/KG	ND	ND	ND	ND	ND	ND
Bromomethane	50.5	UG/KG	ND*	ND*	ND	ND	ND	ND
Carbon tetrachloride	21.9	UG/KG	ND	ND	ND	ND	ND	ND
Chlorobenzene	18.9	UG/KG	ND	ND	ND	ND	ND	ND
Chloroethane	13.3	UG/KG	ND	ND	ND	ND	ND	ND
Chloroform	16.8	UG/KG	ND	ND	ND	ND	ND	ND
Chloromethane	24.9	UG/KG	ND	ND	ND	ND	ND	ND
Dibromochloromethane	17.5	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	11	UG/KG	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	13.6	UG/KG	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	26.5	UG/KG	34.1	33.2	30.2	33.2	36.1	43.6
Dichlorodifluoromethane	40.7	UG/KG	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	14.5	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	26.3	UG/KG	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	36.6	UG/KG	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	25.4	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	19	UG/KG	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	18.3	UG/KG	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	15.7	UG/KG	ND	ND	ND	ND	ND	ND
Ethylbenzene	15	UG/KG	382	162	539	476	357	394
Methylene chloride	49.9	UG/KG	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	43.1	UG/KG	ND	ND	ND	ND	ND	ND
Tetrachloroethene	50.6	UG/KG	ND	ND	ND	ND	ND	ND
Toluene	28.9	UG/KG	84.8	45.3	74.0	77.7	103	107
1,1,1-Trichloroethane	23.4	UG/KG	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	20.5	UG/KG	ND	ND	ND	ND	ND	ND
Trichloroethene	44.6	UG/KG	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	16.1	UG/KG	ND	ND	ND	ND	ND	ND
Vinyl chloride	13.5	UG/KG	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	18.3	UG/KG	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Compounds	50.5	UG/KG	0.0	0.0	0.0	0.0	0.0	0.0
Purgeable Compounds	50.6	UG/KG	501	241	643	587	496	545
Additional Analytes Determined:								
Acetone	460	UG/KG	17800	569	15100	22100	20600	26400
Allyl chloride	26.3	UG/KG	ND	ND	ND	ND	ND	ND
Benzyl chloride	31.4	UG/KG	ND	ND	ND	ND	ND	ND
2-Butanone	611	UG/KG	4690	<123	4290	6340	5200	7360
Carbon disulfide	104	UG/KG	97.9	133	70.9	75.5	79.9	99.1
Chloroprene	27.7	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	18.2	UG/KG	ND	ND	ND	ND	ND	ND
Isopropylbenzene	11.7	UG/KG	DNQ16.8	18.8	ND	ND	ND	ND
Methyl Iodide	27.6	UG/KG	ND	ND	ND	ND	ND	ND
Methyl methacrylate	17.4	UG/KG	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	24.7	UG/KG	ND	ND	ND	ND	ND	ND
2-Nitropropane	335	UG/KG	ND	ND	ND	ND	ND	ND
ortho-xylene	14.7	UG/KG	31.3	53.4	34.0	29.6	32.1	45.6
Styrene	17.6	UG/KG	70.1	43.7	107	61.3	54.4	64.2
meta,para xylenes	31.1	UG/KG	52.0	35.4	63.6	54.5	62.1	86.3
2-Chloroethylvinyl ether	40.2	UG/KG	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	71.7	UG/KG	<33.2	ND	ND	ND	ND	36.1

DNQ= Detected but not quantified. Sample result is less than Minimum Level but greater than or equal to MDL.
ND= not detected, NA= not analyzed, NS= not sampled

* = Recovery of compound in internal check sample outside method acceptance limits; value not included in average calculations.
^ = Relative percent difference of sample duplicates outside method acceptance criteria; value not included in average calculations.

METROBIOSOLIDS CENTER

ANNUAL 2020

Purgeables

Source			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date			31-JUL-2020	31-AUG-2020	30-SEP-2020	31-OCT-2020	30-NOV-2020	31-DEC-2020
Analyte	MDL	Units	P1178877	P1190465	P1190315	P1196337	P1201790	P1208014
Acrolein	118	UG/KG	ND	ND	ND	ND	ND	ND**
Acrylonitrile	62.2	UG/KG	ND	ND	ND	ND	ND	ND
Benzene	15.5	UG/KG	ND	ND	ND	ND	ND	ND
Bromodichloromethane	16.1	UG/KG	ND	ND	ND	ND	ND	ND
Bromoform	17.5	UG/KG	ND	ND	ND	ND	ND	ND
Bromomethane	50.5	UG/KG	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	21.9	UG/KG	ND	ND	ND	ND	ND	ND
Chlorobenzene	18.9	UG/KG	ND	ND	ND	ND	ND	ND
Chloroethane	13.3	UG/KG	ND	ND	ND	ND	ND	ND
Chloroform	16.8	UG/KG	ND	ND	ND	ND	ND	ND
Chloromethane	24.9	UG/KG	ND	ND	ND	ND	ND	ND
Dibromochloromethane	17.5	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	11	UG/KG	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	13.6	UG/KG	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	26.5	UG/KG	42.8	35.5	46.8	44.5	39.2	33.8
Dichlorodifluoromethane	40.7	UG/KG	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	14.5	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	26.3	UG/KG	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	36.6	UG/KG	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	25.4	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	19	UG/KG	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	18.3	UG/KG	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	15.7	UG/KG	ND	ND	ND	ND	ND	ND
Ethylbenzene	15	UG/KG	262	224	212	205	224	176
Methylene chloride	49.9	UG/KG	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	43.1	UG/KG	ND	ND	ND	ND	ND	ND
Tetrachloroethene	50.6	UG/KG	ND	ND	ND	ND	ND	ND
Toluene	28.9	UG/KG	105	109	99.7	120	88.1	68.5
1,1,1-Trichloroethane	23.4	UG/KG	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	20.5	UG/KG	ND	ND	ND	ND	ND	ND
Trichloroethene	44.6	UG/KG	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	16.1	UG/KG	ND	ND	ND	ND	ND	ND
Vinyl chloride	13.5	UG/KG	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	18.3	UG/KG	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Compounds	50.5	UG/KG	0.0	0.0	0.0	0.0	0.0	0.0
Purgeable Compounds	50.6	UG/KG	410	369	359	370	351	279
Additional Analytes Determined:								
Acetone	460	UG/KG	33800	14900	31000	26400	22300	29100
Allyl chloride	26.3	UG/KG	ND	ND	ND	ND	ND	ND
Benzyl chloride	31.4	UG/KG	ND	ND	ND	ND	ND	ND
2-Butanone	611	UG/KG	8990	3390	8060	7410	6480	6010
Carbon disulfide	104	UG/KG	114	84.9	106	<104	112	125
Chloroprene	27.7	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	18.2	UG/KG	ND	ND	ND	ND	ND	ND
Isopropylbenzene	11.7	UG/KG	ND	ND	ND	ND	ND	ND
Methyl Iodide	27.6	UG/KG	ND	ND	ND	ND	ND	ND
Methyl methacrylate	17.4	UG/KG	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	24.7	UG/KG	ND	ND	ND	ND	ND	ND
2-Nitropropane	335	UG/KG	ND	ND	ND	ND	ND	ND
ortho-xylene	14.7	UG/KG	40.9	43.6	43.0	43.6	DNQ33.6	36.1
Styrene	17.6	UG/KG	46.1	43.8	36.2	DNQ33.9	40.2	DNQ32.2
meta,para xylenes	31.1	UG/KG	76.1	85.3	80.6	86.0	DNQ63.6	70.0
2-Chloroethylvinyl ether	40.2	UG/KG	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	71.7	UG/KG	<71.7	ND	ND	<43.4	<42.8	<41.6

DNQ= Detected but not quantified. Sample result is less than Minimum Level but greater than or equal to MDL.
ND= not detected, NA= not analyzed, NS= not sampled

** = Surrogate recovery outside acceptance limits; sample result not included in average calculations.

METROBIOSOLIDS CENTER

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Purgeables

Source Analyte	MDL	Units	Average MBCDEWCN
Acrolein	118	UG/KG	ND
Acrylonitrile	62.2	UG/KG	ND
Benzene	15.5	UG/KG	0.0
Bromodichloromethane	16.1	UG/KG	ND
Bromoform	17.5	UG/KG	ND
Bromomethane	50.5	UG/KG	ND
Carbon tetrachloride	21.9	UG/KG	ND
Chlorobenzene	18.9	UG/KG	ND
Chloroethane	13.3	UG/KG	ND
Chloroform	16.8	UG/KG	ND
Chloromethane	24.9	UG/KG	ND
Dibromochloromethane	17.5	UG/KG	ND
1,2-Dichlorobenzene	11	UG/KG	ND
1,3-Dichlorobenzene	13.6	UG/KG	ND
1,4-Dichlorobenzene	26.5	UG/KG	37.8
Dichlorodifluoromethane	40.7	UG/KG	ND
1,1-Dichloroethane	14.5	UG/KG	ND
1,2-Dichloroethane	26.3	UG/KG	ND
1,1-Dichloroethene	36.6	UG/KG	ND
trans-1,2-dichloroethene	25.4	UG/KG	ND
1,2-Dichloropropane	19	UG/KG	ND
cis-1,3-dichloropropene	18.3	UG/KG	ND
trans-1,3-dichloropropene	15.7	UG/KG	ND
Ethylbenzene	15	UG/KG	301
Methylene chloride	49.9	UG/KG	ND
1,1,2,2-Tetrachloroethane	43.1	UG/KG	ND
Tetrachloroethene	50.6	UG/KG	ND
Toluene	28.9	UG/KG	90.2
1,1,1-Trichloroethane	23.4	UG/KG	ND
1,1,2-Trichloroethane	20.5	UG/KG	ND
Trichloroethene	44.6	UG/KG	ND
Trichlorofluoromethane	16.1	UG/KG	ND
Vinyl chloride	13.5	UG/KG	ND
1,2,4-Trichlorobenzene	18.3	UG/KG	ND
Halomethane Purgeable Compounds	50.5	UG/KG	0.0
Purgeable Compounds	50.6	UG/KG	429

Additional Analytes Determined:

Acetone	460	UG/KG	21670
Allyl chloride	26.3	UG/KG	ND
Benzyl chloride	31.4	UG/KG	ND
2-Butanone	611	UG/KG	5685
Carbon disulfide	104	UG/KG	91.5
Chloroprene	27.7	UG/KG	ND
1,2-Dibromoethane	18.2	UG/KG	ND
Isopropylbenzene	11.7	UG/KG	1.7
Methyl Iodide	27.6	UG/KG	ND
Methyl methacrylate	17.4	UG/KG	ND
Methyl tert-butyl ether	24.7	UG/KG	ND
2-Nitropropane	335	UG/KG	ND
ortho-xylene	14.7	UG/KG	39.4
Styrene	17.6	UG/KG	56.7
meta,para xylenes	31.1	UG/KG	68.4
2-Chloroethylvinyl ether	40.2	UG/KG	ND
4-Methyl-2-pentanone	71.7	UG/KG	3.0

ND= not detected, NA= not analyzed, NS= not sampled

METROBIOSOLIDS CENTER

ANNUAL 2020

Dioxin and Furan AnalysiS

Source			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date			31-JAN-2020	29-FEB-2020	31-MAR-2020	30-APR-2020	31-MAY-2020	30-JUN-2020	31-JUL-2020
Analyte	MDL	Units	P1143475	P1146172	P1154208	P1160484	P1165500	P1171268	P1178877
2,3,7,8-tetra CDD	.0464	PG/G	ND	ND	ND	DNQ0.31	DNQ0.28	DNQ0.25	DNQ0.26
1,2,3,7,8-penta CDD	.0791	PG/G	ND	ND	DNQ2.76	DNQ1.79	DNQ0.77	DNQ1.19	ND
1,2,3,4,7,8_hexa_CDD	.0846	PG/G	DNQ1.50	DNQ1.10	DNQ1.73	DNQ1.16	DNQ1.09	DNQ0.94	DNQ1.12
1,2,3,6,7,8-hexa CDD	.0993	PG/G	DNQ7.35	DNQ5.28	DNQ7.10	7.61	5.51	6.06	6.12
1,2,3,7,8,9-hexa CDD	.0861	PG/G	DNQ3.32	DNQ2.28	DNQ3.15	3.43	2.78	2.50	2.68
1,2,3,4,6,7,8-hepta CDD	.098	PG/G	191	156	176	205	150	169	178
octa CDD	.149	PG/G	1070	984	931	1030	838	784	843
2,3,7,8-tetra CDF	.0397	PG/G	2.67	3.22	2.39	2.28	2.12	2.75	3.07
1,2,3,7,8-penta CDF	.0626	PG/G	DNQ1.31	DNQ1.03	DNQ1.07	DNQ1.18	DNQ0.97	DNQ1.03	DNQ1.34
2,3,4,7,8-penta CDF	.0713	PG/G	DNQ2.17	DNQ1.69	DNQ2.24	DNQ1.97	DNQ1.55	DNQ1.99	DNQ2.13
1,2,3,4,7,8-hexa CDF	.0513	PG/G	DNQ2.22	DNQ1.67	DNQ1.96	7.20	DNQ1.53	DNQ1.88	DNQ1.95
1,2,3,6,7,8-hexa CDF	.0576	PG/G	DNQ2.38	DNQ1.64	DNQ1.76	2.85	DNQ1.57	DNQ1.70	DNQ2.00
1,2,3,7,8,9-hexa CDF	.0715	PG/G	DNQ0.95	DNQ0.71	ND	DNQ0.95	DNQ0.75	DNQ0.73	DNQ0.70
2,3,4,6,7,8-hexa CDF	.0623	PG/G	DNQ2.14	DNQ1.71	DNQ2.12	DNQ2.43	DNQ1.83	DNQ2.05	DNQ2.19
1,2,3,4,6,7,8-hepta CDF	.0753	PG/G	20.9	15.5	16.9	41.9	18.2	18.1	17.6
1,2,3,4,7,8,9-hepta CDF	.0868	PG/G	DNQ1.64	DNQ1.12	DNQ1.69	DNQ2.24	DNQ1.19	DNQ1.28	DNQ1.26
octa CDF	.156	PG/G	45.4	34.8	37.8	78.7	37.9	38.6	36.4

Source			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date			31-AUG-2020	30-SEP-2020	31-OCT-2020	30-NOV-2020	31-DEC-2020
Analyte	MDL	Units	P1190465	P1190315	P1196337	P1201790	P1208014
2,3,7,8-tetra CDD	.0464	PG/G	ND	DNQ0.35	ND	DNQ0.31	DNQ0.30
1,2,3,7,8-penta CDD	.0791	PG/G	DNQ1.70	2.61	ND	DNQ2.26	ND
1,2,3,4,7,8_hexa_CDD	.0846	PG/G	DNQ1.24	DNQ1.06	DNQ1.07	DNQ1.06	DNQ0.80
1,2,3,6,7,8-hexa CDD	.0993	PG/G	7.10	7.26	4.93	6.00	4.79
1,2,3,7,8,9-hexa CDD	.0861	PG/G	2.93	2.62	DNQ2.20	DNQ2.50	DNQ1.96
1,2,3,4,6,7,8-hepta CDD	.098	PG/G	170	204	163	163	155
octa CDD	.149	PG/G	817	1140	1140	859	726
2,3,7,8-tetra CDF	.0397	PG/G	2.79	3.04	2.84	2.21	1.93
1,2,3,7,8-penta CDF	.0626	PG/G	DNQ1.10	DNQ1.30	DNQ1.33	DNQ1.07	DNQ1.05
2,3,4,7,8-penta CDF	.0713	PG/G	DNQ1.97	DNQ2.07	DNQ2.18	DNQ1.88	DNQ1.81
1,2,3,4,7,8-hexa CDF	.0513	PG/G	DNQ1.99	DNQ1.86	DNQ2.08	DNQ1.83	DNQ1.87
1,2,3,6,7,8-hexa CDF	.0576	PG/G	DNQ1.94	DNQ2.17	DNQ2.36	DNQ2.36	DNQ1.97
1,2,3,7,8,9-hexa CDF	.0715	PG/G	DNQ0.68	DNQ0.68	DNQ0.76	DNQ0.71	DNQ0.53
2,3,4,6,7,8-hexa CDF	.0623	PG/G	DNQ2.34	DNQ2.39	DNQ2.26	DNQ2.14	DNQ1.44
1,2,3,4,6,7,8-hepta CDF	.0753	PG/G	17.9	17.2	17.8	16.5	13.0
1,2,3,4,7,8,9-hepta CDF	.0868	PG/G	DNQ1.47	DNQ1.16	DNQ1.38	DNQ1.14	DNQ1.00
octa CDF	.156	PG/G	35.4	35.5	35.0	32.3	28.7

ND = not detected
NA = not analyzed
NS = not sampled

DNQ= Detected but not quantified. Sample result is less than Minimum Level but greater than or equal to MDL.

ANALYZED BY: Frontier Analytical Laboratories

Enclosure 9 Summary Tables for Title 22 analyses of dewatered biosolids for 2020

Title 22 CCR Summary Tables

Concentrations of Title 22 analytes (metals and organics) both on a wet weight and dry weight concentration basis for monthly composite of daily samples of sludge being hauled from the Metro Biosolids Center.

The tables list the TTLC (Total Threshold Limit Concentration) or STLC (Soluble Threshold Limit Concentration) limits in the left column for each analyte.

Definitions:
MBCDEWCN = Metro Biosolids Center dewatered sludge.

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2020 POINT LOMA WASTEWATER TREATMENT PLANT ANNUAL REPORT

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CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TEST (TITLE 22)

METRO BIOSOLIDS CENTER (MBC)

METALS

WET WEIGHT Concentration (calculated)

	TTLC	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
	Wet wt	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
ANALYTE	mg/Kg	P1143475	P1146172	P1154208	P1160484	P1165500	P1171268	P1178877	P1190465	P1190315	P1196337	P1201790	P1208014
ANTIMONY	500	1.86	1.87	1.79	1.68	1.38	1.33	1.44	1.52	1.85	2.00	1.96	1.77
ARSENIC	500	1.19	0.876	0.65	1.33	< 0.09	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.09	< 0.09
BARIUM	10000	74.8	81.4	92.3	78.6	77	74.8	70.8	71.8	74.3	85.1	85.3	86.6
BERYLLIUM	75	0.009	0.021	0.018	0.035	0.025	0.022	0.018	0.019	< 0.003	0.016	0.008	0.013
CADMIUM	100	0.08	0.249	< 0.117	< 0.012	0.217	< 0.008	0.167	0.370	0.011	< 0.011	< 0.010	0.064
CHROMIUM(VI)	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM(total)	2500	17.5	15.0	15.8	15.1	14.8	14.0	13.8	13.7	13.9	16.2	15.7	16.2
COBALT	8000	0.931	0.885	1.040	0.901	1.01	21.9	0.82	1.07	0.83	1.04	0.97	0.93
COPPER	2500	165	165	172	158	162	183	160	163	175	178	167	174
LEAD	1000	2.80	3.14	3.71	3.23	3.53	3.77	3.36	3.06	3.16	3.13	3.1	3.4
MERCURY	20	0.161	0.206	0.269	0.174	0.176	0.185	0.119	0.255	0.169	0.188	0.184	0.179
MOLYBDENUM	3500	4.47	4.20	4.44	4.20	4.36	4.34	4.65	4.64	5.25	5.58	4.92	5.25
NICKEL	2000	7.71	6.54	7.04	6.05	6.87	6.85	6.33	6.43	6.53	7.59	7.23	5.99
SELENIUM	100	1.88	1.80	1.75	1.86	1.76	1.75	1.72	0.83	0.77	1.97	1.757	1.20
SILVER	500	0.870	0.888	1.02	0.847	0.758	5.08	0.684	0.716	0.764	0.876	0.68	0.744
THALLIUM	700	DNQ 0.072	< 0.059	0.628	< 0.058	< 0.057	< 0.055	< 0.053	< 0.054	0.114	< 0.054	< 0.055	< 0.057
VANADIUM	2400	7.85	6.60	7.07	10.28	9.86	7.21	6.14	5.71	5.68	5.63	5.83	5.91
ZINC	5000	267	260	295	253	258	256	254	251	265	275	265	268
FLUORIDE	18000	10.5	11.51	< 1.49	< 1.47	40.19	55.7	47.53	47.44	50.0	73.4	22.3	61.91
SULFIDES-REACTIVE	NA	< 11	< 11	< 11	< 11	< 11	< 10	< 10	< 10	< 10	< 10.3	36	< 11
SULFIDES-TOTAL	NA	1793	2161	2129	1958	3700	4341	7556	5146	2802	8568	7673	3380
TOTAL SOLIDS (%)		29.2	29.6	29.2	28.8	28.5	27.3	26.7	26.8	27.2	27.2	27.5	28.4

DRY WEIGHT Concentration

	TTLC	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
	Wet wt	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
ANALYTE	mg/Kg	P1143475	P1146172	P1154208	P1160484	P1165500	P1171268	P1178877	P1190465	P1190315	P1196337	P1201790	P1208014
ANTIMONY	500	6.37	6.31	6.13	5.83	4.85	4.89	5.41	5.69	6.81	7.36	7.12	6.23
ARSENIC	500	4.09	2.96	2.23	4.61	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
BARIUM	10000	256	275	316	273	270	274	265	268	273	313	310	305
BERYLLIUM	75	0.03	0.070	0.06	0.120	0.089	0.08	0.069	0.07	< 0.01	0.06	0.03	0.047
CADMIUM	100	0.27	0.840	< 0.40	< 0.04	0.761	< 0.03	0.626	1.38	< 0.04	< 0.04	< 0.036	0.226
CHROMIUM(VI)	500	NA	NA	NA	NA	NA	NA	NA				NA	
CHROMIUM(total)	2500	60.1	50.6	54.0	52.4	52.0	51.3	51.8	51	51	59.4	57.0	56.9
COBALT	8000	3.19	2.99	3.56	3.13	3.53	80.1	3.06	4	3.05	3.83	3.52	3.27
COPPER	2500	564	556	589	550	569	671	598	610	645	654	609	614
LEAD	1000	9.60	10.6	12.7	11.2	12.4	13.8	12.6	11.4	11.6	11.5	11.2	12.1
MERCURY^	20	0.552	0.695	0.921	0.60	0.618	0.677	0.445	0.95	0.62	0.69	0.67	0.630
MOLYBDENUM	3500	15.3	14.2	15.2	14.6	15.3	15.9	17.4	17.3	19.3	20.5	17.9	18.5
NICKEL	2000	26.4	22.1	24.1	21	24.1	25.1	23.7	24	24	27.9	26.3	21.1
SELENIUM	100	6.43	6.09	5.99	6.46	6.16	6.42	6.44	3.09	2.82	7.26	6.39	4.24
SILVER	500	2.98	3.00	3.49	2.94	2.66	18.6	2.56	2.67	2.81	3.22	2.49	2.62
THALLIUM	700	DNQ0 0.247	< 0.2	2.15	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.42	< 0.2	< 0.2	< 0.2
VANADIUM	2400	26.9	22.3	24.2	35.7	34.6	26.4	23.0	21.3	20.9	20.7	21.2	20.8
ZINC	5000	913	878	1010	880	904	937	951	936	976	1010	963	944
FLUORIDE	18000	36	38.9	< 5.1	< 5.1	141	204	178	177	184	270	81.0	218
SULFIDES-REACTIVE	NA	< 38	< 38	< 38	< 38	< 38	< 38	< 38	< 38	< 38	< 38	130	< 38
SULFIDES-TOTAL	NA	6140	7300	7290	6800	20000	15900	28300	19200	10300	31500	27900	11900

TTLC = Total Threshold Limit Concentration STLC = Soluble Threshold Limit Concentration

NA = Not Analyzed, NS = Not Sampled * = The total concentration is less than 10 times the the STLC, therefore by definition this substance is below hazardous concentrations.

ORGANICS

WET WEIGHT Concentration (calculated)

ANALYTE	TTLC Wet wt mg/Kg	MBCDEWCN Jan-20 P1143475	MBCDEWCN Feb-20 P1146172	MBCDEWCN Mar-20 P1154208	MBCDEWCN Apr-20 P1160484	MBCDEWCN May-20 P1165500	MBCDEWCN Jun-20 P1171268	MBCDEWCN Jul-20 P1178877	MBCDEWCN Aug-20 P1190465	MBCDEWCN Sep-20 P1190315	MBCDEWCN Oct-20 P1196337	MBCDEWCN Nov-20 P1201790	MBCDEWCN Dec-20 P1208014
ALDRIN	1.4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLORDANE	2.5	nd	nd	nd	nd	nd	nd	nd	NA	nd	0.006	0.027	0.021
DDT,DDE,DDD	1.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.0083	0.0028
2,4-DCPAA	100	NA	nd	NA	NA	nd		NA	NA	NA	nd	nd	NA
DIELDRIN	8.0	nd	nd	nd	nd	0.003	nd	nd	nd	nd	nd	nd	nd
ENDRIN	0.2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
HEPTACHLOR	4.7	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
KEPONE	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LINDANE	4.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BHC, Total	4.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
METHOXYCHLOR	100	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MIREX	21	nd	nd	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd
PENTACHLOROPHENOL	17	NA	nd	NA	NA	nd	NA	NA	nd	NA	nd	NA	NA
PCBs (TOTAL)	50	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOXAPHENE	5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROETHENE	2040	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NA
2,4,5-TCPPA	10	NA	nd	NA	NA	nd	NA	NA	0.012	NA	nd	NA	NA
TOTAL SOLIDS (%)		29.2	29.6	29.2	28.8	28.5	27.0	26.7	26.8	27.2	27.2	27.5	28.4
pH	>2-<12	7.94	8.10	8.10	8.15	8.17	8.07	26.70	8.04	7.81	7.81	7.88	7.75

DRY WEIGHT Concentration

ANALYTE	TTLC Wet wt mg/Kg	MBCDEWCN Jan-20 P1143475	MBCDEWCN Feb-20 P1146172	MBCDEWCN Mar-20 P1154208	MBCDEWCN Apr-20 P1160484	MBCDEWCN May-20 P1165500	MBCDEWCN Jun-20 P1171268	MBCDEWCN Jul-20 P1178877	MBCDEWCN Aug-20 P1190465	MBCDEWCN Sep-20 P1190315	MBCDEWCN Oct-20 P1196337	MBCDEWCN Nov-20 P1201790	MBCDEWCN Dec-20 P1208014
ALDRIN	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLORDANE	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.021	0.097	0.075
DDT,DDE,DDD	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	0.01
2,4-D	100	NA	ND	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA
DIELDRIN	8.0	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	ND
ENDRIN	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEPTACHLOR	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
KEPONE	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LINDANE	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BCH, Total	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
METHOXYCHLOR	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MIREX	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENTACHLOROPHENOL	17	NA	ND	NA	NA	ND	NA	NA	ND	NA	ND	NA	NA
PCBs (TOTAL)	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOXAPHENE	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHENE	2040	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
2,4,5-TP	10	NA	ND	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA

TTLC = Total Threshold Limit Concentration STLC = Soluble Threshold Limit Concentration

ANALYTE	STLC Wet wt mg/L	MBCDEWCN Jan-20 P1143475	MBCDEWCN Feb-20 P1146172	MBCDEWCN Mar-20 P1154208	MBCDEWCN Apr-20 P1160484	MBCDEWCN May-20 P1165500	MBCDEWCN Jun-20 P1171268	MBCDEWCN Jul-20 P1178877	MBCDEWCN Aug-20 P1190465	MBCDEWCN Sep-20 P1190315	MBCDEWCN Oct-20 P1196337	MBCDEWCN Nov-20 P1201790	MBCDEWCN Dec-20 P1208014
ANTIMONY	15.0	*	*	*	*	*	*	*	*	*	*	*	*
ARSENIC	5.0	*	*	*	*	*	*	*	*	*	*	*	*
BARIUM	100.0	*	*	*	*	*	*	*	*	*	*	*	*
BERYLLIUM	0.75	*	*	*	*	*	*	*	*	*	*	*	*
CADMIUM	1.0	*	*	*	*	*	*	*	*	*	*	*	*
CHROMIUM(VI)	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM(total)	560.0	*	*	*	*	*	*	*	*	*	*	*	*
COBALT	80.0	*	*	*	*	*	*	*	*	*	*	*	*
COPPER	25.0	*	*	*	*	*	*	*	*	*	*	*	*
LEAD	5.0	*	*	*	*	*	*	*	*	*	*	*	*
MERCURY	0.20	*	*	*	*	*		*	*	*	*	*	*
MOLYBDENUM	350.0	*	*	*	*	*	*	*	*	*	*	*	*
NICKEL	20.0	*	*	*	*	*	*	*	*	*	*	*	*
SELENIUM	1.0	*	*	*	*	*	*	*	*	*	*	*	*
SILVER	5.0	*	*	*	*	*	*	*	*	*	*	*	*
THALLIUM	7.0	*	*	*	*	*	*	*	*	*	*	*	*
VANADIUM	24.0	*	*	*	*	*	*	*	*	*	*	*	*
ZINC	250.0	*	*	*	*	*	*	*	*	*	*	*	*

* = The total concentrations are less than 10 times the the STLC, this substance is below STLC limits by definition.

WASTE EXTRACTION TEST - ORGANICS

ANALYTE	STLC Wet wt mg/L	MBCDEWCN Jan-20 P1143475	MBCDEWCN Feb-20 P1146172	MBCDEWCN Mar-20 P1154208	MBCDEWCN Apr-20 P1160484	MBCDEWCN May-20 P1165500	MBCDEWCN Jun-20 P1171268	MBCDEWCN Jul-20 P1178877	MBCDEWCN Aug-20 P1190465	MBCDEWCN Sep-20 P1190315	MBCDEWCN Oct-20 P1196337	MBCDEWCN Nov-20 P1201790	MBCDEWCN Dec-20 P1208014
ALDRIN	0.14	*	*	*	*	*	*	*	*	*	*	*	*
CHLORDANE	0.25	*	*	*	*	*	*	*	*	*	*	*	*
DDT,DDE,DDD	0.10	*	*	*	*	*	*	*	*	*	*	*	*
2,4-D	10.00	NA	*	*	NA	*	NA	NA	NA	NA	NA	NA	NA
DIELDRIN	0.80	*	*	*	*	*	*	*	*	*	*	*	*
ENDRIN	0.02	*	*	*	*	*	*	*	*	*	*	*	*
HEPTACHLOR	0.47	*	*	*	*	*	*	*	*	*	*	*	*
KEPONE	2.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LINDANE	0.40	*	*	*	*		*	*	*	*	*	*	*
BHC, Total	0.40	*	*	*	*	*	*	*	*	*	*	*	*
METHOXYCHLOR	10.00	*	*	*	*	*	*	*	*	*	*	*	*
MIREX	2.10	*	*	*	*	*	*	*	*	*	*	*	*
PENTACHLOROPHENOL	1.70	NA	*	*	NA	*	NA	NA	*	*	*	NA	NA
PCBs (TOTAL)	5.00	*	*	*	*	*	*	*	*	*		*	*
TOXAPHENE	0.50	*	*	*	*	*	*	*	*	*	*	*	*
TRICHLOROETHENE	204.0	*	*	*	*	*	*	*	*	*	*	*	*
2,4,5-TP	1.00	NA	*	*	NA	*	NA	NA	NA	NA	NA	NA	NA

TTLC = Total Threshold Limit Concentration STLC = Soluble Threshold Limit Concentration

NA = Not Analyzed, NS = Not Sampled

* = The total concentrations are less than 10 times the the STLC, this substance is below STLC limits by definition.

2020 POINT LOMA WASTEWATER TREATMENT PLANT ANNUAL REPORT

CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TEST (TITLE 22)

METRO BIOSOLIDS CENTER (MBC)

METALS

DRY WEIGHT Concentration

ANALYTE	TTLC Wet wt mg/Kg	MBCDEWCN Jan-20 P1143475	MBCDEWCN Feb-20 P1146172	MBCDEWCN Mar-20 P1154208	MBCDEWCN Apr-20 P1160484	MBCDEWCN May-20 P1165500	MBCDEWCN Jun-20 P1171268	MBCDEWCN Jul-20 P1178877	MBCDEWCN Aug-20 P1190465	MBCDEWCN Sep-20 P1190315	MBCDEWCN Oct-20 P1196337	MBCDEWCN Nov-20 P1201790	MBCDEWCN Dec-20 P1208014
AMMONIA-N		9100	7850	6550	6400	5600	5860	5720	6430	5630	7540	5000	6700
NITRITE AND NITRATE CALCULATION		31.8	22.3	99.4	1.52	1.53#	1.73	8.32	< 0.67	70.20	5.4	< 0.67	8.20
ORGANIC NITROGEN CALCULATION		49700	48400	60500	44000	45000	41500	44600	50800	48020	53500	63500	49400
TOTAL KJELDAHL NITROGEN		58800	56200	67100	50400	50600	47400	50400	50800	53650	53500	63500	49400

TTLC = Total Threshold Limit Concentration

NA = Not Analyzed, NS = Not Sampled, # = Nitrate Sample analyzed outside holding time; sample result not included in average calculations.

Enclosure 10 Copy of Arizona Department of Environmental Quality (ADEQ) Biosolids Annual Report Form for 2020

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The City of
SAN DIEGO
Public Utilities Department
Environmental Monitoring & Technical Services Division

February 12, 2021

Sondra Francis, ADEQ Biosolids Coordinator
Arizona Department of Environmental Quality
1110 W. Washington
Phoenix, AZ 85007

Dear Ms. Francis:

Enclosed is the 2020 Biosolids Annual Report form for the City of San Diego Public Utilities Department. Also included is a copy of the annual report prepared by the off-site third-party handler/applier for Metro Biosolids Center (MBC), the City sludge management facility, as required in the Point Loma Wastewater Treatment Plant's Monitoring and Reporting Program (Order No. R9-2017-007, NPDES No. CA 0107409). There is no sludge treatment, storage, processing, or disposal at the South Bay Water Reclamation Plant (SBWRP).

An electronic annual report for MBC is also generated and uploaded into https://cdx.epa.gov to comply with the Federal Biosolids Program's electronic reporting requirement. A copy is provided as Attachment 3.

Sincerely,

Peter S. Vroom, Ph.D.
Public Utilities Deputy Director
Environmental Monitoring and Technical Services Division

ERM/caq

Enclosures:
1. Biosolids Annual Report Form for Reporting Year 2020
2. Copy of 2020 Annual Report from Off-site Third-Party Handler or Applier for the City of San Diego MBC
3. Copy of the electronic annual report for MBC for Reporting Year 2020

cc: Distribution
File

2392 Kincaid Road, MS 45A
San Diego, CA 92101

T (619) 758-2300
F (619) 758-2309
sandiego.gov

ARIZONA
DEPARTMENT OF ENVIRONMENTAL QUALITY
AZPDES Individual Permits Unit
1110 W Washington Street
Phoenix, Arizona 85007
(602) 771-4689 (voicemail) (602) 771-4505 (fax)
Email to: biosolids@azdeq.gov

BIOSOLIDS OR SEWAGE SLUDGE ANNUAL REPORT FORM

1. **Program Information:** All preparers (Generators) and Land Applicators Must complete the following.

Reporting Start Date:1/1/2020	**Reporting End Date: 12/31/2020**
Date:1/12/2021	**AZPDES Permit # (if applicable):**Click here to enter text.
Company name (Preparer / Applicator): City of San Diego	
Contact Name: Richard Pitchford	**Title: Wastewater Plant Superintendent**
Address: 5240 Convoy St. san Diego, CA 92111 **Phone:** 858 614-5509	**E-mail:Rpitchford@sandiego.gov**

Please select one of the following options pertaining to your obligation to submit a Biosolids Annual Report. My facility is a:

☒ POTW with a design flow equal to or greater than 1 MGD Per Day

☒ POTW that serves 10,000 people or more

☒ Class I Sludge Management Facility as defined by 40 CFR 503.9

☐ Biosolids Applicator (Complete Section 5 only)

☐Other Click here to enter text.

What is the estimated total of volume of biosolids or sewage sludge generated at your facility (in dry metric tons)?

31,645.80

Were all biosolids removed from your facility sent to a landfill for disposal? No

If yes, provide the name and address of the landfill(s). Click here to enter text.

If all biosolids or sewage sludge was sent to a landfill for disposal, you do not need to complete the remainder of this form, as it is only applicable to facilities preparing bisolids or sewage sludge for land application.

Certification: I certify, under penalty of law, that the information and descriptions, have been made under my direction and supervision and under a system designed to ensure that qualified personnel properly gather and evaluate the information used to determine whether the applicable biosolids requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

Signature: Title: Wastewater Plant Superintendent	Date: 1/20/2021

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

2. Generator/Preparers - Biosolids Storage and Treatment Processes

2.1 Please check the box next to the following biosolids or sewage sludge storage practices and treatment processes used on the sewage sludge or biosolids generated or produced at your facility during the reporting period.

Storage Practices

☒ Biosolids are stored in lined lagoons or impoundments

☐ Biosolids stored directly on the ground

Physical Treatment Processes

☒ Preliminary Operations (e.g. sludge grinding, degritting, blending

☒ Thickening (e.g. gravity floatation, centrifugation, belt filter press, vacuum filter)

☐ Sludge lagoon

Pathogen Reduction Operations (PSRP)

☐ Aerobic Digestion

☐ Air Drying (or "sludge drying beds")

☒ Anaerobic Digestion

☐ Lower Temperature Composting

☐ Lime Stabilization

Process to Further Reduce Pathogens (PFRP)

☐ Higher Temperature Composting

☐ Heat Drying (e.g. flash dryer, spray dryer, rotary dryer)

☐ Heat Treatment (Liquid sewage sludge is heated to temp of 356 °F (180 °C) or higher for 30 minutes

☐ Thermophilic Aerobic Digestion

☐ Beta Ray Irradiation

☐ Gamma Ray Irradiation

☐ Pasteurization

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

3. Generators/Preparers: Disposition of Biosolids or Sewage Treatment Sludge:

3.1 At the beginning of the year, did you have any biosolids or sewage sludge stored on site or remaining from previous years? Include any amount that is being stored anywhere. Yes

If yes provide the following information:

	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	800 tons
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Alternate 5 - anaerobic digestion
Vector Attraction Reduction Method	Choose an item.	Option 1 - Volatile Solid Reduction
Storage Locations	Click here to enter text.	Storage Silos at MBC

3.2 At the end of the year, are any biosolids or sewage sludge stored on site? Yes

If yes, provide the following information:

	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	800 tons
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Alternate 5 - anaerobic digestion
Vector Attraction Reduction Method	Choose an item.	Option 1 - Volatile Solid Reduction
Storage Locations	Click here to enter text.	Storage Silos at MBC

3.3 Were biosolids or sewage sludge received from another facility during the year, such as another wastewater treatment plant or another APP permitted facility for further processing? Choose an item.

If yes provide the following information for each facility. Click the plus sign to create as many tables as needed.

Name of Facility		
Location:		
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	Click here to enter text.
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Choose an item.
Vector Attraction Reduction Method	Choose an item.	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

3.4. Were biosolids removed from your facility for land application? Include all recipients, including haulers, name, phone number, land applicators, composters, drying facilities, EQB bagging facilities, bulk composting, etc.

Name of Facility	Solids Solutions, LLC 2001 Key St., Colton, CA 92324 (Chris Marks 1-760-801-3175)	
Management Practice Type:	Click here to enter text.	
Handler or Preparer Type:	Click here to enter text.	
Management Practice Detail:	Click here to enter text.	
Bag or Bulk Container:	Bulk Container	
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	3362.24
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Alternate 5 - anaerobic digestion
Vector Attraction Reduction Method	Choose an item.	Option 3 - 30 days at 20 degrees C
Storage Locations	Click here to enter text.	Click here to enter text.

Name of Facility	Western Transporters 4464 E.30th Place, Yuma AZ 85365 (Cal Mullenix 1-602-377-7250)	
Management Practice Type:	Click here to enter text.	
Handler or Preparer Type:	Click here to enter text.	
Management Practice Detail:	Click here to enter text.	
Bag or Bulk Container:	Bulk Container	
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	31520.69
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Alternate 5 - anaerobic digestion
Vector Attraction Reduction Method	Choose an item.	Option 3 - 30 days at 20 degrees C
Storage Locations	Click here to enter text.	Click here to enter text.

4. Generators/Preparers : Biosolids or Sewage Sludge Analytical Methods

Arizona regulations specify that representative samples of sewage sludge that is land applied, placed on a surface disposal site, or fired in s sewage sludge incinerator, must be collected and analyzed. These regulations specify the analytical methods that must be used to analyzed samples of sewage sludge.

Parameter	*Method Number or Author*	*Results (if tested)*	*Comments (required if other)*
Pathogens			
Ascaris ova.	Choose an item.	Click here to enter text.	Click here to enter text.

Fecal Coliform	Choose an item.	Click here to enter text.	Click here to enter text.
Helminth ova.	Choose an item.	Click here to enter text.	Click here to enter text.
Salmonella sp. Bacteria	Choose an item.	Click here to enter text.	Click here to enter text.
Total Cultural Viruses	Choose an item.	Click here to enter text.	Click here to enter text.
Metals			
Arsenic	EPA Method 6010 - Arsenic (ICP-OES)	Please see reports of 12 monthly monitoring results (Attachment)	EPA Method 6010C
Cadmium	EPA Method 6010 - Cadmium (ICP-OES)	Please see reports of 12 monthly monitoring results (Attachment)	EPA Method 6010C
Chromium	EPA Method 6010 - Chromium (ICP-OES)	Please see reports of 12 monthly monitoring results (Attachment)	EPA Method 6010C
Copper	EPA Method 6010 - Copper (ICP-OES)	Please see reports of 12 monthly monitoring results (Attachment)	EPA Method 6010C
Lead	EPA Method 6010 - Lead (ICP-OES)	Please see reports of 12 monthly monitoring results (Attachment)	EPA Method 6010C
Mercury	EPA Method 7471 - Mercury (CVAA)	Please see reports of 12 monthly monitoring results (Attachment)	EPA Method 7471B
Molybdenum	EPA Method 6010 - Molybdenum (ICP-OES)	Please see reports of 12 monthly monitoring results (Attachment)	EPA Method 6010C
Nickel	EPA Method 6010 - Nickel (ICP-OES)	Please see reports of 12 monthly monitoring results (Attachment)	EPA Method 6010C
Selenium	EPA Method 6010 - Selenium (ICP-OES)	Please see reports of 12 monthly monitoring results (Attachment)	EPA Method 6010C
Zinc	EPA Method 6010 - Zinc (ICP-OES)	Please see reports of 12 monthly monitoring results (Attachment)	EPA Method 6010C
Nitrogen Compounds			
Ammonia Nitrogen	Standard Method 4500-NH3 - Ammonia Nitrogen	Click here to enter text.	SM 4500-NH3 B+C (2011)
Nitrate Nitrogen	Other Nitrate Nitrogen Analytical Method	Click here to enter text.	EPA Method 300.0

Nitrogen	No Analytical Method Used	Please see reports of 12 monthly monitoring results (Attachment)	Calculation from TKN + Nitrite_N + Nitrate_N
Organic Nitrogen	No Analytical Methods Used	Click here to enter text.	Calculation from TKN - Ammonia
Total Kjeldahl Nitrogen	Other Total Kjeldahl Nitrogen Analytical Method	Click here to enter text.	SM 4500-NH3B+NORG B (2011)
Other Analytes			
Fixed Solids	Choose an item.	Click here to enter text.	Click here to enter text.
Paint Filter Test	Choose an item.	Click here to enter text.	Click here to enter text.
pH	Choose an item.	Click here to enter text.	Click here to enter text.
Specific Oxygen Uptake Rate	Choose an item.	Click here to enter text.	Click here to enter text.
TCLP	Choose an item.	Click here to enter text.	Click here to enter text.
Temperature	Choose an item.	Click here to enter text.	Click here to enter text.
Total Solids	Standard Method 2540 - Total Solids	Please see reports of 12 monthly monitoring results (Attachment)	SM 2540 G (2011)
Volatile Solids	Standard Method 2540 - Volatile Solids	Please see reports of 12 monthly monitoring results (Attachment)	SM 2540 G (2011)
No Analytical Methods Used	Choose an item.	Click here to enter text.	Click here to enter text.

ARIZONA
DEPARTMENT OF ENVIRONMENTAL QUALITY
AZPDES Individual Permits Unit
1110 W Washington Street
Phoenix, Arizona 85007
(602) 771-4689 (voicemail) (602) 771-4505 (fax)
Email to: biosolids@azdeq.gov

5. Land Applicators: Specific information to be completed by Land Applicators Only

Application Site / Location	Field ID	Amount of Biosolids Applied (in dry tons)	Preparer	Pathogen Treatment Method	Vector Attraction Reduction Method	Loading Rate	Nitrogen Conc. (Organic + ammonium)	Type of Crop Grown After Application	Agronomic Rate of Crop Grown	The Cumulative Concentration of Pollutants (kilograms per hectare) in Soil				
Example: ABC Farms, Aztec AZ	*14*	*350 tons*	*Aztec WWTP*	*Class B Alt. 2*	*Option 9*	*Tons or Kg/acre*		*Corn*						
1. Skouson Ranch, Dateland, Az	9-19 9-49 9 50	456.03	City of San Diego	Class B, ALT 3	Option 1	Tons/Acre	Click here to enter text.	Click here to enter text.	Click here to enter text.	As=Click here to enter text.	Cd=Click here to enter text.	Cr=Click here to enter text.	Cu=Click here to enter text.	Pb=Click here to enter text.
										Hg=Click here to enter text.	Mo=Click here to enter text.	Ni=Click here to enter text.	Se=Click here to enter text.	Zn=Click here to enter text.
2. Harquahala Valley Farms Harquahala, Arizona	7-1001 7-1006 7-1007 7-2403	1600.56	City of San Diego	Class B, ALT 3	Option 1	Tons/Acre	Click here to enter text.	Click here to enter text.	Click here to enter text.	As=Click here to enter text.	Cd=Click here to enter text.	Cr=Click here to enter text.	Cu=Click here to enter text.	Pb=Click here to enter text.
										Hg=Click here to enter text.	Mo=Click here to enter text.	Ni=Click here to enter text.	Se=Click here to enter text.	Zn=Click here to enter text.
		243.27		Class B, ALT 3	Option 1	Tons/Acre				As=Click here to	Cd=Click here to	Cr=Click here to	Cu=Click here to	Pb=Click here to

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

3. Chad Odom GilaBend, Arizona	M 8-21 M 8-23		City of San Diego				Click here to enter text.	Click here to enter text.	Click here to enter text.	enter text.	enter text.	enter text.	enter text.	enter text.
										Hg=Click here to enter text.	Mo=Click here to enter text.	Ni=Click here to enter text.	Se=Click here to enter text.	Zn=Click here to enter text.
4. Cullison Farms Wellton, AZ	2-161	169.97	City of San Diego	Class B, ALT 3	Option 1	Tons/Acre	Click here to enter text.	Click here to enter text.	Click here to enter text.	As=Click here to enter text.	Cd=Click here to enter text.	Cr=Click here to enter text.	Cu=Click here to enter text.	Pb=Click here to enter text.
										Hg=Click here to enter text.	Mo=Click here to enter text.	Ni=Click here to enter text.	Se=Click here to enter text.	Zn=Click here to enter text.
5. Tule Ranch	J-5N J-10E J-10W N	31,520.69	City of San Diego	Class B, ALT 3	Option 1	Tons/Acre	Click here to enter text.	Click here to enter text.	Click here to enter text.	As=Click here to enter text.	Cd=Click here to enter text.	Cr=Click here to enter text.	Cu=Click here to enter text.	Pb=Click here to enter text.
										Hg=Click here to enter text.	Mo=Click here to enter text.	Ni=Click here to enter text.	Se=Click here to enter text.	Zn=
6.Anderson Farms Dateland, Az	8-6 8-7 8-14 8-20	892.42	City of San Diego	Class B, ALT 3	Option 1	Tons/Acre								

Enclosure 11 Copy of the Electronic Biosolids Annual Report for 2020 to the USEPA

Note: The attachments listed on this subject report are also found on Enclosures 2, 3, and 7.

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The City of SAN DIEGO
Public Utilities Department
Environmental Monitoring & Technical Services Division

February 12, 2021

Lauren Fondahl
Biosolids Coordinator, WTR-2-3
US EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Dear Ms. Fondahl:

The City of San Diego Public Utilities Department respectfully submits the 2020 Biosolids Annual Report as specified in the City's Point Loma Wastewater Treatment Plant (PLWTP) discharge permit Order No. R9-2017-0007, NPDES No. CA0107409, Waste Discharge Requirements and 40 CFR 503. There is no sludge treatment, storage, processing, or disposal at the South Bay Water Reclamation Plant (SBWRP).

This electronic annual report for the Metro Biosolids Center (MBC), the City sludge management facility, was generated and uploaded into https://cdx.epa.gov to comply with the Federal Biosolids Program's electronic reporting requirement.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Peter S. Vroom, Ph.D.
Deputy Director
Environmental Monitoring and Technical Services Division

ERM/caq

cc: San Diego Regional Water Quality Control Board
Arizona Department of Environmental Quality (ADEQ)
Distribution
File

2392 Kincaid Road, MS 45A
San Diego, CA 92101

T (619) 758-2300
F (619) 758-2309
sandiego.gov

Biosolids Annual Report Landing Page / SAN DIEGO MBC

NPDES ID: CAL107409
Facility Status: Active
Facility Name: SAN DIEGO MBC
2392 KINCAID RD. SAN DIEGO, CA 92101-0811

View Annual Report

NPDES FORM 6100-035

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460
BIOSOLIDS ANNUAL REPORT

Form Approved. OMB No. 2040-0004. Exp. 03/31/2022

EPA's sewage sludge regulations require certain publicly owned treatment works (POTWs) and Class I sewage sludge management facilities to submit to a Sewage Sludge (Biosolids) Annual Report (see 40 CFR 503.18 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_118), 503.28 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_128), 503.48 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_148)). Facilities that must submit a Sewage Sludge (Biosolids) Annual Report include POTWs with a design flow rate equal to or greater than one million gallons per day, POTWs that serve 10,000 people or more, Class I Sludge Management Facilities (as defined by 40 CFR 503.9 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19)), and facilities otherwise required to file this report (e.g., permit condition, enforcement action, state law). This is the electronic form for Sewage Sludge (Biosolids) Annual Report filers to use if they are located in one of the states, tribes, or territories (https://www.epa.gov/npdes/npdes-state-program-information) where EPA administers the Federal biosolids program.

For the purposes of this form, the term 'sewage sludge (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19)' also refers to the material that is commonly referred to as 'biosolids'. EPA does not have a regulatory definition for biosolids but this material is commonly referred to as sewage sludge that is placed on, or applied to the land to use the beneficial properties of the material as a soil amendment, conditioner, or fertilizer. EPA's use of the term 'biosolids' in this form is to confirm that information about beneficially used sewage sludge (a.k.a. biosolids) should be reported on this form.

Public Availability of Information Submitted on and with General Permit Reports

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk (NPDESeReporting@epa.gov (mailto:NPDESereporting@epa.gov)) for further guidance.

Please note that EPA may contact you after you submit this report for more information regarding your sewage sludge management program.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with EPA regulations (40 CFR 503.18, 503.28, and 503.48). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 3 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden including through the use of automated collection techniques to the Director, Regulatory Support Division, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Program Information

Please select all of the following that apply to your obligation to submit a Sewage Sludge (Biosolids) Annual Report in compliance with 40 CFR part 503. The facility is:

- a Class I Sludge Management Facility as defined in 40 CFR 503.9
- a POTW with a design flow rate equal to or greater than one million gallons per day
- a POTW that serves 10,000 people or more

In the reporting period, did you manage your sewage sludge or biosolids using any of the following management practices: land application, surface disposal, or incineration?

☑ YES ☐ NO

If your facility is a POTW, please provide the estimated total amount of sewage sludge produced at your facility for the reporting period (in dry metric tons). If your facility is not a POTW, please provide the estimated total amount of biosolids produced at your facility for the reporting period (in dry metric tons).

31645.8

Reporting Period Start Date: 01/01/2020 **Reporting Period End Date:** 12/31/2020

Treatment Processes

Processes to Significantly Reduce Pathogens (PSRP):
Anaerobic Digestion

Processes to Further Reduce Pathogens (PFRP):

Physical Treatment Options:
Preliminary Operations (e.g., sludge grinding, degritting, blending)
Thickening (e.g., Gravity and/or Flotation Thickening, Centrifugation, Belt Filter Press, Vacuum Filter, Screw Press)

Other Processes to Manage Sewage Sludge:
Methane or Biogas Capture and Recovery

Analytical Methods

Did you or your facility collect sewage sludge or biosolids samples for laboratory analysis? ☑ YES ☐ NO

Analytical Methods
- EPA Method 6010 - Arsenic (ICP-OES)
- EPA Method 6010 - Cadmium (ICP-OES)
- EPA Method 6010 - Chromium (ICP-OES)
- EPA Method 6010 - Copper (ICP-OES)
- EPA Method 6010 - Lead (ICP-OES)
- EPA Method 7471 - Mercury (CVAA)
- EPA Method 6010 - Molybdenum (ICP-OES)
- EPA Method 6010 - Nickel (ICP-OES)
- EPA Method 6010 - Selenium (ICP-OES)
- EPA Method 6010 - Zinc (ICP-OES)
- Standard Method 4500-NH3 - Ammonia Nitrogen
- EPA Method 9095 - Paint Filter Liquids Test
- Standard Method 2540 - Total Solids
- Standard Method 2540 - Volatile Solids
- EPA Method 9045 - pH (> 7% solids)
- Standard Method 2550 - Temperature

Other Analytical Methods
- Other Specific Oxygen Uptake Rate Analytical Method

Other Analytical Methods Text Area:

EPA 300.0 for nitrate as N and nitrite as N; SM4500-NO2 B for nitrite as N; SM 4500 NH3B+NORG B for TKN; Total Nitrogen by sum calculation of TKN, nitrite as N and nitrate as N.

Sludge Management - Land Application

ID: 001

Amount: 31645.8

Management Practice Detail: Agricultural Land Application

Bulk or Bag/Container: Bulk

Handler, Preparer, or Applier Type: Off-Site Third-Party Handler or Applier

NPDES ID of handler:

Facility Information:
Denali Water Solutions, LLC
3031 Franklin Ave., Key Street
Riverside, CA 92507

Contact Information:
Chris Marks
Environmental Manager
760-801-3175
chrisamarks@comcast.net

Pathogen Class: Class B

Sewage Sludge or Biosolids Pathogen Reduction Options:

- Class B-Alternative 2 PSRP 3: Anaerobic Digestion

Sewage Sludge or Biosolids Vector Attraction Reduction Options:

- Option 1 - Volatile Solids Reduction

Did the facility land apply bulk sewage sludge when one or more pollutants in the sewage sludge exceeded 90 percent or more of any of the cumulative pollutant loading rates in Table 2 of 40 CFR 503.13?

☐ YES ☑ NO ☐ UNKNOWN

Monitoring Data

INSTRUCTIONS: Pollutants, pathogen densities, and vector attraction reduction must be monitored when sewage sludge or biosolids are applied to the land. Please use the following section to report monitoring data for the land application conducted by you or your facility in the reporting period for this SSUID. These monitoring data should be representative of the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID (40 CFR 503.8(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_18)). All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis. EPA will be using these data to demonstrate compliance with EPA's land application requirements (40 CFR 503, Subpart B).

Compliance Monitoring Periods

INSTRUCTIONS: Please use the table below to identify the start date and end date for each compliance monitoring period. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually, or annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (40 CFR 503.16 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_116)).

Compliance Monitoring Event No. 1	Compliance Monitoring Period Start Date:	Compliance Monitoring Period End Date:
	01/01/2020	01/31/2020

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☑ YES ☐ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compere the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.09	
Cadmium	=	0.27	
Copper	=	564	
Lead	=	9.6	
Mercury	=	0.552	
Molybdenum	=	15.3	
Nickel	=	26.4	
Selenium	=	6.43	
Zinc	=	913	

Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.5	

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.09	
Cadmium	=	0.27	
Copper	=	564	
Lead	=	9.6	
Mercury	=	0.552	
Nickel	=	26.4	
Selenium	=	6.43	
Zinc	=	913	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	58600	

Compliance Monitoring Event No. 2 **Compliance Monitoring Period Start Date:** 02/01/2020 **Compliance Monitoring Period End Date:** 02/29/2020

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☑ YES ☐ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land applicetion ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutent concentrations in this section ageinst the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutent monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicetor Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	2.96	
Cadmium	=	0.84	
Copper	=	556	
Lead	=	10.6	
Mercury	=	0.695	
Molybdenum	=	14.2	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Nickel	=	22.1	
Selenium	=	6.09	
Zinc	=	878	

Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	62.2	

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	2.96	
Cadmium	=	0.84	
Copper	=	556	
Lead	=	10.6	
Mercury	=	0.695	
Nickel	=	22.1	
Selenium	=	6.09	
Zinc	=	878	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	56200	

Compliance Monitoring Event No. 3 **Compliance Monitoring Period Start Date:** 03/01/2020 **Compliance Monitoring Period End Date:** 03/31/2020

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☑ YES ☐ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land applicetion ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	2.23	
Cadmium	<	1.37	
Copper	=	589	
Lead	=	12.7	
Mercury	=	0.921	
Molybdenum	=	15.2	
Nickel	=	24.1	
Selenium	=	5.99	
Zinc	=	1010	

Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60.4	

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	2.23	
Cadmium	<	1.37	
Copper	=	589	
Lead	=	12.7	
Mercury	=	0.921	
Nickel	=	24.1	
Selenium	=	5.99	
Zinc	=	1010	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	67100	

Compliance Monitoring Event No. 4

Compliance Monitoring Period Start Date: 04/01/2020

Compliance Monitoring Period End Date: 04/30/2020

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☑ YES ☐ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.61	
Cadmium	<	0.139	
Copper	=	550	
Lead	=	11.2	
Mercury	=	0.603	
Molybdenum	=	14.6	
Nickel	=	21	
Selenium	=	6.46	
Zinc	=	880	

Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	54	

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	4.61	
Cadmium	<	0.139	
Copper	=	550	
Lead	=	11.2	
Mercury	=	0.603	
Nickel	=	21	
Selenium	=	6.46	
Zinc	=	880	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	50400	

Compliance Monitoring Event No. 5	Compliance Monitoring Period Start Date:	Compliance Monitoring Period End Date:
	05/01/2020	05/31/2020

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☑ YES ☐ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.09	
Cadmium	=	0.761	
Copper	=	569	
Lead	=	12.4	
Mercury	=	0.618	
Molybdenum	=	15.3	
Nickel	=	24.1	
Selenium	=	6.16	
Zinc	=	904	

Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	61.7	

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.09	
Cadmium	=	0.761	
Copper	=	569	
Lead	=	12.4	
Mercury	=	0.618	
Nickel	=	24.1	
Selenium	=	6.16	
Zinc	=	904	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	50600	

Compliance Monitoring Event No. 6 **Compliance Monitoring Period Start Date:** 06/01/2020 **Compliance Monitoring Period End Date:** 06/30/2020

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☑ YES ☐ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicetor Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.14	
Cadmium	<	0.11	
Copper	=	671	
Lead	=	13.8	
Mercury	=	0.677	
Molybdenum	=	15.9	
Nickel	=	25.1	
Selenium	=	6.42	
Zinc	=	937	

Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	57.6	

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.14	
Cadmium	<	0.11	
Copper	=	671	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Lead	=	13.8	
Mercury	=	0.677	
Nickel	=	25.1	
Selenium	=	6.42	
Zinc	=	937	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	47400	

Compliance Monitoring Event No. 7 **Compliance Monitoring Period Start Date:** 07/01/2020 **Compliance Monitoring Period End Date:** 07/31/2020

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☑ YES ☐ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.16	
Cadmium	=	0.626	
Copper	=	598	
Lead	=	12.6	
Mercury	=	0.445	
Molybdenum	=	17.4	
Nickel	=	23.7	
Selenium	=	6.44	
Zinc	=	951	

Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	54.4	

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.16	
Cadmium	=	0.626	
Copper	=	598	
Lead	=	12.6	
Mercury	=	0.445	
Nickel	=	23.7	
Selenium	=	6.44	
Zinc	=	951	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	50400	

Compliance Monitoring Event No. 8

Compliance Monitoring Period Start Date: 08/01/2020

Compliance Monitoring Period End Date: 08/31/2020

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☑ YES ☐ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.16	
Cadmium	=	1.38	
Copper	=	610	
Lead	=	11.4	
Mercury	=	0.95	
Molybdenum	=	17.3	
Nickel	=	24	
Selenium	=	3.09	
Zinc	=	936	

Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58.1	

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.16	
Cadmium	=	1.38	
Copper	=	610	
Lead	=	11.4	
Mercury	=	0.95	
Nickel	=	24	
Selenium	=	3.09	
Zinc	=	936	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	50800	

Compliance Monitoring Event No. 9 **Compliance Monitoring Period Start Date:** 09/01/2020 **Compliance Monitoring Period End Date:** 09/30/2020

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☑ YES ☐ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.14	
Cadmium	<	0.147	
Copper	=	645	
Lead	=	11.6	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Mercury	=	0.62	
Molybdenum	=	19.3	
Nickel	=	24	
Selenium	=	2.82	
Zinc	=	976	

Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58.7	

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.14	
Cadmium	<	0.147	
Copper	=	645	
Lead	=	11.6	
Mercury	=	0.62	
Nickel	=	24	
Selenium	=	2.82	
Zinc	=	976	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	53720	

Compliance Monitoring Event No. 10 **Compliance Monitoring Period Start Date:** 10/01/2020 **Compliance Monitoring Period End Date:** 10/31/2020

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☑ YES ☐ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.14	
Cadmium	<	0.147	
Copper	=	654	
Lead	=	11.5	
Mercury	=	0.69	
Molybdenum	=	20.5	
Nickel	=	27.9	
Selenium	=	7.26	
Zinc	=	1010	

Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	51.2	

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.14	
Cadmium	<	0.147	
Copper	=	654	
Lead	=	11.5	
Mercury	=	0.69	
Nickel	=	27.9	
Selenium	=	7.26	
Zinc	=	1010	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	53500	

Compliance Monitoring Event No. 11 **Compliance Monitoring Period Start Date:** 11/01/2020 **Compliance Monitoring Period End Date:** 11/30/2020

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☑ YES ☐ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.13	
Cadmium	<	0.131	
Copper	=	609	
Lead	=	11.2	
Mercury	=	0.67	
Molybdenum	=	17.9	
Nickel	=	26.3	
Selenium	=	6.39	
Zinc	=	963	

Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	57.8	

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.13	
Cadmium	<	0.131	
Copper	=	609	
Lead	=	11.2	
Mercury	=	0.67	
Nickel	=	26.3	
Selenium	=	6.39	
Zinc	=	963	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrete-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	63500	

Compliance Monitoring Event No. 12 | **Compliance Monitoring Period Start Date:** 12/01/2020 | **Compliance Monitoring Period End Date:** 12/31/2020

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☑ YES ☐ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section ageinst the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.09	
Cadmium	=	0.226	
Copper	=	614	
Lead	=	12.1	
Mercury	=	0.63	
Molybdenum	=	18.5	
Nickel	=	21.1	
Selenium	=	4.24	
Zinc	=	944	

Pathogen And Vector Attraction Reduction

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	54.8	

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring date should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	1.09	
Cadmium	=	0.226	
Copper	=	614	
Lead	=	12.1	
Mercury	=	0.63	
Nickel	=	21.1	
Selenium	=	4.24	
Zinc	=	944	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	49400	

Sludge Management - Surface Disposal

Sludge Management - Incineration

Sludge Management - Other Management Practice

Additional Information

Please enter any additional information that you would like to provide in the comment box below.

The total 31,645.80 dry metric tons or 34,882.94 dry tons generated by the facility were hauled by two land appliers: 3,362.24 dry tons by Solids Solutions, LLC 2001 Key Street, Colton, CA 92324 (contact: Chris Marks 1-760-801-3175) dba Denali Water Solutions and 31,520.69 dry tons by Western Transporters 4464 E30th Place, Yuma, AZ 85365 (contact: Cal Mullenix 1-602-377-7250) dba AG Tech, LLC. For monitoring purposes, the City of San Diego in-house laboratory performs analysis on the MBC monthly representative sample composited from daily grab samples of dewatered cake collected from each of the dewatering centrifuges that are in operation during the 24-hour period. No other analytical results are entered in the report under the second hauler/land applier because the results will be the same. Attached are the signed monthly Biosolids Class B certification packages that also contains the Title 22 analysis page, the 40CFR 503 certification for inorganic pollutant concentration and limits, and the Fractional Volatile Solids Reduction with the Vector Attraction Reduction (VAR) certification statements. Additionally, copies of the hauler's reports are also attached.

Additional Attachments

Name	Created Date	Size
Attachment 1_EPA cover letter signed.pdf	02/12/2021 12:10 PM	356.22 KB
Attachment 2c_2020 Class B Certifications_July to September 2020.pdf	02/12/2021 4:10 PM	2.50 MB
Attachment 2d_2020 Class B Certifications_October to December 2020.pdf	02/12/2021 4:10 PM	2.46 MB
Attachment 3a_2020 Annual Report Denali- MBC.pdf	02/12/2021 4:11 PM	2.77 MB
Attachment 3b_2020 Monthly Reports Ag Tech, LLC.pdf	02/12/2021 4:11 PM	2.31 MB
Attachment 2a_2020 Class B Certifications_January to March 2020.pdf	02/12/2021 4:10 PM	2.26 MB
Attachment 2b_2020 Class B Certifications_April to June 2020.pdf	02/12/2021 4:10 PM	2.90 MB

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

Certified By: Peter S. Vroom (PVROOM22)

Certified On: 02/16/2021 8:28 AM

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Enclosure 12 Copies of the Off-Stie Third Party Hauler(s) or Land Applier(s) Reports

Monthly and/or annual application summaries, daily load delivery logs, and Field Reports of Land Application/Beneficial Reuse in 2020

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3031 Franklin Ave.
Riverside, CA 92507

March 1, 2020

Mr. Richard Pitchford
City of San Diego
5240 Convoy Street, MS 901M
San Diego, CA 92111

Dear Richard,

Enclosed is the Monthly Biosolids Report for the month of January 2020. This report includes the date and amount hauled, the application site(s), analysis of the biosolids and concentration of metals and nitrogen applied to the site(s).

If you have any questions or comments on this report please feel free to contact me at (760) 801-3175.

Sincerely,

Chris Marks

Enclosure

3031 Franklin Ave.
Riverside, CA 92507

Monthly Biosolids Report to

City of San Diego

For January 2020

Table of Contents

Denali
WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 01/01/2020 to 02/02/2020

Waste Source:	City of San Diego - MBC
Waste Type:	WWTP Biosolids
Analysis Date:	12/19/2020
Field Name:	MA 7-1001
Acreage:	78.20
Application Method:	Surface
Volume Applied:	857.83 WT

Wet Tons Applied:	857.83
Dry Tons Applied:	252.20
Wet Metric Tons Applied:	778.74
Dry Metric Tons Applied:	228.95
Wet Tons/Acre Applied:	10.97
Dry Tons/Acre Applied:	3.23
Wet Metric Tons/ha Applied:	9.96
Dry Metric Tons/ha Applied:	2.93

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	29.40%		
TKN	15,288.00	375.9436	335.4094
NH3	2,146.20	52.7767	47.0863
NO3	3.20	0.0788	0.0703
Organic N	13,141.80	323.1669	288.3230
As	1.22	0.0299	0.0267
Cd	0.26	0.0063	0.0056
Cr	17.85	0.4388	0.3915
Cu	164.35	4.0414	3.6057
Pb	4.03	0.0990	0.0884
Hg	0.16	0.0038	0.0034
Mo	4.97	0.1222	0.1090
Ni	10.05	0.2473	0.2206
Se	1.72	0.0422	0.0377
Zn	274.01	6.7381	6.0116
PAN	3,704.02	91.0848	81.2640

Denali
WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 01/01/2020 to 02/02/2020

Waste Source:	City of San Diego - MBC
Waste Type:	WWTP Biosolids
Analysis Date:	12/19/2020
Field Name:	MA 7-1002
Acreage:	76.10
Application Method:	Surface
Volume Applied:	171.32 WT

Wet Tons Applied:	171.32
Dry Tons Applied:	50.37
Wet Metric Tons Applied:	155.52
Dry Metric Tons Applied:	45.72
Wet Tons/Acre Applied:	2.25
Dry Tons/Acre Applied:	0.66
Wet Metric Tons/ha Applied:	2.04
Dry Metric Tons/ha Applied:	0.60

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	29.40%		
TKN	15,288.00	77.1528	68.8342
NH3	2,146.20	10.8311	9.6633
NO3	3.20	0.0162	0.0144
Organic N	13,141.80	66.3217	59.1709
As	1.22	0.0061	0.0055
Cd	0.26	0.0013	0.0012
Cr	17.85	0.0901	0.0804
Cu	164.35	0.8294	0.7400
Pb	4.03	0.0203	0.0181
Hg	0.16	0.0008	0.0007
Mo	4.97	0.0251	0.0224
Ni	10.05	0.0507	0.0453
Se	1.72	0.0087	0.0077
Zn	274.01	1.3828	1.2337
PAN	3,704.02	18.6928	16.6774

Denali
WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 01/01/2020 to 02/02/2020

Waste Source:	City of San Diego - MBC
Waste Type:	WWTP Biosolids
Analysis Date:	12/19/2020
Field Name:	MA 7-2403
Acreage:	73.30
Application Method:	Surface
Volume Applied:	637.06 WT

Wet Tons Applied:	637.06
Dry Tons Applied:	187.30
Wet Metric Tons Applied:	578.32
Dry Metric Tons Applied:	170.03
Wet Tons/Acre Applied:	8.69
Dry Tons/Acre Applied:	2.56
Wet Metric Tons/ha Applied:	7.89
Dry Metric Tons/ha Applied:	2.32

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	29.40%		
TKN	15,288.00	297.8547	265.7400
NH3	2,146.20	41.8142	37.3058
NO3	3.20	0.0624	0.0557
Organic N	13,141.80	256.0405	228.4342
As	1.22	0.0237	0.0212
Cd	0.26	0.0050	0.0044
Cr	17.85	0.3477	0.3102
Cu	164.35	3.2019	2.8567
Pb	4.03	0.0785	0.0700
Hg	0.16	0.0030	0.0027
Mo	4.97	0.0968	0.0864
Ni	10.05	0.1959	0.1748
Se	1.72	0.0335	0.0298
Zn	274.01	5.3385	4.7629
PAN	3,704.02	72.1652	64.3843

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 01/01/2020 to 02/02/2020

Waste Source:	City of San Diego - MBC
Waste Type:	WWTP Biosolids
Analysis Date:	12/19/2020
Field Name:	YM 8-13
Acreage:	75.80
Application Method:	Surface
Volume Applied:	1,076.86 WT

Wet Tons Applied:	1,076.86
Dry Tons Applied:	316.60
Wet Metric Tons Applied:	977.57
Dry Metric Tons Applied:	287.41
Wet Tons/Acre Applied:	14.21
Dry Tons/Acre Applied:	4.18
Wet Metric Tons/ha Applied:	12.90
Dry Metric Tons/ha Applied:	3.79

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	29.40%		
TKN	15,288.00	486.8758	434.3809
NH3	2,146.20	68.3499	60.9804
NO3	3.20	0.1021	0.0911
Organic N	13,141.80	418.5259	373.4005
As	1.22	0.0388	0.0346
Cd	0.26	0.0081	0.0073
Cr	17.85	0.5683	0.5071
Cu	164.35	5.2339	4.6696
Pb	4.03	0.1283	0.1144
Hg	0.16	0.0050	0.0044
Mo	4.97	0.1582	0.1412
Ni	10.05	0.3202	0.2857
Se	1.72	0.0547	0.0488
Zn	274.01	8.7263	7.7854
PAN	3,704.66	117.9822	105.2613

Denali
WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 01/01/2020 to 02/02/2020

Waste Source:	City of San Diego - MBC
Waste Type:	WWTP Biosolids
Analysis Date:	12/19/2020
Field Name:	YM 9-19
Acreage:	11.70
Application Method:	Surface
Volume Applied:	343.89 WT

Wet Tons Applied:	343.89
Dry Tons Applied:	101.10
Wet Metric Tons Applied:	312.18
Dry Metric Tons Applied:	91.78
Wet Tons/Acre Applied:	29.39
Dry Tons/Acre Applied:	8.64
Wet Metric Tons/ha Applied:	26.68
Dry Metric Tons/ha Applied:	7.84

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	29.40%		
TKN	15,288.00	1,007.3070	898.6992
NH3	2,146.20	141.4104	126.1635
NO3	3.20	0.2111	0.1884
Organic N	13,141.80	865.8966	772.5357
As	1.22	0.0802	0.0716
Cd	0.26	0.0169	0.0150
Cr	17.85	1.1758	1.0491
Cu	164.35	10.8286	9.6610
Pb	4.03	0.2654	0.2368
Hg	0.16	0.0103	0.0092
Mo	4.97	0.3274	0.2921
Ni	10.05	0.6625	0.5911
Se	1.72	0.1131	0.1009
Zn	274.01	18.0540	16.1075
PAN	3,704.02	244.0535	217.7396

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 01/01/2020 to 02/02/2020

Waste Source:	City of San Diego - MBC	**Wet Tons Applied:**	708.59
Waste Type:	WWTP Biosolids	**Dry Tons Applied:**	208.33
Analysis Date:	12/19/2020	**Wet Metric Tons Applied:**	643.26
Field Name:	YM 9-49	**Dry Metric Tons Applied:**	189.12
Acreage:	24.60	**Wet Tons/Acre Applied:**	28.80
Application Method:	Surface	**Dry Tons/Acre Applied:**	8.47
Volume Applied:	708.59 WT	**Wet Metric Tons/ha Applied:**	26.15
		Dry Metric Tons/ha Applied:	7.69

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	29.40%		
TKN	15,288.00	987.1612	880.7255
NH3	2,146.20	138.5822	123.6403
NO3	3.20	0.2069	0.1846
Organic N	13,141.80	848.5790	757.0852
As	1.22	0.0786	0.0701
Cd	0.26	0.0165	0.0147
Cr	17.85	1.1523	1.0281
Cu	164.35	10.6120	9.4678
Pb	4.03	0.2601	0.2320
Hg	0.16	0.0101	0.0090
Mo	4.97	0.3208	0.2862
Ni	10.05	0.6492	0.5792
Se	1.72	0.1109	0.0989
Zn	274.01	17.6930	15.7853
PAN	3,704.02	239.1725	213.3849

Denali
WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 01/01/2020 to 02/02/2020

Waste Source:	City of San Diego - MBC
Waste Type:	WWTP Biosolids
Analysis Date:	12/19/2020
Field Name:	YM 9-53
Acreage:	17.10
Application Method:	Surface
Volume Applied:	781.22 WT

Wet Tons Applied:	781.22
Dry Tons Applied:	229.68
Wet Metric Tons Applied:	709.19
Dry Metric Tons Applied:	208.50
Wet Tons/Acre Applied:	45.69
Dry Tons/Acre Applied:	13.43
Wet Metric Tons/ha Applied:	41.47
Dry Metric Tons/ha Applied:	12.19

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	29.40%		
TKN	15,288.00	1,565.6886	1,396.8761
NH3	2,146.20	219.7986	196.0999
NO3	3.20	0.3282	0.2928
Organic N	13,141.80	1,345.8900	1,200.7762
As	1.22	0.1247	0.1112
Cd	0.26	0.0262	0.0234
Cr	17.85	1.8276	1.6306
Cu	164.35	16.8312	15.0164
Pb	4.03	0.4125	0.3680
Hg	0.16	0.0160	0.0142
Mo	4.97	0.5088	0.4540
Ni	10.05	1.0297	0.9187
Se	1.72	0.1758	0.1569
Zn	274.01	28.0620	25.0363
PAN	3,704.02	379.3398	338.4394

January 2020 Haul Logs

DATE	ORIGIN	TICKET_#	DESTINATION	GROSS	TARE	NET	TONS
1/8/20	San Diego - MBC	112033	YM 9-49	80,240	29,860	50,380	25.19
1/8/20	San Diego - MBC	112036	YM 9-49	79,880	28,440	51,440	25.72
1/8/20	San Diego - MBC	112037	YM 9-49	79,520	30,640	48,880	24.44
1/8/20	San Diego - MBC	112039	YM 9-49	78,960	33,100	45,860	22.93
1/8/20	San Diego - MBC	112040	YM 9-49	79,700	28,500	51,200	25.60
1/8/20	San Diego - MBC	112044	YM 9-49	78,720	31,760	46,960	23.48
1/8/20	San Diego - MBC	112046	YM 9-49	78,480	31,020	47,460	23.73
1/8/20	San Diego - MBC	112047	YM 9-49	78,060	29,860	48,200	24.10
1/8/20	San Diego - MBC	112052	YM 9-49	79,580	29,840	49,740	24.87
1/9/20	San Diego - MBC	112055	YM 9-49	79,420	29,780	49,640	24.82
1/9/20	San Diego - MBC	112056	YM 9-49	79,300	30,880	48,420	24.21
1/9/20	San Diego - MBC	112059	YM 9-49	79,180	28,020	51,160	25.58
1/9/20	San Diego - MBC	112062	YM 9-49	78,760	32,740	46,020	23.01
1/9/20	San Diego - MBC	112064	YM 9-49	78,120	31,200	46,920	23.46
1/9/20	San Diego - MBC	112066	YM 9-49	79,620	29,980	49,640	24.82
1/10/20	San Diego - MBC	112069	YM 9-49	80,040	29,960	50,080	25.04
1/10/20	San Diego - MBC	112070	YM 9-49	78,940	28,420	50,520	25.26
1/10/20	San Diego - MBC	112071	YM 9-49	79,320	32,860	46,460	23.23
1/10/20	San Diego - MBC	112073	YM 9-49	79,460	30,300	49,160	24.58
1/10/20	San Diego - MBC	112077	YM 9-49	78,640	30,000	48,640	24.32
1/10/20	San Diego - MBC	112078	YM 9-49	79,380	31,240	48,140	24.07
1/10/20	San Diego - MBC	112080	YM 9-49	77,440	28,220	49,220	24.61
1/13/20	San Diego - MBC	112084	YM 9-49	79,800	29,820	49,980	24.99
1/13/20	San Diego - MBC	112085	YM 9-49	78,540	30,520	48,020	24.01
1/13/20	San Diego - MBC	112088	YM 9-49	79,560	32,820	46,740	23.37
1/13/20	San Diego - MBC	112089	YM 9-49	79,760	30,500	49,260	24.63
1/13/20	San Diego - MBC	112090	YM 9-49	79,360	28,340	51,020	25.51
1/13/20	San Diego - MBC	112091	YM 9-49	78,980	31,400	47,580	23.79
1/13/20	San Diego - MBC	112092	YM 9-49	78,800	28,360	50,440	25.22
1/13/20	San Diego - MBC	112093	YM 9-53	78,200	29,880	48,320	24.16
1/13/20	San Diego - MBC	112094	YM 9-53	79,000	31,540	47,460	23.73
1/13/20	San Diego - MBC	112102	YM 9-53	78,620	30,460	48,160	24.08
1/14/20	San Diego - MBC	112105	YM 9-53	80,200	29,680	50,520	25.26
1/14/20	San Diego - MBC	112106	YM 9-53	79,800	30,720	49,080	24.54
1/14/20	San Diego - MBC	112107	YM 9-53	79,040	32,860	46,180	23.09
1/14/20	San Diego - MBC	112108	YM 9-53	79,620	28,400	51,220	25.61
1/14/20	San Diego - MBC	112110	YM 9-53	79,760	28,400	51,360	25.68
1/14/20	San Diego - MBC	112115	YM 9-53	79,760	31,120	48,640	24.32

1/14/20	San Diego - MBC	112116	YM 9-53	79,840	31,480	48,360	24.18
1/14/20	San Diego - MBC	112124	YM 9-53	79,080	29,860	49,220	24.61
1/15/20	San Diego - MBC	112125	YM 9-53	79,100	29,800	49,300	24.65
1/15/20	San Diego - MBC	112126	YM 9-53	79,200	30,640	48,560	24.28
1/15/20	San Diego - MBC	112127	YM 9-53	79,820	28,440	51,380	25.69
1/15/20	San Diego - MBC	112128	YM 9-53	79,780	30,700	49,080	24.54
1/15/20	San Diego - MBC	112129	YM 9-53	79,560	28,420	51,140	25.57
1/15/20	San Diego - MBC	112131	YM 9-53	79,800	33,020	46,780	23.39
1/15/20	San Diego - MBC	112135	YM 9-53	78,300	31,140	47,160	23.58
1/15/20	San Diego - MBC	112136	YM 9-53	79,940	31,540	48,400	24.20
1/15/20	San Diego - MBC	112143	YM 9-53	78,920	30,420	48,500	24.25
1/16/20	San Diego - MBC	112146	YM 9-19	80,320	28,420	51,900	25.95
1/16/20	San Diego - MBC	112147	YM 9-19	80,420	28,440	51,980	25.99
1/16/20	San Diego - MBC	112149	YM 9-19	78,260	31,260	47,000	23.50
1/16/20	San Diego - MBC	112150	YM 9-19	78,500	31,560	46,940	23.47
1/16/20	San Diego - MBC	112152	YM 9-19	78,200	29,820	48,380	24.19
1/16/20	San Diego - MBC	112155	YM 9-19	79,380	29,800	49,580	24.79
1/17/20	San Diego - MBC	112158	YM 9-19	79,620	29,920	49,700	24.85
1/17/20	San Diego - MBC	112159	YM 9-19	79,120	28,420	50,700	25.35
1/17/20	San Diego - MBC	112160	YM 9-19	79,060	32,880	46,180	23.09
1/17/20	San Diego - MBC	112161	YM 9-19	78,740	28,400	50,340	25.17
1/17/20	San Diego - MBC	112162	YM 9-19	79,140	30,700	48,440	24.22
1/17/20	San Diego - MBC	112167	YM 9-19	79,000	31,360	47,640	23.82
1/17/20	San Diego - MBC	112168	YM 9-19	79,720	31,440	48,280	24.14
1/17/20	San Diego - MBC	112172	YM 9-19	78,840	28,120	50,720	25.36
							1,541.89

DATE	ORIGIN	TICKET #	DESTINATION	GROSS	TARE	NET	TONS
1/13/20	San Diego - MBC	112329	MA 7-2403	78,280	34,520	43,760	21.88
1/21/20	San Diego - MBC	112174	MA 7-2403	79,100	30,100	49,000	24.50
1/21/20	San Diego - MBC	112175	MA 7-2403	79,000	28,480	50,520	25.26
1/21/20	San Diego - MBC	112176	MA 7-2403	79,260	31,440	47,820	23.91
1/21/20	San Diego - MBC	112177	MA 7-2403	79,500	32,720	46,780	23.39
1/21/20	San Diego - MBC	112178	MA 7-2403	79,340	28,260	51,080	25.54
1/21/20	San Diego - MBC	112179	MA 7-2403	79,600	28,540	51,060	25.53
1/21/20	San Diego - MBC	112180	MA 7-2403	78,700	28,280	50,420	25.21
1/21/20	San Diego - MBC	112184	MA 7-2403	78,060	31,320	46,740	23.37
1/21/20	San Diego - MBC	112185	MA 7-2403	79,240	28,720	50,520	25.26
1/22/20	San Diego - MBC	112193	MA 7-2403	79,360	29,860	49,500	24.75
1/22/20	San Diego - MBC	112195	MA 7-2403	80,340	33,160	47,180	23.59

1/22/20	San Diego - MBC	112198	MA 7-2403	79,800	30,220	49,580	24.79
1/22/20	San Diego - MBC	112198	MA 7-2403	79,420	29,660	49,760	24.88
1/22/20	San Diego - MBC	112201	MA 7-2403	78,760	28,400	50,360	25.18
1/22/20	San Diego - MBC	112202	MA 7-2403	79,720	28,380	51,340	25.67
1/22/20	San Diego - MBC	112203	MA 7-2403	80,000	31,520	48,480	24.24
1/22/20	San Diego - MBC	112205	MA 7-2403	79,660	31,680	47,980	23.99
1/22/20	San Diego - MBC	112212	MA 7-2403	80,540	31,020	49,520	24.76
1/23/20	San Diego - MBC	112214	MA 7-2403	78,840	30,100	48,740	24.37
1/23/20	San Diego - MBC	112215	MA 7-2403	78,780	32,840	45,940	22.97
1/23/20	San Diego - MBC	112219	MA 7-2403	78,820	28,320	50,500	25.25
1/23/20	San Diego - MBC	112221	MA 7-2403	78,620	28,760	49,860	24.93
1/23/20	San Diego - MBC	112223	MA 7-2403	78,220	29,480	48,740	24.37
1/23/20	San Diego - MBC	112224	MA 7-2403	79,500	28,500	51,000	25.50
1/23/20	San Diego - MBC	112228	MA 7-2403	78,840	30,900	47,940	23.97
1/24/20	San Diego - MBC	112232	MA 7-1001	79,480	29,400	50,080	25.04
1/24/20	San Diego - MBC	112234	MA 7-1001	79,120	31,340	47,780	23.89
1/24/20	San Diego - MBC	112235	MA 7-1001	79,420	28,600	50,820	25.41
1/24/20	San Diego - MBC	112236	MA 7-1001	79,400	27,520	51,880	25.94
1/24/20	San Diego - MBC	112237	MA 7-1001	79,180	32,880	46,300	23.15
1/24/20	San Diego - MBC	112241	MA 7-1001	79,800	31,500	48,300	24.15
1/24/20	San Diego - MBC	112242	MA 7-1001	79,340	28,300	51,040	25.52
1/24/20	San Diego - MBC	112246	MA 7-1001	79,360	30,800	48,560	24.28
1/24/20	San Diego - MBC	112250	MA 7-1001	77,800	29,720	48,080	24.04
1/27/20	San Diego - MBC	112253	MA 7-1001	78,840	30,060	48,780	24.39
1/27/20	San Diego - MBC	112254	MA 7-1001	77,940	30,460	47,480	23.74
1/27/20	San Diego - MBC	112255	MA 7-1001	79,540	30,780	48,760	24.38
1/27/20	San Diego - MBC	112256	MA 7-1001	78,700	28,220	50,480	25.24
1/27/20	San Diego - MBC	112257	MA 7-1001	78,600	32,980	45,620	22.81
1/27/20	San Diego - MBC	112258	MA 7-1001	78,120	30,560	47,560	23.78
1/27/20	San Diego - MBC	112260	MA 7-1001	77,640	28,320	49,320	24.66
1/27/20	San Diego - MBC	112263	MA 7-1001	78,660	28,600	50,060	25.03
1/27/20	San Diego - MBC	112267	MA 7-1001	78,580	31,420	47,160	23.58
1/27/20	San Diego - MBC	112268	MA 7-1001	79,540	31,300	48,240	24.12
1/27/20	San Diego - MBC	112278	MA 7-1001	79,240	30,760	48,480	24.24
1/28/20	San Diego - MBC	112273	MA 7-1001	79,240	30,000	49,240	24.62
1/28/20	San Diego - MBC	112276	MA 7-1001	79,800	31,160	48,640	24.32
1/28/20	San Diego - MBC	112277	MA 7-1001	79,080	28,000	51,080	25.54
1/28/20	San Diego - MBC	112279	MA 7-1001	78,780	28,840	49,940	24.97
1/28/20	San Diego - MBC	112284	MA 7-1001	79,280	28,380	50,900	25.45
1/29/20	San Diego - MBC	112290	MA 7-1001	79,600	29,960	49,640	24.82
1/29/20	San Diego - MBC	112292	MA 7-1001	79,900	30,820	49,080	24.54

1/29/20	San Diego - MBC	112293	MA 7-1001	78,180	28,880	49,300	24.65
1/29/20	San Diego - MBC	112295	MA 7-1001	78,500	27,980	50,520	25.26
1/29/20	San Diego - MBC	112300	MA 7-1001	79,560	31,440	48,120	24.06
1/29/20	San Diego - MBC	112301	MA 7-1001	78,060	30,440	47,620	23.81
1/30/20	San Diego - MBC	112308	MA 7-1001	80,020	28,700	51,320	25.66
1/30/20	San Diego - MBC	112310	MA 7-1001	79,580	28,140	51,440	25.72
1/30/20	San Diego - MBC	112312	MA 7-1001	78,580	32,640	45,940	22.97
1/30/20	San Diego - MBC	112314	MA 7-1001	78,960	30,860	48,100	24.05
1/31/20	San Diego - MBC	112321	MA 7-1002	79,580	29,940	49,640	24.82
1/31/20	San Diego - MBC	112325	MA 7-1002	78,920	27,920	51,000	25.50
1/31/20	San Diego - MBC	112326	MA 7-1002	79,240	32,720	46,520	23.26
1/31/20	San Diego - MBC	112327	MA 7-1002	78,560	33,080	45,480	22.74
1/31/20	San Diego - MBC	112330	MA 7-1002	78,520	28,320	50,200	25.10
1/31/20	San Diego - MBC	112337	MA 7-1002	79,820	30,800	49,020	24.51
1/31/20	San Diego - MBC	112338	MA 7-1002	79,320	28,540	50,780	25.39
							1,764.00

Denali
WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 01/01/2020 to 02/01/2020

Permit:

Field Name:	MA 7-1002	**Wet Tons Applied:**	347.15
Total Acres:	76.10	**Dry Tons Applied:**	88.86
Latitude:	33 31'51"N	**Wet Metric Tons Applied:**	315.14
Longitude:	113 10' 30" W	**Dry Metric Tons Applied:**	80.67
Crop:	Alfalfa	**Wet Tons/Acre Applied:**	4.56
Crop Nitrogen Usage:	600	**Dry Tons/Acre Applied:**	1.17
Application Started:	02/01/2020	**Wet Metric Tons/ha Applied:**	4.14
Seeding Date:		**Dry Metric Tons/ha Applied:**	1.06
Harvesting Date:		**Residual N (lbs/Acre):**	0.00

Constituent	Kilograms Applied Year to Date (kg/ha)	Pounds Applied Year to Date (lbs/ac)*	Kilograms Applied Project to Date (kg/ha)
TKN	123.45	110.14	123.45
NH3	15.21	13.57	15.21
NO3	0.11	0.10	0.11
Organic N	108.24	96.57	108.24
As	0.01	0.01	0.01
Cd	0.01	0.01	0.01
Cr	0.18	0.16	0.18
Cu	1.37	1.22	1.37
Pb	0.04	0.04	0.04
Hg	0.00	0.00	0.00
Mo	0.05	0.05	0.05
Ni	0.09	0.08	0.09
Se	0.04	0.03	0.04
Zn	2.58	2.30	2.58
PAN	29.34	26.18	N/A
P	3.48	3.10	3.48

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 01/01/2020 to 01/31/2020

Permit:

Field Name:	MA 7-2403	**Wet Tons Applied:**	3,924.00
Total Acres:	73.30	**Dry Tons Applied:**	974.50
Latitude:	33 30' 13"N	**Wet Metric Tons Applied:**	3,562.21
Longitude:	113 08' 00" W	**Dry Metric Tons Applied:**	884.65
Crop:	Alfalfa	**Wet Tons/Acre Applied:**	53.53
Crop Nitrogen Usage:	600	**Dry Tons/Acre Applied:**	13.29
Application Started:	01/01/2020	**Wet Metric Tons/ha Applied:**	48.60
Seeding Date:		**Dry Metric Tons/ha Applied:**	12.07
Harvesting Date:		**Residual N (lbs/Acre):**	0.00

Constituent	Kilograms Applied Year to Date (kg/ha)	Pounds Applied Year to Date (lbs/ac)*	Kilograms Applied Project to Date (kg/ha)
TKN	1,489.24	1,328.67	1,489.24
NH3	168.22	150.09	168.22
NO3	2.29	2.04	2.29
Organic N	1,321.01	1,178.58	1,321.01
As	0.21	0.18	0.21
Cd	0.12	0.11	0.12
Cr	2.55	2.28	2.55
Cu	15.15	13.52	15.15
Pb	0.50	0.45	0.50
Hg	0.02	0.02	0.02
Mo	0.75	0.67	0.75
Ni	1.16	1.03	1.16
Se	0.66	0.59	0.66
Zn	33.56	29.94	33.56
PAN	350.14	312.39	N/A
P	88.25	78.74	88.25

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 01/01/2020 to 01/31/2020

Permit:

Field Name:	MA 5-6	**Wet Tons Applied:**	1,289.22
Total Acres:	277	**Dry Tons Applied:**	299.57
Latitude:	33 21' 20" N	**Wet Metric Tons Applied:**	1,170.35
Longitude:	113 09' 30" W	**Dry Metric Tons Applied:**	271.95
Crop:	Cotton	**Wet Tons/Acre Applied:**	4.65
Crop Nitrogen Usage:	250	**Dry Tons/Acre Applied:**	1.08
Application Started:	01/15/2020	**Wet Metric Tons/ha Applied:**	4.23
Seeding Date:		**Dry Metric Tons/ha Applied:**	0.98
Harvesting Date:		**Residual N (lbs/Acre):**	0.00

Constituent	Kilograms Applied Year to Date (kg/ha)	Pounds Applied Year to Date (lbs/ac)*	Kilograms Applied Project to Date (kg/ha)
TKN	112.76	100.60	112.76
NH3	11.53	10.29	11.53
NO3	0.22	0.19	0.22
Organic N	101.22	90.31	101.22
As	0.02	0.02	0.02
Cd	0.01	0.01	0.01
Cr	0.22	0.19	0.22
Cu	1.17	1.05	1.17
Pb	0.04	0.04	0.04
Hg	0.00	0.00	0.00
Mo	0.06	0.06	0.06
Ni	0.09	0.08	0.09
Se	0.06	0.06	0.06
Zn	2.73	2.43	2.73
PAN	26.23	23.40	N/A
P	8.58	7.65	8.58

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 01/01/2020 to 01/31/2020

Permit:

Field Name:	MA 7-1001	**Wet Tons Applied:**	2,485.97
Total Acres:	78.20	**Dry Tons Applied:**	608.63
Latitude:	33 32' 05"N	**Wet Metric Tons Applied:**	2,256.76
Longitude:	113 10' 30" W	**Dry Metric Tons Applied:**	552.52
Crop:	Alfalfa	**Wet Tons/Acre Applied:**	31.79
Crop Nitrogen Usage:	600	**Dry Tons/Acre Applied:**	7.78
Application Started:	01/24/2020	**Wet Metric Tons/ha Applied:**	28.86
Seeding Date:		**Dry Metric Tons/ha Applied:**	7.07
Harvesting Date:		**Residual N (lbs/Acre):**	0.00

Constituent	Kilograms Applied Year to Date (kg/ha)	Pounds Applied Year to Date (lbs/ac)*	Kilograms Applied Project to Date (kg/ha)
TKN	856.17	763.86	856.17
NH3	110.03	98.16	110.03
NO3	0.85	0.76	0.85
Organic N	746.15	665.70	746.15
As	0.10	0.09	0.10
Cd	0.05	0.04	0.05
Cr	1.27	1.13	1.27
Cu	9.36	8.35	9.36
Pb	0.26	0.23	0.26
Hg	0.01	0.01	0.01
Mo	0.40	0.35	0.40
Ni	0.64	0.57	0.64
Se	0.28	0.25	0.28
Zn	19.25	17.17	19.25
PAN	204.92	182.83	N/A
P	43.15	38.50	43.15

Denali
WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 01/01/2020 to 01/31/2020

Permit:

Field Name:	YM 8-13	**Wet Tons Applied:**	1,676.07
Total Acres:	75.80	**Dry Tons Applied:**	542.26
Latitude:	32 54 ' 04" N	**Wet Metric Tons Applied:**	1,521.54
Longitude:	113 31 ' 45" W	**Dry Metric Tons Applied:**	492.26
Crop:	Silage Corn	**Wet Tons/Acre Applied:**	22.11
Crop Nitrogen Usage:	250	**Dry Tons/Acre Applied:**	7.15
Application Started:	01/01/2020	**Wet Metric Tons/ha Applied:**	20.07
Seeding Date:		**Dry Metric Tons/ha Applied:**	6.49
Harvesting Date:		**Residual N (lbs/Acre):**	0.00

Constituent	Kilograms Applied Year to Date (kg/ha)	Pounds Applied Year to Date (lbs/ac)*	Kilograms Applied Project to Date (kg/ha)
TKN	622.86	555.70	622.86
NH3	92.35	82.40	92.35
NO3	0.22	0.19	0.22
Organic N	530.50	473.30	530.50
As	0.06	0.05	0.06
Cd	0.01	0.01	0.01
Cr	0.79	0.70	0.79
Cu	7.37	6.58	7.37
Pb	0.16	0.15	0.16
Hg	0.01	0.01	0.01
Mo	0.23	0.21	0.23
Ni	0.46	0.41	0.46
Se	0.09	0.08	0.09
Zn	13.09	11.68	13.09
PAN	152.49	136.05	N/A

Denali
WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 01/01/2020 to 01/31/2020

Permit:

Field Name:	YM 9-53	**Wet Tons Applied:**	1,339.13
Total Acres:	17.10	**Dry Tons Applied:**	410.58
Latitude:	32 55' 53".N	**Wet Metric Tons Applied:**	1,215.66
Longitude:	113 25' 35" W	**Dry Metric Tons Applied:**	372.72
Crop:	Bermuda Hay	**Wet Tons/Acre Applied:**	78.31
Crop Nitrogen Usage:	500	**Dry Tons/Acre Applied:**	24.01
Application Started:	01/09/2020	**Wet Metric Tons/ha Applied:**	71.09
Seeding Date:		**Dry Metric Tons/ha Applied:**	21.80
Harvesting Date:		**Residual N (lbs/Acre):**	0.00

Constituent	Kilograms Applied Year to Date (kg/ha)	Pounds Applied Year to Date (lbs/ac)*	Kilograms Applied Project to Date (kg/ha)
TKN	1,899.68	1,694.86	1,899.68
NH3	282.35	251.90	282.35
NO3	0.58	0.51	0.58
Organic N	1,617.33	1,442.95	1,617.33
As	0.20	0.18	0.20
Cd	0.05	0.04	0.05
Cr	2.59	2.31	2.59
Cu	24.49	21.85	24.49
Pb	0.56	0.50	0.56
Hg	0.03	0.03	0.03
Mo	0.75	0.67	0.75
Ni	1.46	1.31	1.46
Se	0.31	0.28	0.31
Zn	42.92	38.30	42.92
PAN	465.10	414.95	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 01/01/2020 to 01/31/2020

Permit:

Field Name:	YM 9-19	**Wet Tons Applied:**	539.23
Total Acres:	11.70	**Dry Tons Applied:**	143.09
Latitude:	32 56' 51".N	**Wet Metric Tons Applied:**	489.51
Longitude:	113 18' 35" W	**Dry Metric Tons Applied:**	129.89
Crop:	Bermuda Hay	**Wet Tons/Acre Applied:**	46.09
Crop Nitrogen Usage:	500	**Dry Tons/Acre Applied:**	12.23
Application Started:	01/16/2020	**Wet Metric Tons/ha Applied:**	41.84
Seeding Date:		**Dry Metric Tons/ha Applied:**	11.10
Harvesting Date:		**Residual N (lbs/Acre):**	0.00

Constituent	Kilograms Applied Year to Date (kg/ha)	Pounds Applied Year to Date (lbs/ac)*	Kilograms Applied Project to Date (kg/ha)
TKN	1,258.39	1,122.71	1,258.39
NH3	183.99	164.15	183.99
NO3	0.45	0.40	0.45
Organic N	1,074.40	958.56	1,074.40
As	0.10	0.08	0.10
Cd	0.02	0.02	0.02
Cr	1.47	1.31	1.47
Cu	13.45	12.00	13.45
Pb	0.30	0.27	0.30
Hg	0.01	0.01	0.01
Mo	0.43	0.38	0.43
Ni	0.87	0.78	0.87
Se	0.16	0.14	0.16
Zn	23.52	20.98	23.52
PAN	307.23	274.10	N/A

Denali
WATER SOLUTIONS

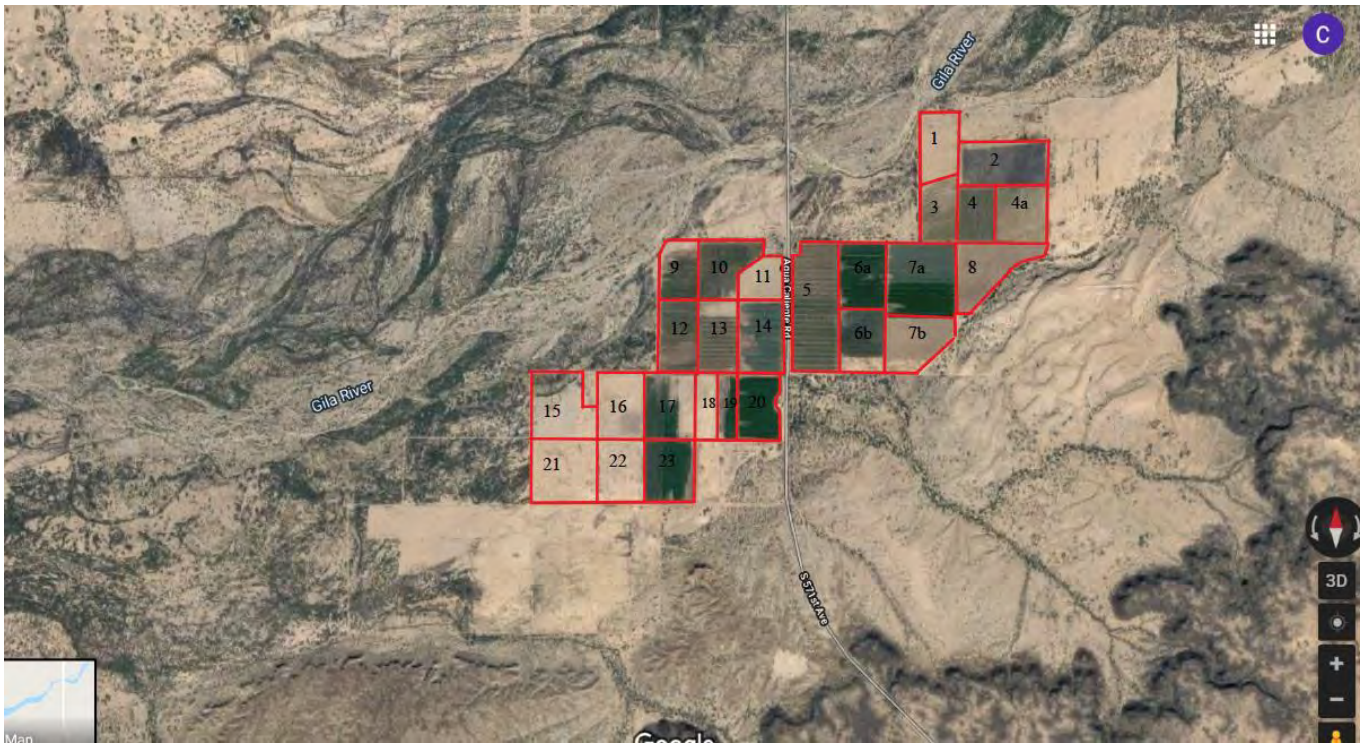
FIELD APPLICATION SUMMARY REPORT

For: 01/01/2020 to 01/31/2020

Permit:

Field Name:	YM 9-49	**Wet Tons Applied:**	1,369.51
Total Acres:	24.60	**Dry Tons Applied:**	552.81
Latitude:	32 56' 00".N	**Wet Metric Tons Applied:**	1,243.24
Longitude:	113 25' 25" W	**Dry Metric Tons Applied:**	501.84
Crop:	Bermuda Hay	**Wet Tons/Acre Applied:**	55.67
Crop Nitrogen Usage:	500	**Dry Tons/Acre Applied:**	22.47
Application Started:	01/09/2020	**Wet Metric Tons/ha Applied:**	50.54
Seeding Date:		**Dry Metric Tons/ha Applied:**	20.40
Harvesting Date:		**Residual N (lbs/Acre):**	0.00

Constituent	Kilograms Applied Year to Date (kg/ha)	Pounds Applied Year to Date (lbs/ac)*	Kilograms Applied Project to Date (kg/ha)
TKN	1,345.20	1,200.16	1,345.20
NH3	205.73	183.55	205.73
NO3	0.45	0.40	0.45
Organic N	1,139.47	1,016.62	1,139.47
As	0.20	0.18	0.20
Cd	0.05	0.04	0.05
Cr	2.09	1.86	2.09
Cu	20.12	17.95	20.12
Pb	0.46	0.41	0.46
Hg	0.03	0.03	0.03
Mo	0.61	0.55	0.61
Ni	1.15	1.03	1.15
Se	0.30	0.26	0.30
Zn	37.29	33.27	37.29
PAN	331.12	295.42	N/A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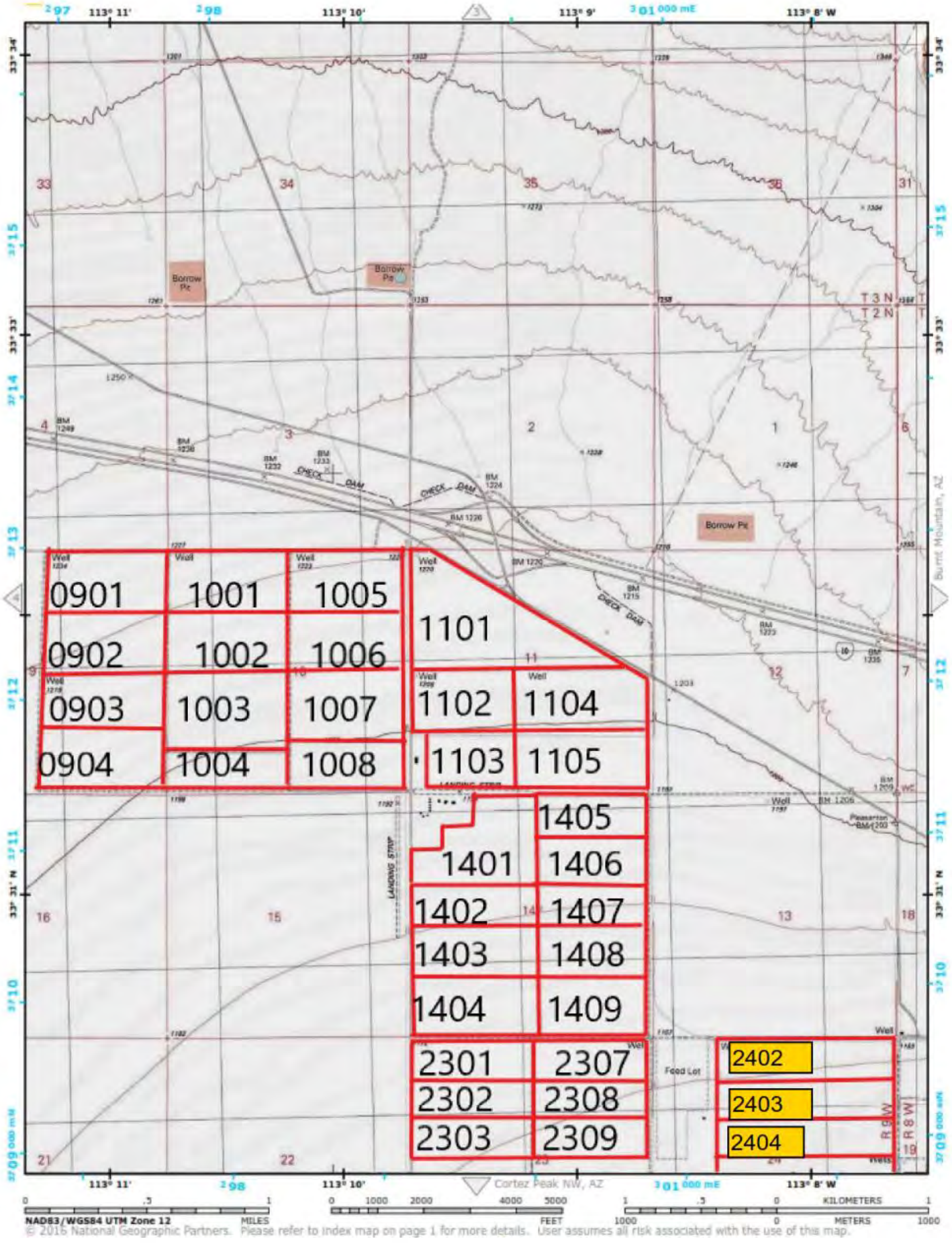

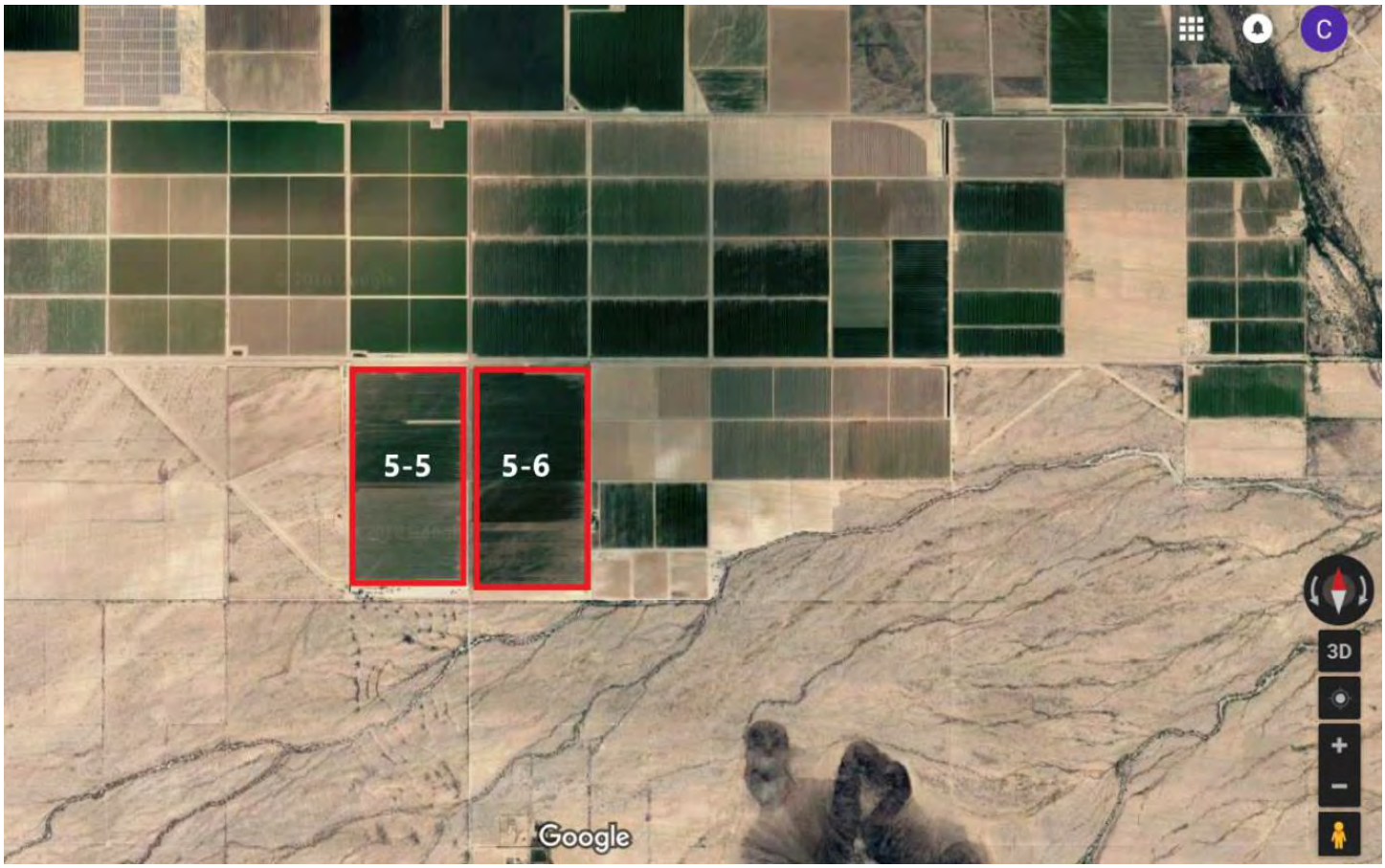
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3031 Franklin Ave,
Riverside, CA 92507

August 26, 2020

Mr. Richard Pitchford
City of San Diego
5240 Convoy Street, MS 901M
San Diego, CA 92111

Dear Richard,

Enclosed is the Monthly Biosolids Report for the month of July 2020. This report includes the date and amount hauled from each plant, the application site(s), analysis of the biosolids and concentration of metals and nitrogen applied to the site(s).

If you have any questions or comments on this report, please contact me at (760) 801-3175.

Sincerely,

Chris Marks

Enclosure

3031 Franklin Ave Suite A

Riverside, CA 92507

Monthly Biosolids Report

City of San Diego Public Utilities Department

Metropolitan Biosolids Center

For July 2020

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Denali
WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 07/01/2020 to 07/31/2020

Waste Source:	City of San Diego - MBC
Waste Type:	WWTP Biosolids
Analysis Date:	08/26/2020
Field Name:	YM 8-7
Acreage:	63.30
Application Method:	Surface
Volume Applied:	360.34 WT

Wet Tons Applied:	360.34
Dry Tons Applied:	102.70
Wet Metric Tons Applied:	327.12
Dry Metric Tons Applied:	93.23
Wet Tons/Acre Applied:	5.69
Dry Tons/Acre Applied:	1.62
Wet Metric Tons/ha Applied:	5.17
Dry Metric Tons/ha Applied:	1.47

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	28.50%		
TKN	50,600.00	184.0270	164.1852
NH3	5,600.00	20.3666	18.1707
NO3	0.00	0.0000	0.0000
Organic N	0.00	163.6604	146.0146
As	0.00	0.0000	0.0000
Cd	0.76	0.0028	0.0025
Cr	52.00	0.1891	0.1687
Cu	569.00	2.0694	1.8463
Pb	12.40	0.0451	0.0402
Hg	0.62	0.0023	0.0020
Mo	15.30	0.0556	0.0496
Ni	24.10	0.0876	0.0782
Se	6.16	0.0224	0.0200
Zn	904.00	3.2878	2.9333
PAN	11,800.00	42.9154	38.2883
P	0.00	0.0000	0.0000

July Load Log

DATE	ORIGIN	TICKET_#	DESTINATION	QUANTITY
7/23/2020	Metropolitan Biosolids Center	114626	YM 8-7	25.39
7/24/2020	Metropolitan Biosolids Center	114645	YM 8-7	24.14
7/24/2020	Metropolitan Biosolids Center	114648	YM 8-7	24.02
7/27/2020	Metropolitan Biosolids Center	114677	YM 8-7	24.38
7/27/2020	Metropolitan Biosolids Center	114679	YM 8-7	24.28
7/27/2020	Metropolitan Biosolids Center	114682	YM 8-7	23.51
7/28/2020	Metropolitan Biosolids Center	114696	YM 8-7	25.14
7/28/2020	Metropolitan Biosolids Center	114698	YM 8-7	24.53
7/28/2020	Metropolitan Biosolids Center	114708	YM 8-7	23.32
7/29/2020	Metropolitan Biosolids Center	114717	YM 8-7	24.41
7/29/2020	Metropolitan Biosolids Center	114719	YM 8-7	24.63
7/29/2020	Metropolitan Biosolids Center	114730	YM 8-7	23.28
7/30/2020	Metropolitan Biosolids Center	114743	YM 8-7	24.02
7/30/2020	Metropolitan Biosolids Center	114747	YM 8-7	22.73
7/30/2020	Metropolitan Biosolids Center	114750	YM 8-7	22.56
		15		360.34

Denali
WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

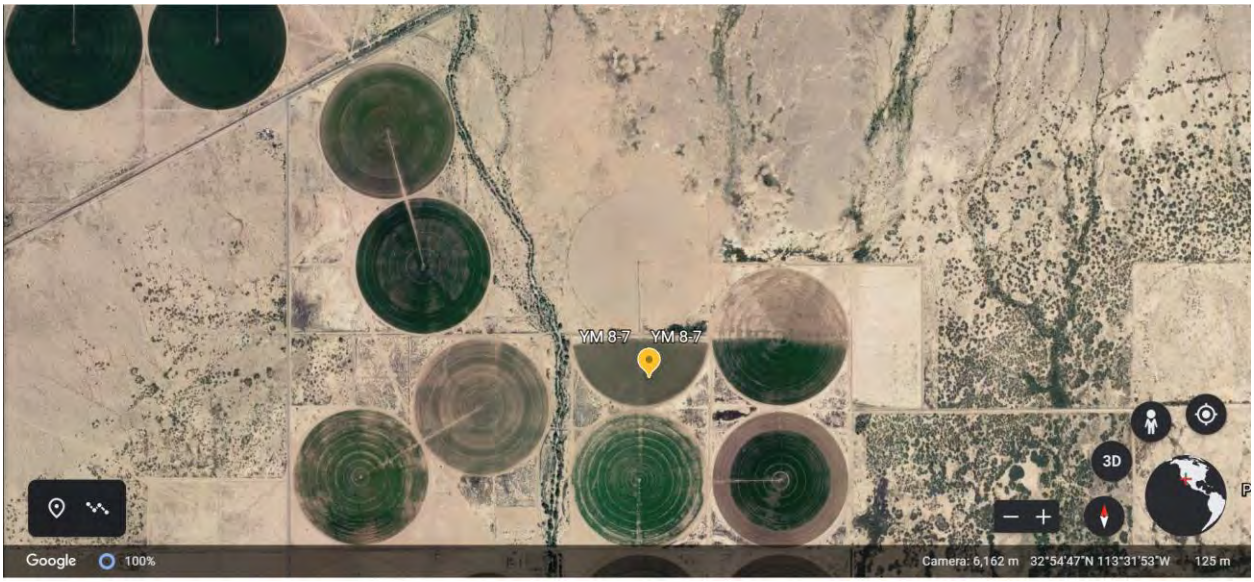
For: 07/01/2020 to 07/31/2020

Permit:

Field Name:	YM 8-7	**Wet Tons Applied:**	919.19
Total Acres:	63.30	**Dry Tons Applied:**	225.73
Latitude:	32 54 ' 52" N	**Wet Metric Tons Applied:**	834.44
Longitude:	113 31 ' 10" W	**Dry Metric Tons Applied:**	204.92
Crop:	Bermuda	**Wet Tons/Acre Applied:**	14.52
Crop Nitrogen Usage:	500	**Dry Tons/Acre Applied:**	3.57
Application Started:	07/15/2020	**Wet Metric Tons/ha Applied:**	13.18
Seeding Date:		**Dry Metric Tons/ha Applied:**	3.24
Harvesting Date:		**Residual N (lbs/Acre):**	0.00

Constituent	Kilograms Applied Year to Date (kg/ha)	Pounds Applied Year to Date (lbs/ac)*	Kilograms Applied Project to Date (kg/ha)
TKN	368.60	328.86	368.60
NH3	42.53	37.94	42.53
NO3	0.00	0.00	0.00
Organic N	326.08	290.92	326.08
As	0.03	0.02	0.03
Cd	0.01	0.01	0.01
Cr	0.38	0.34	0.38
Cu	3.86	3.44	3.86
Pb	0.06	0.06	0.06
Hg	0.00	0.00	0.00
Mo	0.12	0.11	0.12
Ni	0.25	0.23	0.25
Se	0.05	0.04	0.05
Zn	7.07	6.31	7.07
PAN	88.50	78.96	N/A
P	164.09	146.40	164.09

YM 8-7



3031 Franklin Ave,
Riverside, CA 92507

September 21, 2020

Mr. Richard Pitchford
City of San Diego
5240 Convoy Street, MS 901M
San Diego, CA 92111

Dear Richard,

Enclosed is the Monthly Biosolids Report for the month of August 2020. This report includes the date and amount hauled from each plant, the application site(s), analysis of the biosolids and concentration of metals and nitrogen applied to the site(s).

If you have any questions or comments on this report, please contact me at (760) 801-3175.

Sincerely,

Chris Marks

Enclosure

3031 Franklin Ave Suite A

Riverside, CA 92507

Monthly Biosolids Report

City of San Diego Public Utilities Department

Metropolitan Biosolids Center

For August 2020

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Denali
WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 08/01/2020 to 08/31/2020

Waste Source:	City of San Diego - MBC
Waste Type:	WWTP Biosolids
Analysis Date:	09/21/2020
Field Name:	YM 8-7
Acreage:	63.30
Application Method:	Surface
Volume Applied:	144.43 WT

Wet Tons Applied:	144.43
Dry Tons Applied:	39.43
Wet Metric Tons Applied:	131.11
Dry Metric Tons Applied:	35.79
Wet Tons/Acre Applied:	2.28
Dry Tons/Acre Applied:	0.62
Wet Metric Tons/ha Applied:	2.07
Dry Metric Tons/ha Applied:	0.57

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	27.30%		
TKN	47,360.00	66.1311	59.0008
NH3	5,860.00	8.1826	7.3004
NO3	0.00	0.0000	0.0000
Organic N	0.00	57.9485	51.7005
As	0.00	0.0000	0.0000
Cd	0.00	0.0000	0.0000
Cr	51.30	0.0716	0.0639
Cu	671.00	0.9369	0.8359
Pb	13.80	0.0193	0.0172
Hg	0.68	0.0009	0.0008
Mo	15.90	0.0222	0.0198
Ni	25.10	0.0350	0.0313
Se	6.42	0.0090	0.0080
Zn	937.00	1.3084	1.1673
PAN	11,230.00	15.6810	13.9903
P	0.00	0.0000	0.0000

August Load Log

Metropolitan Biosolids Center	114790	YM 8-7	24.53
Metropolitan Biosolids Center	114795	YM 8-7	23.73
Metropolitan Biosolids Center	114811	YM 8-7	23.88
Metropolitan Biosolids Center	114821	YM 8-7	23.51
Metropolitan Biosolids Center	114892	YM 8-7	24.81
Metropolitan Biosolids Center	114898	YM 8-7	23.97
	6		144.43

Denali
WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

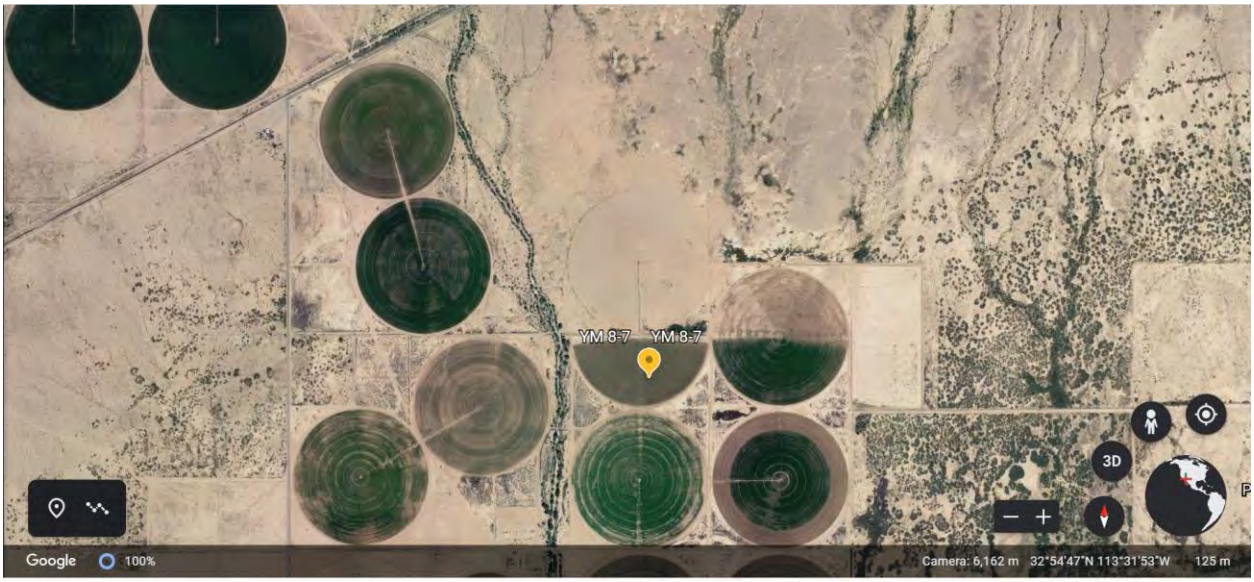
For: 08/01/2020 to 08/31/2020

Permit:

Field Name:	YM 8-7	**Wet Tons Applied:**	1,682
Total Acres:	63.30	**Dry Tons Applied:**	372
Latitude:	32 54 ' 52" N	**Wet Metric Tons Applied:**	1,526.92
Longitude:	113 31 ' 10" W	**Dry Metric Tons Applied:**	338.00
Crop:	Bermuda	**Wet Tons/Acre Applied:**	26.57
Crop Nitrogen Usage:	500	**Dry Tons/Acre Applied:**	5.88
Application Started:	07/15/2020	**Wet Metric Tons/ha Applied:**	24.12
Seeding Date:		**Dry Metric Tons/ha Applied:**	5.34
Harvesting Date:		**Residual N (lbs/Acre):**	0

Constituent	Kilograms Applied Year to Date (kg/ha)	Pounds Applied Year to Date (lbs/ac)*	Kilograms Applied Project to Date (kg/ha)
TKN	553.78	494.08	922.38
NH3	70.28	62.70	112.81
NO3	0.00	0.00	0.00
Organic N	483.49	431.36	483.49
As	0.05	0.05	0.10
Cd	0.00	0.00	0.02
Cr	0.64	0.57	1.01
Cu	6.09	5.43	9.95
Pb	0.07	0.06	0.13
Hg	0.00	0.00	0.01
Mo	0.21	0.19	0.33
Ni	0.50	0.44	0.74
Se	0.11	0.09	0.13
Zn	11.95	10.66	19.02
PAN	138.75	123.79	N/A
P	468.58	418.06	632.67

YM 8-7



3031 Franklin Ave,
Riverside, CA 92507

October 29, 2020

Mr. Richard Pitchford
City of San Diego
5240 Convoy Street, MS 901M
San Diego, CA 92111

Dear Richard,

Enclosed is the Monthly Biosolids Report for the month of September 2020. This report includes the date and amount hauled from each plant, the application site(s), analysis of the biosolids and concentration of metals and nitrogen applied to the site(s).

If you have any questions or comments on this report, please contact me at (760) 801-3175.

Sincerely,

Chris Marks

Enclosure

3031 Franklin Ave Suite A

Riverside, CA 92507

Monthly Biosolids Report

City of San Diego Public Utilities Department

Metropolitan Biosolids Center

For September 2020

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Denali
WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 09/01/2020 to 09/30/2020

Waste Source:	City of San Diego - MBC
Waste Type:	WWTP Biosolids
Analysis Date:	10/29/2020
Field Name:	YM 8-8
Acreage:	117.20
Application Method:	Surface
Volume Applied:	71.98 WT

Wet Tons Applied:	71.98
Dry Tons Applied:	19.65
Wet Metric Tons Applied:	65.34
Dry Metric Tons Applied:	17.84
Wet Tons/Acre Applied:	0.61
Dry Tons/Acre Applied:	0.17
Wet Metric Tons/ha Applied:	0.56
Dry Metric Tons/ha Applied:	0.15

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	27.30%		
TKN	47,360.00	17.8007	15.8814
NH3	5,860.00	2.2025	1.9651
NO3	0.00	0.0000	0.0000
Organic N	0.00	15.5981	13.9163
As	0.00	0.0000	0.0000
Cd	0.00	0.0000	0.0000
Cr	51.30	0.0193	0.0172
Cu	671.00	0.2522	0.2250
Pb	13.80	0.0052	0.0046
Hg	0.68	0.0003	0.0002
Mo	15.90	0.0060	0.0053
Ni	25.10	0.0094	0.0084
Se	6.42	0.0024	0.0022
Zn	937.00	0.3522	0.3142
PAN	11,230.00	4.2209	3.7658
P	0.00	0.0000	0.0000

Denali
WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 09/01/2020 to 09/30/2020

Waste Source:	City of San Diego - MBC
Waste Type:	WWTP Biosolids
Analysis Date:	10/29/2020
Field Name:	YM 8-20
Acreage:	76.90
Application Method:	Surface
Volume Applied:	123.44 WT

Wet Tons Applied:	123.44
Dry Tons Applied:	33.70
Wet Metric Tons Applied:	112.06
Dry Metric Tons Applied:	30.59
Wet Tons/Acre Applied:	1.61
Dry Tons/Acre Applied:	0.44
Wet Metric Tons/ha Applied:	1.46
Dry Metric Tons/ha Applied:	0.40

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	27.30%		
TKN	47,360.00	46.5245	41.5082
NH3	5,860.00	5.7566	5.1359
NO3	0.00	0.0000	0.0000
Organic N	0.00	40.7678	36.3723
As	0.00	0.0000	0.0000
Cd	0.00	0.0000	0.0000
Cr	51.30	0.0504	0.0450
Cu	671.00	0.6592	0.5881
Pb	13.80	0.0136	0.0121
Hg	0.68	0.0007	0.0006
Mo	15.90	0.0156	0.0139
Ni	25.10	0.0247	0.0220
Se	6.42	0.0063	0.0056
Zn	937.00	0.9205	0.8212
PAN	11,230.00	11.0319	9.8424
P	0.00	0.0000	0.0000

Denali
WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 09/01/2020 to 09/30/2020

Waste Source:	City of San Diego - MBC
Waste Type:	WWTP Biosolids
Analysis Date:	10/29/2020
Field Name:	YM 8-6
Acreage:	63.30
Application Method:	Surface
Volume Applied:	347.15 WT

Wet Tons Applied:	347.15
Dry Tons Applied:	94.77
Wet Metric Tons Applied:	315.14
Dry Metric Tons Applied:	86.03
Wet Tons/Acre Applied:	5.48
Dry Tons/Acre Applied:	1.50
Wet Metric Tons/ha Applied:	4.98
Dry Metric Tons/ha Applied:	1.36

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	27.30%		
TKN	47,360.00	158.9517	141.8136
NH3	5,860.00	19.6676	17.5470
NO3	0.00	0.0000	0.0000
Organic N	0.00	139.2841	124.2665
As	0.00	0.0000	0.0000
Cd	0.00	0.0000	0.0000
Cr	51.30	0.1722	0.1536
Cu	671.00	2.2520	2.0092
Pb	13.80	0.0463	0.0413
Hg	0.68	0.0023	0.0020
Mo	15.90	0.0534	0.0476
Ni	25.10	0.0842	0.0752
Se	6.42	0.0215	0.0192
Zn	937.00	3.1448	2.8057
PAN	11,230.00	37.6906	33.6268
P	0.00	0.0000	0.0000

Denali
WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 09/01/2020 to 09/30/2020

Waste Source:	City of San Diego - MBC
Waste Type:	WWTP Biosolids
Analysis Date:	10/29/2020
Field Name:	YM 8-7
Acreage:	63.30
Application Method:	Surface
Volume Applied:	72.07 WT

Wet Tons Applied:	72.07
Dry Tons Applied:	19.68
Wet Metric Tons Applied:	65.43
Dry Metric Tons Applied:	17.86
Wet Tons/Acre Applied:	1.14
Dry Tons/Acre Applied:	0.31
Wet Metric Tons/ha Applied:	1.03
Dry Metric Tons/ha Applied:	0.28

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	27.30%		
TKN	47,360.00	32.9991	29.4412
NH3	5,860.00	4.0831	3.6428
NO3	0.00	0.0000	0.0000
Organic N	0.00	28.9161	25.7983
As	0.00	0.0000	0.0000
Cd	0.00	0.0000	0.0000
Cr	51.30	0.0357	0.0319
Cu	671.00	0.4675	0.4171
Pb	13.80	0.0096	0.0086
Hg	0.68	0.0005	0.0004
Mo	15.90	0.0111	0.0099
Ni	25.10	0.0175	0.0156
Se	6.42	0.0045	0.0040
Zn	937.00	0.6529	0.5825
PAN	11,230.00	7.8248	6.9811
P	0.00	0.0000	0.0000

September Load Log

Name	Memo	Tckt Date	Tons
20263 San Diego Landfill Systems	YM 8-7	9/1/2020	23.77
20263 San Diego Landfill Systems	YM 8-7	9/1/2020	23.27
20263 San Diego Landfill Systems	YM 8-7	9/2/2020	25.03
20263 San Diego Landfill Systems	YM 8-8	9/3/2020	24.04
20263 San Diego Landfill Systems	YM 8-8	9/4/2020	24.56
20263 San Diego Landfill Systems	YM 8-8	9/4/2020	23.38
20263 San Diego Landfill Systems	YM 8-20	9/9/2020	24.77
20263 San Diego Landfill Systems	YM 8-20	9/9/2020	24.32
20263 San Diego Landfill Systems	YM 8-20	9/10/2020	24.81
20263 San Diego Landfill Systems	YM 8-20	9/10/2020	25.23
20263 San Diego Landfill Systems	YM 8-20	9/11/2020	24.31
20263 San Diego Landfill Systems	YM 8-6	9/12/2020	25.21
20263 San Diego Landfill Systems	YM 8-6	9/14/2020	24.82
20263 San Diego Landfill Systems	YM 8-6	9/15/2020	24.63
20263 San Diego Landfill Systems	YM 8-6	9/15/2020	24.44
20263 San Diego Landfill Systems	YM 8-6	9/16/2020	25.41
20263 San Diego Landfill Systems	YM 8-6	9/16/2020	24.85
20263 San Diego Landfill Systems	YM 8-6	9/17/2020	24.95
20263 San Diego Landfill Systems	YM 8-6	9/17/2020	24.67
20263 San Diego Landfill Systems	YM 8-6	9/21/2020	24.64
20263 San Diego Landfill Systems	YM 8-6	9/21/2020	25.66
20263 San Diego Landfill Systems	YM 8-6	9/22/2020	25.02
20263 San Diego Landfill Systems	YM 8-6	9/23/2020	24.96
20263 San Diego Landfill Systems	YM 8-6	9/25/2020	23.65
20263 San Diego Landfill Systems	YM 8-6	9/29/2020	24.24
			614.64

Denali
WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 09/01/2020 to 09/30/2020

Permit:

Field Name:	YM 8-8	**Wet Tons Applied:**	391.07
Total Acres:	117.20	**Dry Tons Applied:**	97.04
Latitude:	32 54 ' 52" N	**Wet Metric Tons Applied:**	355.01
Longitude:	113 30 ' 39" W	**Dry Metric Tons Applied:**	88.09
Crop:	Bermuda	**Wet Tons/Acre Applied:**	3.34
Crop Nitrogen Usage:	500	**Dry Tons/Acre Applied:**	0.83
Application Started:	09/03/2020	**Wet Metric Tons/ha Applied:**	3.03
Seeding Date:		**Dry Metric Tons/ha Applied:**	0.75
Harvesting Date:		**Residual N (lbs/Acre):**	0.00

Constituent	Kilograms Applied Year to Date (kg/ha)	Pounds Applied Year to Date (lbs/ac)*	Kilograms Applied Project to Date (kg/ha)
TKN	79.59	71.01	79.59
NH3	10.79	9.62	10.79
NO3	0.00	0.00	0.00
Organic N	68.80	61.38	68.80
As	0.01	0.01	0.01
Cd	0.00	0.00	0.00
Cr	0.11	0.10	0.11
Cu	0.79	0.70	0.79
Pb	0.01	0.01	0.01
Hg	0.00	0.00	0.00
Mo	0.03	0.03	0.03
Ni	0.07	0.06	0.07
Se	0.02	0.02	0.02
Zn	1.50	1.34	1.50
PAN	19.15	17.09	N/A
P	86.61	77.27	86.61

Denali
WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 09/01/2020 to 09/30/2020

Permit:

Field Name:	YM 8-20	**Wet Tons Applied:**	487.67
Total Acres:	76.90	**Dry Tons Applied:**	115.55
Latitude:	N 32° 54' 59"	**Wet Metric Tons Applied:**	442.71
Longitude:	W 113° 30' 18"	**Dry Metric Tons Applied:**	104.89
Crop:	Bermuda	**Wet Tons/Acre Applied:**	6.34
Crop Nitrogen Usage:	500	**Dry Tons/Acre Applied:**	1.50
Application Started:	09/20/2020	**Wet Metric Tons/ha Applied:**	5.76
Seeding Date:		**Dry Metric Tons/ha Applied:**	1.36
Harvesting Date:		**Residual N (lbs/Acre):**	0.00

Constituent	Kilograms Applied Year to Date (kg/ha)	Pounds Applied Year to Date (lbs/ac)*	Kilograms Applied Project to Date (kg/ha)
TKN	155.08	138.36	155.08
NH3	16.67	14.88	16.67
NO3	0.00	0.00	0.00
Organic N	138.41	123.48	138.41
As	0.01	0.01	0.01
Cd	0.00	0.00	0.00
Cr	0.14	0.12	0.14
Cu	1.58	1.41	1.58
Pb	0.02	0.02	0.02
Hg	0.00	0.00	0.00
Mo	0.05	0.05	0.05
Ni	0.11	0.10	0.11
Se	0.02	0.02	0.02
Zn	2.87	2.56	2.87
PAN	36.02	32.13	N/A
P	74.84	66.77	74.84

Denali
WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 09/01/2020 to 09/30/2020

Permit:

Field Name:	YM 8-6	**Wet Tons Applied:**	1,815
Total Acres:	63.30	**Dry Tons Applied:**	420.33
Latitude:	32° 54' 45" N	**Wet Metric Tons Applied:**	1,647.50
Longitude:	113° 31' 52"W	**Dry Metric Tons Applied:**	381.57
Crop:	Bermuda	**Wet Tons/Acre Applied:**	28.67
Crop Nitrogen Usage:	500	**Dry Tons/Acre Applied:**	6.64
Application Started:	09/01/2020	**Wet Metric Tons/ha Applied:**	26.03
Seeding Date:		**Dry Metric Tons/ha Applied:**	6.03
Harvesting Date:		**Residual N (lbs/Acre):**	0.00

Constituent	Kilograms Applied Year to Date (kg/ha)	Pounds Applied Year to Date (lbs/ac)*	Kilograms Applied Project to Date (kg/ha)
TKN	636.56	567.92	636.56
NH3	80.30	71.64	80.30
NO3	0.00	0.00	0.00
Organic N	556.26	496.28	556.26
As	0.07	0.06	0.07
Cd	0.02	0.01	0.02
Cr	0.70	0.63	0.70
Cu	6.87	6.13	6.87
Pb	0.10	0.08	0.10
Hg	0.01	0.00	0.01
Mo	0.23	0.21	0.23
Ni	0.54	0.48	0.54
Se	0.09	0.08	0.09
Zn	13.09	11.68	13.09
PAN	151.40	135.08	N/A
P	455.98	406.81	455.98

Denali
WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

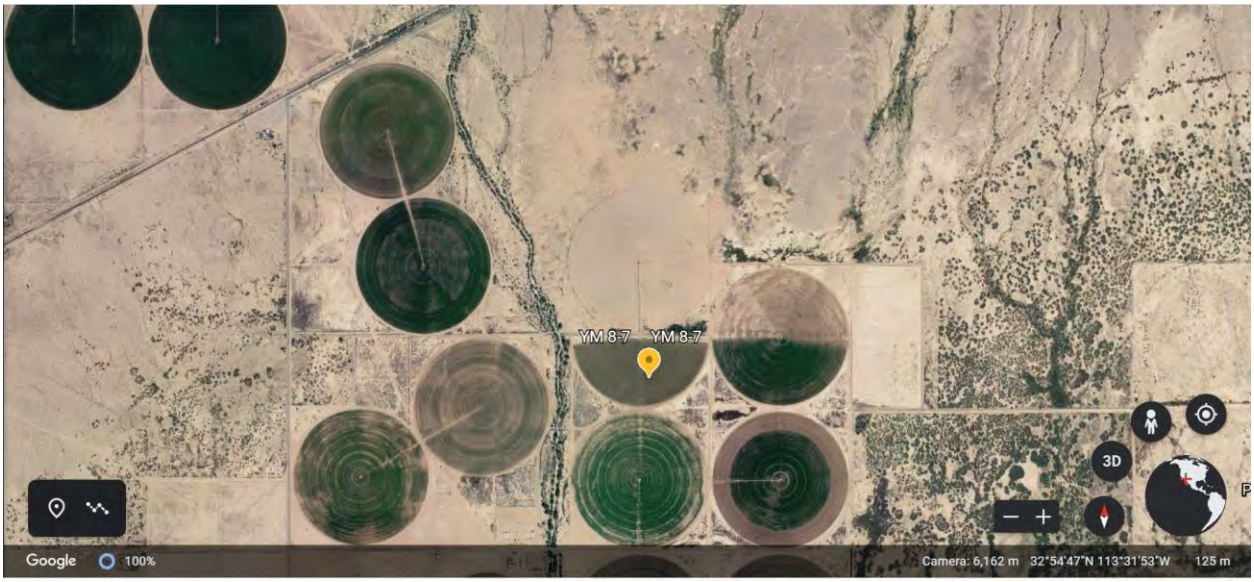
For: 09/01/2020 to 09/30/2020

Permit:

Field Name:	YM 8-7	**Wet Tons Applied:**	247
Total Acres:	63.30	**Dry Tons Applied:**	61
Latitude:	32 54 ' 52" N	**Wet Metric Tons Applied:**	224.23
Longitude:	113 31 ' 10" W	**Dry Metric Tons Applied:**	55.36
Crop:	Bermuda	**Wet Tons/Acre Applied:**	3.90
Crop Nitrogen Usage:	500	**Dry Tons/Acre Applied:**	0.96
Application Started:	07/15/2020	**Wet Metric Tons/ha Applied:**	3.54
Seeding Date:		**Dry Metric Tons/ha Applied:**	0.87
Harvesting Date:		**Residual N (lbs/Acre):**	0

Constituent	Kilograms Applied Year to Date (kg/ha)	Pounds Applied Year to Date (lbs/ac)*	Kilograms Applied Project to Date (kg/ha)
TKN	84.43	75.32	1,006.80
NH3	13.79	12.31	126.60
NO3	0.00	0.00	0.00
Organic N	70.63	63.02	70.64
As	0.00	0.00	0.11
Cd	0.00	0.00	0.03
Cr	0.11	0.09	1.13
Cu	0.96	0.85	10.91
Pb	0.02	0.02	0.15
Hg	0.00	0.00	0.01
Mo	0.04	0.03	0.37
Ni	0.09	0.08	0.83
Se	0.02	0.02	0.15
Zn	1.84	1.64	20.86
PAN	21.02	18.75	N/A
P	76.99	68.69	709.67

YM 8-7



YM 8-6,8,20

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Biosolids Report to

City of San Diego

For January 2020

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Summary for City of San Diego
January 2020

Field 2410244 received 227 loads totaling 5676.28 tons of Biosolids between 01/02/20 and 01/31/20

Composition analysis dated 12/05/19 was used to determine the makeup of the biosolids loaded between 01/02/20 and 01/09/20

Solids %: 29.4000
Composition PPM (mg/kg)
Arsenic (As): 4.1400
Cadmium (Cd): 0.8700
Chromium (Cr): 60.7000
Copper (Cu): 559.0000
Lead (Pb): 13.7000
Mercury (Hg): 0.5260
Molybdenum (Mo): 16.9000
Nickel (Ni): 34.2000
Selenium (Se): 5.8400
Zinc (Zn): 932.0000
Organic Nitrogen (OrgN): 44700.0000
Ammoniacal Nitrogen (NH3-N): 7300.0000
Nitrate Nitrogen (NO3-N): 0.0000

Composition analysis dated 01/09/20 was used between 01/09/20 and 01/31/20

Solids %: 29.2000
Composition PPM (mg/kg)
Arsenic (As): 4.0900
Cadmium (Cd): 27.0000
Chromium (Cr): 60.1000
Copper (Cu): 564.0000
Lead (Pb): 9.6000
Mercury (Hg): 0.5520
Molybdenum (Mo): 15.3000
Nickel (Ni): 26.4000
Selenium (Se): 6.4300
Zinc (Zn): 913.0000
Organic Nitrogen (OrgN): 49700.0000
Ammoniacal Nitrogen (NH3-N): 9100.0000
Nitrate Nitrogen (NO3-N): 0.0000

AG TECH, LLC
3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Application Summary for Field 2410244
City of San Diego - January 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: AGTECH Pivot: J-5 Field: 2410244 Area: 60.00 Acres = 24.28 Hectares
Location: S2 SE4 T10S R24W SEC 24 GSRBM , Yuma, AZ
Latitude: N 32 32 30.5 Longitude: W 114 40 15.4

Application Method: Incorporation

Analysis Date(s): 12/05/19 01/09/20

Solids Percentage: 29.26%

Wet Biosolids Applied:	5676.28 Tons	5149.44 Metric Tons
Dry Biosolids Applied:	1660.99 Tons	1506.83 Metric Tons
Wet Application Rate:	94.6 Tons/Acre	212.08 Metric Tons/ha
Dry Application Rate:	27.68 Tons/Acre	62.06 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	4.11	0.25	0.23
Cadmium (Cd):	18.86	1.17	1.04
Chromium (Cr):	0	3.74	3.34
Copper (Cu):	562.44	34.90	31.14
Lead (Pb):	10.88	0.68	0.60
Mercury (Hg):	0.54	0.03	0.03
Molybdenum (Mo):	15.80	0.98	0.87
Nickel (Ni):	28.83	1.79	1.60
Selenium (Se):	6.25	0.39	0.35
Zinc (Zn):	918.92	57.03	50.88
Organic Nitrogen (OrgN):	48,142.29	2,987.59	2,665.46
Ammoniacal Nitrogen (NH3-N):	8,539.22	529.92	472.79
Nitrate Nitrogen (NO3-N):	0.00	0.00	0.00
Total Kjeldahl Nitrogen (TKN):	56,681.51	531.92	474.79

AG TECH, LLC

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City of San Diego January 2020 Haul Logs Page 1

Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
01/02/20	CSD	111938	M-76216	2410244	79580.0	29080.0	50500.0	25.25
01/02/20	CSD	111952	M-76227	2410244	79140.0	27660.0	51480.0	25.74
01/02/20	CSD	111955	M-76226	2410244	78800.0	27780.0	51020.0	25.51
01/02/20	CSD	111954	M-76225	2410244	78200.0	27200.0	51000.0	25.50
01/02/20	CSD	111953	M-76224	2410244	78400.0	29400.0	49000.0	24.50
01/02/20	CSD	111952	M-76223	2410244	77720.0	29680.0	48040.0	24.02
01/02/20	CSD	111951	M-76222	2410244	78580.0	28620.0	49960.0	24.98
01/02/20	CSD	111950	M-76221	2410244	77820.0	26720.0	51100.0	25.55
01/02/20	CSD	111947	M-76220	2410244	79220.0	27640.0	51580.0	25.79
01/02/20	CSD	111945	M-76219	2410244	80040.0	27180.0	52860.0	26.43
01/02/20	CSD	111944	M-76218	2410244	77620.0	30060.0	47560.0	23.78
01/02/20	CSD	111942	M-76217	2410244	76360.0	28520.0	47840.0	23.92
01/03/20	CSD	111976	M-76251	2410244	78340.0	27240.0	51100.0	25.55
01/03/20	CSD	111978	M-76252	2410244	77940.0	27240.0	50700.0	25.35
01/03/20	CSD	111979	M-76253	2410244	78140.0	27920.0	50220.0	25.11
01/03/20	CSD	111981	M-76254	2410244	78360.0	26840.0	51520.0	25.76
01/03/20	CSD	111982	M-76255	2410244	78600.0	27540.0	51060.0	25.53
01/03/20	CSD	111983	M-76256	2410244	78080.0	28440.0	49640.0	24.82
01/03/20	CSD	111975	M-76250	2410244	79580.0	30000.0	49580.0	24.79
01/03/20	CSD	111972	M-76249	2410244	78360.0	27080.0	51280.0	25.64
01/03/20	CSD	111958	M-76243	2410244	79240.0	26620.0	52620.0	26.31
01/03/20	CSD	111961	M-76244	2410244	78500.0	27700.0	50800.0	25.40
01/03/20	CSD	111965	M-76245	2410244	76840.0	28840.0	48000.0	24.00
01/03/20	CSD	111966	M-76246	2410244	78140.0	26740.0	51400.0	25.70
01/03/20	CSD	111967	M-76247	2410244	78620.0	30240.0	48380.0	24.19
01/03/20	CSD	111970	M-76248	2410244	77920.0	28760.0	49160.0	24.58
01/06/20	CSD	112007	M-76310	2410244	78100.0	27060.0	51040.0	25.52
01/06/20	CSD	112005	M-76309	2410244	77900.0	27440.0	50460.0	25.23
01/06/20	CSD	112002	M-76308	2410244	76040.0	29100.0	46940.0	23.47
01/06/20	CSD	112001	M-76307	2410244	78040.0	27720.0	50320.0	25.16
01/06/20	CSD	112000	M-76306	2410244	78020.0	27240.0	50780.0	25.39
01/06/20	CSD	111998	M-76305	2410244	78020.0	28660.0	49360.0	24.68
01/06/20	CSD	111997	M-76304	2410244	78720.0	28040.0	50680.0	25.34
01/06/20	CSD	111995	M-76303	2410244	79500.0	27620.0	51880.0	25.94
01/06/20	CSD	111994	M-76302	2410244	78740.0	30140.0	48600.0	24.30
01/06/20	CSD	111922	M-76301	2410244	78260.0	28860.0	49400.0	24.70
01/06/20	CSD	111988	M-76300	2410244	78520.0	28360.0	50160.0	25.08
01/06/20	CSD	111985	M-76299	2410244	77780.0	28400.0	49380.0	24.69
01/07/20	CSD	112024	M-76337	2410244	78100.0	29060.0	49040.0	24.52
01/07/20	CSD		M-76338	2410244	78660.0	27780.0	50880.0	25.44

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

City of San Diego January 2020 Haul Logs Page 2

Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
01/07/20	CSD	112029	M-76339	2410244	77140.0	28760.0	48380.0	24.19
01/07/20	CSD	112030	M-76340	2410244	78440.0	27260.0	51180.0	25.59
01/07/20	CSD	112032	M-76341	2410244	78280.0	26680.0	51600.0	25.80
01/07/20	CSD	112023	M-76336	2410244	79040.0	27460.0	51580.0	25.79
01/07/20	CSD	112020	M-76335	2410244	79780.0	28680.0	51100.0	25.55
01/07/20	CSD	112009	M-76330	2410244	78220.0	28380.0	49840.0	24.92
01/07/20	CSD	112012	M-76331	2410244	79620.0	27260.0	52360.0	26.18
01/07/20	CSD	112014	M-76332	2410244	78900.0	27680.0	51220.0	25.61
01/07/20	CSD	112015	M-76333	2410244	79780.0	30220.0	49560.0	24.78
01/07/20	CSD	112018	M-76334	2410244	77580.0	28080.0	49500.0	24.75
01/08/20	CSD	112041	M-76352	2410244	77400.0	27260.0	50140.0	25.07
01/08/20	CSD	112042	M-76353	2410244	78580.0	30220.0	48360.0	24.18
01/08/20	CSD	112043	M-76354	2410244	77940.0	27780.0	50160.0	25.08
01/08/20	CSD	112045	M-76355	2410244	78200.0	27700.0	50500.0	25.25
01/08/20	CSD	112048	M-76356	2410244	76440.0	29120.0	47320.0	23.66
01/08/20	CSD	112049	M-76357	2410244	77520.0	26720.0	50800.0	25.40
01/08/20	CSD	112050	M-76358	2410244	78820.0	29000.0	49820.0	24.91
01/08/20	CSD	112051	M-76359	2410244	78780.0	27620.0	51160.0	25.58
01/08/20	CSD	112053	M-76360	2410244	78760.0	27220.0	51540.0	25.77
01/08/20	CSD	112038	M-76351	2410244	78520.0	27480.0	51040.0	25.52
01/08/20	CSD	112034	M-76349	2410244	79120.0	28380.0	50740.0	25.37
01/09/20	CSD	112035	M-76350	2410244	78180.0	27120.0	51060.0	25.53
01/09/20	CSD	112054	M-76380	2410244	79120.0	28380.0	50740.0	25.37
01/09/20	CSD	112057	M-76381	2410244	78960.0	27540.0	51420.0	25.71
01/09/20	CSD	112058	M-76382	2410244	78320.0	27700.0	50620.0	25.31
01/09/20	CSD	112060	M-76383	2410244	78760.0	27120.0	51640.0	25.82
01/09/20	CSD	112061	M-76384	2410244	77820.0	26860.0	50960.0	25.48
01/09/20	CSD	112063	M-76385	2410244	78820.0	30200.0	48620.0	24.31
01/09/20	CSD	112065	M-76386	2410244	78680.0	27820.0	50860.0	25.43
01/09/20	CSD	112067	M-76387	2410244	78900.0	28840.0	50060.0	25.03
01/10/20	CSD	112082	M-76412	2410244	78440.0	28400.0	50040.0	25.02
01/10/20	CSD	112081	M-76411	2410244	79240.0	27540.0	51700.0	25.85
01/10/20	CSD	112079	M-76410	2410244	76660.0	27700.0	48960.0	24.48
01/10/20	CSD	112076	M-76409	2410244	77180.0	27320.0	49860.0	24.93
01/10/20	CSD	112075	M-76408	2410244	77320.0	26860.0	50460.0	25.23
01/10/20	CSD	112074	M-76407	2410244	78960.0	27840.0	51120.0	25.56
01/10/20	CSD	112072	M-76406	2410244	78380.0	30220.0	48160.0	24.08
01/10/20	CSD	112068	M-76405	2410244	78720.0	28360.0	50360.0	25.18
01/13/20	CSD	112099	M-76458	2410244	78280.0	30160.0	48120.0	24.06
01/13/20	CSD	112100	M-76459	2410244	77440.0	26900.0	50540.0	25.27

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

City of San Diego January 2020 Haul Logs Page 3

Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
01/13/20	CSD	112101	M-76460	2410244	77300.0	27740.0	49560.0	24.78
01/13/20	CSD	112103	M-76461	2410244	79180.0	27380.0	51800.0	25.90
01/13/20	CSD	112104	M-76462	2410244	77320.0	26860.0	50460.0	25.23
01/13/20	CSD	112098	M-76457	2410244	79080.0	27180.0	51900.0	25.95
01/13/20	CSD	112097	M-76456	2410244	78480.0	29020.0	49460.0	24.73
01/13/20	CSD	112083	M-76451	2410244	76000.0	27620.0	48380.0	24.19
01/13/20	CSD	112086	M-76452	2410244	78340.0	27840.0	50500.0	25.25
01/13/20	CSD	112087	M-76453	2410244	78160.0	27380.0	50780.0	25.39
01/13/20	CSD	112095	M-76454	2410244	76100.0	29180.0	46920.0	23.46
01/13/20	CSD	112096	M-76455	2410244	78020.0	28060.0	49960.0	24.98
01/14/20	CSD	11218	M-76894	2410244	78600.0	30080.0	48520.0	24.26
01/14/20	CSD	11222	M-76898	2410244	78900.0	27020.0	51880.0	25.94
01/14/20	CSD	11216	M-76897	2410244	76420.0	29140.0	47280.0	23.64
01/14/20	CSD	11220	M-76896	2410244	79120.0	27400.0	51720.0	25.86
01/14/20	CSD	11219	M-76895	2410244	79220.0	27000.0	52220.0	26.11
01/14/20	CSD	11217	M-76893	2410244	78500.0	28220.0	50280.0	25.14
01/14/20	CSD	11214	M-76892	2410244	79240.0	28840.0	50400.0	25.20
01/14/20	CSD	11213	M-76891	2410244	79280.0	27740.0	51540.0	25.77
01/14/20	CSD	11212	M-76890	2410244	78720.0	27360.0	51360.0	25.68
01/14/20	CSD	11211	M-768889	2410244	78520.0	27720.0	50800.0	25.40
01/14/20	CSD	11209	M-768888	2410244	78360.0	27280.0	51080.0	25.54
01/14/20	CSD	11223	M-76899	2410244	78740.0	26840.0	51900.0	25.95
01/15/20	CSD	112139	M-76507	2410244	75820.0	28980.0	46840.0	23.42
01/15/20	CSD	112137	M-76505	2410244	78540.0	30260.0	48280.0	24.14
01/15/20	CSD	112134	M-76504	2410244	79240.0	27840.0	51400.0	25.70
01/15/20	CSD	112140	M-76508	2410244	75380.0	28280.0	47100.0	23.55
01/15/20	CSD	112141	M-76509	2410244	78120.0	27300.0	50820.0	25.41
01/15/20	CSD	112142	M-76510	2410244	78780.0	27820.0	50960.0	25.48
01/15/20	CSD	112133	M-76503	2410244	78220.0	27160.0	51060.0	25.53
01/15/20	CSD	112132	M-76502	2410244	78660.0	27280.0	51380.0	25.69
01/15/20	CSD	112144	M-76511	2410244	78000.0	27760.0	50240.0	25.12
01/15/20	CSD	112145	M-76512	2410244	78440.0	26780.0	51660.0	25.83
01/15/20	CSD	112130	M-76501	2410244	78360.0	27320.0	51040.0	25.52
01/15/20	CSD	118138	M-76506	2410244	78020.0	29020.0	49000.0	24.50
01/16/20	CSD	112154	M-76536	2410244	78020.0	26780.0	51240.0	25.62
01/16/20	CSD	112148	M-76533	2410244	78600.0	27820.0	50780.0	25.39
01/16/20	CSD	112157	M-76538	2410244	78240.0	28240.0	50000.0	25.00
01/16/20	CSD	112156	M-76537	2410244	77400.0	26880.0	50520.0	25.26
01/16/20	CSD	112151	M-76534	2410244	75840.0	28060.0	47780.0	23.89
01/16/20	CSD	112153	M-76535	2410244	78340.0	27200.0	51140.0	25.57

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
01/17/20	CSD	112169	M-76560	2410244	77580.0	29040.0	48540.0	24.27
01/17/20	CSD	112173	M-76563	2410244	76920.0	27200.0	49720.0	24.86
01/17/20	CSD	112171	M-76562	2410244	78440.0	28420.0	50020.0	25.01
01/17/20	CSD	112170	M-76561	2410244	78260.0	27720.0	50540.0	25.27
01/17/20	CSD	112166	M-76559	2410244	78780.0	27220.0	51560.0	25.78
01/17/20	CSD	112165	M-76558	2410244	74740.0	28300.0	46440.0	23.22
01/17/20	CSD	112164	M-76557	2410244	78000.0	27180.0	50820.0	25.41
01/17/20	CSD	112163	M-76556	2410244	78780.0	27840.0	50940.0	25.47
01/21/20	CSD	112186	M-76620	2410244	78740.0	27840.0	50900.0	25.45
01/21/20	CSD	112181	M-76617	2410244	80080.0	27780.0	52300.0	26.15
01/21/20	CSD	112182	M-76618	2410244	78500.0	27280.0	51220.0	25.61
01/21/20	CSD	112183	M-76619	2410244	74720.0	28340.0	46380.0	23.19
01/21/20	CSD	112187	M-76621	2410244	76620.0	30180.0	46440.0	23.22
01/21/20	CSD	112190	M-76624	2410244	78780.0	27620.0	51160.0	25.58
01/21/20	CSD	112192	M-76626	2410244	78560.0	28960.0	49600.0	24.80
01/21/20	CSD	112189	M-76623	2410244	79520.0	27720.0	51800.0	25.90
01/21/20	CSD	112188	M-76622	2410244	78600.0	29060.0	49540.0	24.77
01/21/20	CSD	112191	M-76625	2410244	80860.0	28420.0	52440.0	26.22
01/22/20	CSD	112197	M-76646	2410244	78500.0	27960.0	50540.0	25.27
01/22/20	CSD	112199	M-76647	2410244	78440.0	27260.0	51180.0	25.59
01/22/20	CSD	112200	M-76648	2410244	78100.0	27920.0	50180.0	25.09
01/22/20	CSD	112194	M-76645	2410244	78360.0	28860.0	49500.0	24.75
01/22/20	CSD	112206	M-76650	2410244	78320.0	29040.0	49280.0	24.64
01/22/20	CSD	112208	M-76652	2410244	78620.0	27740.0	50880.0	25.44
01/22/20	CSD	112207	M-76651	2410244	77780.0	28860.0	48920.0	24.46
01/22/20	CSD	112213	M-76656	2410244	78460.0	27180.0	51280.0	25.64
01/22/20	CSD	112211	M-76655	2410244	75300.0	28480.0	46820.0	23.41
01/22/20	CSD	112210	M-76654	2410244	78560.0	27000.0	51560.0	25.78
01/22/20	CSD	112209	M-76653	2410244	78860.0	28000.0	50860.0	25.43
01/22/20	CSD	112204	M-76649	2410244	76560.0	28360.0	48200.0	24.10
01/23/20	CSD	112230	M-76685	2410244	78680.0	27160.0	51520.0	25.76
01/23/20	CSD	122216	M-76676	2410244	78080.0	27660.0	50420.0	25.21
01/23/20	CSD	112217	M-76677	2410244	78100.0	27920.0	50180.0	25.09
01/23/20	CSD	112220	M-76679	2410244	76080.0	28380.0	47700.0	23.85
01/23/20	CSD	112222	M-76680	2410244	78220.0	27660.0	50560.0	25.28
01/23/20	CSD	112225	M-76681	2410244	77640.0	29040.0	48600.0	24.30
01/23/20	CSD	112226	M-76682	2410244	76760.0	29120.0	47640.0	23.82
01/23/20	CSD	112227	M-76683	2410244	78340.0	27580.0	50760.0	25.38
01/23/20	CSD	112229	M-76684	2410244	75120.0	28560.0	46560.0	23.28
01/23/20	CSD	112218	M-76678	2410244	76400.0	30180.0	46220.0	23.11

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
01/24/20	CSD	112252	M-76717	2410244	78420.0	27680.0	50740.0	25.37
01/24/20	CSD	112247	M-76713	2410244	78840.0	27560.0	51280.0	25.64
01/24/20	CSD	112244	M-76711	2410244	78000.0	29820.0	48180.0	24.09
01/24/20	CSD	112248	M-76714	2410244	78120.0	28060.0	50060.0	25.03
01/24/20	CSD	112249	M-76715	2410244	77800.0	29100.0	48700.0	24.35
01/24/20	CSD	112251	M-76716	2410244	78260.0	26860.0	51400.0	25.70
01/24/20	CSD	112243	M-76710	2410244	77940.0	27540.0	50400.0	25.20
01/24/20	CSD	112240	M-76709	2410244	75620.0	30240.0	45380.0	22.69
01/24/20	CSD	112239	M-76708	2410244	75140.0	28320.0	46820.0	23.41
01/24/20	CSD	112238	M-76707	2410244	78780.0	28660.0	50120.0	25.06
01/24/20	CSD	112233	M-76706	2410244	78960.0	28200.0	50760.0	25.38
01/24/20	CSD	112231	M-76705	2410244	79140.0	27120.0	52020.0	26.01
01/24/20	CSD	112245	M-76712	2410244	79340.0	27820.0	51520.0	25.76
01/27/20	CSD	112270	M-76768	2410244	78480.0	27020.0	51460.0	25.73
01/27/20	CSD	112259	M-76761	2410244	78420.0	28160.0	50260.0	25.13
01/27/20	CSD	112271	M-76769	2410244	79260.0	27360.0	51900.0	25.95
01/27/20	CSD	112269	M-76767	2410244	79060.0	36400.0	42660.0	21.33
01/27/20	CSD	112266	M-76766	2410244	78340.0	27540.0	50800.0	25.40
01/27/20	CSD	112265	M-76765	2410244	77400.0	28400.0	49000.0	24.50
01/27/20	CSD	112264	M-76764	2410244	77500.0	29000.0	48500.0	24.25
01/27/20	CSD	112262	M-76763	2410244	76080.0	30120.0	45960.0	22.98
01/27/20	CSD	112261	M-76762	2410244	78000.0	27400.0	50600.0	25.30
01/27/20	CSD	112772	M-76770	2410244	78420.0	27160.0	51260.0	25.63
01/28/20	CSD	112274	M-76792	2410244	79540.0	27380.0	52160.0	26.08
01/28/20	CSD	112289	M-76802	2410244	78440.0	26940.0	51500.0	25.75
01/28/20	CSD	112288	M-76801	2410244	79340.0	27560.0	51780.0	25.89
01/28/20	CSD	112287	M-76800	2410244	78780.0	27660.0	51120.0	25.56
01/28/20	CSD	112286	M-76799	2410244	78880.0	29980.0	48900.0	24.45
01/28/20	CSD	112285	M-76798	2410244	78120.0	27560.0	50560.0	25.28
01/28/20	CSD	112282	M-76796	2410244	76900.0	30200.0	46700.0	23.35
01/28/20	CSD	112283	M-76797	2410244	78560.0	27740.0	50820.0	25.41
01/28/20	CSD	112281	M-76795	2410244	78700.0	27640.0	51060.0	25.53
01/28/20	CSD	112280	M-76794	2410244	76080.0	28360.0	47720.0	23.86
01/28/20	CSD	112275	M-76793	2410244	78140.0	29080.0	49060.0	24.53
01/29/20	CSD	11302	M-76828	2410244	78580.0	29720.0	48860.0	24.43
01/29/20	CSD	11229	M-76822	2410244	78500.0	27120.0	51380.0	25.69
01/29/20	CSD	11297	M-76825	2410244	78000.0	27680.0	50320.0	25.16
01/29/20	CSD	11296	M-76824	2410244	78800.0	27480.0	51320.0	25.66
01/29/20	CSD	11224	M-76823	2410244	78860.0	29040.0	49820.0	24.91
01/29/20	CSD	11299	M-76827	2410244	77760.0	27720.0	50040.0	25.02

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
01/29/20	CSD	11303	M-76829	2410244	78200.0	27700.0	50500.0	25.25
01/29/20	CSD	11304	M-76830	2410244	79280.0	27400.0	51880.0	25.94
01/29/20	CSD	11305	M-76831	2410244	77300.0	29020.0	48280.0	24.14
01/29/20	CSD	11298	M-76826	2410244	78540.0	27400.0	51140.0	25.57
01/30/20	CSD	11316	M-76855	2410244	78700.0	29040.0	49660.0	24.83
01/30/20	CSD	11236	M-76849	2410244	77680.0	28120.0	49560.0	24.78
01/30/20	CSD	11313	M-76853	2410244	77800.0	27760.0	50040.0	25.02
01/30/20	CSD	11309	M-76851	2410244	78440.0	27640.0	50800.0	25.40
01/30/20	CSD	11320	M-76859	2410244	78200.0	28920.0	49280.0	24.64
01/30/20	CSD	11319	M-76858	2410244	78360.0	27740.0	50620.0	25.31
01/30/20	CSD	11318	M-76857	2410244	78740.0	27720.0	51020.0	25.51
01/30/20	CSD	11317	M-76856	2410244	76100.0	28860.0	47240.0	23.62
01/30/20	CSD	11311	M-76852	2410244	76540.0	30420.0	46120.0	23.06
01/30/20	CSD	11315	M-76854	2410244	77860.0	29100.0	48760.0	24.38
01/30/20	CSD	11307	M-76850	2410244	78880.0	27320.0	51560.0	25.78
01/31/20	CSD	11324	M-76878	2410244	79180.0	27660.0	51520.0	25.76
01/31/20	CSD	11340	M-76887	2410244	77260.0	28420.0	48840.0	24.42
01/31/20	CSD	11322	M-76876	2410244	79300.0	27500.0	51800.0	25.90
01/31/20	CSD	11323	M-76877	2410244	79560.0	27620.0	51940.0	25.97
01/31/20	CSD	11328	M-76879	2410244	77020.0	30200.0	46820.0	23.41
01/31/20	CSD	11331	M-76880	2410244	77780.0	29940.0	47840.0	23.92
01/31/20	CSD	11332	M-76881	2410244	76580.0	28680.0	47900.0	23.95
01/31/20	CSD	11333	M-76882	2410244	76040.0	27580.0	48460.0	24.23
01/31/20	CSD	11334	M-76883	2410244	76960.0	27720.0	49240.0	24.62
01/31/20	CSD	11335	M-76884	2410244	77040.0	27680.0	49360.0	24.68
01/31/20	CSD	11336	M-76885	2410244	78880.0	29080.0	49800.0	24.90
01/31/20	CSD	11339	M-76886	2410244	78740.0	28240.0	50500.0	25.25

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Biosolids Report to

City of San Diego

For February 2020

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Summary for City of San Diego
February 2020

Field 2410244 received 64 loads totaling 1602.46 tons of Biosolids between 02/03/20 and 02/07/20

Field 2410242 received 194 loads totaling 4806.18 tons of Biosolids between 02/10/20 and 02/28/20

Composition analysis dated 01/09/20 was used to determine the makeup of the biosolids loaded between 02/03/20 and 02/06/20

Solids %: 29.2000
Composition PPM (mg/kg)
Arsenic (As): 4.0900
Cadmium (Cd): 27.0000
Chromium (Cr): 60.1000
Copper (Cu): 564.0000
Lead (Pb): 9.6000
Mercury (Hg): 0.5520
Molybdenum (Mo): 15.3000
Nickel (Ni): 26.4000
Selenium (Se): 6.4300
Zinc (Zn): 913.0000
Organic Nitrogen (OrgN): 49700.0000
Ammoniacal Nitrogen (NH3-N): 9100.0000
Nitrate Nitrogen (NO3-N): 0.0000

Composition analysis dated 02/06/20 was used between 02/06/20 and 02/28/20

Solids %: 29.6000
Composition PPM (mg/kg)
Arsenic (As): 2.9600
Cadmium (Cd): 0.8400
Chromium (Cr): 50.6000
Copper (Cu): 556.0000
Lead (Pb): 10.6000
Mercury (Hg): 0.6950
Molybdenum (Mo): 14.2000
Nickel (Ni): 22.1000
Selenium (Se): 6.0900
Zinc (Zn): 878.0000
Organic Nitrogen (OrgN): 48400.0000
Ammoniacal Nitrogen (NH3-N): 7850.0000
Nitrate Nitrogen (NO3-N): 0.0000

AG TECH, LLC
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Application Summary for Field 2410244
City of San Diego - February 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: AGTECH Pivot: J-5 Field: 2410244 Area: 60.00 Acres = 24.28 Hectares
Location: S2 SE4 T10S R24W SEC 24 GSRBM , Yuma, AZ
Latitude: N 32 32 30.5 Longitude: W 114 40 15.4

Application Method: Incorporation

Analysis Date(s): 01/09/20 02/06/20

Solids Percentage: 29.28%

Wet Biosolids Applied:	1602.46 Tons	1453.73 Metric Tons
Dry Biosolids Applied:	469.22 Tons	425.67 Metric Tons
Wet Application Rate:	26.71 Tons/Acre	59.87 Metric Tons/ha
Dry Application Rate:	7.82 Tons/Acre	17.53 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	3.86	0.07	0.06
Cadmium (Cd):	21.64	0.38	0.34
Chromium (Cr):	0	1.02	0.91
Copper (Cu):	562.36	9.86	8.80
Lead (Pb):	9.80	0.17	0.15
Mercury (Hg):	0.58	0.01	0.01
Molybdenum (Mo):	15.07	0.26	0.24
Nickel (Ni):	25.52	0.45	0.40
Selenium (Se):	6.36	0.11	0.10
Zinc (Zn):	905.83	15.88	14.17
Organic Nitrogen (OrgN):	49,433.79	866.61	773.17
Ammoniacal Nitrogen (NH3-N):	8,844.03	155.04	138.33
Nitrate Nitrogen (NO3-N):	0.00	0.00	0.00
Total Kjeldahl Nitrogen (TKN):	58,277.82	1021.65	911.5

AG TECH, LLC
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Application Summary for Field 2410242
City of San Diego - February 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: AGTECH Pivot: J-4 Field: 2410242 Area: 60.00 Acres = 24.28 Hectares
Location: S2 NE4 T10S R24W SEC 24 GSRBM , Yuma, AZ
Latitude: N 32 32 56.9 Longitude: W 114 40 15.4

Application Method: Incorporation

Analysis Date(s): 02/06/20

Solids Percentage: 29.6%

Wet Biosolids Applied:	4806.18 Tons	4360.09 Metric Tons
Dry Biosolids Applied:	1422.63 Tons	1290.59 Metric Tons
Wet Application Rate:	80.1 Tons/Acre	179.57 Metric Tons/ha
Dry Application Rate:	23.71 Tons/Acre	53.15 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	2.96	0.16	0.14
Cadmium (Cd):	0.84	0.04	0.04
Chromium (Cr):	0	2.69	2.40
Copper (Cu):	556.00	29.55	26.37
Lead (Pb):	10.60	0.56	0.50
Mercury (Hg):	0.70	0.04	0.03
Molybdenum (Mo):	14.20	0.75	0.67
Nickel (Ni):	22.10	1.17	1.05
Selenium (Se):	6.09	0.32	0.29
Zinc (Zn):	878.00	46.67	41.64
Organic Nitrogen (OrgN):	48,400.00	2,572.55	2,295.17
Ammoniacal Nitrogen (NH3-N):	7,850.00	417.24	372.25
Nitrate Nitrogen (NO3-N):	0.00	0.00	0.00
Total Kjeldahl Nitrogen (TKN):	56,250.00	419.24	374.25

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City of San Diego February 2020 Haul Logs Page 1

Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
02/03/20	CSD	112343	M-76924	2410244	79720.0	27480.0	52240.0	26.12
02/03/20	CSD	112360	M-76935	2410244	79020.0	26840.0	52180.0	26.09
02/03/20	CSD	112359	M-76934	2410244	78640.0	28780.0	49860.0	24.93
02/03/20	CSD	112358	M-76933	2410244	78800.0	27440.0	51360.0	25.68
02/03/20	CSD	112357	M-76932	2410244	78640.0	27720.0	50920.0	25.46
02/03/20	CSD	112354	M-76931	2410244	78420.0	29900.0	48520.0	24.26
02/03/20	CSD	112353	M-76930	2410244	78120.0	28720.0	49400.0	24.70
02/03/20	CSD	112351	M-76929	2410244	76880.0	30220.0	46660.0	23.33
02/03/20	CSD	112348	M-76928	2410244	77420.0	27220.0	50200.0	25.10
02/03/20	CSD	112347	M-76927	2410244	76860.0	28720.0	48140.0	24.07
02/03/20	CSD	112346	M-76926	2410244	78100.0	29040.0	49060.0	24.53
02/03/20	CSD	112344	M-76925	2410244	78780.0	27620.0	51160.0	25.58
02/04/20	CSD	112373	M-76962	2410244	79120.0	27780.0	51340.0	25.67
02/04/20	CSD	112375	M-76963	2410244	79320.0	28780.0	50540.0	25.27
02/04/20	CSD	112376	M-76964	2410244	78680.0	28960.0	49720.0	24.86
02/04/20	CSD	112377	M-76965	2410244	78980.0	27540.0	51440.0	25.72
02/04/20	CSD	112378	M-76966	2410244	78880.0	27260.0	51620.0	25.81
02/04/20	CSD	112372	M-76961	2410244	78620.0	29960.0	48660.0	24.33
02/04/20	CSD	112370	M-76960	2410244	78420.0	26960.0	51460.0	25.73
02/04/20	CSD	112369	M-76959	2410244	76160.0	30200.0	45960.0	22.98
02/04/20	CSD	112368	M-76958	2410244	79100.0	27640.0	51460.0	25.73
02/04/20	CSD	112367	M-76957	2410244	77340.0	28760.0	48580.0	24.29
02/04/20	CSD	112366	M-76956	2410244	79000.0	28900.0	50100.0	25.05
02/04/20	CSD	112363	M-76955	2410244	78800.0	27620.0	51180.0	25.59
02/04/20	CSD	112362	M-76954	2410244	78340.0	27500.0	50840.0	25.42
02/05/20	CSD	112397	M-76989	2410244	78020.0	26940.0	51080.0	25.54
02/05/20	CSD	112398	M-76990	2410244	78160.0	29140.0	49020.0	24.51
02/05/20	CSD	112399	M-76991	2410244	78520.0	27800.0	50720.0	25.36
02/05/20	CSD	112400	M-76992	2410244	78440.0	27580.0	50860.0	25.43
02/05/20	CSD	112401	M-76993	2410244	77200.0	27240.0	49960.0	24.98
02/05/20	CSD	112396	M-76988	2410244	78480.0	28820.0	49660.0	24.83
02/05/20	CSD	112391	M-76987	2410244	78140.0	29940.0	48200.0	24.10
02/05/20	CSD	112388	M-76986	2410244	77940.0	30220.0	47720.0	23.86
02/05/20	CSD	112385	M-76985	2410244	78300.0	28920.0	49380.0	24.69
02/05/20	CSD	112384	M-76984	2410244	77720.0	27620.0	50100.0	25.05
02/05/20	CSD	112383	M-76983	2410244	78240.0	27760.0	50480.0	25.24
02/05/20	CSD	112380	M-76982	2410244	77680.0	28920.0	48760.0	24.38
02/05/20	CSD	112380	M-76981	2410244	77200.0	27180.0	50020.0	25.01
02/06/20	CSD	112415	M-77024	2410244	79320.0	27760.0	51560.0	25.78
02/06/20	CSD	112417	M-77025	2410244	79360.0	27560.0	51800.0	25.90

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
02/06/20	CSD	112418	M-77026	2410244	79020.0	27060.0	51960.0	25.98
02/06/20	CSD	112419	M-77027	2410244	79200.0	27280.0	51920.0	25.96
02/06/20	CSD	112421	M-77028	2410244	79200.0	26920.0	52280.0	26.14
02/06/20	CSD	112414	M-77023	2410244	78960.0	28820.0	50140.0	25.07
02/06/20	CSD	112411	M-77022	2410244	76260.0	30300.0	45960.0	22.98
02/06/20	CSD	112409	M-77021	2410244	78640.0	27720.0	50920.0	25.46
02/06/20	CSD	112408	M-77020	2410244	79340.0	27660.0	51680.0	25.84
02/06/20	CSD	112407	M-77019	2410244	78660.0	28960.0	49700.0	24.85
02/06/20	CSD	112406	M-77018	2410244	76660.0	28840.0	47820.0	23.91
02/06/20	CSD	112404	M-77017	2410244	78760.0	27620.0	51140.0	25.57
02/06/20	CSD	112403	M-77016	2410244	79280.0	29020.0	50260.0	25.13
02/07/20	CSD	112437	M-77054	2410244	78640.0	28940.0	49700.0	24.85
02/07/20	CSD	112438	M-77055	2410244	79340.0	28820.0	50520.0	25.26
02/07/20	CSD	112439	M-77056	2410244	79860.0	27780.0	52080.0	26.04
02/07/20	CSD	112440	M-77057	2410244	78000.0	27280.0	50720.0	25.36
02/07/20	CSD	112441	M-77058	2410244	78140.0	28720.0	49420.0	24.71
02/07/20	CSD	112436	M-77053	2410244	78160.0	28660.0	49500.0	24.75
02/07/20	CSD	112435	M-77052	2410244	78980.0	27580.0	51400.0	25.70
02/07/20	CSD	112433	M-77051	2410244	78760.0	29080.0	49680.0	24.84
02/07/20	CSD	112430	M-77050	2410244	75880.0	30240.0	45640.0	22.82
02/07/20	CSD	112427	M-77049	2410244	78780.0	27740.0	51040.0	25.52
02/07/20	CSD	112426	M-77048	2410244	77140.0	28720.0	48420.0	24.21
02/07/20	CSD	112425	M-77047	2410244	78880.0	27600.0	51280.0	25.64
02/07/20	CSD	112424	M-77046	2410244	77440.0	27620.0	49820.0	24.91
02/10/20	CSD	112459	M-77109	2410242	78520.0	27580.0	50940.0	25.47
02/10/20	CSD	112461	M-77110	2410242	78060.0	28740.0	49320.0	24.66
02/10/20	CSD	112462	M-77111	2410242	79420.0	27140.0	52280.0	26.14
02/10/20	CSD	112463	M-77112	2410242	77700.0	27780.0	49920.0	24.96
02/10/20	CSD	112480	M-77113	2410242	78780.0	28200.0	50580.0	25.29
02/10/20	CSD	112846	M-77835	2410242	77620.0	28180.0	49440.0	24.72
02/10/20	CSD	112457	M-77108	2410242	78400.0	28920.0	49480.0	24.74
02/10/20	CSD	112456	M-77107	2410242	77700.0	28760.0	48940.0	24.47
02/10/20	CSD	112444	M-77101	2410242	78300.0	27720.0	50580.0	25.29
02/10/20	CSD	112445	M-77102	2410242	78520.0	28960.0	49560.0	24.78
02/10/20	CSD	112446	M-77103	2410242	77420.0	27340.0	50080.0	25.04
02/10/20	CSD	112452	M-77104	2410242	77360.0	30260.0	47100.0	23.55
02/10/20	CSD	112454	M-77105	2410242	76960.0	28940.0	48020.0	24.01
02/10/20	CSD	112455	M-77106	2410242	78020.0	29120.0	48900.0	24.45
02/11/20	CSD	112482	M-77145	2410242	78680.0	27580.0	51100.0	25.55
02/11/20	CSD	112481	M-77144	2410242	78380.0	27200.0	51180.0	25.59

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
02/11/20	CSD	112479	M-77143	2410242	78460.0	29080.0	49380.0	24.69
02/11/20	CSD	112478	M-77142	2410242	76280.0	28820.0	47460.0	23.73
02/11/20	CSD	112477	M-77141	2410242	78740.0	28920.0	49820.0	24.91
02/11/20	CSD	112476	M-77140	2410242	79140.0	28320.0	50820.0	25.41
02/11/20	CSD	112475	M-77139	2410242	79580.0	28240.0	51340.0	25.67
02/11/20	CSD	112473	M-77138	2410242	78680.0	28940.0	49740.0	24.87
02/11/20	CSD	112466	M-77132	2410242	78060.0	27700.0	50360.0	25.18
02/11/20	CSD	112467	M-77133	2410242	78600.0	29260.0	49340.0	24.67
02/11/20	CSD	112469	M-77134	2410242	77440.0	28900.0	48540.0	24.27
02/11/20	CSD	112470	M-77135	2410242	78160.0	27880.0	50280.0	25.14
02/11/20	CSD	112471	M-77136	2410242	76940.0	30340.0	46600.0	23.30
02/11/20	CSD	112472	M-77137	2410242	77200.0	27660.0	49540.0	24.77
02/12/20	CSD	112500	M-77171	2410242	78060.0	28880.0	49180.0	24.59
02/12/20	CSD	112501	M-77172	2410242	78220.0	28620.0	49600.0	24.80
02/12/20	CSD	112502	M-77173	2410242	76460.0	28400.0	48060.0	24.03
02/12/20	CSD	112503	M-77174	2410242	78240.0	27580.0	50660.0	25.33
02/12/20	CSD	112504	M-77175	2410242	78700.0	29480.0	49220.0	24.61
02/12/20	CSD	112505	M-77176	2410242	78240.0	28600.0	49640.0	24.82
02/12/20	CSD	112499	M-77170	2410242	78960.0	29060.0	49900.0	24.95
02/12/20	CSD	112498	M-77169	2410242	78740.0	34160.0	44580.0	22.29
02/12/20	CSD	112484	M-77162	2410242	78980.0	29060.0	49920.0	24.96
02/12/20	CSD	112485	M-77163	2410242	79660.0	27800.0	51860.0	25.93
02/12/20	CSD	112487	M-77164	2410242	77000.0	27340.0	49660.0	24.83
02/12/20	CSD	112488	M-77165	2410242	76860.0	30300.0	46560.0	23.28
02/12/20	CSD	112492	M-77166	2410242	78020.0	27880.0	50140.0	25.07
02/12/20	CSD	112494	M-77167	2410242	78060.0	27180.0	50880.0	25.44
02/12/20	CSD	112497	M-77168	2410242	77200.0	28820.0	48380.0	24.19
02/13/20	CSD	112522	M-77200	2410242	80140.0	29180.0	50960.0	25.48
02/13/20	CSD	112523	M-77201	2410242	79560.0	29060.0	50500.0	25.25
02/13/20	CSD	112524	M-77202	2410242	78220.0	28400.0	49820.0	24.91
02/13/20	CSD	112525	M-77203	2410242	78980.0	27200.0	51780.0	25.89
02/13/20	CSD	112526	M-77204	2410242	78640.0	28140.0	50500.0	25.25
02/13/20	CSD	112527	M-77205	2410242	78160.0	27180.0	50980.0	25.49
02/13/20	CSD	112521	M-77199	2410242	77140.0	28880.0	48260.0	24.13
02/13/20	CSD	112520	M-77198	2410242	77740.0	29280.0	48460.0	24.23
02/13/20	CSD	112507	M-77191	2410242	78560.0	27200.0	51360.0	25.68
02/13/20	CSD	112508	M-77192	2410242	79280.0	27700.0	51580.0	25.79
02/13/20	CSD	112509	M-77193	2410242	78800.0	29040.0	49760.0	24.88
02/13/20	CSD	112510	M-77194	2410242	77220.0	27240.0	49980.0	24.99
02/13/20	CSD	112511	M-77195	2410242	78380.0	27240.0	51140.0	25.57

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
02/13/20	CSD	112512	M-77196	2410242	78480.0	27520.0	50960.0	25.48
02/13/20	CSD	112513	M-77197	2410242	78580.0	29080.0	49500.0	24.75
02/14/20	CSD	112545	M-77232	2410242	65200.0	28460.0	36740.0	18.37
02/14/20	CSD	112544	M-77231	2410242	75860.0	27640.0	48220.0	24.11
02/14/20	CSD	112543	M-77230	2410242	75140.0	28740.0	46400.0	23.20
02/14/20	CSD	112542	M-77229	2410242	78520.0	28940.0	49580.0	24.79
02/14/20	CSD	112541	M-77228	2410242	77080.0	27740.0	49340.0	24.67
02/14/20	CSD	112539	M-77227	2410242	78720.0	29100.0	49620.0	24.81
02/14/20	CSD	112533	M-77226	2410242	76780.0	27320.0	49460.0	24.73
02/14/20	CSD	112532	M-77225	2410242	75560.0	30540.0	45020.0	22.51
02/14/20	CSD	112531	M-77224	2410242	79180.0	27300.0	51880.0	25.94
02/14/20	CSD	112530	M-77223	2410242	79000.0	26800.0	52200.0	26.10
02/14/20	CSD	112529	M-77222	2410242	79160.0	27760.0	51400.0	25.70
02/18/20	CSD	112551	M-77298	2410242	77980.0	28360.0	49620.0	24.81
02/18/20	CSD	112550	M-77297	2410242	79800.0	26760.0	53040.0	26.52
02/18/20	CSD	112568	M-77307	2410242	79640.0	29560.0	50080.0	25.04
02/18/20	CSD	112567	M-77306	2410242	78480.0	29460.0	49020.0	24.51
02/18/20	CSD	112549	M-77296	2410242	79020.0	27740.0	51280.0	25.64
02/18/20	CSD	112566	M-77305	2410242	79020.0	27700.0	51320.0	25.66
02/18/20	CSD	112552	M-77299	2410242	78680.0	27440.0	51240.0	25.62
02/18/20	CSD	112569	M-77308	2410242	78260.0	27400.0	50860.0	25.43
02/18/20	CSD	112558	M-77300	2410242	75760.0	30120.0	45640.0	22.82
02/18/20	CSD	112570	M-77309	2410242	79040.0	28340.0	50700.0	25.35
02/18/20	CSD	112571	M-77310	2410242	76220.0	28820.0	47400.0	23.70
02/18/20	CSD	112565	M-77304	2410242	77240.0	28600.0	48640.0	24.32
02/18/20	CSD	112564	M-77303	2410242	78620.0	27480.0	51140.0	25.57
02/18/20	CSD	112562	M-77302	2410242	76180.0	28880.0	47300.0	23.65
02/18/20	CSD	112547	M-77295	2410242	79240.0	27720.0	51520.0	25.76
02/18/20	CSD	112561	M-77301	2410242	77280.0	28720.0	48560.0	24.28
02/19/20	CSD	112583	M-77335	2410242	75140.0	29120.0	46020.0	23.01
02/19/20	CSD	112573	M-77327	2410242	78040.0	26880.0	51160.0	25.58
02/19/20	CSD	112574	M-77328	2410242	78500.0	27520.0	50980.0	25.49
02/19/20	CSD	112575	M-77329	2410242	79860.0	27560.0	52300.0	26.15
02/19/20	CSD	112576	M-77330	2410242	78020.0	29560.0	48460.0	24.23
02/19/20	CSD	112577	M-77331	2410242	75260.0	28400.0	46860.0	23.43
02/19/20	CSD	112578	M-77332	2410242	78480.0	30160.0	48320.0	24.16
02/19/20	CSD	112579	M-77333	2410242	75940.0	30220.0	45720.0	22.86
02/19/20	CSD	112582	M-77334	2410242	78000.0	27080.0	50920.0	25.46
02/19/20	CSD	112587	M-77339	2410242	78420.0	28680.0	49740.0	24.87
02/19/20	CSD	112588	M-77340	2410242	75700.0	27940.0	47760.0	23.88

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
02/19/20	CSD	112585	M-77337	2410242	77720.0	27760.0	49960.0	24.98
02/19/20	CSD	112584	M-77336	2410242	78840.0	27760.0	51080.0	25.54
02/19/20	CSD	112586	M-77338	2410242	78420.0	27440.0	50980.0	25.49
02/19/20	CSD	112591	M-77342	2410242	77960.0	28740.0	49220.0	24.61
02/19/20	CSD	112589	M-77341	2410242	75620.0	28580.0	47040.0	23.52
02/20/20	CSD	112594	M-77358	2410242	78000.0	27520.0	50480.0	25.24
02/20/20	CSD	112595	M-77359	2410242	78300.0	26880.0	51420.0	25.71
02/20/20	CSD	112610	M-77370	2410242	76960.0	28580.0	48380.0	24.19
02/20/20	CSD	112609	M-77369	2410242	79640.0	27680.0	51960.0	25.98
02/20/20	CSD	112608	M-77368	2410242	77420.0	28680.0	48740.0	24.37
02/20/20	CSD	112607	M-77367	2410242	78760.0	28860.0	49900.0	24.95
02/20/20	CSD	112613	M-77372	2410242	78060.0	29180.0	48880.0	24.44
02/20/20	CSD	112605	M-77366	2410242	76480.0	29060.0	47420.0	23.71
02/20/20	CSD	112603	M-77365	2410242	79480.0	27800.0	51680.0	25.84
02/20/20	CSD	112601	M-77364	2410242	78260.0	28640.0	49620.0	24.81
02/20/20	CSD	112599	M-77363	2410242	78960.0	27740.0	51220.0	25.61
02/20/20	CSD	112598	M-77362	2410242	78740.0	29780.0	48960.0	24.48
02/20/20	CSD	112597	M-77361	2410242	78140.0	30240.0	47900.0	23.95
02/20/20	CSD	112596	M-77360	2410242	78100.0	27520.0	50580.0	25.29
02/20/20	CSD	112612	M-77371	2410242	77140.0	27500.0	49640.0	24.82
02/20/20	CSD	112614	M-77373	2410242	78640.0	27000.0	51640.0	25.82
02/21/20	CSD	112619	M-77392	2410242	76400.0	27560.0	48840.0	24.42
02/21/20	CSD	112615	M-77389	2410242	79560.0	27740.0	51820.0	25.91
02/21/20	CSD	112617	M-77390	2410242	77720.0	27600.0	50120.0	25.06
02/21/20	CSD	112618	M-77391	2410242	78900.0	26800.0	52100.0	26.05
02/21/20	CSD	112620	M-77393	2410242	79040.0	29720.0	49320.0	24.66
02/21/20	CSD	112621	M-77394	2410242	77860.0	30280.0	47580.0	23.79
02/21/20	CSD	112624	M-77395	2410242	76460.0	29080.0	47380.0	23.69
02/21/20	CSD	112625	M-77396	2410242	77700.0	30600.0	47100.0	23.55
02/21/20	CSD	112626	M-77397	2410242	78920.0	27700.0	51220.0	25.61
02/21/20	CSD	112627	M-77398	2410242	79020.0	27740.0	51280.0	25.64
02/21/20	CSD	112630	M-77399	2410242	77740.0	28180.0	49560.0	24.78
02/21/20	CSD	112631	M-77400	2410242	75100.0	29220.0	45880.0	22.94
02/24/20	CSD	17649	M-77452	2410242	75940.0	28540.0	47400.0	23.70
02/24/20	CSD	17650	M-77453	2410242	78540.0	27740.0	50800.0	25.40
02/24/20	CSD	17652	M-77455	2410242	78180.0	28520.0	49660.0	24.83
02/24/20	CSD	17653	M-77456	2410242	77180.0	29820.0	47360.0	23.68
02/24/20	CSD	17654	M-77457	2410242	77780.0	29060.0	48720.0	24.36
02/24/20	CSD	17651	M-77454	2410242	79080.0	27660.0	51420.0	25.71
02/24/20	CSD	17655	M-77458	2410242	76260.0	27140.0	49120.0	24.56

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
02/24/20	CSD	17648	M-77451	2410242	78600.0	29080.0	49520.0	24.76
02/24/20	CSD	17641	M-77449	2410242	74800.0	26800.0	48000.0	24.00
02/24/20	CSD	17639	M-77448	2410242	77140.0	27280.0	49860.0	24.93
02/24/20	CSD	17638	M-77447	2410242	78680.0	29700.0	48980.0	24.49
02/24/20	CSD	17636	M-77446	2410242	77960.0	27640.0	50320.0	25.16
02/24/20	CSD	17635	M-77445	2410242	77320.0	26900.0	50420.0	25.21
02/24/20	CSD	12634	M-77444	2410242	79160.0	27360.0	51800.0	25.90
02/24/20	CSD	17642	M-77450	2410242	77660.0	28940.0	48720.0	24.36
02/24/20	CSD	17656	M-77459	2410242	77300.0	28500.0	48800.0	24.40
02/25/20	CSD	17670	M-77486	2410242	79660.0	26800.0	52860.0	26.43
02/25/20	CSD	17658	M-77477	2410242	79200.0	27440.0	51760.0	25.88
02/25/20	CSD	17661	M-77480	2410242	78440.0	29740.0	48700.0	24.35
02/25/20	CSD	17663	M-77482	2410242	76980.0	28860.0	48120.0	24.06
02/25/20	CSD	17660	M-77479	2410242	79740.0	26740.0	53000.0	26.50
02/25/20	CSD	17659	M-77478	2410242	78880.0	27640.0	51240.0	25.62
02/25/20	CSD	17664	M-77483	2410242	79080.0	29160.0	49920.0	24.96
02/25/20	CSD	17665	M-77484	2410242	76860.0	26800.0	50060.0	25.03
02/25/20	CSD	17669	M-77485	2410242	77080.0	28700.0	48380.0	24.19
02/25/20	CSD	17671	M-77487	2410242	79000.0	27640.0	51360.0	25.68
02/25/20	CSD	17662	M-77481	2410242	77320.0	29060.0	48260.0	24.13
02/25/20	CSD	17673	M-77489	2410242	78440.0	28520.0	49920.0	24.96
02/25/20	CSD	17672	M-77488	2410242	76840.0	29880.0	46960.0	23.48
02/25/20	CSD	17674	M-77490	2410242	79600.0	27480.0	52120.0	26.06
02/25/20	CSD	17675	M-77491	2410242	77180.0	28480.0	48700.0	24.35
02/25/20	CSD	17676	M-77492	2410242	79260.0	28360.0	50900.0	25.45
02/25/20	CSD	17678	M-77493	2410242	77960.0	27440.0	50520.0	25.26
02/26/20	CSD	17681	M-77511	2410242	78040.0	29560.0	48480.0	24.24
02/26/20	CSD	17679	M-77510	2410242	78660.0	26620.0	52040.0	26.02
02/26/20	CSD	17692	M-77517	2410242	75900.0	28540.0	47360.0	23.68
02/26/20	CSD	17700	M-77525	2410242	77840.0	27220.0	50620.0	25.31
02/26/20	CSD	17697	M-77522	2410242	76920.0	29160.0	47760.0	23.88
02/26/20	CSD	17696	M-77521	2410242	77520.0	27200.0	50320.0	25.16
02/26/20	CSD	17695	M-77520	2410242	77280.0	27620.0	49660.0	24.83
02/26/20	CSD	17694	M-77519	2410242	78060.0	26680.0	51380.0	25.69
02/26/20	CSD	17693	M-77518	2410242	77640.0	27680.0	49960.0	24.98
02/26/20	CSD	17691	M-77516	2410242	74560.0	28420.0	46140.0	23.07
02/26/20	CSD	17686	M-77515	2410242	76060.0	26900.0	49160.0	24.58
02/26/20	CSD	17684	M-77514	2410242	78240.0	29080.0	49160.0	24.58
02/26/20	CSD	17683	M-77513	2410242	79620.0	28720.0	50900.0	25.45
02/26/20	CSD	17698	M-77523	2410242	76920.0	29500.0	47420.0	23.71

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
02/26/20	CSD	17682	M-77512	2410242	78560.0	27560.0	51000.0	25.50
02/26/20	CSD	17699	M-77524	2410242	76560.0	28520.0	48040.0	24.02
02/27/20	CSD	17702	M-77540	2410242	77340.0	27320.0	50020.0	25.01
02/27/20	CSD	17711	M-77545	2410242	78380.0	28800.0	49580.0	24.79
02/27/20	CSD	17710	M-77544	2410242	78880.0	28660.0	50220.0	25.11
02/27/20	CSD	17708	M-77543	2410242	77940.0	29420.0	48520.0	24.26
02/27/20	CSD	17705	M-77542	2410242	76920.0	26620.0	50300.0	25.15
02/27/20	CSD	17703	M-77541	2410242	76280.0	26660.0	49620.0	24.81
02/28/20	CSD	112727	M-77575	2410242	76360.0	27680.0	48680.0	24.34
02/28/20	CSD	112726	M-77574	2410242	75860.0	28740.0	47120.0	23.56
02/28/20	CSD	112725	M-77573	2410242	77020.0	29840.0	47180.0	23.59
02/28/20	CSD	112724	M-77572	2410242	77860.0	27520.0	50340.0	25.17
02/28/20	CSD	112721	M-77571	2410242	78640.0	29040.0	49600.0	24.80
02/28/20	CSD	112720	M-77570	2410242	77740.0	28540.0	49200.0	24.60
02/28/20	CSD	112719	M-77569	2410242	77700.0	29780.0	47920.0	23.96
02/28/20	CSD	112718	M-77568	2410242	76140.0	26900.0	49240.0	24.62
02/28/20	CSD	112714	M-77566	2410242	79000.0	27720.0	51280.0	25.64
02/28/20	CSD	112717	M-77567	2410242	78560.0	26880.0	51680.0	25.84

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Biosolids Report to

City of San Diego

For March 2020

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Summary for City of San Diego
March 2020

Field 2410242 received 131 loads totaling 3250.37 tons of Biosolids between 03/02/20 and 03/12/20

Field 2310194 received 188 loads totaling 4685.04 tons of Biosolids between 03/07/20 and 03/30/20

Composition analysis dated 02/06/20 was used to determine the makeup of the biosolids loaded between 03/02/20 and 03/05/20

Solids %: 29.6000
Composition PPM (mg/kg)
Arsenic (As): 2.9600
Cadmium (Cd): 0.8400
Chromium (Cr): 50.6000
Copper (Cu): 556.0000
Lead (Pb): 10.6000
Mercury (Hg): 0.6950
Molybdenum (Mo): 14.2000
Nickel (Ni): 22.1000
Selenium (Se): 6.0900
Zinc (Zn): 878.0000
Organic Nitrogen (OrgN): 48400.0000
Ammoniacal Nitrogen (NH3-N): 7850.0000
Nitrate Nitrogen (NO3-N): 0.0000

Composition analysis dated 03/05/20 was used between 03/05/20 and 03/30/20

Solids %: 29.2000
Composition PPM (mg/kg)
Arsenic (As): 2.2300
Cadmium (Cd): 0.0000
Chromium (Cr): 54.1000
Copper (Cu): 589.0000
Lead (Pb): 12.7000
Mercury (Hg): 0.9210
Molybdenum (Mo): 15.2000
Nickel (Ni): 24.1000
Selenium (Se): 5.9900
Zinc (Zn): 1010.0000
Organic Nitrogen (OrgN): 60500.0000
Ammoniacal Nitrogen (NH3-N): 6550.0000
Nitrate Nitrogen (NO3-N): 0.0000

AG TECH, LLC
3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Application Summary for Field 2410242
City of San Diego - March 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: AGTECH Pivot: J-4 Field: 2410242 Area: 60.00 Acres = 24.28 Hectares
Location: S2 NE4 T10S R24W SEC 24 GSRBM , Yuma, AZ
Latitude: N 32 32 56.9 Longitude: W 114 40 15.4

Application Method: Incorporation

Analysis Date(s): 02/06/20 03/05/20

Solids Percentage: 29.37%

Wet Biosolids Applied:	3250.37 Tons	2948.69 Metric Tons
Dry Biosolids Applied:	954.67 Tons	866.06 Metric Tons
Wet Application Rate:	54.17 Tons/Acre	121.44 Metric Tons/ha
Dry Application Rate:	15.91 Tons/Acre	35.67 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	2.54	0.09	0.08
Cadmium (Cd):	0.36	0.01	0.01
Chromium (Cr):	0	1.88	1.67
Copper (Cu):	574.78	20.50	18.29
Lead (Pb):	11.79	0.42	0.38
Mercury (Hg):	0.82	0.03	0.03
Molybdenum (Mo):	14.77	0.53	0.47
Nickel (Ni):	23.24	0.83	0.74
Selenium (Se):	6.03	0.22	0.19
Zinc (Zn):	953.10	34.00	30.33
Organic Nitrogen (OrgN):	55,284.32	1,971.88	1,759.27
Ammoniacal Nitrogen (NH3-N):	7,110.36	253.61	226.27
Nitrate Nitrogen (NO3-N):	0.00	0.00	0.00
Total Kjeldahl Nitrogen (TKN):	62,394.68	254.61	227.27

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3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Application Summary for Field 2310194
City of San Diego - March 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: AGTECH Pivot: J-10 Field: 2310194 Area: 60.00 Acres = 24.28 Hectares
Location: S2 NE4 T10S R23W SEC 19 GSRBM , Yuma, AZ
Latitude: N 32 32 57.1 Longitude: W 114 39 13.4

Application Method: Incorporation

Analysis Date(s): 03/05/20

Solids Percentage: 29.2%

Wet Biosolids Applied:	4685.04 Tons	4250.2 Metric Tons
Dry Biosolids Applied:	1368.03 Tons	1241.06 Metric Tons
Wet Application Rate:	78.08 Tons/Acre	175.04 Metric Tons/ha
Dry Application Rate:	22.8 Tons/Acre	51.11 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	2.23	0.11	0.10
Cadmium (Cd):	0.00	0.00	0.00
Chromium (Cr):	0	2.77	2.47
Copper (Cu):	589.00	30.10	26.86
Lead (Pb):	12.70	0.65	0.58
Mercury (Hg):	0.92	0.05	0.04
Molybdenum (Mo):	15.20	0.78	0.69
Nickel (Ni):	24.10	1.23	1.10
Selenium (Se):	5.99	0.31	0.27
Zinc (Zn):	1,010.00	51.62	46.06
Organic Nitrogen (OrgN):	60,500.00	3,092.27	2,758.86
Ammoniacal Nitrogen (NH3-N):	6,550.00	334.78	298.69
Nitrate Nitrogen (NO3-N):	0.00	0.00	0.00
Total Kjeldahl Nitrogen (TKN):	67,050.00	337.78	300.69

AG TECH, LLC

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City of San Diego March 2020 Haul Logs Page 1

Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
03/02/20	CSD	112729	M-77630	2410242	78040.0	27680.0	50360.0	25.18
03/02/20	CSD	112754	M-77644	2410242	76960.0	27240.0	49720.0	24.86
03/02/20	CSD	112753	M-77643	2410242	77760.0	27020.0	50740.0	25.37
03/02/20	CSD	112752	M-77642	2410242	77740.0	27640.0	50100.0	25.05
03/02/20	CSD	112751	M-77641	2410242	77580.0	30060.0	47520.0	23.76
03/02/20	CSD	112749	M-77640	2410242	77680.0	29840.0	47840.0	23.92
03/02/20	CSD	112748	M-77639	2410242	77140.0	27540.0	49600.0	24.80
03/02/20	CSD	112745	M-77638	2410242	77640.0	29780.0	47860.0	23.93
03/02/20	CSD	112744	M-77637	2410242	78220.0	27700.0	50520.0	25.26
03/02/20	CSD	112731	M-77631	2410242	77420.0	26880.0	50540.0	25.27
03/02/20	CSD	112732	M-77632	2410242	77740.0	28940.0	48800.0	24.40
03/02/20	CSD	112734	M-77633	2410242	79480.0	26860.0	52620.0	26.31
03/02/20	CSD	112737	M-77634	2410242	77880.0	27920.0	49960.0	24.98
03/02/20	CSD	112739	M-77635	2410242	78080.0	28520.0	49560.0	24.78
03/02/20	CSD	112741	M-77636	2410242	77440.0	29040.0	48400.0	24.20
03/03/20	CSD	112767	M-77670	2410242	77200.0	27200.0	50000.0	25.00
03/03/20	CSD	112763	M-77671	2410242	76400.0	27680.0	48720.0	24.36
03/03/20	CSD	112769	M-77672	2410242	76660.0	26860.0	49800.0	24.90
03/03/20	CSD	112770	M-77673	2410242	78060.0	27000.0	51060.0	25.53
03/03/20	CSD	112777	M-77674	2410242	77520.0	27660.0	49860.0	24.93
03/03/20	CSD	112772	M-77675	2410242	78060.0	29840.0	48220.0	24.11
03/03/20	CSD	112775	M-77676	2410242	78320.0	28740.0	49580.0	24.79
03/03/20	CSD	112765	M-77669	2410242	76840.0	28540.0	48300.0	24.15
03/03/20	CSD	112763	M-77668	2410242	77200.0	26860.0	50340.0	25.17
03/03/20	CSD	112756	M-77661	2410242	79680.0	27360.0	52320.0	26.16
03/03/20	CSD	112757	M-77662	2410242	79800.0	27620.0	52180.0	26.09
03/03/20	CSD	112758	M-77663	2410242	77220.0	29820.0	47400.0	23.70
03/03/20	CSD	112759	M-77664	2410242	77240.0	27900.0	49340.0	24.67
03/03/20	CSD	112760	M-77665	2410242	75780.0	29000.0	46780.0	23.39
03/03/20	CSD	112761	M-77666	2410242	76600.0	26860.0	49740.0	24.87
03/03/20	CSD	112762	M-77667	2410242	76180.0	27540.0	48640.0	24.32
03/04/20	CSD	112794	M-77704	2410242	79760.0	28440.0	51320.0	25.66
03/04/20	CSD	112791	M-77703	2410242	77240.0	29840.0	47400.0	23.70
03/04/20	CSD	112790	M-77702	2410242	76780.0	27540.0	49240.0	24.62
03/04/20	CSD	112789	M-77701	2410242	78040.0	27040.0	51000.0	25.50
03/04/20	CSD	112788	M-77700	2410242	77200.0	27700.0	49500.0	24.75
03/04/20	CSD	112786	M-77699	2410242	76800.0	29860.0	46940.0	23.47
03/04/20	CSD	112785	M-77698	2410242	79380.0	27700.0	51680.0	25.84
03/04/20	CSD	112784	M-77697	2410242	80140.0	28540.0	51600.0	25.80
03/04/20	CSD	112782	M-77696	2410242	77500.0	27900.0	49600.0	24.80

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
03/04/20	CSD	112781	M-77695	2410242	76780.0	29760.0	47020.0	23.51
03/04/20	CSD	112780	M-77694	2410242	78460.0	26880.0	51580.0	25.79
03/04/20	CSD	112779	M-77693	2410242	77080.0	27720.0	49360.0	24.68
03/04/20	CSD	112777	M-77692	2410242	76800.0	26880.0	49920.0	24.96
03/05/20	CSD	112802	M-77729	2410242	77700.0	27700.0	50000.0	25.00
03/05/20	CSD	112803	M-77730	2410242	79020.0	27040.0	51980.0	25.99
03/05/20	CSD	112804	M-77731	2410242	77700.0	27720.0	49980.0	24.99
03/05/20	CSD	112805	M-77732	2410242	77740.0	29880.0	47860.0	23.93
03/05/20	CSD	112806	M-77733	2410242	77600.0	28460.0	49140.0	24.57
03/05/20	CSD	112801	M-77728	2410242	78180.0	28960.0	49220.0	24.61
03/05/20	CSD	112800	M-77727	2410242	78780.0	26920.0	51860.0	25.93
03/05/20	CSD	112799	M-77726	2410242	78080.0	29760.0	48320.0	24.16
03/05/20	CSD	112798	M-77725	2410242	77100.0	27900.0	49200.0	24.60
03/05/20	CSD	112797	M-77724	2410242	79220.0	26860.0	52360.0	26.18
03/05/20	CSD	112796	M-77723	2410242	78140.0	29860.0	48280.0	24.14
03/05/20	CSD	112795	M-77722	2410242	79240.0	29560.0	49680.0	24.84
03/06/20	CSD	112816	M-77758	2410242	77400.0	27040.0	50360.0	25.18
03/06/20	CSD	112818	M-77759	2410242	78120.0	27700.0	50420.0	25.21
03/06/20	CSD	112819	M-77760	2410242	77280.0	27880.0	49400.0	24.70
03/06/20	CSD	112820	M-77761	2410242	77260.0	29860.0	47400.0	23.70
03/06/20	CSD	112821	M-77762	2410242	75900.0	29860.0	46040.0	23.02
03/06/20	CSD	112822	M-77763	2410242	77100.0	28500.0	48600.0	24.30
03/06/20	CSD	112815	M-77757	2410242	77280.0	27220.0	50060.0	25.03
03/06/20	CSD	112814	M-77756	2410242	77220.0	27740.0	49480.0	24.74
03/06/20	CSD	112813	M-77755	2410242	78980.0	28640.0	50340.0	25.17
03/06/20	CSD	112812	M-77754	2410242	77700.0	27540.0	50160.0	25.08
03/06/20	CSD	112811	M-77753	2410242	76820.0	26900.0	49920.0	24.96
03/06/20	CSD	112810	M-77752	2410242	78860.0	28320.0	50540.0	25.27
03/06/20	CSD	112809	M-77751	2410242	78480.0	26860.0	51620.0	25.81
03/06/20	CSD	112808	M-77750	2410242	77740.0	27720.0	50020.0	25.01
03/07/20	CSD	112936	M-77992	2310194	78880.0	27860.0	51020.0	25.51
03/09/20	CSD	112844	M-77816	2410242	77520.0	27400.0	50120.0	25.06
03/09/20	CSD	112843	M-77815	2410242	76960.0	29820.0	47140.0	23.57
03/09/20	CSD	112842	M-77814	2410242	77480.0	27120.0	50360.0	25.18
03/09/20	CSD	112841	M-77813	2410242	78220.0	28440.0	49780.0	24.89
03/09/20	CSD	112840	M-77812	2410242	77920.0	29620.0	48300.0	24.15
03/09/20	CSD	112839	M-77811	2410242	76860.0	27560.0	49300.0	24.65
03/09/20	CSD	112837	M-77810	2410242	78040.0	28380.0	49660.0	24.83
03/09/20	CSD	112834	M-77809	2410242	77280.0	27480.0	49800.0	24.90
03/09/20	CSD	112833	M-77808	2410242	78220.0	28680.0	49540.0	24.77

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
03/09/20	CSD	112823	M-77801	2410242	78680.0	27700.0	50980.0	25.49
03/09/20	CSD	112824	M-77802	2410242	77400.0	26600.0	50800.0	25.40
03/09/20	CSD	112825	M-77803	2410242	77220.0	26880.0	50340.0	25.17
03/09/20	CSD	112826	M-77804	2410242	77980.0	29240.0	48740.0	24.37
03/09/20	CSD	112830	M-77805	2410242	77700.0	28660.0	49040.0	24.52
03/09/20	CSD	112831	M-77806	2410242	78340.0	28520.0	49820.0	24.91
03/09/20	CSD	112832	M-77807	2410242	77240.0	27460.0	49780.0	24.89
03/10/20	CSD	112856	M-77844	2410242	78520.0	27720.0	50800.0	25.40
03/10/20	CSD	112857	M-77845	2410242	79000.0	27580.0	51420.0	25.71
03/10/20	CSD	112859	M-77846	2410242	78800.0	27420.0	51380.0	25.69
03/10/20	CSD	112861	M-77847	2410242	78980.0	29760.0	49220.0	24.61
03/10/20	CSD	112862	M-77848	2410242	78760.0	27640.0	51120.0	25.56
03/10/20	CSD	112863	M-77849	2410242	77800.0	29860.0	47940.0	23.97
03/10/20	CSD	112855	M-77843	2410242	77580.0	28560.0	49020.0	24.51
03/10/20	CSD	112854	M-77842	2410242	79480.0	27000.0	52480.0	26.24
03/10/20	CSD	112847	M-77836	2410242	78400.0	29740.0	48660.0	24.33
03/10/20	CSD	112848	M-77837	2410242	79060.0	26640.0	52420.0	26.21
03/10/20	CSD	112849	M-77838	2410242	78460.0	27680.0	50780.0	25.39
03/10/20	CSD	112850	M-77839	2410242	79100.0	28300.0	50800.0	25.40
03/10/20	CSD	112851	M-77840	2410242	78280.0	28840.0	49440.0	24.72
03/10/20	CSD	112853	M-77841	2410242	78580.0	27820.0	50760.0	25.38
03/10/20	CSD	112845	M-77834	2410242	77840.0	26980.0	50860.0	25.43
03/11/20	CSD	112870	M-77871	2410242	78280.0	28820.0	49460.0	24.73
03/11/20	CSD	112869	M-77872	2410242	78360.0	27560.0	50800.0	25.40
03/11/20	CSD	112868	M-77873	2410242	78220.0	27680.0	50540.0	25.27
03/11/20	CSD	112867	M-77874	2410242	77940.0	30700.0	47240.0	23.62
03/11/20	CSD	112865	M-77876	2410242	78140.0	29120.0	49020.0	24.51
03/11/20	CSD	112864	M-77877	2410242	78260.0	28620.0	49640.0	24.82
03/11/20	CSD	112866	M-77875	2410242	78160.0	27280.0	50880.0	25.44
03/11/20	CSD	112871	M-77870	2410242	79420.0	29600.0	49820.0	24.91
03/11/20	CSD	112872	M-77869	2410242	78380.0	27780.0	50600.0	25.30
03/11/20	CSD	112880	M-77861	2410242	77680.0	27760.0	49920.0	24.96
03/11/20	CSD	112879	M-77862	2410242	78260.0	28500.0	49760.0	24.88
03/11/20	CSD	112878	M-77863	2410242	78860.0	29860.0	49000.0	24.50
03/11/20	CSD	112877	M-77864	2410242	78600.0	27440.0	51160.0	25.58
03/11/20	CSD	112876	M-77865	2410242	75440.0	30140.0	45300.0	22.65
03/11/20	CSD	112875	M-77866	2410242	76140.0	28600.0	47540.0	23.77
03/11/20	CSD	112874	M-77867	2410242	78260.0	27860.0	50400.0	25.20
03/11/20	CSD	112873	M-77868	2410242	76520.0	28140.0	48380.0	24.19
03/12/20	CSD	112892	M-77903	2410242	78200.0	28540.0	49660.0	24.83

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
03/12/20	CSD	112893	M-77904	2410242	78880.0	29040.0	49840.0	24.92
03/12/20	CSD	112894	M-77905	2410242	76860.0	28900.0	47960.0	23.98
03/12/20	CSD	112895	M-77906	2410242	72500.0	27360.0	45140.0	22.57
03/12/20	CSD	112899	M-77924	2310194	77120.0	29960.0	47160.0	23.58
03/12/20	CSD	112891	M-77902	2410242	76700.0	29980.0	46720.0	23.36
03/12/20	CSD	112896	M-77907	2410242	78300.0	29940.0	48360.0	24.18
03/12/20	CSD	112890	M-77901	2410242	79320.0	31360.0	47960.0	23.98
03/12/20	CSD	112888	M-77900	2410242	78080.0	27900.0	50180.0	25.09
03/12/20	CSD	112886	M-77899	2410242	78960.0	29840.0	49120.0	24.56
03/12/20	CSD	112885	M-77898	2410242	78540.0	26860.0	51680.0	25.84
03/12/20	CSD	112884	M-77897	2410242	78920.0	28240.0	50680.0	25.34
03/12/20	CSD	112881	M-77895	2410242	79060.0	28060.0	51000.0	25.50
03/12/20	CSD	112883	M-77896	2410242	76000.0	28440.0	47560.0	23.78
03/13/20	CSD	112905	M-77930	2310194	77280.0	28120.0	49160.0	24.58
03/13/20	CSD	112906	M-77931	2310194	77480.0	27460.0	50020.0	25.01
03/13/20	CSD	112907	M-77932	2310194	76780.0	28560.0	48220.0	24.11
03/13/20	CSD	112908	M-77933	2310194	77500.0	28180.0	49320.0	24.66
03/13/20	CSD	112904	M-77929	2310194	77060.0	29960.0	47100.0	23.55
03/13/20	CSD	112903	M-77928	2310194	77160.0	27020.0	50140.0	25.07
03/13/20	CSD	112902	M-77927	2310194	77560.0	27220.0	50340.0	25.17
03/13/20	CSD	112901	M-77926	2310194	78460.0	28660.0	49800.0	24.90
03/13/20	CSD	112900	M-77925	2310194	76900.0	26920.0	49980.0	24.99
03/13/20	CSD	112898	M-77923	2310194	76920.0	29800.0	47120.0	23.56
03/13/20	CSD	112897	M-77922	2310194	74900.0	28600.0	46300.0	23.15
03/16/20	CSD	112922	M-77962	2310194	78720.0	28020.0	50700.0	25.35
03/16/20	CSD	112923	M-77963	2310194	78180.0	29720.0	48460.0	24.23
03/16/20	CSD	112924	M-77964	2310194	77900.0	28160.0	49740.0	24.87
03/16/20	CSD	112925	M-77965	2310194	77100.0	29780.0	47320.0	23.66
03/16/20	CSD	112926	M-77966	2310194	77720.0	27000.0	50720.0	25.36
03/16/20	CSD	112927	M-77967	2310194	78960.0	28620.0	50340.0	25.17
03/16/20	CSD	112921	M-77961	2310194	78560.0	29980.0	48580.0	24.29
03/16/20	CSD	112920	M-77960	2310194	77280.0	27800.0	49480.0	24.74
03/16/20	CSD	112912	M-77955	2310194	79320.0	29540.0	49780.0	24.89
03/16/20	CSD	112910	M-77953	2310194	79260.0	26820.0	52440.0	26.22
03/16/20	CSD	112911	M-77954	2310194	77140.0	26760.0	50380.0	25.19
03/16/20	CSD	112913	M-77956	2310194	79180.0	27400.0	51780.0	25.89
03/16/20	CSD	112914	M-77957	2310194	78920.0	28780.0	50140.0	25.07
03/16/20	CSD	112917	M-77958	2310194	78180.0	27680.0	50500.0	25.25
03/16/20	CSD	112918	M-77959	2310194	79000.0	28040.0	50960.0	25.48
03/17/20	CSD	112940	M-77994	2310194	79100.0	27700.0	51400.0	25.70

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
03/17/20	CSD	112941	M-77995	2310194	78480.0	27540.0	50940.0	25.47
03/17/20	CSD	112942	M-77996	2310194	77280.0	27380.0	49900.0	24.95
03/17/20	CSD	112943	M-77997	2310194	78400.0	29860.0	48540.0	24.27
03/17/20	CSD	112944	M-77998	2310194	78640.0	28320.0	50320.0	25.16
03/17/20	CSD	112945	M-77999	2310194	78680.0	27180.0	51500.0	25.75
03/17/20	CSD	112996	M-78000	2310194	78920.0	28760.0	50160.0	25.08
03/17/20	CSD	112939	M-77993	2310194	79500.0	29920.0	49580.0	24.79
03/17/20	CSD	112935	M-77991	2310194	79420.0	28220.0	51200.0	25.60
03/17/20	CSD	112929	M-77985	2310194	79000.0	29000.0	50000.0	25.00
03/17/20	CSD	112930	M-77986	2310194	77140.0	26800.0	50340.0	25.17
03/17/20	CSD	112931	M-77987	2310194	78200.0	26860.0	51340.0	25.67
03/17/20	CSD	112932	M-77988	2310194	79500.0	29700.0	49800.0	24.90
03/17/20	CSD	112933	M-77989	2310194	78920.0	28220.0	50700.0	25.35
03/17/20	CSD	112934	M-77990	2310194	78520.0	28880.0	49640.0	24.82
03/18/20	CSD	112959	M-78026	2310194	78560.0	28200.0	50360.0	25.18
03/18/20	CSD	112960	M-78027	2310194	77040.0	27260.0	49780.0	24.89
03/18/20	CSD	112961	M-78028	2310194	77680.0	27560.0	50120.0	25.06
03/18/20	CSD	112962	M-78029	2310194	77920.0	28260.0	49660.0	24.83
03/18/20	CSD	112963	M-78030	2310194	78240.0	29880.0	48360.0	24.18
03/18/20	CSD	112964	M-78031	2310194	77220.0	28360.0	48860.0	24.43
03/18/20	CSD	112965	M-78032	2310194	79120.0	28820.0	50300.0	25.15
03/18/20	CSD	112958	M-78025	2310194	78700.0	27740.0	50960.0	25.48
03/18/20	CSD	112955	M-78024	2310194	78380.0	28220.0	50160.0	25.08
03/18/20	CSD	112948	M-78017	2310194	78300.0	28940.0	49360.0	24.68
03/18/20	CSD	112949	M-78018	2310194	78440.0	29660.0	48780.0	24.39
03/18/20	CSD	112950	M-78019	2310194	78100.0	27540.0	50560.0	25.28
03/18/20	CSD	112951	M-78020	2310194	77860.0	27600.0	50260.0	25.13
03/18/20	CSD	112952	M-78021	2310194	79040.0	28840.0	50200.0	25.10
03/18/20	CSD	112953	M-78022	2310194	79160.0	27820.0	51340.0	25.67
03/18/20	CSD	112954	M-78023	2310194	76780.0	26860.0	49920.0	24.96
03/19/20	CSD	112977	M-78059	2310194	78700.0	28180.0	50520.0	25.26
03/19/20	CSD	112978	M-78060	2310194	78700.0	28660.0	50040.0	25.02
03/19/20	CSD	112979	M-78061	2310194	78240.0	29600.0	48640.0	24.32
03/19/20	CSD	112980	M-78062	2310194	78120.0	28320.0	49800.0	24.90
03/19/20	CSD	112981	M-78063	2310194	76940.0	27380.0	49560.0	24.78
03/19/20	CSD	112982	M-78064	2310194	78400.0	27380.0	51020.0	25.51
03/19/20	CSD	112983	M-78065	2310194	78940.0	27520.0	51420.0	25.71
03/19/20	CSD	112976	M-78058	2310194	79360.0	27560.0	51800.0	25.90
03/19/20	CSD	112975	M-78057	2310194	78820.0	28240.0	50580.0	25.29
03/19/20	CSD	112966	M-78050	2310194	78580.0	30240.0	48340.0	24.17

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
03/19/20	CSD	112968	M-78051	2310194	76720.0	29080.0	47640.0	23.82
03/19/20	CSD	112969	M-78052	2310194	78780.0	28940.0	49840.0	24.92
03/19/20	CSD	112970	M-78053	2310194	78500.0	27700.0	50800.0	25.40
03/19/20	CSD	112971	M-78054	2310194	79080.0	27900.0	51180.0	25.59
03/19/20	CSD	112972	M-78055	2310194	77020.0	26900.0	50120.0	25.06
03/19/20	CSD	112974	M-78056	2310194	78820.0	28280.0	50540.0	25.27
03/20/20	CSD	112998	M-78094	2310194	79220.0	29200.0	50020.0	25.01
03/20/20	CSD	112999	M-78095	2310194	76960.0	27180.0	49780.0	24.89
03/20/20	CSD	113000	M-78096	2310194	77340.0	28300.0	49040.0	24.52
03/20/20	CSD	113001	M-78097	2310194	78140.0	27460.0	50680.0	25.34
03/20/20	CSD	113002	M-78098	2310194	79060.0	27280.0	51780.0	25.89
03/20/20	CSD	113003	M-78099	2310194	77420.0	29580.0	47840.0	23.92
03/20/20	CSD	113111	M-78335	2310194	79180.0	28380.0	50800.0	25.40
03/20/20	CSD	112997	M-78093	2310194	78180.0	28280.0	49900.0	24.95
03/20/20	CSD	112996	M-78092	2310194	78360.0	27520.0	50840.0	25.42
03/20/20	CSD	112994	M-78091	2310194	78480.0	28420.0	50060.0	25.03
03/20/20	CSD	112985	M-78084	2310194	78260.0	29700.0	48560.0	24.28
03/20/20	CSD	112987	M-78085	2310194	78900.0	28480.0	50420.0	25.21
03/20/20	CSD	112989	M-78086	2310194	79280.0	27580.0	51700.0	25.85
03/20/20	CSD	112990	M-78087	2310194	77080.0	28880.0	48200.0	24.10
03/20/20	CSD	112991	M-78088	2310194	76500.0	26840.0	49660.0	24.83
03/20/20	CSD	112992	M-78089	2310194	77900.0	27820.0	50080.0	25.04
03/20/20	CSD	112993	M-78090	2310194	78300.0	28340.0	49960.0	24.98
03/23/20	CSD	113017	M-78151	2310194	78960.0	27520.0	51440.0	25.72
03/23/20	CSD	113018	M-78152	2310194	78720.0	28240.0	50480.0	25.24
03/23/20	CSD	113019	M-78153	2310194	78420.0	26920.0	51500.0	25.75
03/23/20	CSD	113020	M-78154	2310194	78680.0	28120.0	50560.0	25.28
03/23/20	CSD	113021	M-78155	2310194	77320.0	28720.0	48600.0	24.30
03/23/20	CSD	113022	M-78156	2310194	78480.0	28300.0	50180.0	25.09
03/23/20	CSD	113023	M-78157	2310194	78620.0	27140.0	51480.0	25.74
03/23/20	CSD	113016	M-78150	2310194	77900.0	28160.0	49740.0	24.87
03/23/20	CSD	113015	M-78149	2310194	78720.0	27120.0	51600.0	25.80
03/23/20	CSD	113005	M-78141	2310194	78520.0	29520.0	49000.0	24.50
03/23/20	CSD	113006	M-78142	2310194	78920.0	29700.0	49220.0	24.61
03/23/20	CSD	113008	M-78143	2310194	78580.0	28420.0	50160.0	25.08
03/23/20	CSD	113009	M-78144	2310194	79200.0	27600.0	51600.0	25.80
03/23/20	CSD	113010	M-78145	2310194	76720.0	28660.0	48060.0	24.03
03/23/20	CSD	113011	M-78146	2310194	75700.0	26840.0	48860.0	24.43
03/23/20	CSD		M-78147	2310194	78420.0	27440.0	50980.0	25.49
03/23/20	CSD	113013	M-78148	2310194	78720.0	27760.0	50960.0	25.48

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03/24/20	CSD	113037	M-78187	2310194	78860.0	27160.0	51700.0	25.85
03/24/20	CSD	113038	M-78188	2310194	78940.0	29760.0	49180.0	24.59
03/24/20	CSD	113039	M-78189	2310194	78860.0	28280.0	50580.0	25.29
03/24/20	CSD	113040	M-78190	2310194	78720.0	27100.0	51620.0	25.81
03/24/20	CSD	113041	M-78191	2310194	78980.0	27420.0	51560.0	25.78
03/24/20	CSD	113042	M-78192	2310194	78900.0	29040.0	49860.0	24.93
03/24/20	CSD		M-78186	2310194	78400.0	27440.0	50960.0	25.48
03/24/20	CSD	113035	M-78185	2310194	77220.0	27120.0	50100.0	25.05
03/24/20	CSD	113034	M-78184	2310194	78360.0	28140.0	50220.0	25.11
03/24/20	CSD	113025	M-78177	2310194	79140.0	28440.0	50700.0	25.35
03/24/20	CSD	113026	M-78178	2310194	78520.0	29560.0	48960.0	24.48
03/24/20	CSD	113027	M-78179	2310194	78940.0	27800.0	51140.0	25.57
03/24/20	CSD	113028	M-78180	2310194	77760.0	26700.0	51060.0	25.53
03/24/20	CSD	113029	M-78181	2310194	79200.0	27540.0	51660.0	25.83
03/24/20	CSD	113030	M-78182	2310194	84100.0	30500.0	53600.0	26.80
03/24/20	CSD	113032	M-78183	2310194	78720.0	28120.0	50600.0	25.30
03/25/20	CSD	113054	M-78219	2310194	78480.0	27900.0	50580.0	25.29
03/25/20	CSD	113055	M-78220	2310194	79580.0	27340.0	52240.0	26.12
03/25/20	CSD	113056	M-78221	2310194	79560.0	29580.0	49980.0	24.99
03/25/20	CSD	113057	M-78222	2310194	76960.0	30580.0	46380.0	23.19
03/25/20	CSD	113058	M-78223	2310194	78660.0	27200.0	51460.0	25.73
03/25/20	CSD	113059	M-78224	2310194	78120.0	27600.0	50520.0	25.26
03/25/20	CSD	113053	M-78218	2310194	78800.0	27440.0	51360.0	25.68
03/25/20	CSD	113052	M-78217	2310194	78280.0	28160.0	50120.0	25.06
03/25/20	CSD	113043	M-78210	2310194	78400.0	27800.0	50600.0	25.30
03/25/20	CSD	113045	M-78211	2310194	78500.0	28420.0	50080.0	25.04
03/25/20	CSD	113045	M-78212	2310194	77340.0	26780.0	50560.0	25.28
03/25/20	CSD	113047	M-78213	2310194	79800.0	29640.0	50160.0	25.08
03/25/20	CSD	113048	M-78214	2310194	77900.0	27520.0	50380.0	25.19
03/25/20	CSD	113050	M-78215	2310194	77420.0	28360.0	49060.0	24.53
03/25/20	CSD	113051	M-78216	2310194	76480.0	27140.0	49340.0	24.67
03/26/20	CSD	113073	M-78255	2310194	76760.0	27280.0	49480.0	24.74
03/26/20	CSD	113074	M-78256	2310194	76960.0	27460.0	49500.0	24.75
03/26/20	CSD	113073	M-78257	2310194	77160.0	27460.0	49700.0	24.85
03/26/20	CSD	113076	M-78258	2310194	77760.0	28220.0	49540.0	24.77
03/26/20	CSD	113077	M-78259	2310194	69600.0	29720.0	39880.0	19.94
03/26/20	CSD	113078	M-78260	2310194	77000.0	27560.0	49440.0	24.72
03/26/20	CSD	113072	M-78254	2310194	76780.0	28460.0	48320.0	24.16
03/26/20	CSD	113071	M-78253	2310194	77800.0	28380.0	49420.0	24.71
03/26/20	CSD	113070	M-78252	2310194	77440.0	28180.0	49260.0	24.63

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

City of San Diego March 2020 Haul Logs Page 8

Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
03/26/20	CSD	113061	M-78245	2310194	78800.0	27380.0	51420.0	25.71
03/26/20	CSD	113061	M-78246	2310194	78980.0	27840.0	51140.0	25.57
03/26/20	CSD	113064	M-78247	2310194	77740.0	26880.0	50860.0	25.43
03/26/20	CSD	113066	M-78248	2310194	76820.0	26800.0	50020.0	25.01
03/26/20	CSD	113067	M-78249	2310194	77240.0	27500.0	49740.0	24.87
03/26/20	CSD	113068	M-78250	2310194	77160.0	29620.0	47540.0	23.77
03/26/20	CSD	113069	M-78251	2310194	78120.0	28140.0	49980.0	24.99
03/27/20	CSD		M-78287	2310194	77100.0	27460.0	49640.0	24.82
03/27/20	CSD	113094	M-78288	2310194	77080.0	27160.0	49920.0	24.96
03/27/20	CSD	113095	M-78289	2310194	77420.0	29820.0	47600.0	23.80
03/27/20	CSD	113096	M-78290	2310194	72240.0	29220.0	43020.0	21.51
03/27/20	CSD	113097	M-78291	2310194	75680.0	28220.0	47460.0	23.73
03/27/20	CSD	113098	M-78292	2310194	75320.0	28200.0	47120.0	23.56
03/27/20	CSD	113092	M-78286	2310194	77260.0	28380.0	48880.0	24.44
03/27/20	CSD	113090	M-78285	2310194	76920.0	27340.0	49580.0	24.79
03/27/20	CSD	113089	M-78284	2310194	78740.0	28200.0	50540.0	25.27
03/27/20	CSD	113081	M-76277	2310194	73400.0	28040.0	45360.0	22.68
03/27/20	CSD	113082	M-78278	2310194	77520.0	27680.0	49840.0	24.92
03/27/20	CSD	113083	M-78279	2310194	76920.0	27860.0	49060.0	24.53
03/27/20	CSD	113084	M-78280	2310194	76660.0	26940.0	49720.0	24.86
03/27/20	CSD	113085	M-78281	2310194	77100.0	27500.0	49600.0	24.80
03/27/20	CSD	113086	M-78282	2310194	76860.0	29840.0	47020.0	23.51
03/27/20	CSD	113087	M-78283	2310194	77340.0	26880.0	50460.0	25.23
03/30/20	CSD	113113	M-78337	2310194	78920.0	27220.0	51700.0	25.85
03/30/20	CSD	113114	M-78338	2310194	77400.0	27540.0	49860.0	24.93
03/30/20	CSD	113115	M-78339	2310194	77880.0	28220.0	49660.0	24.83
03/30/20	CSD	113116	M-78340	2310194	78240.0	29820.0	48420.0	24.21
03/30/20	CSD	113117	M-78341	2310194	78240.0	28760.0	49480.0	24.74
03/30/20	CSD	113118	M-78342	2310194	77240.0	27320.0	49920.0	24.96
03/30/20	CSD	113119	M-78343	2310194	77340.0	27560.0	49780.0	24.89
03/30/20	CSD	113112	M-78336	2310194	77460.0	28200.0	49260.0	24.63
03/30/20	CSD	113109	M-78334	2310194	78620.0	29660.0	48960.0	24.48
03/30/20	CSD	113108	M-78333	2310194	78440.0	28180.0	50260.0	25.13
03/30/20	CSD	113106	M-78332	2310194	77020.0	28500.0	48520.0	24.26
03/30/20	CSD	113105	M-78331	2310194	79580.0	26840.0	52740.0	26.37
03/30/20	CSD	113104	M-78330	2310194	78720.0	26880.0	51840.0	25.92
03/30/20	CSD	113102	M-78329	2310194	77620.0	27820.0	49800.0	24.90
03/30/20	CSD	113100	M-78328	2310194	77260.0	27820.0	49440.0	24.72
03/30/20	CSD	113120	M-78344	2310194	75960.0	28820.0	47140.0	23.57

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Biosolids Report to

City of San Diego

For April 2020

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Summary for City of San Diego
April 2020

Field 2310193 received 373 loads totaling 9269.285 tons of Biosolids between 04/01/20 and 04/30/20

Composition analysis dated 03/05/20 was used to determine the makeup of the biosolids loaded between 04/01/20 and 04/08/20

Solids %: 29.2000
Composition PPM (mg/kg)
Arsenic (As): 2.2300
Cadmium (Cd): 0.0000
Chromium (Cr): 54.1000
Copper (Cu): 589.0000
Lead (Pb): 12.7000
Mercury (Hg): 0.9210
Molybdenum (Mo): 15.2000
Nickel (Ni): 24.1000
Selenium (Se): 5.9900
Zinc (Zn): 1010.0000
Organic Nitrogen (OrgN): 60500.0000
Ammoniacal Nitrogen (NH3-N): 6550.0000
Nitrate Nitrogen (NO3-N): 0.0000

Composition analysis dated 04/08/20 was used between 04/08/20 and 04/30/20

Solids %: 28.8000
Composition PPM (mg/kg)
Arsenic (As): 4.6100
Cadmium (Cd): 0.0000
Chromium (Cr): 52.4000
Copper (Cu): 550.0000
Lead (Pb): 11.2000
Mercury (Hg): 0.6030
Molybdenum (Mo): 14.6000
Nickel (Ni): 21.0000
Selenium (Se): 6.4600
Zinc (Zn): 880.0000
Organic Nitrogen (OrgN): 50400.0000
Ammoniacal Nitrogen (NH3-N): 6400.0000
Nitrate Nitrogen (NO3-N): 0.0000

AG TECH, LLC
3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Application Summary for Field 2310193
City of San Diego - April 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: AGTECH Pivot: J-10 Field: 2310193 Area: 60.00 Acres = 24.28 Hectares
Location: N2 NE4 T10S R23W SEC 19 GSRBM , Yuma, AZ
Latitude: N 32 32 57.1 Longitude: W 114 39 13.4

Application Method: Incorporation

Analysis Date(s): 03/05/20 04/08/20

Solids Percentage: 28.91%

Wet Biosolids Applied:	9269.29 Tons	8408.96 Metric Tons
Dry Biosolids Applied:	2680.12 Tons	2431.37 Metric Tons
Wet Application Rate:	154.49 Tons/Acre	346.32 Metric Tons/ha
Dry Application Rate:	44.67 Tons/Acre	100.13 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	3.93	0.39	0.35
Cadmium (Cd):	0.00	0.00	0.00
Chromium (Cr):	0	5.30	4.72
Copper (Cu):	561.22	56.20	50.14
Lead (Pb):	11.63	1.16	1.04
Mercury (Hg):	0.69	0.07	0.06
Molybdenum (Mo):	14.77	1.48	1.32
Nickel (Ni):	21.89	2.19	1.96
Selenium (Se):	6.32	0.63	0.57
Zinc (Zn):	917.41	91.86	81.96
Organic Nitrogen (OrgN):	53,306.81	5,337.81	4,762.28
Ammoniacal Nitrogen (NH3-N):	6,443.17	645.18	575.61
Nitrate Nitrogen (NO3-N):	0.00	0.00	0.00
Total Kjeldahl Nitrogen (TKN):	59,749.98	650.18	579.61

AG TECH, LLC

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City of San Diego April 2020 Haul Logs Page 1

Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
04/01/20	CSD	113122	M-78388	2310193	79600.0	27600.0	52000.0	26.00
04/01/20	CSD	113136	M-78400	2310193	78560.0	28300.0	50260.0	25.13
04/01/20	CSD	113137	M-78401	2310193	77660.0	27100.0	50560.0	25.28
04/01/20	CSD	113138	M-78402	2310193	76780.0	29760.0	47020.0	23.51
04/01/20	CSD	113139	M-78403	2310193	78320.0	27300.0	51020.0	25.51
04/01/20	CSD	113140	M-78404	2310193	81120.0	28680.0	52440.0	26.22
04/01/20	CSD	113141	M-78405	2310193	78620.0	27620.0	51000.0	25.50
04/01/20	CSD	113142	M-78406	2310193	78680.0	28220.0	50460.0	25.23
04/01/20	CSD	113143	M-78407	2310193	78560.0	28860.0	49700.0	24.85
04/01/20	CSD	113135	M-78399	2310193	75280.0	28600.0	46680.0	23.34
04/01/20	CSD	113133	M-78398	2310193	75120.0	29180.0	45940.0	22.97
04/01/20	CSD	113132	M-78397	2310193	76640.0	27340.0	49300.0	24.65
04/01/20	CSD	113123	M-78389	2310193	79880.0	27820.0	52060.0	26.03
04/01/20	CSD	113124	M-78390	2310193	78320.0	26800.0	51520.0	25.76
04/01/20	CSD	113125	M-78391	2310193	77420.0	27540.0	49880.0	24.94
04/01/20	CSD	113126	M-78392	2310193	78960.0	28700.0	50260.0	25.13
04/01/20	CSD	113127	M-78393	2310193	78200.0	28420.0	49780.0	24.89
04/01/20	CSD	113128	M-78394	2310193	78140.0	27520.0	50620.0	25.31
04/01/20	CSD	113129	M-78395	2310193	79360.0	28880.0	50480.0	25.24
04/01/20	CSD	113130	M-78396	2310193	78900.0	29680.0	49220.0	24.61
04/02/20	CSD	113159	M-78427	2310193	76020.0	29100.0	46920.0	23.46
04/02/20	CSD	113160	M-78428	2310193	78240.0	28320.0	49920.0	24.96
04/02/20	CSD	113161	M-78429	2310193	78760.0	27440.0	51320.0	25.66
04/02/20	CSD	113162	M-78430	2310193	76920.0	29800.0	47120.0	23.56
04/02/20	CSD	113163	M-78431	2310193	77220.0	28200.0	49020.0	24.51
04/02/20	CSD	113164	M-78432	2310193	78060.0	27560.0	50500.0	25.25
04/02/20	CSD	113165	M-78433	2310193	76700.0	28500.0	48200.0	24.10
04/02/20	CSD	113166	M-78434	2310193	78220.0	27260.0	50960.0	25.48
04/02/20	CSD	113167	M-78435	2310193	77020.0	33440.0	43580.0	21.79
04/02/20	CSD	113158	M-78426	2310193	77180.0	27240.0	49940.0	24.97
04/02/20	CSD	113156	M-78425	2310193	78760.0	29440.0	49320.0	24.66
04/02/20	CSD	113145	M-78416	2310193	79560.0	28740.0	50820.0	25.41
04/02/20	CSD	113147	M-78417	2310193	78820.0	27780.0	51040.0	25.52
04/02/20	CSD	113148	M-78418	2310193	78320.0	26820.0	51500.0	25.75
04/02/20	CSD	113148	M-78419	2310193	78640.0	27520.0	51120.0	25.56
04/02/20	CSD	113150	M-78420	2310193	78800.0	29000.0	49800.0	24.90
04/02/20	CSD	113151	M-78421	2310193	78800.0	29620.0	49180.0	24.59
04/02/20	CSD	113152	M-78422	2310193	79240.0	27760.0	51480.0	25.74
04/02/20	CSD	113153	M-78423	2310193	77100.0	27120.0	49980.0	24.99
04/02/20	CSD	113154	M-78424	2310193	78260.0	27360.0	50900.0	25.45

AG TECH, LLC

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City of San Diego April 2020 Haul Logs Page 2

Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
04/03/20	CSD	113181	M-78461	2310193	76800.0	29140.0	47660.0	23.83
04/03/20	CSD	113182	M-78462	2310193	76680.0	28580.0	48100.0	24.05
04/03/20	CSD	113183	M-78463	2310193	76400.0	27660.0	48740.0	24.37
04/03/20	CSD	113184	M-78464	2310193	75880.0	29160.0	46720.0	23.36
04/03/20	CSD	113185	M-78465	2310193	76020.0	27480.0	48540.0	24.27
04/03/20	CSD	113186	M-78466	2310193	74300.0	27220.0	47080.0	23.54
04/03/20	CSD	113187	M-78467	2310193	75960.0	27040.0	48920.0	24.46
04/03/20	CSD	113180	M-78460	2310193	76200.0	29780.0	46420.0	23.21
04/03/20	CSD	113178	M-78459	2310193	77140.0	29620.0	47520.0	23.76
04/03/20	CSD	13169	M-78452	2310193	77880.0	26920.0	50960.0	25.48
04/03/20	CSD	113171	M-78453	2310193	77300.0	29140.0	48160.0	24.08
04/03/20	CSD	113172	M-78454	2310193	78300.0	27120.0	51180.0	25.59
04/03/20	CSD	113173	M-78455	2310193	75540.0	28880.0	46660.0	23.33
04/03/20	CSD	113174	M-78456	2310193	76420.0	27520.0	48900.0	24.45
04/03/20	CSD	113176	M-78457	2310193	76660.0	27280.0	49380.0	24.69
04/03/20	CSD	113177	M-78458	2310193	77680.0	29020.0	48660.0	24.33
04/06/20	CSD	113194	M-78512	2310193	78820.0	28620.0	50200.0	25.10
04/06/20	CSD	113193	M-78513	2310193	78300.0	27260.0	51040.0	25.52
04/06/20	CSD	113192	M-78514	2310193	79120.0	27520.0	51600.0	25.80
04/06/20	CSD	113191	M-78515	2310193	79180.0	27560.0	51620.0	25.81
04/06/20	CSD	113190	M-78516	2310193	79080.0	29060.0	50020.0	25.01
04/06/20	CSD	113189	M-78517	2310193	77120.0	27320.0	49800.0	24.90
04/06/20	CSD	113188	M-78518	2310193	78680.0	27520.0	51160.0	25.58
04/06/20	CSD	113195	M-78511	2310193	78680.0	27440.0	51240.0	25.62
04/06/20	CSD	113196	M-78510	2310193	78280.0	29660.0	48620.0	24.31
04/06/20	CSD	113203	M-78503	2310193	76880.0	29900.0	46980.0	23.49
04/06/20	CSD	113202	M-78504	2310193	79600.0	26640.0	52960.0	26.48
04/06/20	CSD	113201	M-78505	2310193	78820.0	27000.0	51820.0	25.91
04/06/20	CSD	113200	M-78506	2310193	78880.0	27500.0	51380.0	25.69
04/06/20	CSD	113199	M-78507	2310193	79160.0	29200.0	49960.0	24.98
04/06/20	CSD	113198	M-78508	2310193	77220.0	28380.0	48840.0	24.42
04/06/20	CSD	113197	M-78509	2310193	78300.0	29100.0	49200.0	24.60
04/07/20	CSD	113214	M-78543	2310193	77100.0	28440.0	48660.0	24.33
04/07/20	CSD	113215	M-78544	2310193	78540.0	27520.0	51020.0	25.51
04/07/20	CSD		M-78545	2310193	78720.0	22640.0	56080.0	28.04
04/07/20	CSD	113217	M-78546	2310193	77900.0	27100.0	50800.0	25.40
04/07/20	CSD	113218	M-78547	2310193	78300.0	29840.0	48460.0	24.23
04/07/20	CSD	113219	M-78548	2310193	78660.0	27660.0	51000.0	25.50
04/07/20	CSD	113220	M-78549	2310193	76500.0	28500.0	48000.0	24.00
04/07/20	CSD	113213	M-78542	2310193	78880.0	29220.0	49660.0	24.83

AG TECH, LLC

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
04/07/20	CSD	113212	M-78541	2310193	77580.0	29120.0	48460.0	24.23
04/07/20	CSD	113211	M-78540	2310193	78860.0	29720.0	49140.0	24.57
04/07/20	CSD	113204	M-78533	2310193	77040.0	27300.0	49740.0	24.87
04/07/20	CSD	113205	M-78534	2310193	77960.0	27560.0	50400.0	25.20
04/07/20	CSD	113206	M-78535	2310193	79180.0	27260.0	51920.0	25.96
04/07/20	CSD	113207	M-78536	2310193	76940.0	27740.0	49200.0	24.60
04/07/20	CSD	113208	M-78537	2310193	79280.0	27080.0	52200.0	26.10
04/07/20	CSD		M-78538	2310193	78460.0	28840.0	49620.0	24.81
04/07/20	CSD	113210	M-78539	2310193	78700.0	27300.0	51400.0	25.70
04/08/20	CSD	113231	M-79098	2310193	76140.0	26740.0	49400.0	24.70
04/08/20	CSD	113232	M-79099	2310193	78160.0	27060.0	51100.0	25.55
04/08/20	CSD	113233	M-79100	2310193	76800.0	29780.0	47020.0	23.51
04/08/20	CSD	113234	M-79101	2310193	78540.0	27460.0	51080.0	25.54
04/08/20	CSD	113235	M-79102	2310193	78420.0	27080.0	51340.0	25.67
04/08/20	CSD	113236	M-79103	2310193	78840.0	27620.0	51220.0	25.61
04/08/20	CSD	113237	M-79104	2310193	78880.0	27960.0	50920.0	25.46
04/08/20	CSD	113230	M-79097	2310193	76500.0	28420.0	48080.0	24.04
04/08/20	CSD	113229	M-79096	2310193	78700.0	29180.0	49520.0	24.76
04/08/20	CSD	113228	M-79095	2310193	79700.0	29080.0	50620.0	25.31
04/08/20	CSD	113227	M-79094	2310193	77960.0	29680.0	48280.0	24.14
04/08/20	CSD	113226	M-79093	2310193	78200.0	27360.0	50840.0	25.42
04/08/20	CSD	113225	M-79092	2310193	78620.0	27540.0	51080.0	25.54
04/08/20	CSD	113224	M-79091	2310193	78220.0	27500.0	50720.0	25.36
04/08/20	CSD	113223	M-79090	2310193	78780.0	27280.0	51500.0	25.75
04/08/20	CSD	113222	M-79089	2310193	78540.0	27600.0	50940.0	25.47
04/08/20	CSD	113221	M-79088	2310193	78480.0	27560.0	50920.0	25.46
04/09/20	CSD	113249	M-78572	2310193	77300.0	27700.0	49600.0	24.80
04/09/20	CSD	113254	M-78577	2310193	76000.0	28700.0	47300.0	23.65
04/09/20	CSD	113239	M-78561	2310193	79860.0	27600.0	52260.0	26.13
04/09/20	CSD	113238	M-78562	2310193	77540.0	27600.0	49940.0	24.97
04/09/20	CSD		M-78563	2310193	77820.0	27060.0	50760.0	25.38
04/09/20	CSD	113241	M-78564	2310193	77680.0	27640.0	50040.0	25.02
04/09/20	CSD	113242	M-78565	2310193	77640.0	27360.0	50280.0	25.14
04/09/20	CSD	113243	M-78566	2310193	77280.0	28580.0	48700.0	24.35
04/09/20	CSD	113244	M-78567	2310193	78660.0	27920.0	50740.0	25.37
04/09/20	CSD	113246	M-78569	2310193	76340.0	28760.0	47580.0	23.79
04/09/20	CSD	113245	M-78568	2310193	77700.0	29680.0	48020.0	24.01
04/09/20	CSD	113247	M-78570	2310193	77200.0	29080.0	48120.0	24.06
04/09/20	CSD	113248	M-78571	2310193	77360.0	29260.0	48100.0	24.05
04/09/20	CSD	113250	M-78573	2310193	77840.0	28260.0	49580.0	24.79

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
04/09/20	CSD	113251	M-78574	2310193	76960.0	27220.0	49740.0	24.87
04/09/20	CSD	113252	M-78575	2310193	77120.0	29800.0	47320.0	23.66
04/09/20	CSD	113253	M-78576	2310193	78840.0	27480.0	51360.0	25.68
04/10/20	CSD	113263	M-78598	2310193	79000.0	28100.0	50900.0	25.45
04/10/20	CSD	113256	M-78590	2310193	79280.0	27700.0	51580.0	25.79
04/10/20	CSD	113271	M-78606	2310193	77000.0	28560.0	48440.0	24.22
04/10/20	CSD	113270	M-78605	2310193	77780.0	29060.0	48720.0	24.36
04/10/20	CSD	113269	M-78604	2310193	77360.0	28320.0	49040.0	24.52
04/10/20	CSD	113268	M-78603	2310193	77760.0	29700.0	48060.0	24.03
04/10/20	CSD	113267	M-78602	2310193	76940.0	27340.0	49600.0	24.80
04/10/20	CSD	113266	M-78601	2310193	77000.0	28340.0	48660.0	24.33
04/10/20	CSD	113205	M-78600	2310193	77800.0	27500.0	50300.0	25.15
04/10/20	CSD	113264	M-78599	2310193	77320.0	29200.0	48120.0	24.06
04/10/20	CSD	113262	M-78597	2310193	77060.0	29540.0	47520.0	23.76
04/10/20	CSD	113260	M-78595	2310193	79320.0	27800.0	51520.0	25.76
04/10/20	CSD	113261	M-78596	2310193	78300.0	28920.0	49380.0	24.69
04/10/20	CSD	113259	M-78594	2310193	75440.0	28940.0	46500.0	23.25
04/10/20	CSD	113258	M-78593	2310193	77900.0	27360.0	50540.0	25.27
04/10/20	CSD	113257	M-78592	2310193	77440.0	27480.0	49960.0	24.98
04/10/20	CSD	113255	M-78591	2310193	78400.0	27140.0	51260.0	25.63
04/13/20	CSD	113279	M-78647	2310193	78920.0	27980.0	50940.0	25.47
04/13/20	CSD		M-78654	2310193	78780.0	27620.0	51160.0	25.58
04/13/20	CSD	113284	M-78652	2310193	78820.0	26800.0	52020.0	26.01
04/13/20	CSD	113287	M-78655	2310193	78740.0	28900.0	49840.0	24.92
04/13/20	CSD	113283	M-78651	2310193	78560.0	27400.0	51160.0	25.58
04/13/20	CSD	113272	M-78640	2310193	77840.0	27460.0	50380.0	25.19
04/13/20	CSD	113282	M-78650	2310193	78720.0	28460.0	50260.0	25.13
04/13/20	CSD	113281	M-78649	2310193	78900.0	28300.0	50600.0	25.30
04/13/20	CSD	113280	M-78648	2310193	78840.0	27500.0	51340.0	25.67
04/13/20	CSD	113285	M-78653	2310193	78220.0	29700.0	48520.0	24.26
04/13/20	CSD	113278	M-78646	2310193	76900.0	29000.0	47900.0	23.95
04/13/20	CSD	113277	M-78645	2310193	79080.0	29460.0	49620.0	24.81
04/13/20	CSD	113276	M-78644	2310193	77860.0	27560.0	50300.0	25.15
04/13/20	CSD	113275	M-78643	2310193	77660.0	28560.0	49100.0	24.55
04/13/20	CSD	113274	M-78642	2310193	77000.0	27240.0	49760.0	24.88
04/13/20	CSD	113273	M-78641	2310193	77900.0	27480.0	50420.0	25.21
04/14/20	CSD	113297	M-78679	2310193	79180.0	27800.0	51380.0	25.69
04/14/20	CSD	113288	M-78670	2310193	77480.0	28440.0	49040.0	24.52
04/14/20	CSD	113290	M-78672	2310193	77740.0	27420.0	50320.0	25.16
04/14/20	CSD	113291	M-78673	2310193	76320.0	27170.0	49150.0	24.58

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
04/14/20	CSD	113292	M-78674	2310193	79400.0	27580.0	51820.0	25.91
04/14/20	CSD	113293	M-78675	2310193	76960.0	27760.0	49200.0	24.60
04/14/20	CSD	113294	M-78676	2310193	77920.0	29620.0	48300.0	24.15
04/14/20	CSD	113295	M-78677	2310193	77160.0	28820.0	48340.0	24.17
04/14/20	CSD	113296	M-78678	2310193	75200.0	28600.0	46600.0	23.30
04/14/20	CSD	113289	M-78671	2310193	78400.0	27520.0	50880.0	25.44
04/14/20	CSD		M-78680	2310193	78020.0	12460.0	65560.0	32.78
04/14/20	CSD	113299	M-78681	2310193	76620.0	26800.0	49820.0	24.91
04/14/20	CSD	113300	M-78682	2310193	78820.0	29100.0	49720.0	24.86
04/14/20	CSD	113301	M-78683	2310193	77740.0	29560.0	48180.0	24.09
04/14/20	CSD	113303	M-78685	2310193	78300.0	27760.0	50540.0	25.27
04/14/20	CSD		M-78684	2310193	76960.0	27540.0	49420.0	24.71
04/15/20	CSD	113317	M-78712	2310193	77560.0	29960.0	47600.0	23.80
04/15/20	CSD		M-78713	2310193	79300.0	27500.0	51800.0	25.90
04/15/20	CSD	113315	M-78710	2310193	76880.0	27500.0	49380.0	24.69
04/15/20	CSD	113314	M-78709	2310193	79520.0	28020.0	51500.0	25.75
04/15/20	CSD	113313	M-78708	2310193	77460.0	27940.0	49520.0	24.76
04/15/20	CSD	113312	M-78707	2310193	78340.0	28380.0	49960.0	24.98
04/15/20	CSD	113311	M-78706	2310193	78200.0	27400.0	50800.0	25.40
04/15/20	CSD		M-78705	2310193	77260.0	28480.0	48780.0	24.39
04/15/20	CSD	113319	M-78714	2310193	78040.0	27740.0	50300.0	25.15
04/15/20	CSD	113309	M-78704	2310193	77280.0	29640.0	47640.0	23.82
04/15/20	CSD	113308	M-78703	2310193	78020.0	29280.0	48740.0	24.37
04/15/20	CSD	113307	M-78702	2310193	78020.0	27500.0	50520.0	25.26
04/15/20	CSD	113306	M-78701	2310193	78600.0	27240.0	51360.0	25.68
04/15/20	CSD	113305	M-78700	2310193	77300.0	27500.0	49800.0	24.90
04/15/20	CSD	113304	M-78699	2310193	77660.0	27540.0	50120.0	25.06
04/15/20	CSD	113316	M-78711	2310193	77660.0	26780.0	50880.0	25.44
04/16/20	CSD	113327	M-79125	2310193	78460.0	27360.0	51100.0	25.55
04/16/20	CSD		M-79132	2310193	78820.0	27980.0	50840.0	25.42
04/16/20	CSD	113333	M-79131	2310193	78600.0	27740.0	50860.0	25.43
04/16/20	CSD	113332	M-79130	2310193	78200.0	26760.0	51440.0	25.72
04/16/20	CSD	113331	M-79129	2310193	79160.0	27340.0	51820.0	25.91
04/16/20	CSD	113330	M-79128	2310193	78020.0	27980.0	50040.0	25.02
04/16/20	CSD	113329	M-79127	2310193	77880.0	28760.0	49120.0	24.56
04/16/20	CSD		M-79133	2310193	79140.0	27740.0	51400.0	25.70
04/16/20	CSD	113326	M-79124	2310193	78820.0	27960.0	50860.0	25.43
04/16/20	CSD	113325	M-79123	2310193	78760.0	29280.0	49480.0	24.74
04/16/20	CSD	113324	M-79122	2310193	78880.0	28360.0	50520.0	25.26
04/16/20	CSD	113323	M-79121	2310193	77100.0	28500.0	48600.0	24.30

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
04/16/20	CSD	113322	M-79120	2310193	77340.0	29620.0	47720.0	23.86
04/16/20	CSD	113321	M-79119	2310193	52600.0	27500.0	25100.0	12.55
04/16/20	CSD	113320	M-79118	2310193	78240.0	27180.0	51060.0	25.53
04/16/20	CSD	113328	M-79126	2310193	77000.0	28520.0	48480.0	24.24
04/17/20	CSD		M-78740	2310193	79300.0	27980.0	51320.0	25.66
04/17/20	CSD	113337	M-78728	2310193	77800.0	27020.0	50780.0	25.39
04/17/20	CSD	113338	M-78729	2310193	78780.0	29600.0	49180.0	24.59
04/17/20	CSD	113339	M-78730	2310193	77740.0	27220.0	50520.0	25.26
04/17/20	CSD	113340	M-78731	2310193	77380.0	28360.0	49020.0	24.51
04/17/20	CSD	113342	M-78733	2310193	75780.0	28800.0	46980.0	23.49
04/17/20	CSD	113341	M-78732	2310193	76800.0	28500.0	48300.0	24.15
04/17/20	CSD	113351	M-78742	2310193	77740.0	27940.0	49800.0	24.90
04/17/20	CSD	113343	M-78734	2310193	78200.0	29940.0	48260.0	24.13
04/17/20	CSD	113345	M-78736	2310193	77780.0	27380.0	50400.0	25.20
04/17/20	CSD	113344	M-78735	2310193	77580.0	29280.0	48300.0	24.15
04/17/20	CSD	113350	M-78741	2310193	79260.0	27740.0	51520.0	25.76
04/17/20	CSD	113346	M-78737	2310193	77980.0	27300.0	50680.0	25.34
04/17/20	CSD	113347	M-78738	2310193	78180.0	26760.0	51420.0	25.71
04/17/20	CSD	113348	M-78739	2310193	78180.0	28000.0	50180.0	25.09
04/17/20	CSD	11336	M-78727	2310193	77980.0	27900.0	50080.0	25.04
04/20/20	CSD	113352	M-78781	2310193	77160.0	27160.0	50000.0	25.00
04/20/20	CSD		M-78795	2310193	77500.0	30880.0	46620.0	23.31
04/20/20	CSD	113365	M-78794	2310193	76060.0	28880.0	47180.0	23.59
04/20/20	CSD	113364	M-78793	2310193	77500.0	27660.0	49840.0	24.92
04/20/20	CSD	113361	M-78790	2310193	77600.0	28580.0	49020.0	24.51
04/20/20	CSD	113360	M-78789	2310193	77900.0	29280.0	48620.0	24.31
04/20/20	CSD	113359	M-78788	2310193	78280.0	29340.0	48940.0	24.47
04/20/20	CSD	113358	M-78787	2310193	78620.0	27260.0	51360.0	25.68
04/20/20	CSD	113356	M-78785	2310193	77040.0	28800.0	48240.0	24.12
04/20/20	CSD	113355	M-78784	2310193	76640.0	29640.0	47000.0	23.50
04/20/20	CSD	113354	M-78783	2310193	77200.0	27160.0	50040.0	25.02
04/20/20	CSD	113353	M-78782	2310193	76240.0	27700.0	48540.0	24.27
04/20/20	CSD	113357	M-78786	2310193	77340.0	27960.0	49380.0	24.69
04/20/20	CSD	113363	M-78792	2310193	76300.0	29740.0	46560.0	23.28
04/20/20	CSD	113362	M-78791	2310193	77820.0	28240.0	49580.0	24.79
04/21/20	CSD	113373	M-78820	2310193	78440.0	29280.0	49160.0	24.58
04/21/20	CSD	113375	M-78822	2310193	78820.0	27940.0	50880.0	25.44
04/21/20	CSD	113372	M-78819	2310193	77440.0	28320.0	49120.0	24.56
04/21/20	CSD	113371	M-78818	2310193	78520.0	28460.0	50060.0	25.03
04/21/20	CSD	113370	M-78817	2310193	78960.0	29460.0	49500.0	24.75

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04/21/20	CSD	113367	M-78814	2310193	78420.0	26720.0	51700.0	25.85
04/21/20	CSD	113368	M-78815	2310193	76940.0	27580.0	49360.0	24.68
04/21/20	CSD	113374	M-78821	2310193	75740.0	28460.0	47280.0	23.64
04/21/20	CSD	113376	M-78823	2310193	78320.0	28320.0	50000.0	25.00
04/21/20	CSD	113383	M-78830	2310193	78320.0	28460.0	49860.0	24.93
04/21/20	CSD	113382	M-78829	2310193	79020.0	27780.0	51240.0	25.62
04/21/20	CSD	113381	M-78828	2310193	78740.0	27180.0	51560.0	25.78
04/21/20	CSD	113380	M-78827	2310193	78640.0	27700.0	50940.0	25.47
04/21/20	CSD	113379	M-78826	2310193	78460.0	29200.0	49260.0	24.63
04/21/20	CSD	113378	M-78825	2310193	79120.0	28880.0	50240.0	25.12
04/21/20	CSD	113377	M-78824	2310193	78340.0	28320.0	50020.0	25.01
04/21/20	CSD	113369	M-78816	2310193	78700.0	26880.0	51820.0	25.91
04/22/20	CSD	113390	M-78852	2310193	79500.0	29180.0	50320.0	25.16
04/22/20	CSD	113384	M-78846	2310193	78540.0	26880.0	51660.0	25.83
04/22/20	CSD	113385	M-78847	2310193	78400.0	27620.0	50780.0	25.39
04/22/20	CSD	113398	M-78860	2310193	78000.0	26680.0	51320.0	25.66
04/22/20	CSD		M-78859	2310193	78080.0	28880.0	49200.0	24.60
04/22/20	CSD	113396	M-78858	2310193	77580.0	27640.0	49940.0	24.97
04/22/20	CSD	374500	M-78857	2310193	78340.0	29520.0	48820.0	24.41
04/22/20	CSD	113394	M-78856	2310193	76060.0	28000.0	48060.0	24.03
04/22/20	CSD	113393	M-78855	2310193	76440.0	30000.0	46440.0	23.22
04/22/20	CSD	113392	M-78854	2310193	75700.0	28500.0	47200.0	23.60
04/22/20	CSD	113391	M-78853	2310193	76620.0	27120.0	49500.0	24.75
04/22/20	CSD	113389	M-78851	2310193	80140.0	28420.0	51720.0	25.86
04/22/20	CSD	113388	M-78850	2310193	79200.0	29100.0	50100.0	25.05
04/22/20	CSD	113381	M-78849	2310193	78600.0	29620.0	48980.0	24.49
04/22/20	CSD	113386	M-78848	2310193	78420.0	27020.0	51400.0	25.70
04/23/20	CSD	113408	M-78884	2310193	72480.0	26760.0	45720.0	22.86
04/23/20	CSD	113409	M-78885	2310193	77500.0	29740.0	47760.0	23.88
04/23/20	CSD	113410	M-78886	2310193	75400.0	28020.0	47380.0	23.69
04/23/20	CSD	113411	M-78887	2310193	78140.0	28540.0	49600.0	24.80
04/23/20	CSD	113414	M-78890	2310193	77780.0	28000.0	49780.0	24.89
04/23/20	CSD	113412	M-78888	2310193	77740.0	28420.0	49320.0	24.66
04/23/20	CSD		M-78889	2310193	77580.0	28920.0	48660.0	24.33
04/23/20	CSD	113407	M-78883	2310193	76900.0	29280.0	47620.0	23.81
04/23/20	CSD	113406	M-78882	2310193	72400.0	28440.0	43960.0	21.98
04/23/20	CSD	113405	M-78881	2310193	78820.0	29240.0	49580.0	24.79
04/23/20	CSD	113404	M-78880	2310193	77100.0	29640.0	47460.0	23.73
04/23/20	CSD	113403	M-78879	2310193	72800.0	28300.0	44500.0	22.25
04/23/20	CSD	113404	M-78877	2310193	78240.0	27560.0	50680.0	25.34

AG TECH, LLC

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
04/23/20	CSD	113400	M-78876	2310193	78440.0	26820.0	51620.0	25.81
04/23/20	CSD	113399	M-78875	2310193	72940.0	27200.0	45740.0	22.87
04/23/20	CSD	113402	M-78878	2310193	76500.0	27020.0	49480.0	24.74
04/24/20	CSD	113415	M-78903	2310193	77860.0	27380.0	50480.0	25.24
04/24/20	CSD	113425	M-78913	2310193	78500.0	29760.0	48740.0	24.37
04/24/20	CSD	113429	M-78917	2310193	78060.0	28000.0	50060.0	25.03
04/24/20	CSD	113417	M-78905	2310193	75280.0	27540.0	47740.0	23.87
04/24/20	CSD	113428	M-78916	2310193	77820.0	27040.0	50780.0	25.39
04/24/20	CSD		M-78914	2310193	78620.0	28900.0	49720.0	24.86
04/24/20	CSD	113424	M-78912	2310193	78580.0	27960.0	50620.0	25.31
04/24/20	CSD	113423	M-78911	2310193	75860.0	27380.0	48480.0	24.24
04/24/20	CSD	113422	M-78910	2310193	78160.0	29280.0	48880.0	24.44
04/24/20	CSD	113430	M-78918	2310193	77700.0	28080.0	49620.0	24.81
04/24/20	CSD	113421	M-78909	2310193	76660.0	29520.0	47140.0	23.57
04/24/20	CSD	113426	M-78915	2310193	77480.0	29640.0	47840.0	23.92
04/24/20	CSD	113416	M-78904	2310193	78220.0	27640.0	50580.0	25.29
04/24/20	CSD	113420	M-78908	2310193	78160.0	29240.0	48920.0	24.46
04/24/20	CSD	113418	M-78906	2310193	77540.0	28360.0	49180.0	24.59
04/24/20	CSD	113419	M-78907	2310193	77020.0	27440.0	49580.0	24.79
04/27/20	CSD	113443	M-78967	2310193	78380.0	26840.0	51540.0	25.77
04/27/20	CSD	113433	M-78957	2310193	77560.0	26800.0	50760.0	25.38
04/27/20	CSD	113432	M-78956	2310193	77240.0	27640.0	49600.0	24.80
04/27/20	CSD	113431	M-78955	2310193	76360.0	27380.0	48980.0	24.49
04/27/20	CSD	113446	M-78970	2310193	77640.0	27720.0	49920.0	24.96
04/27/20	CSD		M-78969	2310193	77260.0	28460.0	48800.0	24.40
04/27/20	CSD	113444	M-78968	2310193	77500.0	27720.0	49780.0	24.89
04/27/20	CSD	113442	M-78966	2310193	77540.0	27060.0	50480.0	25.24
04/27/20	CSD	113441	M-78965	2310193	77160.0	29540.0	47620.0	23.81
04/27/20	CSD	113440	M-78964	2310193	78260.0	29220.0	49040.0	24.52
04/27/20	CSD	113439	M-78963	2310193	77800.0	27380.0	50420.0	25.21
04/27/20	CSD	113434	M-78958	2310193	76220.0	27720.0	48500.0	24.25
04/27/20	CSD	113435	M-78959	2310193	78760.0	27600.0	51160.0	25.58
04/27/20	CSD	113436	M-78960	2310193	77600.0	28100.0	49500.0	24.75
04/27/20	CSD	113437	M-78961	2310193	76500.0	28840.0	47660.0	23.83
04/27/20	CSD	113438	M-78962	2310193	77880.0	29080.0	48800.0	24.40
04/28/20	CSD	113458	M-78999	2310193	78800.0	27460.0	51340.0	25.67
04/28/20	CSD	113459	M-79000	2310193	77920.0	29700.0	48220.0	24.11
04/28/20	CSD	113460	M-79001	2310193	78960.0	28460.0	50500.0	25.25
04/28/20	CSD	113461	M-79002	2310193	78160.0	29180.0	48980.0	24.49
04/28/20	CSD	113462	M-79003	2310193	79280.0	27720.0	51560.0	25.78

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
04/28/20	CSD	113463	M-79004	2310193	77760.0	27960.0	49800.0	24.90
04/28/20	CSD		M-79005	2310193	77380.0	28700.0	48680.0	24.34
04/28/20	CSD	113465	M-79006	2310193	77640.0	26780.0	50860.0	25.43
04/28/20	CSD	44826	M-79007	2310193	77580.0	27120.0	50460.0	25.23
04/28/20	CSD	113457	M-78998	2310193	78040.0	28400.0	49640.0	24.82
04/28/20	CSD	113456	M-78997	2310193	78880.0	29520.0	49360.0	24.68
04/28/20	CSD	113447	M-78988	2310193	78060.0	28260.0	49800.0	24.90
04/28/20	CSD	113448	M-78989	2310193	76520.0	27400.0	49120.0	24.56
04/28/20	CSD		M-78990	2310193	77440.0	28580.0	48860.0	24.43
04/28/20	CSD	113450	M-78991	2310193	77940.0	26880.0	51060.0	25.53
04/28/20	CSD	113451	M-78992	2310193	77540.0	27600.0	49940.0	24.97
04/28/20	CSD	113452	M-78993	2310193	77040.0	27020.0	50020.0	25.01
04/28/20	CSD	113453	M-78994	2310193	76520.0	29200.0	47320.0	23.66
04/28/20	CSD	113454	M-78995	2310193	78980.0	28120.0	50860.0	25.43
04/28/20	CSD	113455	M-78996	2310193	78160.0	27300.0	50860.0	25.43
04/29/20	CSD	113477	M-79032	2310193	77860.0	27180.0	50680.0	25.34
04/29/20	CSD	113478	M-79033	2310193	77680.0	27160.0	50520.0	25.26
04/29/20	CSD	113479	M-79034	2310193	76660.0	29740.0	46920.0	23.46
04/29/20	CSD	113480	M-79035	2310193	77960.0	27900.0	50060.0	25.03
04/29/20	CSD		M-79036	2310193	78180.0	29920.0	48260.0	24.13
04/29/20	CSD	113482	M-79037	2310193	77600.0	27100.0	50500.0	25.25
04/29/20	CSD	113483	M-79038	2310193	77820.0	27420.0	50400.0	25.20
04/29/20	CSD	113484	M-79039	2310193	77960.0	28840.0	49120.0	24.56
04/29/20	CSD	113476	M-79031	2310193	78460.0	27700.0	50760.0	25.38
04/29/20	CSD	113475	M-79030	2310193	78040.0	29200.0	48840.0	24.42
04/29/20	CSD	113467	M-79022	2310193	78380.0	28340.0	50040.0	25.02
04/29/20	CSD	113468	M-79023	2310193	78240.0	27400.0	50840.0	25.42
04/29/20	CSD	113469	M-79024	2310193	78540.0	27720.0	50820.0	25.41
04/29/20	CSD	113470	M-79025	2310193	78180.0	26660.0	51520.0	25.76
04/29/20	CSD	113471	M-79026	2310193	78080.0	28300.0	49780.0	24.89
04/29/20	CSD	113472	M-79027	2310193	79260.0	27360.0	51900.0	25.95
04/29/20	CSD	113473	M-79028	2310193	79480.0	28480.0	51000.0	25.50
04/29/20	CSD	113474	M-79029	2310193	79980.0	29540.0	50440.0	25.22
04/30/20	CSD	113496	M-79066	2310193	77720.0	29780.0	47940.0	23.97
04/30/20	CSD	113497	M-79067	2310193	77500.0	28820.0	48680.0	24.34
04/30/20	CSD	113498	M-79068	2310193	78260.0	28580.0	49680.0	24.84
04/30/20	CSD	113499	M-79069	2310193	77500.0	28000.0	49500.0	24.75
04/30/20	CSD		M-79070	2310193	77680.0	28000.0	49680.0	24.84
04/30/20	CSD	113502	M-79071	2310193	78100.0	27600.0	50500.0	25.25
04/30/20	CSD	113501	M-79072	2310193	78140.0	27660.0	50480.0	25.24

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
04/30/20	CSD	113503	M-79073	2310193	78120.0	27420.0	50700.0	25.35
04/30/20	CSD	113495	M-79065	2310193	77820.0	12760.0	65060.0	32.53
04/30/20	CSD	113494	M-79064	2310193	78440.0	27240.0	51200.0	25.60
04/30/20	CSD	113493	M-79063	2310193	79740.0	27940.0	51800.0	25.90
04/30/20	CSD	113485	M-79055	2310193	77680.0	28380.0	49300.0	24.65
04/30/20	CSD	113486	M-79056	2310193	77860.0	27120.0	50740.0	25.37
04/30/20	CSD	113487	M-79057	2310193	76880.0	26960.0	49920.0	24.96
04/30/20	CSD	113488	M-79058	2310193	76560.0	27680.0	48880.0	24.44
04/30/20	CSD	113489	M-79059	2310193	78000.0	28280.0	49720.0	24.86
04/30/20	CSD	113490	M-79060	2310193	78320.0	27560.0	50760.0	25.38
04/30/20	CSD	113491	M-79061	2310193	77460.0	28540.0	48920.0	24.46
04/30/20	CSD	113492	M-79062	2310193	78200.0	29720.0	48480.0	24.24
04/30/20	CSD	113504	M-79074	2310193	78060.0	27420.0	50640.0	25.32

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3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Biosolids Report to

City of San Diego

For May 2020

AG TECH, LLC
3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Summary for City of San Diego
May 2020

Field 2310193 received 78 loads totaling 1950.19 tons of Biosolids between 05/01/20 and 05/06/20

Field 2311022 received 309 loads totaling 7727.545 tons of Biosolids between 05/07/20 and 05/30/20

Composition analysis dated 04/08/20 was used to determine the makeup of the biosolids loaded between 05/01/20 and 05/30/20

Solids %: 28.8000
Composition PPM (mg/kg)
Arsenic (As): 4.6100
Cadmium (Cd): 0.0000
Chromium (Cr): 52.4000
Copper (Cu): 550.0000
Lead (Pb): 11.2000
Mercury (Hg): 0.6030
Molybdenum (Mo): 14.6000
Nickel (Ni): 21.0000
Selenium (Se): 6.4600
Zinc (Zn): 880.0000
Organic Nitrogen (OrgN): 50400.0000
Ammoniacal Nitrogen (NH3-N): 6400.0000
Nitrate Nitrogen (NO3-N): 0.0000

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Application Summary for Field 2310193
City of San Diego - May 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: AGTECH Pivot: J-10 Field: 2310193 Area: 60.00 Acres = 24.28 Hectares
Location: N2 NE4 T10S R23W SEC 19 GSRBM , Yuma, AZ
Latitude: N 32 32 57.1 Longitude: W 114 39 13.4

Application Method: Incorporation

Analysis Date(s): 04/08/20

Solids Percentage: 28.8%

Wet Biosolids Applied:	1950.19 Tons	1769.18 Metric Tons
Dry Biosolids Applied:	561.65 Tons	509.52 Metric Tons
Wet Application Rate:	32.5 Tons/Acre	72.86 Metric Tons/ha
Dry Application Rate:	9.36 Tons/Acre	20.98 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	4.61	0.10	0.09
Cadmium (Cd):	0.00	0.00	0.00
Chromium (Cr):	0	1.10	0.98
Copper (Cu):	550.00	11.54	10.30
Lead (Pb):	11.20	0.24	0.21
Mercury (Hg):	0.60	0.01	0.01
Molybdenum (Mo):	14.60	0.31	0.27
Nickel (Ni):	21.00	0.44	0.39
Selenium (Se):	6.46	0.14	0.12
Zinc (Zn):	880.00	18.47	16.48
Organic Nitrogen (OrgN):	50,400.00	1,057.61	943.58
Ammoniacal Nitrogen (NH3-N):	6,400.00	134.30	119.82
Nitrate Nitrogen (NO3-N):	0.00	0.00	0.00
Total Kjeldahl Nitrogen (TKN):	56,800.00	135.3	1063.4

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Application Summary for Field 2311022
City of San Diego - May 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: Desert Ridge Farms Pivot: N Field: 2311022 Area: 60.00 Acres = 24.28 Hectares
Location: S2 NW4 T11S R23W SEC 02 GSRBM , Yuma , AZ
Latitude: N 32 30 19.7 Longitude: W 114 34 31.1

Application Method: Incorporation

Analysis Date(s): 04/08/20

Solids Percentage: 28.8%

Wet Biosolids Applied:	7727.55 Tons	7010.31 Metric Tons
Dry Biosolids Applied:	2225.53 Tons	2018.97 Metric Tons
Wet Application Rate:	128.79 Tons/Acre	288.71 Metric Tons/ha
Dry Application Rate:	37.09 Tons/Acre	83.15 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	4.61	0.38	0.34
Cadmium (Cd):	0.00	0.00	0.00
Chromium (Cr):	0	4.36	3.89
Copper (Cu):	550.00	45.73	40.80
Lead (Pb):	11.20	0.93	0.83
Mercury (Hg):	0.60	0.05	0.04
Molybdenum (Mo):	14.60	1.21	1.08
Nickel (Ni):	21.00	1.75	1.56
Selenium (Se):	6.46	0.54	0.48
Zinc (Zn):	880.00	73.17	65.28
Organic Nitrogen (OrgN):	50,400.00	4,190.74	3,738.89
Ammoniacal Nitrogen (NH3-N):	6,400.00	532.16	474.78
Nitrate Nitrogen (NO3-N):	0.00	0.00	0.00
Total Kjeldahl Nitrogen (TKN):	56,800.00	536.16	477.78

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
05/01/20	CSD	113505	M-79146	2310193	78380.0	28300.0	50080.0	25.04
05/01/20	CSD	113517	M-79158	2310193	78020.0	29740.0	48280.0	24.14
05/01/20	CSD	113518	M-79159	2310193	78520.0	29140.0	49380.0	24.69
05/01/20	CSD	113519	M-79160	2310193	79040.0	28340.0	50700.0	25.35
05/01/20	CSD	113520	M-79161	2310193	78160.0	28880.0	49280.0	24.64
05/01/20	CSD	113521	M-79162	2310193	78220.0	27980.0	50240.0	25.12
05/01/20	CSD	113522	M-79163	2310193	78440.0	28180.0	50260.0	25.13
05/01/20	CSD	113523	M-79164	2310193	78540.0	27420.0	51120.0	25.56
05/01/20	CSD	113524	M-79165	2310193	78160.0	27380.0	50780.0	25.39
05/01/20	CSD	113516	M-79157	2310193	77800.0	27220.0	50580.0	25.29
05/01/20	CSD	113515	M-79156	2310193	78420.0	29740.0	48680.0	24.34
05/01/20	CSD	113514	M-79155	2310193	79060.0	28820.0	50240.0	25.12
05/01/20	CSD	113506	M-79147	2310193	76060.0	27160.0	48900.0	24.45
05/01/20	CSD	113507	M-79148	2310193	77420.0	27580.0	49840.0	24.92
05/01/20	CSD	113508	M-79149	2310193	76020.0	28160.0	47860.0	23.93
05/01/20	CSD	113509	M-79150	2310193	78300.0	27280.0	51020.0	25.51
05/01/20	CSD	113510	M-79151	2310193	78540.0	27640.0	50900.0	25.45
05/01/20	CSD	113511	M-79152	2310193	77940.0	28540.0	49400.0	24.70
05/01/20	CSD	113512	M-79153	2310193	78780.0	29180.0	49600.0	24.80
05/01/20	CSD	113513	M-79154	2310193	77880.0	27980.0	49900.0	24.95
05/04/20	CSD	113538	M-79214	2310193	78220.0	29220.0	49000.0	24.50
05/04/20	CSD	113537	M-79215	2310193	78000.0	29200.0	48800.0	24.40
05/04/20	CSD	113538	M-79216	2310193	77920.0	28320.0	49600.0	24.80
05/04/20	CSD	113539	M-79217	2310193	78940.0	28260.0	50680.0	25.34
05/04/20	CSD	113540	M-79218	2310193	78420.0	29720.0	48700.0	24.35
05/04/20	CSD	113541	M-79219	2310193	78640.0	28700.0	49940.0	24.97
05/04/20	CSD	113542	M-79220	2310193	79180.0	27620.0	51560.0	25.78
05/04/20	CSD	113543	M-79221	2310193	76360.0	28980.0	47380.0	23.69
05/04/20	CSD	113535	M-79213	2310193	79060.0	26820.0	52240.0	26.12
05/04/20	CSD	113534	M-79212	2310193	77960.0	29680.0	48280.0	24.14
05/04/20	CSD	113533	M-79211	2310193	78440.0	27880.0	50560.0	25.28
05/04/20	CSD	113525	M-79203	2310193	78780.0	28280.0	50500.0	25.25
05/04/20	CSD	113526	M-79204	2310193	77920.0	27580.0	50340.0	25.17
05/04/20	CSD	113527	M-79205	2310193	79000.0	27460.0	51540.0	25.77
05/04/20	CSD	113528	M-79206	2310193	77100.0	27520.0	49580.0	24.79
05/04/20	CSD	113529	M-79207	2310193	77200.0	28200.0	49000.0	24.50
05/04/20	CSD	113530	M-79208	2310193	77820.0	27500.0	50320.0	25.16
05/04/20	CSD	113531	M-79209	2310193	77400.0	28800.0	48600.0	24.30
05/04/20	CSD	113532	M-79210	2310193	78140.0	28580.0	49560.0	24.78
05/05/20	CSD	113556	M-79249	2310193	77700.0	27440.0	50260.0	25.13

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
05/05/20	CSD	113557	M-79250	2310193	78600.0	27520.0	51080.0	25.54
05/05/20	CSD	113558	M-79251	2310193	78860.0	27760.0	51100.0	25.55
05/05/20	CSD	113559	M-79252	2310193	78720.0	29180.0	49540.0	24.77
05/05/20	CSD	113560	M-79253	2310193	78860.0	28340.0	50520.0	25.26
05/05/20	CSD	113561	M-79254	2310193	78180.0	29660.0	48520.0	24.26
05/05/20	CSD	113562	M-79255	2310193	78680.0	29280.0	49400.0	24.70
05/05/20	CSD	113563	M-79256	2310193	79300.0	28960.0	50340.0	25.17
05/05/20	CSD	113564	M-79257	2310193	79200.0	27860.0	51340.0	25.67
05/05/20	CSD	113555	M-79248	2310193	78740.0	26820.0	51920.0	25.96
05/05/20	CSD	113554	M-79247	2310193	78780.0	29700.0	49080.0	24.54
05/05/20	CSD	113545	M-79238	2310193	78520.0	27440.0	51080.0	25.54
05/05/20	CSD	113546	M-79239	2310193	78660.0	28800.0	49860.0	24.93
05/05/20	CSD	113547	M-79240	2310193	77380.0	27520.0	49860.0	24.93
05/05/20	CSD		M-79241	2310193	78680.0	29260.0	49420.0	24.71
05/05/20	CSD	113549	M-79242	2310193	78720.0	28220.0	50500.0	25.25
05/05/20	CSD	113550	M-79243	2310193	79180.0	28800.0	50380.0	25.19
05/05/20	CSD	113551	M-79244	2310193	78720.0	27940.0	50780.0	25.39
05/05/20	CSD	113552	M-79245	2310193	78880.0	28600.0	50280.0	25.14
05/05/20	CSD	113553	M-79246	2310193	78940.0	27540.0	51400.0	25.70
05/06/20	CSD	113575	M-79284	2310193	79340.0	26800.0	52540.0	26.27
05/06/20	CSD	929263	M-79285	2310193	78440.0	29260.0	49180.0	24.59
05/06/20	CSD	113577	M-79286	2310193	78040.0	28280.0	49760.0	24.88
05/06/20	CSD	113578	M-79287	2310193	77940.0	27760.0	50180.0	25.09
05/06/20	CSD	113579	M-79288	2310193	78040.0	29180.0	48860.0	24.43
05/06/20	CSD	113580	M-79289	2310193	78340.0	28840.0	49500.0	24.75
05/06/20	CSD	113581	M-79290	2310193	78400.0	29200.0	49200.0	24.60
05/06/20	CSD	113583	M-79291	2310193	78160.0	27260.0	50900.0	25.45
05/06/20	CSD	113574	M-79283	2310193	78100.0	27960.0	50140.0	25.07
05/06/20	CSD	113573	M-79282	2310193	79680.0	29680.0	50000.0	25.00
05/06/20	CSD	113572	M-79281	2310193	78320.0	29720.0	48600.0	24.30
05/06/20	CSD	113582	M-79273	2310193	78260.0	28580.0	49680.0	24.84
05/06/20	CSD	113565	M-79274	2310193	79120.0	27480.0	51640.0	25.82
05/06/20	CSD	113566	M-79275	2310193	77300.0	27580.0	49720.0	24.86
05/06/20	CSD	113587	M-79276	2310193	78580.0	28780.0	49800.0	24.90
05/06/20	CSD	113568	M-79277	2310193	78440.0	28820.0	49620.0	24.81
05/06/20	CSD	113569	M-79278	2310193	78480.0	28200.0	50280.0	25.14
05/06/20	CSD	113570	M-79279	2310193	78220.0	28540.0	49680.0	24.84
05/06/20	CSD	113571	M-79280	2310193	78780.0	27560.0	51220.0	25.61
05/07/20	CSD	113591	M-79920	2311022	78460.0	28620.0	49840.0	24.92
05/07/20	CSD	113590	M-79919	2311022	78020.0	28320.0	49700.0	24.85

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
05/07/20	CSD	113589	M-79918	2311022	78180.0	28580.0	49600.0	24.80
05/07/20	CSD	113588	M-79917	2311022	77960.0	27540.0	50420.0	25.21
05/07/20	CSD	113587	M-79916	2311022	77980.0	28220.0	49760.0	24.88
05/07/20	CSD	113586	M-79915	2311022	77960.0	29220.0	48740.0	24.37
05/07/20	CSD	113592	M-79921	2311022	78000.0	29740.0	48260.0	24.13
05/07/20	CSD	113593	M-79922	2311022	78220.0	27920.0	50300.0	25.15
05/07/20	CSD	113596	M-79924	2311022	78620.0	28520.0	50100.0	25.05
05/07/20	CSD	113595	M-79925	2311022	77580.0	29320.0	48260.0	24.13
05/07/20	CSD	113597	M-79926	2311022	77960.0	27760.0	50200.0	25.10
05/07/20	CSD	113593	M-79927	2311022	78180.0	29680.0	48500.0	24.25
05/07/20	CSD	113599	M-79928	2311022	78500.0	29240.0	49260.0	24.63
05/07/20	CSD	113600	M-79929	2311022	78620.0	28040.0	50580.0	25.29
05/07/20	CSD	113601	M-79930	2311022	78020.0	27080.0	50940.0	25.47
05/07/20	CSD	113565	M-79914	2311022	76860.0	27580.0	49280.0	24.64
05/07/20	CSD	113584	M-79913	2311022	78020.0	28660.0	49360.0	24.68
05/07/20	CSD	113594	M-79923	2311022	78360.0	26820.0	51540.0	25.77
05/08/20	CSD	113603	M-79306	2311022	76640.0	27580.0	49060.0	24.53
05/08/20	CSD	113604	M-79307	2311022	77900.0	27400.0	50500.0	25.25
05/08/20	CSD	112605	M-79308	2311022	77240.0	28400.0	48840.0	24.42
05/08/20	CSD	113602	M-79305	2311022	78880.0	26580.0	52300.0	26.15
05/08/20	CSD	113607	M-79310	2311022	78700.0	28620.0	50080.0	25.04
05/08/20	CSD	113608	M-79311	2311022	77300.0	29680.0	47620.0	23.81
05/08/20	CSD	113606	M-79309	2311022	78900.0	28840.0	50060.0	25.03
05/08/20	CSD	113609	M-79312	2311022	79520.0	27960.0	51560.0	25.78
05/08/20	CSD	113618	M-79321	2311022	77780.0	29220.0	48560.0	24.28
05/08/20	CSD	113611	M-79314	2311022	77480.0	29740.0	47740.0	23.87
05/08/20	CSD	113619	M-79322	2311022	79480.0	27780.0	51700.0	25.85
05/08/20	CSD	113620	M-79323	2311022	78320.0	27120.0	51200.0	25.60
05/08/20	CSD	113617	M-79320	2311022	76900.0	28060.0	48840.0	24.42
05/08/20	CSD	113616	M-79319	2311022	77500.0	29200.0	48300.0	24.15
05/08/20	CSD	113615	M-79318	2311022	77240.0	28760.0	48480.0	24.24
05/08/20	CSD	113614	M-79317	2311022	78660.0	28540.0	50120.0	25.06
05/08/20	CSD	113613	M-79316	2311022	78180.0	28360.0	49820.0	24.91
05/08/20	CSD	113612	M-79315	2311022	77160.0	28600.0	48560.0	24.28
05/08/20	CSD	113610	M-79313	2311022	77980.0	26820.0	51160.0	25.58
05/11/20	CSD	113631	M-79356	2311022	78240.0	29680.0	48560.0	24.28
05/11/20	CSD	113621	M-79346	2311022	78540.0	28600.0	49940.0	24.97
05/11/20	CSD	113622	M-79347	2311022	79780.0	26820.0	52960.0	26.48
05/11/20	CSD	113623	M-79348	2311022	77200.0	27420.0	49780.0	24.89
05/11/20	CSD	113624	M-79349	2311022	77640.0	27500.0	50140.0	25.07

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
05/11/20	CSD	113625	M-79350	2311022	77920.0	28820.0	49100.0	24.55
05/11/20	CSD	113626	M-79351	2311022	77740.0	28780.0	48960.0	24.48
05/11/20	CSD	113627	M-79352	2311022	78000.0	27460.0	50540.0	25.27
05/11/20	CSD	113628	M-79353	2311022	78380.0	28500.0	49880.0	24.94
05/11/20	CSD	113629	M-79354	2311022	77940.0	31760.0	46180.0	23.09
05/11/20	CSD	113637	M-79362	2311022	77620.0	27240.0	50380.0	25.19
05/11/20	CSD	113634	M-79361	2311022	77520.0	27880.0	49640.0	24.82
05/11/20	CSD	113636	M-79360	2311022	78240.0	29240.0	49000.0	24.50
05/11/20	CSD	113635	M-79359	2311022	78040.0	28620.0	49420.0	24.71
05/11/20	CSD	113633	M-79358	2311022	77980.0	27080.0	50900.0	25.45
05/11/20	CSD	113630	M-79355	2311022	79220.0	29640.0	49580.0	24.79
05/11/20	CSD	113632	M-79357	2311022	79740.0	26580.0	53160.0	26.58
05/12/20	CSD	113638	M-79377	2311022	78680.0	26780.0	51900.0	25.95
05/12/20	CSD	113646	M-79385	2311022	78540.0	27080.0	51460.0	25.73
05/12/20	CSD	113656	M-79395	2311022	78260.0	27220.0	51040.0	25.52
05/12/20	CSD	113654	M-79393	2311022	78640.0	29180.0	49460.0	24.73
05/12/20	CSD	113653	M-79392	2311022	79780.0	27060.0	52720.0	26.36
05/12/20	CSD	113652	M-79391	2311022	78620.0	29240.0	49380.0	24.69
05/12/20	CSD	113651	M-79390	2311022	78760.0	27040.0	51720.0	25.86
05/12/20	CSD	113650	M-79389	2311022	78520.0	27900.0	50620.0	25.31
05/12/20	CSD	113649	M-79388	2311022	78640.0	28540.0	50100.0	25.05
05/12/20	CSD	113648	M-79387	2311022	78320.0	26680.0	51640.0	25.82
05/12/20	CSD	113647	M-79386	2311022	78180.0	28600.0	49580.0	24.79
05/12/20	CSD	113645	M-79384	2311022	78900.0	26800.0	52100.0	26.05
05/12/20	CSD	113644	M-79383	2311022	78360.0	29680.0	48680.0	24.34
05/12/20	CSD	113643	M-79382	2311022	78480.0	28440.0	50040.0	25.02
05/12/20	CSD	113642	M-79381	2311022	77820.0	28760.0	49060.0	24.53
05/12/20	CSD	113641	M-79380	2311022	78540.0	27440.0	51100.0	25.55
05/12/20	CSD	113640	M-79379	2311022	78400.0	29640.0	48760.0	24.38
05/12/20	CSD	113639	M-79378	2311022	78960.0	28820.0	50140.0	25.07
05/12/20	CSD	113655	M-79394	2311022	78320.0	28620.0	49700.0	24.85
05/13/20	CSD	113667	M-79419	2311022	77280.0	26800.0	50480.0	25.24
05/13/20	CSD	113658	M-79410	2311022	79000.0	28760.0	50240.0	25.12
05/13/20	CSD	113675	M-79427	2311022	77840.0	27000.0	50840.0	25.42
05/13/20	CSD	113659	M-79411	2311022	78060.0	27120.0	50940.0	25.47
05/13/20	CSD	113660	M-79412	2311022	78140.0	27440.0	50700.0	25.35
05/13/20	CSD	173661	M-79413	2311022	78240.0	27200.0	51040.0	25.52
05/13/20	CSD	113662	M-79414	2311022	77960.0	29180.0	48780.0	24.39
05/13/20	CSD	113663	M-79415	2311022	78120.0	28460.0	49660.0	24.83
05/13/20	CSD	113664	M-79416	2311022	77600.0	28660.0	48940.0	24.47

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
05/13/20	CSD	113665	M-79417	2311022	77100.0	29640.0	47460.0	23.73
05/13/20	CSD	113666	M-79418	2311022	77060.0	28440.0	48620.0	24.31
05/13/20	CSD	113657	M-79409	2311022	78100.0	26800.0	51300.0	25.65
05/13/20	CSD	113668	M-79420	2311022	77860.0	26660.0	51200.0	25.60
05/13/20	CSD	113669	M-79421	2311022	78880.0	28540.0	50340.0	25.17
05/13/20	CSD	113670	M-79422	2311022	77780.0	29240.0	48540.0	24.27
05/13/20	CSD	113671	M-79423	2311022	78840.0	27120.0	51720.0	25.86
05/13/20	CSD	113672	M-79424	2311022	77740.0	27920.0	49820.0	24.91
05/13/20	CSD	113673	M-79425	2311022	79080.0	28140.0	50940.0	25.47
05/13/20	CSD	113674	M-79426	2311022	77960.0	28700.0	49260.0	24.63
05/14/20	CSD	113677	M-79443	2311022	78040.0	27400.0	50640.0	25.32
05/14/20	CSD	113691	M-79457	2311022	77880.0	26720.0	51160.0	25.58
05/14/20	CSD	113690	M-79456	2311022	78700.0	29220.0	49480.0	24.74
05/14/20	CSD	113688	M-79454	2311022	77740.0	26820.0	50920.0	25.46
05/14/20	CSD	113692	M-79458	2311022	78420.0	28060.0	50360.0	25.18
05/14/20	CSD	113687	M-79453	2311022	78040.0	29440.0	48600.0	24.30
05/14/20	CSD	113686	M-79452	2311022	78260.0	27940.0	50320.0	25.16
05/14/20	CSD	113685	M-79451	2311022	78280.0	29700.0	48580.0	24.29
05/14/20	CSD	M-79459	M-79459	2311022	78980.0	27500.0	51480.0	25.74
05/14/20	CSD	113684	M-79450	2311022	78600.0	27020.0	51580.0	25.79
05/14/20	CSD	113683	M-79449	2311022	77700.0	28740.0	48960.0	24.48
05/14/20	CSD	113676	M-79442	2311022	77960.0	26700.0	51260.0	25.63
05/14/20	CSD	113678	M-79444	2311022	79180.0	28780.0	50400.0	25.20
05/14/20	CSD	113679	M-79445	2311022	76780.0	27360.0	49420.0	24.71
05/14/20	CSD	113680	M-79446	2311022	78540.0	28580.0	49960.0	24.98
05/14/20	CSD	113681	M-79447	2311022	78000.0	27440.0	50560.0	25.28
05/14/20	CSD	113682	M-79448	2311022	78420.0	28660.0	49760.0	24.88
05/14/20	CSD	113694	M-79460	2311022	78280.0	27860.0	50420.0	25.21
05/14/20	CSD	113689	M-79455	2311022	78140.0	27780.0	50360.0	25.18
05/15/20	CSD	113305	M-79487	2311022	79080.0	26800.0	52280.0	26.14
05/15/20	CSD	113695	M-79477	2311022	78980.0	27460.0	51520.0	25.76
05/15/20	CSD	113696	M-79478	2311022	78040.0	26780.0	51260.0	25.63
05/15/20	CSD	113697	M-79479	2311022	76260.0	27300.0	48960.0	24.48
05/15/20	CSD	113698	M-79480	2311022	78440.0	29160.0	49280.0	24.64
05/15/20	CSD	113699	M-79481	2311022	77660.0	27040.0	50620.0	25.31
05/15/20	CSD	113700	M-79482	2311022	78080.0	27960.0	50120.0	25.06
05/15/20	CSD	113701	M-79483	2311022	79440.0	28560.0	50880.0	25.44
05/15/20	CSD	113703	M-79485	2311022	79300.0	26800.0	52500.0	26.25
05/15/20	CSD	113704	M-79486	2311022	78600.0	28640.0	49960.0	24.98
05/15/20	CSD	113706	M-79488	2311022	78480.0	27740.0	50740.0	25.37

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
05/15/20	CSD	113707	M-79489	2311022	78600.0	27600.0	51000.0	25.50
05/15/20	CSD	113708	M-79490	2311022	77940.0	25120.0	52820.0	26.41
05/15/20	CSD	113709	M-79491	2311022	78400.0	28400.0	50000.0	25.00
05/15/20	CSD	113702	M-79484	2311022	78300.0	28640.0	49660.0	24.83
05/18/20	CSD	113710	M-79535	2311022	78480.0	29320.0	49160.0	24.58
05/18/20	CSD	113725	M-79550	2311022	77880.0	28580.0	49300.0	24.65
05/18/20	CSD	113724	M-79549	2311022	78120.0	27020.0	51100.0	25.55
05/18/20	CSD	113723	M-79548	2311022	77740.0	27560.0	50180.0	25.09
05/18/20	CSD	113721	M-79546	2311022	77040.0	28600.0	48440.0	24.22
05/18/20	CSD	113719	M-79544	2311022	78400.0	28040.0	50360.0	25.18
05/18/20	CSD	113718	M-79543	2311022	77940.0	26820.0	51120.0	25.56
05/18/20	CSD	113717	M-79542	2311022	78880.0	27760.0	51120.0	25.56
05/18/20	CSD	113416	M-79541	2311022	79000.0	29120.0	49880.0	24.94
05/18/20	CSD	113715	M-79540	2311022	78660.0	26980.0	51680.0	25.84
05/18/20	CSD	113714	M-79539	2311022	78480.0	28800.0	49680.0	24.84
05/18/20	CSD		M-79538	2311022	78180.0	27840.0	50340.0	25.17
05/18/20	CSD	113712	M-79537	2311022	77940.0	27480.0	50460.0	25.23
05/18/20	CSD	113711	M-79536	2311022	77580.0	27840.0	49740.0	24.87
05/18/20	CSD	113726	M-79551	2311022	78640.0	28620.0	50020.0	25.01
05/18/20	CSD	113720	M-79545	2311022	78040.0	27100.0	50940.0	25.47
05/18/20	CSD	113722	M-79547	2311022	77260.0	28580.0	48680.0	24.34
05/19/20	CSD	113727	M-79571	2311022	78800.0	28060.0	50740.0	25.37
05/19/20	CSD	113729	M-79573	2311022	78560.0	29340.0	49220.0	24.61
05/19/20	CSD	113730	M-79574	2311022	77240.0	27840.0	49400.0	24.70
05/19/20	CSD	113731	M-79575	2311022	77440.0	27420.0	50020.0	25.01
05/19/20	CSD	113732	M-79576	2311022	79060.0	27000.0	52060.0	26.03
05/19/20	CSD	113734	M-79578	2311022	77840.0	28580.0	49260.0	24.63
05/19/20	CSD	113735	M-79579	2311022	79440.0	27720.0	51720.0	25.86
05/19/20	CSD	113736	M-79580	2311022	78340.0	26920.0	51420.0	25.71
05/19/20	CSD	113737	M-79581	2311022	77720.0	26780.0	50940.0	25.47
05/19/20	CSD	113742	M-79586	2311022	77660.0	29120.0	48540.0	24.27
05/19/20	CSD	113741	M-79585	2311022	78060.0	27840.0	50220.0	25.11
05/19/20	CSD	113740	M-79584	2311022	77680.0	27560.0	50120.0	25.06
05/19/20	CSD	113239	M-79583	2311022	79160.0	28040.0	51120.0	25.56
05/19/20	CSD	113738	M-79582	2311022	77400.0	28560.0	48840.0	24.42
05/19/20	CSD	113733	M-79577	2311022	79320.0	28560.0	50760.0	25.38
05/19/20	CSD	113728	M-79572	2311022	78040.0	27100.0	50940.0	25.47
05/20/20	CSD	113747	M-79612	2311022	78180.0	28780.0	49400.0	24.70
05/20/20	CSD	113748	M-79613	2311022	79480.0	27760.0	51720.0	25.86
05/20/20	CSD	113749	M-79614	2311022	78720.0	28840.0	49880.0	24.94

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
05/20/20	CSD	113750	M-79615	2311022	78840.0	28540.0	50300.0	25.15
05/20/20	CSD	113751	M-79616	2311022	78480.0	26880.0	51600.0	25.80
05/20/20	CSD	113752	M-79617	2311022	78120.0	27160.0	50960.0	25.48
05/20/20	CSD	113753	M-79618	2311022	77940.0	28620.0	49320.0	24.66
05/20/20	CSD	113754	M-79619	2311022	77580.0	27000.0	50580.0	25.29
05/20/20	CSD	113746	M-79611	2311022	78220.0	27070.0	51150.0	25.58
05/20/20	CSD	113745	M-79610	2311022	78420.0	27440.0	50980.0	25.49
05/20/20	CSD	113744	M-79609	2311022	78000.0	28680.0	49320.0	24.66
05/20/20	CSD	113755	M-79601	2311022	78000.0	26740.0	51260.0	25.63
05/20/20	CSD	113756	M-79602	2311022	77920.0	28180.0	49740.0	24.87
05/20/20	CSD	113757	M-79603	2311022	78620.0	28080.0	50540.0	25.27
05/20/20	CSD	113758	M-79604	2311022	77920.0	27860.0	50060.0	25.03
05/20/20	CSD	113759	M-79605	2311022	78520.0	29280.0	49240.0	24.62
05/20/20	CSD	113760	M-79606	2311022	78900.0	27120.0	51780.0	25.89
05/20/20	CSD	113761	M-79607	2311022	77820.0	27620.0	50200.0	25.10
05/20/20	CSD	113743	M-79608	2311022	78420.0	28120.0	50300.0	25.15
05/21/20	CSD	113775	M-79643	2311022	78140.0	27080.0	51060.0	25.53
05/21/20	CSD	113776	M-79644	2311022	79100.0	27140.0	51960.0	25.98
05/21/20	CSD	113777	M-79645	2311022	78500.0	27780.0	50720.0	25.36
05/21/20	CSD	113778	M-79646	2311022	78360.0	29280.0	49080.0	24.54
05/21/20	CSD	113779	M-79647	2311022	78380.0	28040.0	50340.0	25.17
05/21/20	CSD	113780	M-79648	2311022	78320.0	28200.0	50120.0	25.06
05/21/20	CSD	113787	M-79649	2311022	77980.0	28820.0	49160.0	24.58
05/21/20	CSD	113782	M-79650	2311022	78580.0	29160.0	49420.0	24.71
05/21/20	CSD	113783	M-79651	2311022	78560.0	27660.0	50900.0	25.45
05/21/20	CSD	113784	M-79652	2311022	78340.0	27880.0	50460.0	25.23
05/21/20	CSD	113774	M-79642	2311022	78740.0	28240.0	50500.0	25.25
05/21/20	CSD	113773	M-79641	2311022	78620.0	28680.0	49940.0	24.97
05/21/20	CSD	113772	M-79640	2311022	78720.0	26800.0	51920.0	25.96
05/21/20	CSD	113760	M-79630	2311022	78240.0	28140.0	50100.0	25.05
05/21/20	CSD	113763	M-79631	2311022	77180.0	28800.0	48380.0	24.19
05/21/20	CSD	113764	M-79632	2311022	77500.0	27840.0	49660.0	24.83
05/21/20	CSD	113765	M-79633	2311022	78460.0	27840.0	50620.0	25.31
05/21/20	CSD	113766	M-79634	2311022	77940.0	27380.0	50560.0	25.28
05/21/20	CSD	113767	M-79635	2311022	77980.0	29060.0	48920.0	24.46
05/21/20	CSD	113768	M-79636	2311022	76920.0	29780.0	47140.0	23.57
05/21/20	CSD	113769	M-79637	2311022	78220.0	27000.0	51220.0	25.61
05/21/20	CSD	113770	M-79638	2311022	78700.0	26800.0	51900.0	25.95
05/21/20	CSD	113771	M-79639	2311022	77720.0	28180.0	49540.0	24.77
05/22/20	CSD	113796	M-79679	2311022	79600.0	28120.0	51480.0	25.74

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
05/22/20	CSD	113797	M-79680	2311022	77060.0	27160.0	49900.0	24.95
05/22/20	CSD	113798	M-79681	2311022	77300.0	30780.0	46520.0	23.26
05/22/20	CSD	113799	M-79682	2311022	77940.0	27040.0	50900.0	25.45
05/22/20	CSD	113800	M-79683	2311022	77820.0	28740.0	49080.0	24.54
05/22/20	CSD	113801	M-79684	2311022	76880.0	27900.0	48980.0	24.49
05/22/20	CSD	190	M-79685	2311022	76860.0	28200.0	48660.0	24.33
05/22/20	CSD	113803	M-79686	2311022	77180.0	28200.0	48980.0	24.49
05/22/20	CSD	113795	M-79678	2311022	78040.0	26780.0	51260.0	25.63
05/22/20	CSD	113794	M-79677	2311022	77340.0	27180.0	50160.0	25.08
05/22/20	CSD	113786	M-79669	2311022	77520.0	28140.0	49380.0	24.69
05/22/20	CSD	113787	M-79670	2311022	79000.0	28260.0	50740.0	25.37
05/22/20	CSD	113788	M-79671	2311022	77880.0	27400.0	50480.0	25.24
05/22/20	CSD	113789	M-79672	2311022	78000.0	29080.0	48920.0	24.46
05/22/20	CSD	113790	M-79673	2311022	77680.0	29720.0	47960.0	23.98
05/22/20	CSD	113791	M-79674	2311022	77200.0	28660.0	48540.0	24.27
05/22/20	CSD	113792	M-79675	2311022	77100.0	27620.0	49480.0	24.74
05/22/20	CSD	113793	M-79676	2311022	76680.0	27460.0	49220.0	24.61
05/26/20	CSD	113815	M-79756	2311022	76880.0	28540.0	48340.0	24.17
05/26/20	CSD	113816	M-79757	2311022	77200.0	28880.0	48320.0	24.16
05/26/20	CSD	113817	M-79758	2311022	77240.0	29040.0	48200.0	24.10
05/26/20	CSD	113818	M-79759	2311022	77860.0	27460.0	50400.0	25.20
05/26/20	CSD	113819	M-79760	2311022	77180.0	27420.0	49760.0	24.88
05/26/20	CSD	113820	M-79761	2311022	78420.0	27540.0	50880.0	25.44
05/26/20	CSD	113821	M-79762	2311022	77340.0	29020.0	48320.0	24.16
05/26/20	CSD	113822	M-79763	2311022	77220.0	28560.0	48660.0	24.33
05/26/20	CSD	113814	M-79755	2311022	78460.0	27020.0	51440.0	25.72
05/26/20	CSD	113813	M-79754	2311022	77260.0	27180.0	50080.0	25.04
05/26/20	CSD	113812	M-79753	2311022	78040.0	28220.0	49820.0	24.91
05/26/20	CSD	113804	M-79745	2311022	78040.0	29360.0	48680.0	24.34
05/26/20	CSD	113805	M-79746	2311022	77660.0	28320.0	49340.0	24.67
05/26/20	CSD	113806	M-79747	2311022	77340.0	28880.0	48460.0	24.23
05/26/20	CSD	113807	M-79748	2311022	76720.0	27640.0	49080.0	24.54
05/26/20	CSD	113808	M-79749	2311022	78420.0	29320.0	49100.0	24.55
05/26/20	CSD	113809	M-79750	2311022	77800.0	27420.0	50380.0	25.19
05/26/20	CSD	113810	M-79751	2311022	77920.0	29120.0	48800.0	24.40
05/26/20	CSD	113811	M-79752	2311022	78320.0	29280.0	49040.0	24.52
05/27/20	CSD	113835	M-79783	2311022	76140.0	28760.0	47380.0	23.69
05/27/20	CSD	113836	M-79784	2311022	79340.0	28900.0	50440.0	25.22
05/27/20	CSD	113837	M-79785	2311022	77700.0	28560.0	49140.0	24.57
05/27/20	CSD	113839	M-79786	2311022	77280.0	28540.0	48740.0	24.37

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
05/27/20	CSD	113840	M-79787	2311022	77640.0	28760.0	48880.0	24.44
05/27/20	CSD	113841	M-79788	2311022	78460.0	27720.0	50740.0	25.37
05/27/20	CSD	113842	M-79789	2311022	77820.0	29340.0	48480.0	24.24
05/27/20	CSD	113843	M-79790	2311022	78820.0	29980.0	48840.0	24.42
05/27/20	CSD	113844	M-79791	2311022	78160.0	28000.0	50160.0	25.08
05/27/20	CSD	113838	M-79792	2311022	78900.0	27500.0	51400.0	25.70
05/27/20	CSD	113334	M-79782	2311022	78100.0	27720.0	50380.0	25.19
05/27/20	CSD	113833	M-79781	2311022	78080.0	27120.0	50960.0	25.48
05/27/20	CSD	113823	M-79771	2311022	78220.0	27620.0	50600.0	25.30
05/27/20	CSD		M-79772	2311022	77340.0	28240.0	49100.0	24.55
05/27/20	CSD	113825	M-79773	2311022	77800.0	29460.0	48340.0	24.17
05/27/20	CSD	113826	M-79774	2311022	77300.0	27580.0	49720.0	24.86
05/27/20	CSD	113827	M-79775	2311022	78320.0	27520.0	50800.0	25.40
05/27/20	CSD	113828	M-79776	2311022	77580.0	28660.0	48920.0	24.46
05/27/20	CSD	113829	M-79777	2311022	78740.0	27440.0	51300.0	25.65
05/27/20	CSD	113830	M-79778	2311022	78760.0	29160.0	49600.0	24.80
05/27/20	CSD	113831	M-79779	2311022	78080.0	29000.0	49080.0	24.54
05/27/20	CSD	113832	M-79780	2311022	78140.0	28300.0	49840.0	24.92
05/28/20	CSD	113855	M-79821	2311022	78140.0	27080.0	51060.0	25.53
05/28/20	CSD	113856	M-79822	2311022	78340.0	27560.0	50780.0	25.39
05/28/20	CSD	113857	M-79823	2311022	79260.0	29420.0	49840.0	24.92
05/28/20	CSD	113858	M-79824	2311022	78440.0	27740.0	50700.0	25.35
05/28/20	CSD	113859	M-79825	2311022	79380.0	27580.0	51800.0	25.90
05/28/20	CSD	113860	M-79826	2311022	77000.0	28560.0	48440.0	24.22
05/28/20	CSD	113861	M-79827	2311022	77820.0	27440.0	50380.0	25.19
05/28/20	CSD	113862	M-79828	2311022	77700.0	29300.0	48400.0	24.20
05/28/20	CSD	113854	M-79820	2311022	78640.0	27740.0	50900.0	25.45
05/28/20	CSD	113853	M-79819	2311022	78300.0	27420.0	50880.0	25.44
05/28/20	CSD	113845	M-79811	2311022	79340.0	29420.0	49920.0	24.96
05/28/20	CSD	113846	M-79812	2311022	78020.0	28360.0	49660.0	24.83
05/28/20	CSD	113847	M-79813	2311022	78140.0	27460.0	50680.0	25.34
05/28/20	CSD	113848	M-79814	2311022	76760.0	27580.0	49180.0	24.59
05/28/20	CSD	113849	M-79815	2311022	77800.0	29160.0	48640.0	24.32
05/28/20	CSD	113850	M-79816	2311022	78360.0	28580.0	49780.0	24.89
05/28/20	CSD	113851	M-79817	2311022	78220.0	26920.0	51300.0	25.65
05/28/20	CSD	113852	M-79818	2311022	78340.0	27000.0	51340.0	25.67
05/29/20	CSD	113872	M-79856	2311022	78320.0	27620.0	50700.0	25.35
05/29/20	CSD	113873	M-79857	2311022	79280.0	27800.0	51480.0	25.74
05/29/20	CSD	113874	M-79858	2311022	78060.0	28780.0	49280.0	24.64
05/29/20	CSD	113875	M-79859	2311022	79560.0	27680.0	51880.0	25.94

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
05/29/20	CSD	113876	M-79860	2311022	78600.0	27020.0	51580.0	25.79
05/29/20	CSD	113877	M-79861	2311022	78920.0	28460.0	50460.0	25.23
05/29/20	CSD	113878	M-79862	2311022	76500.0	28680.0	47820.0	23.91
05/29/20	CSD	113871	M-79855	2311022	78840.0	28960.0	49880.0	24.94
05/29/20	CSD	113870	M-79854	2311022	78560.0	27480.0	51080.0	25.54
05/29/20	CSD	113863	M-79847	2311022	78300.0	29420.0	48880.0	24.44
05/29/20	CSD	113864	M-79848	2311022	78480.0	28340.0	50140.0	25.07
05/29/20	CSD	113865	M-79849	2311022	77700.0	27540.0	50160.0	25.08
05/29/20	CSD	113866	M-79850	2311022	75880.0	27480.0	48400.0	24.20
05/29/20	CSD	113867	M-79851	2311022	78260.0	29380.0	48880.0	24.44
05/29/20	CSD	113868	M-79852	2311022	78880.0	27740.0	51140.0	25.57
05/29/20	CSD	113869	M-79853	2311022	78480.0	28640.0	49840.0	24.92
05/30/20	CSD	113887	M-79892	2311022	77420.0	27920.0	49500.0	24.75
05/30/20	CSD	113888	M-79893	2311022	78000.0	27560.0	50440.0	25.22
05/30/20	CSD	113889	M-79894	2311022	77580.0	29160.0	48420.0	24.21
05/30/20	CSD	113890	M-79895	2311022	78340.0	28700.0	49640.0	24.82
05/30/20	CSD	113891	M-79896	2311022	78860.0	29220.0	49640.0	24.82
05/30/20	CSD	113892	M-79897	2311022	75820.0	28780.0	47040.0	23.52
05/30/20	CSD	113886	M-79891	2311022	77860.0	27420.0	50440.0	25.22
05/30/20	CSD	113885	M-79890	2311022	77740.0	27020.0	50720.0	25.36
05/30/20	CSD	113884	M-79889	2311022	77780.0	29120.0	48660.0	24.33
05/30/20	CSD	113883	M-79888	2311022	77360.0	28120.0	49240.0	24.62
05/30/20	CSD	113882	M-79887	2311022	77660.0	27500.0	50160.0	25.08
05/30/20	CSD	113881	M-79886	2311022	78820.0	27360.0	51460.0	25.73
05/30/20	CSD	113860	M-79885	2311022	77320.0	27840.0	49480.0	24.74
05/30/20	CSD	113879	M-79884	2311022	78340.0	27280.0	51060.0	25.53
05/30/20	CSD	113893	M-79898	2311022	77700.0	26940.0	50760.0	25.38

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Monthly Biosolids Report to

City of San Diego

For June 2020

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Summary for City of San Diego
June 2020

Field 2311022 received 433 loads totaling 10782.89 tons of Biosolids between 06/01/20 and 06/30/20

Composition analysis dated 04/08/20 was used to determine the makeup of the biosolids loaded between 06/01/20 and 06/30/20

Solids %: 28.8000
Composition PPM (mg/kg)
Arsenic (As): 4.6100
Cadmium (Cd): 0.0000
Chromium (Cr): 52.4000
Copper (Cu): 550.0000
Lead (Pb): 11.2000
Mercury (Hg): 0.6030
Molybdenum (Mo): 14.6000
Nickel (Ni): 21.0000
Selenium (Se): 6.4600
Zinc (Zn): 880.0000
Organic Nitrogen (OrgN): 50400.0000
Ammoniacal Nitrogen (NH3-N): 6400.0000
Nitrate Nitrogen (NO3-N): 0.0000

AG TECH, LLC
3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Application Summary for Field 2311022
City of San Diego - June 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: Desert Ridge Farms Pivot: N Field: 2311022 Area: 60.00 Acres = 24.28 Hectares
Location: S2 NW4 T11S R23W SEC 02 GSRBM , Yuma , AZ
Latitude: N 32 30 19.7 Longitude: W 114 34 31.1

Application Method: Incorporation

Analysis Date(s): 04/08/20

Solids Percentage: 28.8%

Wet Biosolids Applied:	10782.89 Tons	9782.08 Metric Tons
Dry Biosolids Applied:	3105.47 Tons	2817.24 Metric Tons
Wet Application Rate:	179.71 Tons/Acre	402.87 Metric Tons/ha
Dry Application Rate:	51.76 Tons/Acre	116.03 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	4.61	0.53	0.48
Cadmium (Cd):	0.00	0.00	0.00
Chromium (Cr):	0	6.08	5.42
Copper (Cu):	550.00	63.81	56.93
Lead (Pb):	11.20	1.30	1.16
Mercury (Hg):	0.60	0.07	0.06
Molybdenum (Mo):	14.60	1.69	1.51
Nickel (Ni):	21.00	2.44	2.17
Selenium (Se):	6.46	0.75	0.67
Zinc (Zn):	880.00	102.10	91.09
Organic Nitrogen (OrgN):	50,400.00	5,847.69	5,217.18
Ammoniacal Nitrogen (NH3-N):	6,400.00	742.56	662.50
Nitrate Nitrogen (NO3-N):	0.00	0.00	0.00
Total Kjeldahl Nitrogen (TKN):	56,800.00	747.56	667.5

AG TECH, LLC

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City of San Diego June 2020 Haul Logs Page 1

Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
06/01/20	CSD	113894	M-79963	2311022	77820.0	29360.0	48460.0	24.23
06/01/20	CSD	113911	M-79980	2311022	79560.0	27780.0	51780.0	25.89
06/01/20	CSD	113910	M-79979	2311022	79120.0	30440.0	48680.0	24.34
06/01/20	CSD	113909	M-79978	2311022	78600.0	28560.0	50040.0	25.02
06/01/20	CSD	113908	M-79977	2311022	77500.0	27640.0	49860.0	24.93
06/01/20	CSD	113907	M-79976	2311022	77640.0	26960.0	50680.0	25.34
06/01/20	CSD	113906	M-79975	2311022	77980.0	29280.0	48700.0	24.35
06/01/20	CSD	113905	M-79974	2311022	77180.0	28960.0	48220.0	24.11
06/01/20	CSD	113904	M-79973	2311022	78140.0	26960.0	51180.0	25.59
06/01/20	CSD	113903	M-79972	2311022	77780.0	27340.0	50440.0	25.22
06/01/20	CSD	113902	M-79971	2311022	78380.0	27440.0	50940.0	25.47
06/01/20	CSD	113895	M-79964	2311022	77160.0	27340.0	49820.0	24.91
06/01/20	CSD	113896	M-79965	2311022	77620.0	27840.0	49780.0	24.89
06/01/20	CSD	113897	M-79966	2311022	79100.0	29000.0	50100.0	25.05
06/01/20	CSD	113898	M-79967	2311022	77480.0	28200.0	49280.0	24.64
06/01/20	CSD	113899	M-79968	2311022	76100.0	28380.0	47720.0	23.86
06/01/20	CSD	113900	M-79969	2311022	78220.0	28680.0	49540.0	24.77
06/01/20	CSD	113901	M-79970	2311022	78040.0	27140.0	50900.0	25.45
06/02/20	CSD	113922	M-80006	2311022	78520.0	27160.0	51360.0	25.68
06/02/20	CSD	113923	M-80007	2311022	78520.0	29000.0	49520.0	24.76
06/02/20	CSD	113924	M-80008	2311022	78660.0	27780.0	50880.0	25.44
06/02/20	CSD	113925	M-80009	2311022	77940.0	27860.0	50080.0	25.04
06/02/20	CSD	113926	M-80010	2311022	77800.0	28760.0	49040.0	24.52
06/02/20	CSD	113927	M-80011	2311022	77820.0	27940.0	49880.0	24.94
06/02/20	CSD	113928	M-80012	2311022	78580.0	29320.0	49260.0	24.63
06/02/20	CSD	113929	M-80013	2311022	79180.0	27660.0	51520.0	25.76
06/02/20	CSD	113921	M-80005	2311022	77820.0	27120.0	50700.0	25.35
06/02/20	CSD	113920	M-80004	2311022	78180.0	27000.0	51180.0	25.59
06/02/20	CSD	113912	M-79996	2311022	78280.0	29460.0	48820.0	24.41
06/02/20	CSD	113913	M-79997	2311022	78040.0	27780.0	50260.0	25.13
06/02/20	CSD	113914	M-79998	2311022	77900.0	27340.0	50560.0	25.28
06/02/20	CSD	113915	M-79999	2311022	78560.0	29100.0	49460.0	24.73
06/02/20	CSD	113916	M-80000	2311022	79060.0	28520.0	50540.0	25.27
06/02/20	CSD	113917	M-80001	2311022	77000.0	28060.0	48940.0	24.47
06/02/20	CSD	113918	M-80002	2311022	77990.0	27300.0	50690.0	25.35
06/02/20	CSD	113919	M-80003	2311022	78400.0	27060.0	51340.0	25.67
06/03/20	CSD	113941	M-80039	2311022	77780.0	27280.0	50500.0	25.25
06/03/20	CSD	113942	M-80040	2311022	78380.0	27640.0	50740.0	25.37
06/03/20	CSD	113943	M-80041	2311022	79760.0	27560.0	52200.0	26.10
06/03/20	CSD	113944	M-80042	2311022	78180.0	27780.0	50400.0	25.20

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
06/03/20	CSD	113945	M-80043	2311022	78860.0	27840.0	51020.0	25.51
06/03/20	CSD	113946	M-80044	2311022	78380.0	27300.0	51080.0	25.54
06/03/20	CSD	113947	M-80045	2311022	76440.0	26760.0	49680.0	24.84
06/03/20	CSD	113948	M-80046	2311022	77580.0	29560.0	48020.0	24.01
06/03/20	CSD	113949	M-80047	2311022	76720.0	28340.0	48380.0	24.19
06/03/20	CSD	113940	M-80038	2311022	78300.0	27020.0	51280.0	25.64
06/03/20	CSD	113939	M-80037	2311022	77460.0	27320.0	50140.0	25.07
06/03/20	CSD	113930	M-80028	2311022	77860.0	26820.0	51040.0	25.52
06/03/20	CSD	113931	M-80029	2311022	78300.0	27920.0	50380.0	25.19
06/03/20	CSD	113932	M-80030	2311022	78200.0	29440.0	48760.0	24.38
06/03/20	CSD	113933	M-80031	2311022	78660.0	29140.0	49520.0	24.76
06/03/20	CSD	113934	M-80032	2311022	79120.0	27680.0	51440.0	25.72
06/03/20	CSD	113935	M-80033	2311022	78280.0	28300.0	49980.0	24.99
06/03/20	CSD	113936	M-80034	2311022	76360.0	28600.0	47760.0	23.88
06/03/20	CSD	113937	M-80035	2311022	78240.0	28360.0	49880.0	24.94
06/03/20	CSD	113938	M-80036	2311022	76440.0	27480.0	48960.0	24.48
06/04/20	CSD	113961	M-80075	2311022	79300.0	26960.0	52340.0	26.17
06/04/20	CSD	113962	M-80076	2311022	78760.0	27840.0	50920.0	25.46
06/04/20	CSD	113963	M-80077	2311022	79120.0	27760.0	51360.0	25.68
06/04/20	CSD	113964	M-80078	2311022	79860.0	28700.0	51160.0	25.58
06/04/20	CSD	113965	M-80079	2311022	78260.0	28460.0	49800.0	24.90
06/04/20	CSD	113966	M-80080	2311022	78440.0	27840.0	50600.0	25.30
06/04/20	CSD	113967	M-80081	2311022	78040.0	29580.0	48460.0	24.23
06/04/20	CSD	113968	M-80082	2311022	76020.0	28360.0	47660.0	23.83
06/04/20	CSD	113969	M-80083	2311022	77180.0	27480.0	49700.0	24.85
06/04/20	CSD	113960	M-80074	2311022	78240.0	27620.0	50620.0	25.31
06/04/20	CSD	113959	M-80073	2311022	76840.0	27120.0	49720.0	24.86
06/04/20	CSD	113950	M-80064	2311022	77900.0	29440.0	48460.0	24.23
06/04/20	CSD	113951	M-80065	2311022	78120.0	27920.0	50200.0	25.10
06/04/20	CSD	113952	M-80066	2311022	78460.0	28940.0	49520.0	24.76
06/04/20	CSD		M-88067	2311022	78120.0	26920.0	51200.0	25.60
06/04/20	CSD	113954	M-80068	2311022	77080.0	28360.0	48720.0	24.36
06/04/20	CSD	113955	M-80069	2311022	78240.0	27640.0	50600.0	25.30
06/04/20	CSD	113956	M-80070	2311022	78680.0	28840.0	49840.0	24.92
06/04/20	CSD	113957	M-80071	2311022	79040.0	27960.0	51080.0	25.54
06/04/20	CSD	113958	M-80072	2311022	78640.0	27580.0	51060.0	25.53
06/05/20	CSD	113980	M-80809	2311022	79040.0	28440.0	50600.0	25.30
06/05/20	CSD	113979	M-80808	2311022	76920.0	27580.0	49340.0	24.67
06/05/20	CSD	113978	M-80807	2311022	76920.0	27840.0	49080.0	24.54
06/05/20	CSD	113976	M-80805	2311022	77360.0	28840.0	48520.0	24.26

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
06/05/20	CSD	113975	M-80804	2311022	78980.0	27440.0	51540.0	25.77
06/05/20	CSD	113974	M-80803	2311022	77640.0	26980.0	50660.0	25.33
06/05/20	CSD	113973	M-80802	2311022	77720.0	28660.0	49060.0	24.53
06/05/20	CSD	113981	M-80810	2311022	77500.0	27800.0	49700.0	24.85
06/05/20	CSD	113982	M-80811	2311022	77580.0	27040.0	50540.0	25.27
06/05/20	CSD	113983	M-80812	2311022	75980.0	28280.0	47700.0	23.85
06/05/20	CSD	113984	M-80813	2311022	76820.0	27160.0	49660.0	24.83
06/05/20	CSD	113986	M-80815	2311022	77840.0	27560.0	50280.0	25.14
06/05/20	CSD		M-80816	2311022	77380.0	27760.0	49620.0	24.81
06/05/20	CSD	113988	M-80817	2311022	77600.0	28800.0	48800.0	24.40
06/05/20	CSD	113989	M-80818	2311022	76960.0	27240.0	49720.0	24.86
06/05/20	CSD	113990	M-80819	2311022	77860.0	27120.0	50740.0	25.37
06/05/20	CSD	113970	M-80800	2311022	77860.0	29380.0	48480.0	24.24
06/05/20	CSD	113271	M-80801	2311022	78140.0	27940.0	50200.0	25.10
06/05/20	CSD	113985	M-80814	2311022	78180.0	29620.0	48560.0	24.28
06/05/20	CSD	113977	M-80806	2311022	75640.0	28380.0	47260.0	23.63
06/06/20	CSD	133995	M-80104	2311022	77080.0	27720.0	49360.0	24.68
06/06/20	CSD	113991	M-80100	2311022	78360.0	28660.0	49700.0	24.85
06/06/20	CSD	113992	M-80101	2311022	77880.0	28380.0	49500.0	24.75
06/06/20	CSD	113993	M-80102	2311022	79860.0	27020.0	52840.0	26.42
06/06/20	CSD	113994	M-80103	2311022	77300.0	29440.0	47860.0	23.93
06/06/20	CSD	113997	M-80106	2311022	76340.0	28460.0	47880.0	23.94
06/06/20	CSD	113996	M-80105	2311022	77980.0	27620.0	50360.0	25.18
06/08/20	CSD	114000	M-80130	2311022	77720.0	28460.0	49260.0	24.63
06/08/20	CSD	114010	M-80140	2311022	77000.0	28840.0	48160.0	24.08
06/08/20	CSD	113999	M-80129	2311022	78360.0	28180.0	50180.0	25.09
06/08/20	CSD	113998	M-80128	2311022	77900.0	27840.0	50060.0	25.03
06/08/20	CSD	114009	M-80139	2311022	76960.0	28280.0	48680.0	24.34
06/08/20	CSD	114001	M-80131	2311022	78640.0	27520.0	51120.0	25.56
06/08/20	CSD	114002	M-80132	2311022	78600.0	26980.0	51620.0	25.81
06/08/20	CSD	114003	M-80133	2311022	78220.0	27920.0	50300.0	25.15
06/08/20	CSD	114011	M-80141	2311022	75180.0	28900.0	46280.0	23.14
06/08/20	CSD	114012	M-80142	2311022	77740.0	29620.0	48120.0	24.06
06/08/20	CSD	114013	M-80143	2311022	78360.0	29500.0	48860.0	24.43
06/08/20	CSD	114014	M-80144	2311022	77840.0	27800.0	50040.0	25.02
06/08/20	CSD	114015	M-80145	2311022	78060.0	27560.0	50500.0	25.25
06/08/20	CSD	114016	M-80146	2311022	78440.0	27520.0	50920.0	25.46
06/08/20	CSD	114008	M-80138	2311022	77860.0	28580.0	49280.0	24.64
06/08/20	CSD	114006	M-80136	2311022	78440.0	27420.0	51020.0	25.51
06/08/20	CSD	114005	M-80135	2311022	75740.0	28400.0	47340.0	23.67

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
06/08/20	CSD	114004	M-80134	2311022	75940.0	27400.0	48540.0	24.27
06/08/20	CSD	114007	M-80137	2311022	78140.0	26280.0	51860.0	25.93
06/09/20	CSD	114038	M-80183	2311022	77720.0	28000.0	49720.0	24.86
06/09/20	CSD	114037	M-80182	2311022	78140.0	27020.0	51120.0	25.56
06/09/20	CSD	114024	M-80169	2311022	77000.0	27720.0	49280.0	24.64
06/09/20	CSD	114023	M-80168	2311022	78080.0	26900.0	51180.0	25.59
06/09/20	CSD	114002	M-80167	2311022	77220.0	27960.0	49260.0	24.63
06/09/20	CSD	114021	M-80166	2311022	77700.0	27600.0	50100.0	25.05
06/09/20	CSD	114020	M-80165	2311022	78320.0	27760.0	50560.0	25.28
06/09/20	CSD	114036	M-80181	2311022	77580.0	29560.0	48020.0	24.01
06/09/20	CSD	114019	M-80164	2311022	77460.0	26820.0	50640.0	25.32
06/09/20	CSD	114018	M-80163	2311022	77300.0	27580.0	49720.0	24.86
06/09/20	CSD	114017	M-80162	2311022	77440.0	29400.0	48040.0	24.02
06/09/20	CSD	114025	M-80170	2311022	75640.0	28380.0	47260.0	23.63
06/09/20	CSD	114026	M-80171	2311022	77780.0	28400.0	49380.0	24.69
06/09/20	CSD	114029	M-80174	2311022	76200.0	27600.0	48600.0	24.30
06/09/20	CSD	114035	M-80180	2311022	78480.0	28280.0	50200.0	25.10
06/09/20	CSD	114034	M-80179	2311022	77520.0	28900.0	48620.0	24.31
06/09/20	CSD	114033	M-80178	2311022	77420.0	27860.0	49560.0	24.78
06/09/20	CSD	114032	M-80177	2311022	77360.0	28680.0	48680.0	24.34
06/09/20	CSD	114031	M-80176	2311022	77860.0	27120.0	50740.0	25.37
06/09/20	CSD	114030	M-80175	2311022	77700.0	29640.0	48060.0	24.03
06/09/20	CSD	114028	M-80173	2311022	76460.0	28440.0	48020.0	24.01
06/09/20	CSD	114027	M-80172	2311022	77640.0	28860.0	48780.0	24.39
06/10/20	CSD	114046	M-80206	2311022	78480.0	27740.0	50740.0	25.37
06/10/20	CSD	114039	M-80199	2311022	79180.0	29300.0	49880.0	24.94
06/10/20	CSD	114050	M-80210	2311022	77920.0	27780.0	50140.0	25.07
06/10/20	CSD	114051	M-80211	2311022	78580.0	28420.0	50160.0	25.08
06/10/20	CSD	114052	M-80212	2311022	78200.0	28440.0	49760.0	24.88
06/10/20	CSD	114053	M-80213	2311022	78000.0	28680.0	49320.0	24.66
06/10/20	CSD	114054	M-80214	2311022	78820.0	27560.0	51260.0	25.63
06/10/20	CSD	114055	M-80215	2311022	78280.0	27140.0	51140.0	25.57
06/10/20	CSD	114056	M-80216	2311022	79120.0	27660.0	51460.0	25.73
06/10/20	CSD	114057	M-80217	2311022	78620.0	29980.0	48640.0	24.32
06/10/20	CSD	114049	M-80209	2311022	78300.0	28040.0	50260.0	25.13
06/10/20	CSD	114048	M-80208	2311022	78680.0	29640.0	49040.0	24.52
06/10/20	CSD	114047	M-80207	2311022	79260.0	27940.0	51320.0	25.66
06/10/20	CSD	114040	M-80200	2311022	77880.0	27640.0	50240.0	25.12
06/10/20	CSD	114041	M-80201	2311022	77560.0	26920.0	50640.0	25.32
06/10/20	CSD	114042	M-80202	2311022	77720.0	29120.0	48600.0	24.30

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
06/10/20	CSD	114058	M-80218	2311022	77600.0	28600.0	49000.0	24.50
06/10/20	CSD	114073	M-80203	2311022	77920.0	27060.0	50860.0	25.43
06/10/20	CSD	114044	M-80204	2311022	78440.0	28920.0	49520.0	24.76
06/10/20	CSD	114045	M-80205	2311022	78220.0	28160.0	50060.0	25.03
06/11/20	CSD	114076	M-80251	2311022	76520.0	28560.0	47960.0	23.98
06/11/20	CSD	114070	M-80245	2311022	78720.0	27840.0	50880.0	25.44
06/11/20	CSD	114065	M-80240	2311022	78000.0	29040.0	48960.0	24.48
06/11/20	CSD	114081	M-80256	2311022	78780.0	28720.0	50060.0	25.03
06/11/20	CSD	114067	M-80243	2311022	78440.0	27920.0	50520.0	25.26
06/11/20	CSD	114068	M-80242	2311022	78180.0	27640.0	50540.0	25.27
06/11/20	CSD	114066	M-80241	2311022	77960.0	26820.0	51140.0	25.57
06/11/20	CSD	114064	M-80239	2311022	78500.0	29640.0	48860.0	24.43
06/11/20	CSD	114063	M-80238	2311022	78100.0	26960.0	51140.0	25.57
06/11/20	CSD	114062	M-80237	2311022	77260.0	27080.0	50180.0	25.09
06/11/20	CSD	114061	M-80236	2311022	78740.0	27960.0	50780.0	25.39
06/11/20	CSD	114060	M-80235	2311022	78040.0	27620.0	50420.0	25.21
06/11/20	CSD	114069	M-80244	2311022	79240.0	27780.0	51460.0	25.73
06/11/20	CSD	114059	M-80234	2311022	78040.0	29400.0	48640.0	24.32
06/11/20	CSD	114071	M-80246	2311022	78040.0	28780.0	49260.0	24.63
06/11/20	CSD	114080	M-80255	2311022	79300.0	28360.0	50940.0	25.47
06/11/20	CSD	114079	M-80254	2311022	78320.0	29960.0	48360.0	24.18
06/11/20	CSD	114078	M-80253	2311022	79720.0	27760.0	51960.0	25.98
06/11/20	CSD	114077	M-80252	2311022	78600.0	28100.0	50500.0	25.25
06/11/20	CSD	114075	M-80250	2311022	76940.0	27800.0	49140.0	24.57
06/11/20	CSD	114074	M-80249	2311022	76160.0	23380.0	52780.0	26.39
06/11/20	CSD	114073	M-80248	2311022	77100.0	28420.0	48680.0	24.34
06/11/20	CSD	114072	M-80247	2311022	78280.0	28060.0	50220.0	25.11
06/12/20	CSD	114085	M-80277	2311022	77180.0	27720.0	49460.0	24.73
06/12/20	CSD	114101	M-80293	2311022	77060.0	29220.0	47840.0	23.92
06/12/20	CSD	114099	M-80291	2311022	76980.0	26860.0	50120.0	25.06
06/12/20	CSD	114098	M-80290	2311022	77820.0	27740.0	50080.0	25.04
06/12/20	CSD	114096	M-80288	2311022	77380.0	28360.0	49020.0	24.51
06/12/20	CSD	111095	M-80287	2311022	78440.0	28840.0	49600.0	24.80
06/12/20	CSD	114094	M-80286	2311022	78280.0	28080.0	50200.0	25.10
06/12/20	CSD	114093	M-80285	2311022	77500.0	27820.0	49680.0	24.84
06/12/20	CSD	114092	M-80284	2311022	76280.0	28340.0	47940.0	23.97
06/12/20	CSD	114097	M-80289	2311022	78100.0	27000.0	51100.0	25.55
06/12/20	CSD	114091	M-80283	2311022	77340.0	28080.0	49260.0	24.63
06/12/20	CSD	114090	M-80282	2311022	76220.0	28260.0	47960.0	23.98
06/12/20	CSD	114082	M-80274	2311022	78420.0	29400.0	49020.0	24.51

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
06/12/20	CSD	114083	M-80275	2311022	77820.0	28460.0	49360.0	24.68
06/12/20	CSD	114084	M-80276	2311022	77900.0	26980.0	50920.0	25.46
06/12/20	CSD	114086	M-80278	2311022	77640.0	26880.0	50760.0	25.38
06/12/20	CSD	114087	M-80279	2311022	77620.0	27660.0	49960.0	24.98
06/12/20	CSD	114088	M-80280	2311022	77040.0	27080.0	49960.0	24.98
06/12/20	CSD	114089	M-80281	2311022	77520.0	27120.0	50400.0	25.20
06/12/20	CSD	114100	M-80292	2311022	77340.0	27780.0	49560.0	24.78
06/15/20	CSD	114115	M-80349	2311022	77980.0	27680.0	50300.0	25.15
06/15/20	CSD	114103	M-80337	2311022	77240.0	27740.0	49500.0	24.75
06/15/20	CSD	114104	M-80338	2311022	78440.0	27140.0	51300.0	25.65
06/15/20	CSD	114105	M-80339	2311022	77120.0	29660.0	47460.0	23.73
06/15/20	CSD	114106	M-80340	2311022	79420.0	27600.0	51820.0	25.91
06/15/20	CSD	114107	M-80341	2311022	79440.0	28640.0	50800.0	25.40
06/15/20	CSD	104108	M-80342	2311022	77500.0	26980.0	50520.0	25.26
06/15/20	CSD	114109	M-80343	2311022	79040.0	28380.0	50660.0	25.33
06/15/20	CSD	114110	M-80344	2311022	77900.0	28040.0	49860.0	24.93
06/15/20	CSD	114111	M-80345	2311022	77280.0	27180.0	50100.0	25.05
06/15/20	CSD	114112	M-80346	2311022	79120.0	27780.0	51340.0	25.67
06/15/20	CSD	114114	M-80348	2311022	77860.0	27580.0	50280.0	25.14
06/15/20	CSD	114102	M-80336	2311022	79120.0	29340.0	49780.0	24.89
06/15/20	CSD	114116	M-80350	2311022	77640.0	29200.0	48440.0	24.22
06/15/20	CSD	114117	M-80351	2311022	77360.0	27000.0	50360.0	25.18
06/15/20	CSD	114118	M-80352	2311022	78360.0	28700.0	49660.0	24.83
06/15/20	CSD	114119	M-80353	2311022	78220.0	27720.0	50500.0	25.25
06/15/20	CSD	114120	M-80354	2311022	78380.0	27060.0	51320.0	25.66
06/15/20	CSD	114121	M-80355	2311022	78140.0	27180.0	50960.0	25.48
06/15/20	CSD	114113	M-80347	2311022	78180.0	28360.0	49820.0	24.91
06/16/20	CSD	114140	M-80391	2311022	79320.0	27720.0	51600.0	25.80
06/16/20	CSD	114127	M-80380	2311022	78120.0	27740.0	50380.0	25.19
06/16/20	CSD	114125	M-80378	2311022	78520.0	27180.0	51340.0	25.67
06/16/20	CSD	114124	M-80377	2311022	78060.0	27200.0	50860.0	25.43
06/16/20	CSD	114123	M-80376	2311022	78540.0	28280.0	50260.0	25.13
06/16/20	CSD	114122	M-80375	2311022	79400.0	29420.0	49980.0	24.99
06/16/20	CSD	114135	M-80374	2311022	78320.0	28380.0	49940.0	24.97
06/16/20	CSD	114136	M-80373	2311022	78800.0	29140.0	49660.0	24.83
06/16/20	CSD	114126	M-80379	2311022	78400.0	27000.0	51400.0	25.70
06/16/20	CSD	114128	M-80381	2311022	79160.0	28560.0	50600.0	25.30
06/16/20	CSD	114129	M-80382	2311022	77100.0	28380.0	48720.0	24.36
06/16/20	CSD	114139	M-80390	2311022	78260.0	28040.0	50220.0	25.11
06/16/20	CSD	114138	M-80389	2311022	77200.0	27800.0	49400.0	24.70

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
06/16/20	CSD	114137	M-80388	2311022	78400.0	27100.0	51300.0	25.65
06/16/20	CSD	114134	M-80387	2311022	78120.0	27680.0	50440.0	25.22
06/16/20	CSD	114133	M-80386	2311022	78140.0	28720.0	49420.0	24.71
06/16/20	CSD	114132	M-80385	2311022	78980.0	28020.0	50960.0	25.48
06/16/20	CSD	114131	M-80384	2311022	78420.0	27780.0	50640.0	25.32
06/16/20	CSD	114130	M-80383	2311022	76780.0	29060.0	47720.0	23.86
06/17/20	CSD	114141	M-80408	2311022	77660.0	29380.0	48280.0	24.14
06/17/20	CSD	114155	M-80422	2311022	77020.0	27720.0	49300.0	24.65
06/17/20	CSD	114146	M-80413	2311022	77940.0	28600.0	49340.0	24.67
06/17/20	CSD	114147	M-80414	2311022	78040.0	27500.0	50540.0	25.27
06/17/20	CSD	114148	M-80415	2311022	77200.0	28400.0	48800.0	24.40
06/17/20	CSD	114149	M-80416	2311022	77160.0	29620.0	47540.0	23.77
06/17/20	CSD	114143	M-80410	2311022	78100.0	27180.0	50920.0	25.46
06/17/20	CSD	114150	M-80417	2311022	77540.0	28120.0	49420.0	24.71
06/17/20	CSD	114151	M-80418	2311022	77280.0	28820.0	48460.0	24.23
06/17/20	CSD	114153	M-80420	2311022	77120.0	28420.0	48700.0	24.35
06/17/20	CSD	114154	M-80421	2311022	78600.0	29100.0	49500.0	24.75
06/17/20	CSD	114156	M-80423	2311022	78740.0	27020.0	51720.0	25.86
06/17/20	CSD	114157	M-80424	2311022	77700.0	27680.0	50020.0	25.01
06/17/20	CSD	114142	M-80409	2311022	77320.0	28340.0	48980.0	24.49
06/17/20	CSD	114145	M-80412	2311022	78120.0	27600.0	50520.0	25.26
06/17/20	CSD	114152	M-80419	2311022	77440.0	27760.0	49680.0	24.84
06/17/20	CSD	114144	M-80411	2311022	77500.0	26940.0	50560.0	25.28
06/18/20	CSD	116160	M-80441	2311022	76920.0	27180.0	49740.0	24.87
06/18/20	CSD	114158	M-80439	2311022	77460.0	29400.0	48060.0	24.03
06/18/20	CSD	114159	M-80440	2311022	77400.0	28340.0	49060.0	24.53
06/18/20	CSD	114161	M-80442	2311022	75720.0	28740.0	46980.0	23.49
06/18/20	CSD	114162	M-80443	2311022	77460.0	29660.0	47800.0	23.90
06/18/20	CSD	114172	M-80453	2311022	76920.0	27920.0	49000.0	24.50
06/18/20	CSD	114171	M-80452	2311022	77840.0	27740.0	50100.0	25.05
06/18/20	CSD	114170	M-80451	2311022	76980.0	28580.0	48400.0	24.20
06/18/20	CSD	114169	M-80450	2311022	77720.0	26960.0	50760.0	25.38
06/18/20	CSD	114168	M-80449	2311022	77660.0	28740.0	48920.0	24.46
06/18/20	CSD	114167	M-80448	2311022	79960.0	28400.0	51560.0	25.78
06/18/20	CSD	114166	M-80447	2311022	77160.0	28060.0	49100.0	24.55
06/18/20	CSD	114165	M-80446	2311022	77060.0	28320.0	48740.0	24.37
06/18/20	CSD	114164	M-80445	2311022	78260.0	27980.0	50280.0	25.14
06/18/20	CSD	114163	M-80444	2311022	78060.0	28580.0	49480.0	24.74
06/18/20	CSD	114173	M-80454	2311022	77860.0	27800.0	50060.0	25.03
06/19/20	CSD	114175	M-80472	2311022	77420.0	28340.0	49080.0	24.54

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06/19/20	CSD	114183	M-80480	2311022	76940.0	27880.0	49060.0	24.53
06/19/20	CSD	114184	M-80481	2311022	79620.0	28200.0	51420.0	25.71
06/19/20	CSD	114185	M-80482	2311022	79260.0	29140.0	50120.0	25.06
06/19/20	CSD	114181	M-80478	2311022	78060.0	28780.0	49280.0	24.64
06/19/20	CSD	114187	M-80484	2311022	77260.0	27860.0	49400.0	24.70
06/19/20	CSD	114186	M-80483	2311022	77680.0	28400.0	49280.0	24.64
06/19/20	CSD	114188	M-80485	2311022	77340.0	28360.0	48980.0	24.49
06/19/20	CSD	114175	M-80476	2311022	76860.0	28940.0	47920.0	23.96
06/19/20	CSD	114178	M-80475	2311022	77060.0	27660.0	49400.0	24.70
06/19/20	CSD	114177	M-80474	2311022	77340.0	27840.0	49500.0	24.75
06/19/20	CSD	114180	M-80477	2311022	78500.0	27560.0	50940.0	25.47
06/19/20	CSD	114176	M-80473	2311022	77180.0	26740.0	50440.0	25.22
06/19/20	CSD	114174	M-80471	2311022	77680.0	29400.0	48280.0	24.14
06/19/20	CSD	114182	M-80479	2311022	76700.0	28360.0	48340.0	24.17
06/22/20	CSD	114197	M-80533	2311022	77360.0	28340.0	49020.0	24.51
06/22/20	CSD	114189	M-80525	2311022	77820.0	28420.0	49400.0	24.70
06/22/20	CSD	114207	M-80543	2311022	77400.0	28820.0	48580.0	24.29
06/22/20	CSD	114206	M-80542	2311022	76180.0	28400.0	47780.0	23.89
06/22/20	CSD	114205	M-80541	2311022	78040.0	28560.0	49480.0	24.74
06/22/20	CSD	114202	M-80540	2311022	78740.0	27040.0	51700.0	25.85
06/22/20	CSD	114203	M-80539	2311022	77080.0	27800.0	49280.0	24.64
06/22/20	CSD	114201	M-80537	2311022	78820.0	27780.0	51040.0	25.52
06/22/20	CSD	114200	M-80536	2311022	77440.0	29140.0	48300.0	24.15
06/22/20	CSD	114199	M-80535	2311022	77660.0	28120.0	49540.0	24.77
06/22/20	CSD	114198	M-80534	2311022	77740.0	27560.0	50180.0	25.09
06/22/20	CSD	114196	M-80532	2311022	76120.0	27060.0	49060.0	24.53
06/22/20	CSD	114195	M-80531	2311022	78820.0	29160.0	49660.0	24.83
06/22/20	CSD	114194	M-80530	2311022	77160.0	27220.0	49940.0	24.97
06/22/20	CSD	114192	M-80528	2311022	77760.0	28420.0	49340.0	24.67
06/22/20	CSD	114191	M-80527	2311022	79280.0	27240.0	52040.0	26.02
06/22/20	CSD	114190	M-80526	2311022	77980.0	28360.0	49620.0	24.81
06/22/20	CSD	114208	M-80544	2311022	78160.0	27080.0	51080.0	25.54
06/22/20	CSD	114202	M-80538	2311022	78840.0	30300.0	48540.0	24.27
06/22/20	CSD	114193	M-80529	2311022	77760.0	28820.0	48940.0	24.47
06/23/20	CSD	114227	M-80577	2311022	77100.0	29260.0	47840.0	23.92
06/23/20	CSD	114218	M-80568	2311022	77420.0	27580.0	49840.0	24.92
06/23/20	CSD	114217	M-80567	2311022	77860.0	27180.0	50680.0	25.34
06/23/20	CSD	114216	M-80566	2311022	78600.0	28440.0	50160.0	25.08
06/23/20	CSD	114214	M-80564	2311022	77300.0	28940.0	48360.0	24.18
06/23/20	CSD	114215	M-80565	2311022	78740.0	27700.0	51040.0	25.52

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06/23/20	CSD	114213	M-80563	2311022	77600.0	27180.0	50420.0	25.21
06/23/20	CSD	114212	M-80562	2311022	78380.0	27680.0	50700.0	25.35
06/23/20	CSD	114211	M-80561	2311022	77600.0	26820.0	50780.0	25.39
06/23/20	CSD	114210	M-80560	2311022	77680.0	28660.0	49020.0	24.51
06/23/20	CSD	114229	M-80579	2311022	78020.0	28380.0	49640.0	24.82
06/23/20	CSD	114219	M-80569	2311022	76960.0	28360.0	48600.0	24.30
06/23/20	CSD	114228	M-80578	2311022	77160.0	28960.0	48200.0	24.10
06/23/20	CSD	114230	M-80580	2311022	79180.0	28460.0	50720.0	25.36
06/23/20	CSD	114209	M-80559	2311022	78820.0	29480.0	49340.0	24.67
06/23/20	CSD	114224	M-80574	2311022	78240.0	28860.0	49380.0	24.69
06/23/20	CSD	114223	M-80573	2311022	77100.0	27820.0	49280.0	24.64
06/23/20	CSD	114222	M-80572	2311022	77360.0	28260.0	49100.0	24.55
06/23/20	CSD	114221	M-80571	2311022	78740.0	27760.0	50980.0	25.49
06/23/20	CSD		M-80576	2311022	77300.0	25000.0	52300.0	26.15
06/23/20	CSD	114236	M-80602	2311022	75740.0	29120.0	46620.0	23.31
06/23/20	CSD	114220	M-80570	2311022	77420.0	29120.0	48300.0	24.15
06/23/20	CSD	114225	M-80575	2311022	77320.0	29620.0	47700.0	23.85
06/24/20	CSD	114242	M-80608	2311022	77840.0	29640.0	48200.0	24.10
06/24/20	CSD	114238	M-80604	2311022	77180.0	28440.0	48740.0	24.37
06/24/20	CSD	114237	M-80603	2311022	76900.0	28420.0	48480.0	24.24
06/24/20	CSD	114235	M-80601	2311022	78100.0	27240.0	50860.0	25.43
06/24/20	CSD	114245	M-80600	2311022	78860.0	28220.0	50640.0	25.32
06/24/20	CSD	114234	M-80599	2311022	78000.0	27300.0	50700.0	25.35
06/24/20	CSD	114233	M-80598	2311022	77860.0	26960.0	50900.0	25.45
06/24/20	CSD	114232	M-80597	2311022	78180.0	28260.0	49920.0	24.96
06/24/20	CSD	114231	M-80596	2311022	79600.0	29460.0	50140.0	25.07
06/24/20	CSD	114239	M-80605	2311022	78600.0	28620.0	49980.0	24.99
06/24/20	CSD	114240	M-80606	2311022	78380.0	27580.0	50800.0	25.40
06/24/20	CSD	114241	M-80607	2311022	77200.0	27000.0	50200.0	25.10
06/24/20	CSD		M-80614	2311022	77980.0	27900.0	50080.0	25.04
06/24/20	CSD	114248	M-80613	2311022	78260.0	28460.0	49800.0	24.90
06/24/20	CSD	114247	M-80612	2311022	77960.0	29080.0	48880.0	24.44
06/24/20	CSD	114244	M-80610	2311022	80900.0	27860.0	53040.0	26.52
06/24/20	CSD	114246	M-80611	2311022	78220.0	28020.0	50200.0	25.10
06/24/20	CSD	114243	M-80609	2311022	79400.0	27760.0	51640.0	25.82
06/25/20	CSD	114250	M-80632	2311022	78080.0	28040.0	50040.0	25.02
06/25/20	CSD	114251	M-80633	2311022	78200.0	29440.0	48760.0	24.38
06/25/20	CSD	114286	M-80683	2311022	76840.0	28440.0	48400.0	24.20
06/25/20	CSD	114285	M-80682	2311022	78480.0	28360.0	50120.0	25.06
06/25/20	CSD	115259	M-80641	2311022	77080.0	28400.0	48680.0	24.34

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06/25/20	CSD	114260	M-80649	2311022	74740.0	28400.0	46340.0	23.17
06/25/20	CSD	114268	M-80648	2311022	79200.0	27260.0	51940.0	25.97
06/25/20	CSD	114265	M-80647	2311022	77640.0	29540.0	48100.0	24.05
06/25/20	CSD	114264	M-80646	2311022	69960.0	28260.0	41700.0	20.85
06/25/20	CSD	114263	M-80645	2311022	78280.0	27800.0	50480.0	25.24
06/25/20	CSD	114262	M-80644	2311022	78700.0	28920.0	49780.0	24.89
06/25/20	CSD	114261	M-80643	2311022	78380.0	27880.0	50500.0	25.25
06/25/20	CSD	114260	M-80642	2311022	76280.0	28440.0	47840.0	23.92
06/25/20	CSD	114258	M-80640	2311022	78120.0	27540.0	50580.0	25.29
06/25/20	CSD	114257	M-80639	2311022	78740.0	27880.0	50860.0	25.43
06/25/20	CSD	114256	M-80638	2311022	78600.0	29120.0	49480.0	24.74
06/25/20	CSD	114255	M-80637	2311022	77180.0	27140.0	50040.0	25.02
06/25/20	CSD	114254	M-80636	2311022	78260.0	27220.0	51040.0	25.52
06/25/20	CSD	114253	M-80635	2311022	78300.0	27000.0	51300.0	25.65
06/25/20	CSD	114252	M-80634	2311022	78200.0	27920.0	50280.0	25.14
06/25/20	CSD	114267	M-80650	2311022	78920.0	29160.0	49760.0	24.88
06/26/20	CSD	114280	M-80677	2311022	76780.0	27900.0	48880.0	24.44
06/26/20	CSD	114275	M-80672	2311022	78450.0	28880.0	49570.0	24.79
06/26/20	CSD	114269	M-80666	2311022	77800.0	29520.0	48280.0	24.14
06/26/20	CSD	115174	M-80673	2311022	78180.0	28360.0	49820.0	24.91
06/26/20	CSD	114277	M-80674	2311022	76100.0	27340.0	48760.0	24.38
06/26/20	CSD	114278	M-80675	2311022	77660.0	27580.0	50080.0	25.04
06/26/20	CSD	114279	M-80676	2311022	77600.0	28360.0	49240.0	24.62
06/26/20	CSD	114274	M-80671	2311022	78420.0	26880.0	51540.0	25.77
06/26/20	CSD	114281	M-80678	2311022	78460.0	26980.0	51480.0	25.74
06/26/20	CSD	114282	M-80679	2311022	78520.0	27820.0	50700.0	25.35
06/26/20	CSD	114283	M-80680	2311022	79280.0	28800.0	50480.0	25.24
06/26/20	CSD	114284	M-80681	2311022	77600.0	28300.0	49300.0	24.65
06/26/20	CSD	114273	M-80670	2311022	79080.0	27180.0	51900.0	25.95
06/26/20	CSD	114272	M-80669	2311022	78500.0	28120.0	50380.0	25.19
06/26/20	CSD	114287	M-80684	2311022	76980.0	27420.0	49560.0	24.78
06/26/20	CSD	114271	M-80668	2311022	79320.0	27000.0	52320.0	26.16
06/26/20	CSD	114270	M-80667	2311022	77940.0	27940.0	50000.0	25.00
06/29/20	CSD	114305	M-80820	2311022	78260.0	28360.0	49900.0	24.95
06/29/20	CSD	114306	M-80747	2311022	78660.0	28100.0	50560.0	25.28
06/29/20	CSD	114303	M-80744	2311022	78320.0	27740.0	50580.0	25.29
06/29/20	CSD	114302	M-80743	2311022	78640.0	29000.0	49640.0	24.82
06/29/20	CSD	114301	M-80742	2311022	78340.0	28400.0	49940.0	24.97
06/29/20	CSD	114300	M-80741	2311022	78900.0	27880.0	51020.0	25.51
06/29/20	CSD	114299	M-80740	2311022	78440.0	28460.0	49980.0	24.99

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
06/29/20	CSD	114298	M-80739	2311022	78180.0	28180.0	50000.0	25.00
06/29/20	CSD	114297	M-80738	2311022	78560.0	26760.0	51800.0	25.90
06/29/20	CSD	114296	M-80737	2311022	78460.0	27740.0	50720.0	25.36
06/29/20	CSD		M-80736	2311022	78300.0	27480.0	50820.0	25.41
06/29/20	CSD	114280	M-80729	2311022	78280.0	29460.0	48820.0	24.41
06/29/20	CSD	114289	M-80730	2311022	78280.0	27220.0	51060.0	25.53
06/29/20	CSD	114290	M-80731	2311022	78440.0	27000.0	51440.0	25.72
06/29/20	CSD	114291	M-80732	2311022	78300.0	28900.0	49400.0	24.70
06/29/20	CSD	114292	M-80733	2311022	76320.0	27500.0	48820.0	24.41
06/29/20	CSD	114293	M-80734	2311022	77180.0	28380.0	48800.0	24.40
06/29/20	CSD	114294	M-80735	2311022	78340.0	27520.0	50820.0	25.41
06/29/20	CSD	114304	M-80745	2311022	79260.0	28480.0	50780.0	25.39
06/30/20	CSD	114324	M-80781	2311022	77800.0	28400.0	49400.0	24.70
06/30/20	CSD	114310	M-80767	2311022	76680.0	28000.0	48680.0	24.34
06/30/20	CSD	114307	M-80764	2311022	78900.0	29440.0	49460.0	24.73
06/30/20	CSD	114311	M-80768	2311022	78500.0	28020.0	50480.0	25.24
06/30/20	CSD	114312	M-80769	2311022	78740.0	28920.0	49820.0	24.91
06/30/20	CSD	114313	M-80770	2311022	78500.0	27160.0	51340.0	25.67
06/30/20	CSD	114314	M-80771	2311022	78100.0	27600.0	50500.0	25.25
06/30/20	CSD	375709	M-80772	2311022	77040.0	28360.0	48680.0	24.34
06/30/20	CSD	114316	M-80773	2311022	70060.0	29360.0	40700.0	20.35
06/30/20	CSD	114317	M-80774	2311022	78220.0	28360.0	49860.0	24.93
06/30/20	CSD	114318	M-80775	2311022	77180.0	29340.0	47840.0	23.92
06/30/20	CSD	114319	M-80776	2311022	78160.0	27780.0	50380.0	25.19
06/30/20	CSD	114320	M-80777	2311022	77160.0	28340.0	48820.0	24.41
06/30/20	CSD	114321	M-80778	2311022	78920.0	28700.0	50220.0	25.11
06/30/20	CSD	114322	M-80779	2311022	77980.0	27860.0	50120.0	25.06
06/30/20	CSD	114309	M-80766	2311022	79260.0	26960.0	52300.0	26.15
06/30/20	CSD	114308	M-80765	2311022	77780.0	28100.0	49680.0	24.84
06/30/20	CSD	114325	M-80782	2311022	77560.0	27120.0	50440.0	25.22
06/30/20	CSD	114326	M-80783	2311022	77300.0	28260.0	49040.0	24.52
06/30/20	CSD	114327	M-80784	2311022	78480.0	27580.0	50900.0	25.45
06/30/20	CSD	114323	M-80780	2311022	78600.0	27980.0	50620.0	25.31

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Biosolids Report to

City of San Diego

For July 2020

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Summary for City of San Diego
July 2020

Field 2311022 received 443 loads totaling 10911.135 tons of Biosolids between 07/01/20 and 07/31/20

Composition analysis dated 04/08/20 was used to determine the makeup of the biosolids loaded between 07/01/20 and 07/31/20

Solids %: 28.8000
Composition PPM (mg/kg)
Arsenic (As): 4.6100
Cadmium (Cd): 0.0000
Chromium (Cr): 52.4000
Copper (Cu): 550.0000
Lead (Pb): 11.2000
Mercury (Hg): 0.6030
Molybdenum (Mo): 14.6000
Nickel (Ni): 21.0000
Selenium (Se): 6.4600
Zinc (Zn): 880.0000
Organic Nitrogen (OrgN): 50400.0000
Ammoniacal Nitrogen (NH3-N): 6400.0000
Nitrate Nitrogen (NO3-N): 0.0000

AG TECH, LLC
3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Application Summary for Field 2311022
City of San Diego - July 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: Desert Ridge Farms Pivot: N Field: 2311022 Area: 60.00 Acres = 24.28 Hectares
Location: S2 NW4 T11S R23W SEC 02 GSRBM , Yuma , AZ
Latitude: N 32 30 19.7 Longitude: W 114 34 31.1

443 loads of Biosolids were applied to field 2311022 from 07/01/20 to 07/31/20
Application Method: Incorporation

Analysis Date(s): 04/08/20

Solids Percentage: 28.8%

Wet Biosolids Applied:	10911.14 Tons	9898.42 Metric Tons
Dry Biosolids Applied:	3142.41 Tons	2850.74 Metric Tons
Wet Application Rate:	181.85 Tons/Acre	407.66 Metric Tons/ha
Dry Application Rate:	52.37 Tons/Acre	117.41 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	4.61	0.54	0.48
Cadmium (Cd):	0.00	0.00	0.00
Chromium (Cr):	0	6.15	5.49
Copper (Cu):	550.00	64.57	57.61
Lead (Pb):	11.20	1.31	1.17
Mercury (Hg):	0.60	0.07	0.06
Molybdenum (Mo):	14.60	1.71	1.53
Nickel (Ni):	21.00	2.47	2.20
Selenium (Se):	6.46	0.76	0.68
Zinc (Zn):	880.00	103.32	92.18
Organic Nitrogen (OrgN):	50,400.00	5,917.24	5,279.23
Ammoniacal Nitrogen (NH3-N):	6,400.00	751.40	670.38
Nitrate Nitrogen (NO3-N):	0.00	0.00	0.00
Total Kjeldahl Nitrogen (TKN):	56,800.00	756.4	675.38

AG TECH, LLC

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City of San Diego July 2020 Haul Logs Page 1

Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
07/01/20	CSD	114328	M-80836	2311022	77340.0	29460.0	47880.0	23.94
07/01/20	CSD	114339	M-80847	2311022	78460.0	27860.0	50600.0	25.30
07/01/20	CSD	114340	M-80848	2311022	77520.0	28360.0	49160.0	24.58
07/01/20	CSD	114341	M-80849	2311022	77340.0	27900.0	49440.0	24.72
07/01/20	CSD	114342	M-80850	2311022	77180.0	28300.0	48880.0	24.44
07/01/20	CSD	114343	M-80851	2311022	76880.0	28460.0	48420.0	24.21
07/01/20	CSD	114344	M-80852	2311022	77740.0	27800.0	49940.0	24.97
07/01/20	CSD	114343	M-80853	2311022	76780.0	28400.0	48380.0	24.19
07/01/20	CSD	114346	M-80854	2311022	77180.0	27160.0	50020.0	25.01
07/01/20	CSD	114338	M-80846	2311022	75740.0	28360.0	47380.0	23.69
07/01/20	CSD	114337	M-80845	2311022	78040.0	27540.0	50500.0	25.25
07/01/20	CSD	114329	M-80837	2311022	76800.0	28100.0	48700.0	24.35
07/01/20	CSD	114330	M-80838	2311022	76900.0	27980.0	48920.0	24.46
07/01/20	CSD	114331	M-80839	2311022	76940.0	27040.0	49900.0	24.95
07/01/20	CSD		M-80840	2311022	77380.0	27280.0	50100.0	25.05
07/01/20	CSD	114333	M-80841	2311022	77160.0	28160.0	49000.0	24.50
07/01/20	CSD	114334	M-80842	2311022	74480.0	28900.0	45580.0	22.79
07/01/20	CSD	114335	M-80843	2311022	73620.0	28380.0	45240.0	22.62
07/01/20	CSD	114336	M-80844	2311022	77860.0	28360.0	49500.0	24.75
07/02/20	CSD	114358	M-80883	2311022	77200.0	28520.0	48680.0	24.34
07/02/20	CSD	114359	M-80884	2311022	78560.0	27760.0	50800.0	25.40
07/02/20	CSD	114360	M-80885	2311022	77960.0	28400.0	49560.0	24.78
07/02/20	CSD	114361	M-80886	2311022	78400.0	28280.0	50120.0	25.06
07/02/20	CSD	114362	M-80887	2311022	79420.0	27880.0	51540.0	25.77
07/02/20	CSD	114363	M-80888	2311022	78460.0	28380.0	50080.0	25.04
07/02/20	CSD	114364	M-80889	2311022	79400.0	28660.0	50740.0	25.37
07/02/20	CSD	114365	M-80890	2311022	79220.0	28300.0	50920.0	25.46
07/02/20	CSD	114366	M-80891	2311022	77800.0	27220.0	50580.0	25.29
07/02/20	CSD	114337	M-80882	2311022	77860.0	27540.0	50320.0	25.16
07/02/20	CSD	114356	M-80881	2311022	76920.0	28340.0	48580.0	24.29
07/02/20	CSD	114347	M-80872	2311022	78440.0	29460.0	48980.0	24.49
07/02/20	CSD	114348	M-80873	2311022	79240.0	28100.0	51140.0	25.57
07/02/20	CSD	114349	M-80874	2311022	77740.0	27960.0	49780.0	24.89
07/02/20	CSD	114350	M-80875	2311022	78340.0	27940.0	50400.0	25.20
07/02/20	CSD	114351	M-80876	2311022	78500.0	28300.0	50200.0	25.10
07/02/20	CSD	114352	M-80877	2311022	75200.0	28500.0	46700.0	23.35
07/02/20	CSD	114353	M-80878	2311022	76160.0	28880.0	47280.0	23.64
07/02/20	CSD	114354	M-80879	2311022	78460.0	28200.0	50260.0	25.13
07/02/20	CSD	114355	M-80880	2311022	77840.0	28880.0	48960.0	24.48
07/06/20	CSD	114378	M-80973	2311022	78200.0	28280.0	49920.0	24.96

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
07/06/20	CSD	114379	M-80974	2311022	78420.0	28420.0	50000.0	25.00
07/06/20	CSD	114380	M-80975	2311022	77260.0	27800.0	49460.0	24.73
07/06/20	CSD	114381	M-80976	2311022	77940.0	27160.0	50780.0	25.39
07/06/20	CSD	114382	M-80977	2311022	78660.0	28620.0	50040.0	25.02
07/06/20	CSD	114383	M-80978	2311022	77940.0	28420.0	49520.0	24.76
07/06/20	CSD	114384	M-80979	2311022	78440.0	27920.0	50520.0	25.26
07/06/20	CSD	114383	M-80980	2311022	77300.0	28360.0	48940.0	24.47
07/06/20	CSD	114356	M-80981	2311022	77280.0	28340.0	48940.0	24.47
07/06/20	CSD	114377	M-80972	2311022	78880.0	30060.0	48820.0	24.41
07/06/20	CSD	114376	M-80971	2311022	75980.0	28780.0	47200.0	23.60
07/06/20	CSD	114367	M-80962	2311022	78460.0	29360.0	49100.0	24.55
07/06/20	CSD	114368	M-80963	2311022	77340.0	28040.0	49300.0	24.65
07/06/20	CSD	114369	M-80964	2311022	78100.0	26940.0	51160.0	25.58
07/06/20	CSD	114370	M-80965	2311022	77180.0	27220.0	49960.0	24.98
07/06/20	CSD	114371	M-80966	2311022	78340.0	28600.0	49740.0	24.87
07/06/20	CSD	114372	M-80967	2311022	76020.0	28960.0	47060.0	23.53
07/06/20	CSD	114373	M-80968	2311022	78620.0	28000.0	50620.0	25.31
07/06/20	CSD	114374	M-80969	2311022	77780.0	28880.0	48900.0	24.45
07/06/20	CSD	114375	M-80970	2311022	77680.0	28300.0	49380.0	24.69
07/07/20	CSD	114400	M-81009	2311022	77160.0	26920.0	50240.0	25.12
07/07/20	CSD	114401	M-81010	2311022	77080.0	28260.0	48820.0	24.41
07/07/20	CSD	114402	M-81011	2311022	77340.0	27840.0	49500.0	24.75
07/07/20	CSD	114403	M-81012	2311022	77140.0	27780.0	49360.0	24.68
07/07/20	CSD	114404	M-81013	2311022	77720.0	27760.0	49960.0	24.98
07/07/20	CSD	114405	M-81014	2311022	77620.0	28620.0	49000.0	24.50
07/07/20	CSD	114406	M-81015	2311022	77820.0	28400.0	49420.0	24.71
07/07/20	CSD	114407	M-81016	2311022	75060.0	28860.0	46200.0	23.10
07/07/20	CSD		M-81007	2311022	79220.0	27140.0	52080.0	26.04
07/07/20	CSD	114399	M-81008	2311022	75900.0	28380.0	47520.0	23.76
07/07/20	CSD	114397	M-81006	2311022	75740.0	28820.0	46920.0	23.46
07/07/20	CSD	114388	M-80997	2311022	77400.0	28040.0	49360.0	24.68
07/07/20	CSD	114387	M-80996	2311022	77360.0	29420.0	47940.0	23.97
07/07/20	CSD	114389	M-80998	2311022	70480.0	27800.0	42680.0	21.34
07/07/20	CSD	114390	M-80999	2311022	77980.0	28140.0	49840.0	24.92
07/07/20	CSD	114391	M-81000	2311022	77580.0	28860.0	48720.0	24.36
07/07/20	CSD	114392	M-81001	2311022	77520.0	28340.0	49180.0	24.59
07/07/20	CSD	114393	M-81002	2311022	66500.0	28280.0	38220.0	19.11
07/07/20	CSD	114394	M-81003	2311022	66020.0	27380.0	38640.0	19.32
07/07/20	CSD	114395	M-81004	2311022	79040.0	27160.0	51880.0	25.94
07/07/20	CSD	114396	M-81005	2311022	77440.0	27220.0	50220.0	25.11

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
07/08/20	CSD	114420	M-81045	2311022	79140.0	28220.0	50920.0	25.46
07/08/20	CSD	114421	M-81046	2311022	78880.0	29160.0	49720.0	24.86
07/08/20	CSD	114422	M-81047	2311022	79520.0	28380.0	51140.0	25.57
07/08/20	CSD	114423	M-81048	2311022	79040.0	28480.0	50560.0	25.28
07/08/20	CSD	114424	M-81049	2311022	77960.0	27320.0	50640.0	25.32
07/08/20	CSD	114425	M-81050	2311022	78380.0	28600.0	49780.0	24.89
07/08/20	CSD		M-81043	2311022	77700.0	27500.0	50200.0	25.10
07/08/20	CSD	114419	M-81044	2311022	78940.0	28900.0	50040.0	25.02
07/08/20	CSD	114417	M-81042	2311022	78640.0	27400.0	51240.0	25.62
07/08/20	CSD	114408	M-81033	2311022	77980.0	29460.0	48520.0	24.26
07/08/20	CSD	114409	M-81034	2311022	78580.0	27180.0	51400.0	25.70
07/08/20	CSD	114410	M-81035	2311022	77880.0	28120.0	49760.0	24.88
07/08/20	CSD	114411	M-81036	2311022	76780.0	27680.0	49100.0	24.55
07/08/20	CSD	114412	M-81037	2311022	78740.0	28860.0	49880.0	24.94
07/08/20	CSD	114413	M-81038	2311022	76700.0	28300.0	48400.0	24.20
07/08/20	CSD	114414	M-81039	2311022	78860.0	28280.0	50580.0	25.29
07/08/20	CSD	114415	M-81040	2311022	76720.0	28760.0	47960.0	23.98
07/08/20	CSD	114416	M-81041	2311022	76340.0	28340.0	48000.0	24.00
07/09/20	CSD	114440	M-81078	2311022	78000.0	28700.0	49300.0	24.65
07/09/20	CSD	114441	M-81079	2311022	78440.0	29200.0	49240.0	24.62
07/09/20	CSD	114442	M-81080	2311022	78320.0	27300.0	51020.0	25.51
07/09/20	CSD	114443	M-81081	2311022	78780.0	27840.0	50940.0	25.47
07/09/20	CSD	114444	M-81082	2311022	78060.0	34480.0	43580.0	21.79
07/09/20	CSD	114445	M-81083	2311022	79000.0	28600.0	50400.0	25.20
07/09/20	CSD		M-81075	2311022	78140.0	28280.0	49860.0	24.93
07/09/20	CSD	114439	M-81077	2311022	79640.0	28260.0	51380.0	25.69
07/09/20	CSD	114438	M-81076	2311022	76240.0	28440.0	47800.0	23.90
07/09/20	CSD	114436	M-81074	2311022	78180.0	27580.0	50600.0	25.30
07/09/20	CSD	114426	M-81064	2311022	78100.0	29420.0	48680.0	24.34
07/09/20	CSD	114427	M-81065	2311022	77940.0	28060.0	49880.0	24.94
07/09/20	CSD	114428	M-81066	2311022	78240.0	27160.0	51080.0	25.54
07/09/20	CSD	114429	M-81067	2311022	77020.0	27540.0	49480.0	24.74
07/09/20	CSD	114430	M-81068	2311022	78380.0	28140.0	50240.0	25.12
07/09/20	CSD	114431	M-81069	2311022	78320.0	28920.0	49400.0	24.70
07/09/20	CSD	114432	M-81070	2311022	78200.0	28820.0	49380.0	24.69
07/09/20	CSD	114433	M-81071	2311022	76900.0	28300.0	48600.0	24.30
07/09/20	CSD	114434	M-81072	2311022	78140.0	28100.0	50040.0	25.02
07/09/20	CSD	114435	M-81073	2311022	78360.0	28280.0	50080.0	25.04
07/10/20	CSD	114459	M-81110	2311022	76460.0	28420.0	48040.0	24.02
07/10/20	CSD	114460	M-81111	2311022	75800.0	28280.0	47520.0	23.76

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
07/10/20	CSD	114461	M-81112	2311022	76960.0	28320.0	48640.0	24.32
07/10/20	CSD	114462	M-81113	2311022	77780.0	26880.0	50900.0	25.45
07/10/20	CSD	114463	M-81114	2311022	75760.0	26400.0	49360.0	24.68
07/10/20	CSD	114464	M-81115	2311022	78920.0	28880.0	50040.0	25.02
07/10/20	CSD	114465	M-81116	2311022	77920.0	28600.0	49320.0	24.66
07/10/20	CSD	11458	M-81109	2311022	74900.0	28700.0	46200.0	23.10
07/10/20	CSD	114457	M-81108	2311022	79000.0	27540.0	51460.0	25.73
07/10/20	CSD	114446	M-81097	2311022	76560.0	29440.0	47120.0	23.56
07/10/20	CSD	114447	M-81098	2311022	77060.0	28080.0	48980.0	24.49
07/10/20	CSD	114448	M-81099	2311022	77940.0	28120.0	49820.0	24.91
07/10/20	CSD	114449	M-81100	2311022	78180.0	27560.0	50620.0	25.31
07/10/20	CSD	114450	M-81101	2311022	78880.0	28120.0	50760.0	25.38
07/10/20	CSD	114451	M-81102	2311022	78640.0	27940.0	50700.0	25.35
07/10/20	CSD	114452	M-81103	2311022	75780.0	28400.0	47380.0	23.69
07/10/20	CSD	114453	M-81104	2311022	78020.0	28920.0	49100.0	24.55
07/10/20	CSD	114454	M-81105	2311022	78860.0	28300.0	50560.0	25.28
07/10/20	CSD	114455	M-81106	2311022	78240.0	28880.0	49360.0	24.68
07/10/20	CSD	114456	M-81107	2311022	78380.0	29200.0	49180.0	24.59
07/11/20	CSD		M-81137	2311022	78500.0	28500.0	50000.0	25.00
07/11/20	CSD	144472	M-81139	2311022	77760.0	28400.0	49360.0	24.68
07/11/20	CSD	114471	M-81138	2311022	78600.0	26980.0	51620.0	25.81
07/11/20	CSD	114466	M-81133	2311022	76100.0	27540.0	48560.0	24.28
07/11/20	CSD	114467	M-81134	2311022	78240.0	29240.0	49000.0	24.50
07/11/20	CSD	114468	M-81135	2311022	76240.0	28300.0	47940.0	23.97
07/11/20	CSD	114469	M-81136	2311022	78920.0	27100.0	51820.0	25.91
07/13/20	CSD	114484	M-81169	2311022	75840.0	28360.0	47480.0	23.74
07/13/20	CSD	114485	M-81170	2311022	78140.0	28220.0	49920.0	24.96
07/13/20	CSD	114486	M-81171	2311022	78180.0	27140.0	51040.0	25.52
07/13/20	CSD	114487	M-81172	2311022	78820.0	28800.0	50020.0	25.01
07/13/20	CSD	114488	M-81173	2311022	78180.0	29200.0	48980.0	24.49
07/13/20	CSD	114490	M-81175	2311022	78000.0	28300.0	49700.0	24.85
07/13/20	CSD	114483	M-81168	2311022	77920.0	27000.0	50920.0	25.46
07/13/20	CSD	114489	M-81174	2311022	78880.0	28380.0	50500.0	25.25
07/13/20	CSD	114482	M-81167	2311022	78340.0	27680.0	50660.0	25.33
07/13/20	CSD	114481	M-81166	2311022	78640.0	27620.0	51020.0	25.51
07/13/20	CSD	114473	M-81158	2311022	78280.0	29400.0	48880.0	24.44
07/13/20	CSD	114474	M-81159	2311022	78100.0	27020.0	51080.0	25.54
07/13/20	CSD	114475	M-81160	2311022	78240.0	27500.0	50740.0	25.37
07/13/20	CSD	114476	M-81161	2311022	78140.0	28040.0	50100.0	25.05
07/13/20	CSD	114477	M-81162	2311022	78980.0	27060.0	51920.0	25.96

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
07/13/20	CSD	114478	M-81163	2311022	77800.0	28880.0	48920.0	24.46
07/13/20	CSD	114479	M-81164	2311022	78600.0	28860.0	49740.0	24.87
07/13/20	CSD	114480	M-81165	2311022	76840.0	28320.0	48520.0	24.26
07/14/20	CSD	114503	M-81203	2311022	78500.0	28240.0	50260.0	25.13
07/14/20	CSD	114504	M-81204	2311022	77820.0	27160.0	50660.0	25.33
07/14/20	CSD	114505	M-81205	2311022	75840.0	27140.0	48700.0	24.35
07/14/20	CSD	114506	M-81206	2311022	77400.0	28600.0	48800.0	24.40
07/14/20	CSD	114507	M-81207	2311022	76920.0	28380.0	48540.0	24.27
07/14/20	CSD	114508	M-81208	2311022	77420.0	28400.0	49020.0	24.51
07/14/20	CSD		M-81202	2311022	75680.0	28340.0	47340.0	23.67
07/14/20	CSD	114501	M-81201	2311022	76660.0	27700.0	48960.0	24.48
07/14/20	CSD	114500	M-81200	2311022	75840.0	27540.0	48300.0	24.15
07/14/20	CSD	114499	M-81199	2311022	75740.0	29160.0	46580.0	23.29
07/14/20	CSD	114491	M-81191	2311022	78000.0	29440.0	48560.0	24.28
07/14/20	CSD	114492	M-81192	2311022	78380.0	27060.0	51320.0	25.66
07/14/20	CSD	114493	M-81193	2311022	67960.0	28260.0	39700.0	19.85
07/14/20	CSD	114494	M-81194	2311022	75860.0	27720.0	48140.0	24.07
07/14/20	CSD	114495	M-81195	2311022	78880.0	28080.0	50800.0	25.40
07/14/20	CSD	114496	M-81196	2311022	77580.0	28960.0	48620.0	24.31
07/14/20	CSD	114497	M-81197	2311022	76920.0	28920.0	48000.0	24.00
07/14/20	CSD	114498	M-81198	2311022	78020.0	28540.0	49480.0	24.74
07/15/20	CSD	114520	M-81237	2311022	76060.0	27000.0	49060.0	24.53
07/15/20	CSD	114521	M-81238	2311022	78080.0	27140.0	50940.0	25.47
07/15/20	CSD	114522	M-81239	2311022	77160.0	28920.0	48240.0	24.12
07/15/20	CSD	114523	M-81240	2311022	78100.0	28540.0	49560.0	24.78
07/15/20	CSD	114524	M-81241	2311022	77680.0	28440.0	49240.0	24.62
07/15/20	CSD	114525	M-81242	2311022	78640.0	28580.0	50060.0	25.03
07/15/20	CSD	114519	M-81236	2311022	78980.0	28240.0	50740.0	25.37
07/15/20	CSD	114518	M-81235	2311022	75210.0	28380.0	46830.0	23.42
07/15/20	CSD	114517	M-81234	2311022	78240.0	27480.0	50760.0	25.38
07/15/20	CSD		M-81226	2311022	78320.0	29420.0	48900.0	24.45
07/15/20	CSD	114510	M-81227	2311022	78140.0	28080.0	50060.0	25.03
07/15/20	CSD	114511	M-81228	2311022	79420.0	28260.0	51160.0	25.58
07/15/20	CSD	114512	M-81229	2311022	78480.0	27620.0	50860.0	25.43
07/15/20	CSD	114513	M-81230	2311022	77520.0	27500.0	50020.0	25.01
07/15/20	CSD	114514	M-81231	2311022	75400.0	28340.0	47060.0	23.53
07/15/20	CSD	114575	M-81232	2311022	78980.0	29100.0	49880.0	24.94
07/15/20	CSD	114516	M-81233	2311022	78700.0	28320.0	50380.0	25.19
07/16/20	CSD	114538	M-81267	2311022	79200.0	28240.0	50960.0	25.48
07/16/20	CSD	114539	M-81268	2311022	77200.0	28440.0	48760.0	24.38

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
07/16/20	CSD	114540	M-81269	2311022	76760.0	28360.0	48400.0	24.20
07/16/20	CSD	114541	M-81270	2311022	78720.0	27140.0	51580.0	25.79
07/16/20	CSD	114542	M-81271	2311022	79120.0	28420.0	50700.0	25.35
07/16/20	CSD	114543	M-81272	2311022	79200.0	28620.0	50580.0	25.29
07/16/20	CSD	114544	M-81273	2311022	79440.0	27260.0	52180.0	26.09
07/16/20	CSD	114537	M-81266	2311022	77780.0	27560.0	50220.0	25.11
07/16/20	CSD	114536	M-81265	2311022	77860.0	28900.0	48960.0	24.48
07/16/20	CSD	114535	M-81264	2311022	75060.0	28340.0	46720.0	23.36
07/16/20	CSD	114526	M-81255	2311022	78380.0	29440.0	48940.0	24.47
07/16/20	CSD	114527	M-81256	2311022	77540.0	28000.0	49540.0	24.77
07/16/20	CSD	114528	M-81257	2311022	78180.0	27620.0	50560.0	25.28
07/16/20	CSD	114529	M-81258	2311022	77620.0	28440.0	49180.0	24.59
07/16/20	CSD	114530	M-81259	2311022	76920.0	27540.0	49380.0	24.69
07/16/20	CSD	114531	M-81260	2311022	77120.0	28320.0	48800.0	24.40
07/16/20	CSD	114532	M-81261	2311022	78020.0	28080.0	49940.0	24.97
07/16/20	CSD	114533	M-81262	2311022	77980.0	29240.0	48740.0	24.37
07/16/20	CSD	114534	M-81263	2311022	78520.0	27600.0	50920.0	25.46
07/17/20	CSD	114555	M-81299	2311022	74840.0	28240.0	46600.0	23.30
07/17/20	CSD	114556	M-81300	2311022	77960.0	28440.0	49520.0	24.76
07/17/20	CSD	119557	M-81301	2311022	77260.0	28620.0	48640.0	24.32
07/17/20	CSD	114558	M-81302	2311022	77180.0	28600.0	48580.0	24.29
07/17/20	CSD	114559	M-81303	2311022	78300.0	28400.0	49900.0	24.95
07/17/20	CSD	114560	M-81304	2311022	74740.0	27140.0	47600.0	23.80
07/17/20	CSD	114554	M-81298	2311022	77160.0	27180.0	49980.0	24.99
07/17/20	CSD	114553	M-81297	2311022	78180.0	28860.0	49320.0	24.66
07/17/20	CSD		M-81289	2311022	77880.0	29420.0	48460.0	24.23
07/17/20	CSD	114546	M-81290	2311022	78220.0	28040.0	50180.0	25.09
07/17/20	CSD	114547	M-81291	2311022	77140.0	28140.0	49000.0	24.50
07/17/20	CSD	114548	M-81292	2311022	77020.0	27640.0	49380.0	24.69
07/17/20	CSD	114549	M-81293	2311022	76140.0	27540.0	48600.0	24.30
07/17/20	CSD	114550	M-81294	2311022	77100.0	27300.0	49800.0	24.90
07/17/20	CSD	114551	M-81295	2311022	78320.0	27680.0	50640.0	25.32
07/17/20	CSD	114552	M-81296	2311022	74760.0	28360.0	46400.0	23.20
07/18/20	CSD	118571	M-81327	2311022	77940.0	28240.0	49700.0	24.85
07/18/20	CSD	114570	M-81326	2311022	74260.0	28320.0	45940.0	22.97
07/18/20	CSD	114569	M-81325	2311022	77320.0	28240.0	49080.0	24.54
07/18/20	CSD	114568	M-81324	2311022	77080.0	27620.0	49460.0	24.73
07/18/20	CSD	114567	M-81323	2311022	75060.0	28380.0	46680.0	23.34
07/18/20	CSD	114566	M-81322	2311022	77480.0	28060.0	49420.0	24.71
07/18/20	CSD	114565	M-81321	2311022	74200.0	28540.0	45660.0	22.83

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07/18/20	CSD	114564	M-81320	2311022	76580.0	27880.0	48700.0	24.35
07/18/20	CSD	114563	M-81319	2311022	75480.0	27520.0	47960.0	23.98
07/18/20	CSD	114562	M-81318	2311022	76960.0	27300.0	49660.0	24.83
07/20/20	CSD	114583	M-81358	2311022	78160.0	28040.0	50120.0	25.06
07/20/20	CSD	114584	M-81359	2311022	78000.0	27660.0	50340.0	25.17
07/20/20	CSD	114585	M-81360	2311022	78020.0	27880.0	50140.0	25.07
07/20/20	CSD	114586	M-81361	2311022	79120.0	27620.0	51500.0	25.75
07/20/20	CSD	114587	M-81362	2311022	77320.0	27360.0	49960.0	24.98
07/20/20	CSD	114588	M-81363	2311022	78780.0	26880.0	51900.0	25.95
07/20/20	CSD	114582	M-81357	2311022	78340.0	28600.0	49740.0	24.87
07/20/20	CSD	114581	M-81356	2311022	78000.0	28080.0	49920.0	24.96
07/20/20	CSD	114580	M-81355	2311022	75380.0	28000.0	47380.0	23.69
07/20/20	CSD	114573	M-81348	2311022	77380.0	27240.0	50140.0	25.07
07/20/20	CSD	114572	M-81347	2311022	77940.0	29340.0	48600.0	24.30
07/20/20	CSD	114574	M-81349	2311022	76120.0	27840.0	48280.0	24.14
07/20/20	CSD	114575	M-81350	2311022	78340.0	28060.0	50280.0	25.14
07/20/20	CSD	114576	M-81351	2311022	74960.0	28300.0	46660.0	23.33
07/20/20	CSD	114577	M-81352	2311022	79160.0	28920.0	50240.0	25.12
07/20/20	CSD	114578	M-81353	2311022	77740.0	28620.0	49120.0	24.56
07/20/20	CSD	114579	M-81354	2311022	77960.0	27500.0	50460.0	25.23
07/21/20	CSD	114600	M-81390	2311022	78680.0	28040.0	50640.0	25.32
07/21/20	CSD	114601	M-81391	2311022	75260.0	28520.0	46740.0	23.37
07/21/20	CSD	114602	M-81392	2311022	78820.0	26680.0	52140.0	26.07
07/21/20	CSD	114603	M-81393	2311022	78360.0	28440.0	49920.0	24.96
07/21/20	CSD	114604	M-81394	2311022	78280.0	26960.0	51320.0	25.66
07/21/20	CSD	114605	M-81395	2311022	77940.0	28020.0	49920.0	24.96
07/21/20	CSD	114599	M-81389	2311022	78500.0	27860.0	50640.0	25.32
07/21/20	CSD	114598	M-81388	2311022	78000.0	28600.0	49400.0	24.70
07/21/20	CSD	114597	M-81387	2311022	78640.0	27560.0	51080.0	25.54
07/21/20	CSD	114589	M-81379	2311022	78300.0	29440.0	48860.0	24.43
07/21/20	CSD	114590	M-81380	2311022	78000.0	27040.0	50960.0	25.48
07/21/20	CSD	114591	M-81381	2311022	76640.0	28760.0	47880.0	23.94
07/21/20	CSD	114592	M-81382	2311022	75820.0	27680.0	48140.0	24.07
07/21/20	CSD	114593	M-81383	2311022	78180.0	28100.0	50080.0	25.04
07/21/20	CSD	114594	M-81384	2311022	75920.0	28080.0	47840.0	23.92
07/21/20	CSD	114595	M-81385	2311022	78600.0	28900.0	49700.0	24.85
07/21/20	CSD	114596	M-81386	2311022	78080.0	28060.0	50020.0	25.01
07/22/20	CSD	114618	M-81422	2311022	77940.0	28680.0	49260.0	24.63
07/22/20	CSD	114619	M-81423	2311022	77740.0	28140.0	49600.0	24.80
07/22/20	CSD	114620	M-81424	2311022	77080.0	28120.0	48960.0	24.48

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07/22/20	CSD	114621	M-81425	2311022	77160.0	28720.0	48440.0	24.22
07/22/20	CSD	114622	M-81426	2311022	78380.0	28560.0	49820.0	24.91
07/22/20	CSD	114623	M-81427	2311022	76880.0	28620.0	48260.0	24.13
07/22/20	CSD	114624	M-81428	2311022	77720.0	26960.0	50760.0	25.38
07/22/20	CSD	114617	M-81421	2311022	77620.0	28660.0	48960.0	24.48
07/22/20	CSD	114616	M-81420	2311022	78280.0	28300.0	49980.0	24.99
07/22/20	CSD	114615	M-81419	2311022	78860.0	28280.0	50580.0	25.29
07/22/20	CSD	114607	M-81411	2311022	76980.0	27800.0	49180.0	24.59
07/22/20	CSD	114606	M-81410	2311022	77160.0	29480.0	47680.0	23.84
07/22/20	CSD	114608	M-81412	2311022	77700.0	27300.0	50400.0	25.20
07/22/20	CSD	114609	M-81413	2311022	72920.0	28580.0	44340.0	22.17
07/22/20	CSD	114610	M-81414	2311022	75840.0	27980.0	47860.0	23.93
07/22/20	CSD	114611	M-81415	2311022	76600.0	26740.0	49860.0	24.93
07/22/20	CSD	114612	M-81416	2311022	78720.0	28120.0	50600.0	25.30
07/22/20	CSD	114613	M-81417	2311022	78140.0	28940.0	49200.0	24.60
07/22/20	CSD	114614	M-81418	2311022	77220.0	27580.0	49640.0	24.82
07/23/20	CSD	114638	M-81454	2311022	78060.0	28280.0	49780.0	24.89
07/23/20	CSD	114637	M-81455	2311022	77320.0	28720.0	48600.0	24.30
07/23/20	CSD	114639	M-81456	2311022	78420.0	28980.0	49440.0	24.72
07/23/20	CSD	114640	M-81457	2311022	77260.0	27040.0	50220.0	25.11
07/23/20	CSD	114641	M-81458	2311022	77180.0	28680.0	48500.0	24.25
07/23/20	CSD	114642	M-81459	2311022	76880.0	30000.0	46880.0	23.44
07/23/20	CSD	114643	M-81460	2311022	77940.0	27900.0	50040.0	25.02
07/23/20	CSD	114636	M-81453	2311022	77240.0	27120.0	50120.0	25.06
07/23/20	CSD	114635	M-81452	2311022	78040.0	28340.0	49700.0	24.85
07/23/20	CSD	114625	M-81443	2311022	79980.0	28560.0	51420.0	25.71
07/23/20	CSD	114627	M-81444	2311022	77260.0	28220.0	49040.0	24.52
07/23/20	CSD	114628	M-81445	2311022	78460.0	27260.0	51200.0	25.60
07/23/20	CSD	114629	M-81446	2311022	76020.0	27980.0	48040.0	24.02
07/23/20	CSD	114630	M-81447	2311022	75120.0	28780.0	46340.0	23.17
07/23/20	CSD	114631	M-81448	2311022	76780.0	27200.0	49580.0	24.79
07/23/20	CSD	114632	M-81449	2311022	77420.0	28120.0	49300.0	24.65
07/23/20	CSD	114633	M-81450	2311022	76120.0	28940.0	47180.0	23.59
07/23/20	CSD	114634	M-81451	2311022	77220.0	27580.0	49640.0	24.82
07/24/20	CSD	114657	M-81486	2311022	77640.0	27060.0	50580.0	25.29
07/24/20	CSD	114658	M-81487	2311022	77500.0	28280.0	49220.0	24.61
07/24/20	CSD	114660	M-81488	2311022	76720.0	27720.0	49000.0	24.50
07/24/20	CSD	114662	M-81490	2311022	77240.0	28360.0	48880.0	24.44
07/24/20	CSD	114663	M-81491	2311022	75680.0	29100.0	46580.0	23.29
07/24/20	CSD	114659	M-81492	2311022	77600.0	27700.0	49900.0	24.95

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
07/24/20	CSD	114661	M-81489	2311022	78640.0	27200.0	51440.0	25.72
07/24/20	CSD	114656	M-81485	2311022	77740.0	27600.0	50140.0	25.07
07/24/20	CSD	114655	M-81484	2311022	74500.0	28540.0	45960.0	22.98
07/24/20	CSD	114644	M-81475	2311022	78500.0	29560.0	48940.0	24.47
07/24/20	CSD	114646	M-81476	2311022	77960.0	28180.0	49780.0	24.89
07/24/20	CSD	114647	M-81477	2311022	77540.0	27260.0	50280.0	25.14
07/24/20	CSD	114649	M-81478	2311022	78480.0	28780.0	49700.0	24.85
07/24/20	CSD	114650	M-81479	2311022	77640.0	27980.0	49660.0	24.83
07/24/20	CSD	114651	M-81480	2311022	79180.0	28520.0	50660.0	25.33
07/24/20	CSD	114652	M-81481	2311022	77500.0	28940.0	48560.0	24.28
07/24/20	CSD	114653	M-81482	2311022	77500.0	28140.0	49360.0	24.68
07/24/20	CSD	114654	M-81483	2311022	77580.0	28700.0	48880.0	24.44
07/25/20	CSD		M-81514	2311022	75060.0	28440.0	46620.0	23.31
07/25/20	CSD	114672	M-81515	2311022	79440.0	28300.0	51140.0	25.57
07/25/20	CSD	114673	M-81516	2311022	77600.0	27060.0	50540.0	25.27
07/25/20	CSD	114674	M-81517	2311022	78580.0	27720.0	50860.0	25.43
07/25/20	CSD	114675	M-81518	2311022	77460.0	27300.0	50160.0	25.08
07/25/20	CSD	114665	M-81509	2311022	74960.0	27980.0	46980.0	23.49
07/25/20	CSD	114670	M-81513	2311022	77080.0	27140.0	49940.0	24.97
07/25/20	CSD	114667	M-81511	2311022	77760.0	28260.0	49500.0	24.75
07/25/20	CSD	114664	M-81508	2311022	77240.0	28140.0	49100.0	24.55
07/25/20	CSD	114668	M-81507	2311022	77240.0	28840.0	48400.0	24.20
07/25/20	CSD	114669	M-81512	2311022	79220.0	28120.0	51100.0	25.55
07/25/20	CSD	114666	M-81510	2311022	78280.0	27360.0	50920.0	25.46
07/27/20	CSD	11690	M-81549	2311022	77640.0	28700.0	48940.0	24.47
07/27/20	CSD	11691	M-81550	2311022	78100.0	28260.0	49840.0	24.92
07/27/20	CSD	11692	M-81551	2311022	78060.0	28640.0	49420.0	24.71
07/27/20	CSD	11693	M-81552	2311022	77780.0	27160.0	50620.0	25.31
07/27/20	CSD	11681	M-81541	2311022	77260.0	28100.0	49160.0	24.58
07/27/20	CSD	11694	M-81553	2311022	77440.0	26960.0	50480.0	25.24
07/27/20	CSD	11695	M-81554	2311022	78780.0	28320.0	50460.0	25.23
07/27/20	CSD	11689	M-81548	2311022	74200.0	28380.0	45820.0	22.91
07/27/20	CSD	11688	M-81547	2311022	78320.0	27500.0	50820.0	25.41
07/27/20	CSD	11680	M-81540	2311022	76040.0	27900.0	48140.0	24.07
07/27/20	CSD	11678	M-81539	2311022	76440.0	27900.0	48540.0	24.27
07/27/20	CSD	11683	M-81542	2311022	78940.0	27640.0	51300.0	25.65
07/27/20	CSD	11676	M-81538	2311022	78680.0	29420.0	49260.0	24.63
07/27/20	CSD	11684	M-81543	2311022	77200.0	28780.0	48420.0	24.21
07/27/20	CSD	11685	M-81544	2311022	77260.0	26880.0	50380.0	25.19
07/27/20	CSD	11686	M-81545	2311022	77340.0	28920.0	48420.0	24.21

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
07/27/20	CSD	11687	M-81546	2311022	77400.0	28340.0	49060.0	24.53
07/28/20	CSD	11706	M-81578	2311022	77120.0	28960.0	48160.0	24.08
07/28/20	CSD	11705	M-81577	2311022	77620.0	26960.0	50660.0	25.33
07/28/20	CSD	11703	M-81575	2311022	77860.0	28100.0	49760.0	24.88
07/28/20	CSD	11769	M-81574	2311022	77660.0	27820.0	49840.0	24.92
07/28/20	CSD	11701	M-81573	2311022	74800.0	28000.0	46800.0	23.40
07/28/20	CSD	11699	M-81571	2311022	77780.0	28840.0	48940.0	24.47
07/28/20	CSD	11700	M-81572	2311022	78080.0	27480.0	50600.0	25.30
07/28/20	CSD	11716	M-81587	2311022	75020.0	28720.0	46300.0	23.15
07/28/20	CSD	11704	M-81576	2311022	78280.0	28420.0	49860.0	24.93
07/28/20	CSD	11707	M-81579	2311022	76940.0	27900.0	49040.0	24.52
07/28/20	CSD	11709	M-81580	2311022	77660.0	27500.0	50160.0	25.08
07/28/20	CSD	11711	M-81582	2311022	77980.0	28660.0	49320.0	24.66
07/28/20	CSD	11712	M-81583	2311022	77700.0	28320.0	49380.0	24.69
07/28/20	CSD	11713	M-81584	2311022	76780.0	28700.0	48080.0	24.04
07/28/20	CSD	11714	M-81585	2311022	76780.0	27000.0	49780.0	24.89
07/28/20	CSD	11715	M-81586	2311022	77560.0	27920.0	49640.0	24.82
07/28/20	CSD	11697	M-81570	2311022	78040.0	29440.0	48600.0	24.30
07/28/20	CSD	11710	M-81581	2311022	78320.0	28060.0	50260.0	25.13
07/29/20	CSD	114739	M-81619	2311022	76840.0	28660.0	48180.0	24.09
07/29/20	CSD	114726	M-81607	2311022	77880.0	27000.0	50880.0	25.44
07/29/20	CSD	144725	M-81606	2311022	77120.0	28000.0	49120.0	24.56
07/29/20	CSD		M-81605	2311022	76840.0	27780.0	49060.0	24.53
07/29/20	CSD	114723	M-81604	2311022	77820.0	28140.0	49680.0	24.84
07/29/20	CSD		M-81603	2311022	78180.0	27360.0	50820.0	25.41
07/29/20	CSD	114733	M-81613	2311022	77240.0	27540.0	49700.0	24.85
07/29/20	CSD	114721	M-81602	2311022	77260.0	28780.0	48480.0	24.24
07/29/20	CSD	114720	M-81601	2311022	78680.0	27420.0	51260.0	25.63
07/29/20	CSD	114718	M-81600	2311022	77560.0	29520.0	48040.0	24.02
07/29/20	CSD	114727	M-81608	2311022	78180.0	28920.0	49260.0	24.63
07/29/20	CSD	144728	M-81609	2311022	78460.0	27900.0	50560.0	25.28
07/29/20	CSD	114729	M-81610	2311022	77720.0	28180.0	49540.0	24.77
07/29/20	CSD	114740	M-81620	2311022	75860.0	29180.0	46680.0	23.34
07/29/20	CSD	114741	M-81621	2311022	75360.0	28720.0	46640.0	23.32
07/29/20	CSD	114738	M-81618	2311022	77020.0	28740.0	48280.0	24.14
07/29/20	CSD	114737	M-81617	2311022	77560.0	27020.0	50540.0	25.27
07/29/20	CSD	114736	M-81616	2311022	77340.0	28760.0	48580.0	24.29
07/29/20	CSD	114735	M-81615	2311022	73940.0	28700.0	45240.0	22.62
07/29/20	CSD	114734	M-81614	2311022	77400.0	28340.0	49060.0	24.53
07/29/20	CSD	114732	M-81612	2311022	74600.0	27180.0	47420.0	23.71

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
07/29/20	CSD	114731	M-81611	2311022	78100.0	28420.0	49680.0	24.84
07/30/20	CSD	114765	M-81657	2311022	78000.0	27360.0	50640.0	25.32
07/30/20	CSD	114764	M-81656	2311022	79140.0	28720.0	50420.0	25.21
07/30/20	CSD	114763	M-81655	2311022	78160.0	27000.0	51160.0	25.58
07/30/20	CSD	114762	M-81654	2311022	76780.0	28860.0	47920.0	23.96
07/30/20	CSD	114761	M-81653	2311022	74400.0	28700.0	45700.0	22.85
07/30/20	CSD	114760	M-81652	2311022	78520.0	28300.0	50220.0	25.11
07/30/20	CSD	114753	M-81645	2311022	78000.0	27560.0	50440.0	25.22
07/30/20	CSD	114752	M-81644	2311022	77980.0	27720.0	50260.0	25.13
07/30/20	CSD	114751	M-81643	2311022	78260.0	26980.0	51280.0	25.64
07/30/20	CSD	114749	M-81642	2311022	74900.0	28400.0	46500.0	23.25
07/30/20	CSD	114748	M-81641	2311022	78600.0	27340.0	51260.0	25.63
07/30/20	CSD	114746	M-81640	2311022	76800.0	28600.0	48200.0	24.10
07/30/20	CSD	114745	M-81639	2311022	78360.0	28760.0	49600.0	24.80
07/30/20	CSD	114744	M-81638	2311022	77180.0	27960.0	49220.0	24.61
07/30/20	CSD	114742	M-81637	2311022	78720.0	29500.0	49220.0	24.61
07/30/20	CSD	114754	M-81646	2311022	78300.0	28080.0	50220.0	25.11
07/30/20	CSD	114759	M-81651	2311022	78080.0	27860.0	50220.0	25.11
07/30/20	CSD	114758	M-81650	2311022	78300.0	28560.0	49740.0	24.87
07/30/20	CSD	114757	M-81649	2311022	77900.0	27940.0	49960.0	24.98
07/30/20	CSD	114756	M-81648	2311022	78540.0	29220.0	49320.0	24.66
07/30/20	CSD	114755	M-81647	2311022	78460.0	28940.0	49520.0	24.76
07/31/20	CSD	114772	M-81679	2311022	78540.0	28320.0	50220.0	25.11
07/31/20	CSD	114783	M-81692	2311022	77500.0	27400.0	50100.0	25.05
07/31/20	CSD	114786	M-81693	2311022	77060.0	29200.0	47860.0	23.93
07/31/20	CSD	114768	M-81675	2311022	77720.0	27620.0	50100.0	25.05
07/31/20	CSD	114767	M-81674	2311022	77740.0	27780.0	49960.0	24.98
07/31/20	CSD	114766	M-81673	2311022	77980.0	29480.0	48500.0	24.25
07/31/20	CSD		M-81687	2311022	77340.0	27920.0	49420.0	24.71
07/31/20	CSD	114784	M-81691	2311022	75360.0	28840.0	46520.0	23.26
07/31/20	CSD	114783	M-81690	2311022	77400.0	28740.0	48660.0	24.33
07/31/20	CSD	114782	M-81689	2311022	76640.0	29000.0	47640.0	23.82
07/31/20	CSD	114773	M-81680	2311022	77620.0	27760.0	49860.0	24.93
07/31/20	CSD	114771	M-81678	2311022	75800.0	27960.0	47840.0	23.92
07/31/20	CSD	114774	M-81681	2311022	78020.0	27000.0	51020.0	25.51
07/31/20	CSD	114775	M-81682	2311022	77480.0	28940.0	48540.0	24.27
07/31/20	CSD	114776	M-81683	2311022	76720.0	27540.0	49180.0	24.59
07/31/20	CSD	114777	M-81684	2311022	77500.0	27960.0	49540.0	24.77
07/31/20	CSD	114778	M-81685	2311022	76700.0	26980.0	49720.0	24.86
07/31/20	CSD	114769	M-81676	2311022	77400.0	28700.0	48700.0	24.35

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
07/31/20	CSD	114779	M-81686	2311022	77440.0	28280.0	49160.0	24.58
07/31/20	CSD	114781	M-81688	2311022	74940.0	28660.0	46280.0	23.14
07/31/20	CSD	114770	M-81677	2311022	73080.0	28840.0	44240.0	22.12

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3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Biosolids Report to

City of San Diego

For August 2020

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Summary for City of San Diego
August 2020

Field 2311022 received 363 loads totaling 8875.285 tons of Biosolids between 08/03/20 and 08/31/20

Composition analysis dated 06/01/20 was used to determine the makeup of the biosolids loaded between 08/03/20 and 08/31/20

Solids %: 27.3000
Composition PPM (mg/kg)
Arsenic (As): 0.0000
Cadmium (Cd): 0.0000
Chromium (Cr): 51.3000
Copper (Cu): 671.0000
Lead (Pb): 13.8000
Mercury (Hg): 677.0000
Molybdenum (Mo): 15.9000
Nickel (Ni): 25.1000
Selenium (Se): 6.4200
Zinc (Zn): 937.0000
Organic Nitrogen (OrgN): 41500.0000
Ammoniacal Nitrogen (NH3-N): 5860.0000
Nitrate Nitrogen (NO3-N): 1.7300

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Application Summary for Field 2311022
City of San Diego - August 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: Desert Ridge Farms Pivot: N Field: 2311022 Area: 60.00 Acres = 24.28 Hectares
Location: S2 NW4 T11S R23W SEC 02 GSRBM , Yuma , AZ
Latitude: N 32 30 19.7 Longitude: W 114 34 31.1

363 loads of Biosolids were applied to field 2311022 from 08/03/20 to 08/31/20
Application Method: Incorporation

Analysis Date(s): 06/01/20

Solids Percentage: 27.3%

Wet Biosolids Applied:	8875.29 Tons	8051.53 Metric Tons
Dry Biosolids Applied:	2422.95 Tons	2198.07 Metric Tons
Wet Application Rate:	147.92 Tons/Acre	331.6 Metric Tons/ha
Dry Application Rate:	40.38 Tons/Acre	90.53 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	0.00	0.00	0.00
Cadmium (Cd):	0.00	0.00	0.00
Chromium (Cr):	0	4.64	4.14
Copper (Cu):	671.00	60.74	54.19
Lead (Pb):	13.80	1.25	1.11
Mercury (Hg):	677.00	61.29	54.68
Molybdenum (Mo):	15.90	1.44	1.28
Nickel (Ni):	25.10	2.27	2.03
Selenium (Se):	6.42	0.58	0.52
Zinc (Zn):	937.00	84.82	75.68
Organic Nitrogen (OrgN):	41,500.00	3,756.81	3,351.75
Ammoniacal Nitrogen (NH3-N):	5,860.00	530.48	473.28
Nitrate Nitrogen (NO3-N):	1.73	0.16	0.14
Total Kjeldahl Nitrogen (TKN):	47,360.00	533.48	476.28

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
08/03/20	CSD	114787	M-81729	2311022	77000.0	29380.0	47620.0	23.81
08/03/20	CSD	114801	M-81741	2311022	78880.0	28220.0	50660.0	25.33
08/03/20	CSD	114802	M-81742	2311022	77500.0	28720.0	48780.0	24.39
08/03/20	CSD	114803	M-81743	2311022	74180.0	27660.0	46520.0	23.26
08/03/20	CSD	114804	M-81744	2311022	78180.0	26960.0	51220.0	25.61
08/03/20	CSD	114805	M-81745	2311022	78740.0	27380.0	51360.0	25.68
08/03/20	CSD	114806	M-81746	2311022	78600.0	27340.0	51260.0	25.63
08/03/20	CSD	114807	M-81747	2311022	78380.0	29180.0	49200.0	24.60
08/03/20	CSD	114808	M-81748	2311022	78020.0	28880.0	49140.0	24.57
08/03/20	CSD	114800	M-81740	2311022	77880.0	29260.0	48620.0	24.31
08/03/20	CSD	114799	M-81739	2311022	78440.0	27000.0	51440.0	25.72
08/03/20	CSD	114798	M-81738	2311022	76100.0	28600.0	47500.0	23.75
08/03/20	CSD	114788	M-81730	2311022	77280.0	27880.0	49400.0	24.70
08/03/20	CSD	114789	M-81731	2311022	76780.0	27300.0	49480.0	24.74
08/03/20	CSD	114791	M-81732	2311022	77980.0	27480.0	50500.0	25.25
08/03/20	CSD	114792	M-81733	2311022	77700.0	27980.0	49720.0	24.86
08/03/20	CSD	114793	M-81734	2311022	78820.0	28480.0	50340.0	25.17
08/03/20	CSD	114794	M-81735	2311022	75920.0	28040.0	47880.0	23.94
08/03/20	CSD	144796	M-81736	2311022	77860.0	28940.0	48920.0	24.46
08/03/20	CSD	114797	M-81737	2311022	77760.0	27940.0	49820.0	24.91
08/04/20	CSD	114822	M-81774	2311022	76440.0	28500.0	47940.0	23.97
08/04/20	CSD	114823	M-81775	2311022	77700.0	28680.0	49020.0	24.51
08/04/20	CSD	114824	M-81776	2311022	77660.0	27580.0	50080.0	25.04
08/04/20	CSD	114825	M-81777	2311022	78140.0	28200.0	49940.0	24.97
08/04/20	CSD	114826	M-81778	2311022	78100.0	28060.0	50040.0	25.02
08/04/20	CSD	114827	M-81779	2311022	77480.0	28320.0	49160.0	24.58
08/04/20	CSD	114828	M-81780	2311022	78580.0	30120.0	48460.0	24.23
08/04/20	CSD	114829	M-81781	2311022	68700.0	32600.0	36100.0	18.05
08/04/20	CSD	114830	M-81782	2311022	77140.0	28480.0	48660.0	24.33
08/04/20	CSD	114820	M-81773	2311022	78440.0	27900.0	50540.0	25.27
08/04/20	CSD	114819	M-81772	2311022	77960.0	28940.0	49020.0	24.51
08/04/20	CSD	114809	M-81763	2311022	77140.0	29520.0	47620.0	23.81
08/04/20	CSD	114810	M-81764	2311022	78640.0	27760.0	50880.0	25.44
08/04/20	CSD	114812	M-81765	2311022	76940.0	27960.0	48980.0	24.49
08/04/20	CSD	114813	M-81766	2311022	77300.0	27580.0	49720.0	24.86
08/04/20	CSD	114814	M-81767	2311022	77220.0	27340.0	49880.0	24.94
08/04/20	CSD	114845	M-81768	2311022	77540.0	28220.0	49320.0	24.66
08/04/20	CSD	114816	M-81769	2311022	76780.0	27000.0	49780.0	24.89
08/04/20	CSD	114817	M-81770	2311022	76980.0	27040.0	49940.0	24.97
08/04/20	CSD	114818	M-81771	2311022	76400.0	28760.0	47640.0	23.82

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
08/05/20	CSD	114836	M-82463	2311022	77160.0	28160.0	49000.0	24.50
08/05/20	CSD	114835	M-82462	2311022	77660.0	27300.0	50360.0	25.18
08/05/20	CSD	114834	M-82461	2311022	77200.0	27760.0	49440.0	24.72
08/05/20	CSD	114833	M-82460	2311022	76340.0	27380.0	48960.0	24.48
08/05/20	CSD	114832	M-82459	2311022	75360.0	27920.0	47440.0	23.72
08/05/20	CSD	114845	M-82472	2311022	77720.0	29020.0	48700.0	24.35
08/05/20	CSD	114837	M-82464	2311022	77580.0	28740.0	48840.0	24.42
08/05/20	CSD	114838	M-82465	2311022	77800.0	26760.0	51040.0	25.52
08/05/20	CSD	114889	M-82466	2311022	79100.0	28980.0	50120.0	25.06
08/05/20	CSD	114840	M-82467	2311022	75880.0	28780.0	47100.0	23.55
08/05/20	CSD	114841	M-82468	2311022	79320.0	27940.0	51380.0	25.69
08/05/20	CSD	953679	M-82469	2311022	78420.0	28620.0	49800.0	24.90
08/05/20	CSD	114843	M-82470	2311022	79280.0	28340.0	50940.0	25.47
08/05/20	CSD	114844	M-82471	2311022	78600.0	28220.0	50380.0	25.19
08/05/20	CSD	114831	M-82458	2311022	78220.0	29460.0	48760.0	24.38
08/06/20	CSD	114861	M-81810	2311022	77820.0	29320.0	48500.0	24.25
08/06/20	CSD	114852	M-81801	2311022	77660.0	27890.0	49770.0	24.89
08/06/20	CSD	114858	M-81807	2311022	72180.0	28420.0	43760.0	21.88
08/06/20	CSD	114857	M-81806	2311022	77660.0	28280.0	49380.0	24.69
08/06/20	CSD	114856	M-81805	2311022	78000.0	28420.0	49580.0	24.79
08/06/20	CSD	114855	M-81804	2311022	75900.0	28960.0	46940.0	23.47
08/06/20	CSD	114854	M-81803	2311022	77740.0	27720.0	50020.0	25.01
08/06/20	CSD	114853	M-81802	2311022	77700.0	28740.0	48960.0	24.48
08/06/20	CSD	114851	M-81800	2311022	78760.0	27680.0	51080.0	25.54
08/06/20	CSD	114850	M-81799	2311022	77920.0	28220.0	49700.0	24.85
08/06/20	CSD	114849	M-81798	2311022	76440.0	27780.0	48660.0	24.33
08/06/20	CSD	114848	M-81797	2311022	77660.0	27320.0	50340.0	25.17
08/06/20	CSD	114847	M-81796	2311022	77820.0	27360.0	50460.0	25.23
08/06/20	CSD	114846	M-81795	2311022	79480.0	29460.0	50020.0	25.01
08/06/20	CSD	114860	M-81809	2311022	77400.0	29020.0	48380.0	24.19
08/06/20	CSD	114859	M-81808	2311022	77900.0	27900.0	50000.0	25.00
08/07/20	CSD	114862	M-81815	2311022	77700.0	29480.0	48220.0	24.11
08/07/20	CSD	114864	M-81822	2311022	76780.0	28120.0	48660.0	24.33
08/07/20	CSD	114872	M-81825	2311022	75460.0	28860.0	46600.0	23.30
08/07/20	CSD	114876	M-81829	2311022	75840.0	27900.0	47940.0	23.97
08/07/20	CSD	114871	M-81824	2311022	77620.0	29000.0	48620.0	24.31
08/07/20	CSD	114870	M-81823	2311022	76600.0	27040.0	49560.0	24.78
08/07/20	CSD	114874	M-81827	2311022	77140.0	28500.0	48640.0	24.32
08/07/20	CSD	114875	M-81828	2311022	78020.0	28280.0	49740.0	24.87
08/07/20	CSD	114868	M-81821	2311022	78700.0	28380.0	50320.0	25.16

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
08/07/20	CSD	114867	M-81820	2311022	75960.0	27440.0	48520.0	24.26
08/07/20	CSD	114866	M-81819	2311022	76220.0	28740.0	47480.0	23.74
08/07/20	CSD	114865	M-81818	2311022	76360.0	27960.0	48400.0	24.20
08/07/20	CSD	114864	M-81817	2311022	77620.0	27200.0	50420.0	25.21
08/07/20	CSD	114863	M-81816	2311022	76180.0	27540.0	48640.0	24.32
08/07/20	CSD	114873	M-81826	2311022	73760.0	28620.0	45140.0	22.57
08/10/20	CSD	NA	M-81863	2311022	78240.0	27500.0	50740.0	25.37
08/10/20	CSD	114882	M-81867	2311022	78160.0	27960.0	50200.0	25.10
08/10/20	CSD	114889	M-81874	2311022	67200.0	28060.0	39140.0	19.57
08/10/20	CSD	114890	M-81875	2311022	77060.0	28600.0	48460.0	24.23
08/10/20	CSD	114887	M-81872	2311022	73080.0	28820.0	44260.0	22.13
08/10/20	CSD	114886	M-81871	2311022	77860.0	26880.0	50980.0	25.49
08/10/20	CSD	114885	M-81870	2311022	76040.0	27000.0	49040.0	24.52
08/10/20	CSD	114884	M-81869	2311022	77860.0	28380.0	49480.0	24.74
08/10/20	CSD	114883	M-81868	2311022	76980.0	28780.0	48200.0	24.10
08/10/20	CSD	114877	M-81862	2311022	78500.0	27420.0	51080.0	25.54
08/10/20	CSD	114881	M-81866	2311022	76940.0	27940.0	49000.0	24.50
08/10/20	CSD	114880	M-81865	2311022	77700.0	27300.0	50400.0	25.20
08/10/20	CSD	114879	M-81864	2311022	77760.0	29400.0	48360.0	24.18
08/10/20	CSD	114888	M-81873	2311022	72240.0	28620.0	43620.0	21.81
08/11/20	CSD	114896	M-81897	2311022	79540.0	28360.0	51180.0	25.59
08/11/20	CSD	114891	M-81893	2311022	77460.0	27680.0	49780.0	24.89
08/11/20	CSD	114987	M-81898	2311022	78200.0	29200.0	49000.0	24.50
08/11/20	CSD	114899	M-81899	2311022	77160.0	29000.0	48160.0	24.08
08/11/20	CSD	114895	M-81896	2311022	75720.0	27980.0	47740.0	23.87
08/11/20	CSD	114901	M-81901	2311022	77860.0	28320.0	49540.0	24.77
08/11/20	CSD	114902	M-81902	2311022	74980.0	28620.0	46360.0	23.18
08/11/20	CSD	114903	M-81903	2311022	77880.0	28120.0	49760.0	24.88
08/11/20	CSD	114904	M-81904	2311022	77560.0	29160.0	48400.0	24.20
08/11/20	CSD	114894	M-81895	2311022	79680.0	27500.0	52180.0	26.09
08/11/20	CSD	114893	M-81894	2311022	74540.0	27320.0	47220.0	23.61
08/11/20	CSD	114900	M-81900	2311022	78900.0	28620.0	50280.0	25.14
08/12/20	CSD	114910	M-81928	2311022	77460.0	28980.0	48480.0	24.24
08/12/20	CSD	114907	M-81925	2311022	77240.0	27460.0	49780.0	24.89
08/12/20	CSD	114908	M-81926	2311022	76800.0	27960.0	48840.0	24.42
08/12/20	CSD	114906	M-81924	2311022	77460.0	27600.0	49860.0	24.93
08/12/20	CSD	114909	M-81927	2311022	76360.0	27100.0	49260.0	24.63
08/12/20	CSD	114911	M-81929	2311022	77740.0	30380.0	47360.0	23.68
08/12/20	CSD	114912	M-81930	2311022	74260.0	28400.0	45860.0	22.93
08/12/20	CSD	114913	M-81931	2311022	75920.0	29100.0	46820.0	23.41

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
08/12/20	CSD	114914	M-81932	2311022	78480.0	28600.0	49880.0	24.94
08/12/20	CSD	114915	M-81933	2311022	77320.0	28520.0	48800.0	24.40
08/12/20	CSD	114916	M-81934	2311022	74480.0	28640.0	45840.0	22.92
08/12/20	CSD	114917	M-81935	2311022	77120.0	27900.0	49220.0	24.61
08/12/20	CSD	114918	M-81936	2311022	76540.0	29220.0	47320.0	23.66
08/12/20	CSD	114905	M-81923	2311022	77840.0	29440.0	48400.0	24.20
08/13/20	CSD	114927	M-82497	2311022	76880.0	29040.0	47840.0	23.92
08/13/20	CSD	114928	M-82498	2311022	78320.0	28240.0	50080.0	25.04
08/13/20	CSD	114919	M-82489	2311022	78560.0	26860.0	51700.0	25.85
08/13/20	CSD	114926	M-82496	2311022	77260.0	28720.0	48540.0	24.27
08/13/20	CSD	114925	M-82495	2311022	78180.0	29000.0	49180.0	24.59
08/13/20	CSD	114920	M-82490	2311022	79260.0	29740.0	49520.0	24.76
08/13/20	CSD	114921	M-82491	2311022	78400.0	28640.0	49760.0	24.88
08/13/20	CSD	114922	M-82492	2311022	76500.0	27940.0	48560.0	24.28
08/13/20	CSD	NA	M-82493	2311022	77940.0	28580.0	49360.0	24.68
08/13/20	CSD	114924	M-82494	2311022	78820.0	30400.0	48420.0	24.21
08/14/20	CSD	114930	M-81961	2311022	78300.0	26900.0	51400.0	25.70
08/14/20	CSD	114932	M-81963	2311022	76260.0	27940.0	48320.0	24.16
08/14/20	CSD	114933	M-81964	2311022	77140.0	27560.0	49580.0	24.79
08/14/20	CSD	114934	M-81965	2311022	77600.0	30460.0	47140.0	23.57
08/14/20	CSD	114935	M-81966	2311022	77540.0	27420.0	50120.0	25.06
08/14/20	CSD	114936	M-81967	2311022	78400.0	26960.0	51440.0	25.72
08/14/20	CSD	114937	M-81968	2311022	76800.0	29020.0	47780.0	23.89
08/14/20	CSD	114938	M-81969	2311022	76900.0	29060.0	47840.0	23.92
08/14/20	CSD	114939	M-81970	2311022	77360.0	27540.0	49820.0	24.91
08/14/20	CSD	114940	M-81971	2311022	77340.0	28640.0	48700.0	24.35
08/14/20	CSD	114941	M-81972	2311022	76980.0	28260.0	48720.0	24.36
08/14/20	CSD	114931	M-81962	2311022	78180.0	29420.0	48760.0	24.38
08/17/20	CSD	114942	M-82014	2311022	77760.0	26860.0	50900.0	25.45
08/17/20	CSD	114943	M-82015	2311022	78580.0	29420.0	49160.0	24.58
08/17/20	CSD	114959	M-82031	2311022	77780.0	27060.0	50720.0	25.36
08/17/20	CSD	114958	M-82030	2311022	75780.0	28200.0	47580.0	23.79
08/17/20	CSD	114957	M-82029	2311022	75520.0	28720.0	46800.0	23.40
08/17/20	CSD	114956	M-82028	2311022	77180.0	28300.0	48880.0	24.44
08/17/20	CSD	114955	M-82027	2311022	79040.0	27460.0	51580.0	25.79
08/17/20	CSD	114954	M-82026	2311022	74500.0	29640.0	44860.0	22.43
08/17/20	CSD	114953	M-82025	2311022	79100.0	28500.0	50600.0	25.30
08/17/20	CSD	114952	M-82024	2311022	76720.0	29020.0	47700.0	23.85
08/17/20	CSD	114951	M-82023	2311022	77020.0	28960.0	48060.0	24.03
08/17/20	CSD	114944	M-82016	2311022	78780.0	27420.0	51360.0	25.68

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
08/17/20	CSD	114945	M-82017	2311022	75760.0	27860.0	47900.0	23.95
08/17/20	CSD	114946	M-82018	2311022	78420.0	29160.0	49260.0	24.63
08/17/20	CSD	114947	M-82019	2311022	78420.0	27100.0	51320.0	25.66
08/17/20	CSD	114948	M-82020	2311022	78020.0	28800.0	49220.0	24.61
08/17/20	CSD	114950	M-82022	2311022	75980.0	28620.0	47360.0	23.68
08/17/20	CSD	114949	M-82021	2311022	77580.0	26940.0	50640.0	25.32
08/18/20	CSD	114975	M-82065	2311022	74940.0	28920.0	46020.0	23.01
08/18/20	CSD	114965	M-82056	2311022	73220.0	28820.0	44400.0	22.20
08/18/20	CSD	114964	M-82055	2311022	78460.0	27120.0	51340.0	25.67
08/18/20	CSD	114963	M-82054	2311022	78360.0	27720.0	50640.0	25.32
08/18/20	CSD	114461	M-82052	2311022	77980.0	27680.0	50300.0	25.15
08/18/20	CSD	114960	M-82051	2311022	76680.0	29480.0	47200.0	23.60
08/18/20	CSD	114979	M-82069	2311022	77920.0	27420.0	50500.0	25.25
08/18/20	CSD	114976	M-82066	2311022	75700.0	26800.0	48900.0	24.45
08/18/20	CSD	114962	M-82053	2311022	77920.0	27620.0	50300.0	25.15
08/18/20	CSD	114978	M-82068	2311022	77300.0	29200.0	48100.0	24.05
08/18/20	CSD	114977	M-82067	2311022	77180.0	29060.0	48120.0	24.06
08/18/20	CSD	114967	M-82058	2311022	74580.0	28240.0	46340.0	23.17
08/18/20	CSD	114968	M-82070	2311022	77100.0	27920.0	49180.0	24.59
08/18/20	CSD	114974	M-82064	2311022	79020.0	28220.0	50800.0	25.40
08/18/20	CSD	114873	M-82063	2311022	77900.0	28840.0	49060.0	24.53
08/18/20	CSD	114972	M-82062	2311022	74700.0	28600.0	46100.0	23.05
08/18/20	CSD	114971	M-82061	2311022	78080.0	28260.0	49820.0	24.91
08/18/20	CSD	114970	M-82060	2311022	76040.0	29020.0	47020.0	23.51
08/18/20	CSD	114969	M-82059	2311022	77720.0	27480.0	50240.0	25.12
08/18/20	CSD	114966	M-82057	2311022	76700.0	28980.0	47720.0	23.86
08/19/20	CSD	114980	M-82089	2311022	78400.0	29460.0	48940.0	24.47
08/19/20	CSD	114993	M-82102	2311022	74360.0	28660.0	45700.0	22.85
08/19/20	CSD	114996	M-82105	2311022	77320.0	29240.0	48080.0	24.04
08/19/20	CSD	114981	M-82090	2311022	78540.0	27680.0	50860.0	25.43
08/19/20	CSD	114982	M-82091	2311022	77920.0	27400.0	50520.0	25.26
08/19/20	CSD	114987	M-82092	2311022	79000.0	27360.0	51640.0	25.82
08/19/20	CSD	114994	M-82103	2311022	78520.0	28260.0	50260.0	25.13
08/19/20	CSD	114995	M-82104	2311022	74580.0	29240.0	45340.0	22.67
08/19/20	CSD	114992	M-82101	2311022	75820.0	28620.0	47200.0	23.60
08/19/20	CSD	114997	M-82106	2311022	78260.0	27380.0	50880.0	25.44
08/19/20	CSD	114998	M-82107	2311022	77620.0	27220.0	50400.0	25.20
08/19/20	CSD	114991	M-82100	2311022	75920.0	29040.0	46880.0	23.44
08/19/20	CSD	114990	M-82099	2311022	77800.0	27480.0	50320.0	25.16
08/19/20	CSD	114988	M-82097	2311022	77280.0	28980.0	48300.0	24.15

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
08/19/20	CSD	114989	M-82098	2311022	77880.0	28340.0	49540.0	24.77
08/19/20	CSD	114987	M-82096	2311022	75380.0	28220.0	47160.0	23.58
08/19/20	CSD	114986	M-82095	2311022	76520.0	27960.0	48560.0	24.28
08/19/20	CSD	114985	M-82094	2311022	78660.0	28800.0	49860.0	24.93
08/19/20	CSD	114984	M-82093	2311022	77900.0	27180.0	50720.0	25.36
08/19/20	CSD	114999	M-82108	2311022	78300.0	28400.0	49900.0	24.95
08/20/20	CSD	115000	M-82127	2311022	77840.0	29180.0	48660.0	24.33
08/20/20	CSD	115011	M-82138	2311022	75020.0	29020.0	46000.0	23.00
08/20/20	CSD	115012	M-82139	2311022	74800.0	28700.0	46100.0	23.05
08/20/20	CSD	115013	M-82140	2311022	77740.0	28220.0	49520.0	24.76
08/20/20	CSD	115014	M-82141	2311022	76360.0	29100.0	47260.0	23.63
08/20/20	CSD	115015	M-82142	2311022	76940.0	27420.0	49520.0	24.76
08/20/20	CSD	115017	M-82144	2311022	74660.0	29260.0	45400.0	22.70
08/20/20	CSD	115018	M-82145	2311022	78080.0	27240.0	50840.0	25.42
08/20/20	CSD	115019	M-82146	2311022	77500.0	27120.0	50380.0	25.19
08/20/20	CSD	115010	M-82137	2311022	77060.0	27740.0	49320.0	24.66
08/20/20	CSD	115009	M-82136	2311022	75080.0	28620.0	46460.0	23.23
08/20/20	CSD	115001	M-82128	2311022	76540.0	27700.0	48840.0	24.42
08/20/20	CSD	115002	M-82129	2311022	77000.0	27600.0	49400.0	24.70
08/20/20	CSD	115003	M-82130	2311022	77000.0	27880.0	49120.0	24.56
08/20/20	CSD	115004	M-82131	2311022	76740.0	27180.0	49560.0	24.78
08/20/20	CSD	115005	M-82132	2311022	76080.0	28800.0	47280.0	23.64
08/20/20	CSD	115006	M-82133	2311022	76060.0	28180.0	47880.0	23.94
08/20/20	CSD	115007	M-82134	2311022	77880.0	28980.0	48900.0	24.45
08/20/20	CSD	115008	M-82135	2311022	77260.0	28380.0	48880.0	24.44
08/20/20	CSD	115016	M-82143	2311022	79060.0	28260.0	50800.0	25.40
08/21/20	CSD	115020	M-82165	2311022	78420.0	29280.0	49140.0	24.57
08/21/20	CSD	115022	M-82167	2311022	78700.0	27120.0	51580.0	25.79
08/21/20	CSD	115023	M-82168	2311022	76780.0	27400.0	49380.0	24.69
08/21/20	CSD	115024	M-82169	2311022	75780.0	27900.0	47880.0	23.94
08/21/20	CSD	115025	M-82170	2311022	76880.0	28800.0	48080.0	24.04
08/21/20	CSD	115039	M-82184	2311022	76260.0	28280.0	47980.0	23.99
08/21/20	CSD	115021	M-82166	2311022	77500.0	27680.0	49820.0	24.91
08/21/20	CSD	115038	M-82183	2311022	77040.0	27260.0	49780.0	24.89
08/21/20	CSD	115036	M-82181	2311022	75300.0	29240.0	46060.0	23.03
08/21/20	CSD	115035	M-82180	2311022	76080.0	29100.0	46980.0	23.49
08/21/20	CSD	115034	M-82179	2311022	76960.0	28360.0	48600.0	24.30
08/21/20	CSD	115033	M-82178	2311022	76300.0	28680.0	47620.0	23.81
08/21/20	CSD	115032	M-82177	2311022	75840.0	29820.0	46020.0	23.01
08/21/20	CSD	115031	M-82176	2311022	76380.0	28240.0	48140.0	24.07

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
08/21/20	CSD	115030	M-82175	2311022	75480.0	29080.0	46400.0	23.20
08/21/20	CSD	115037	M-82182	2311022	77800.0	27400.0	50400.0	25.20
08/21/20	CSD	115029	M-82174	2311022	76780.0	27500.0	49280.0	24.64
08/21/20	CSD	115028	M-82173	2311022	77720.0	28600.0	49120.0	24.56
08/21/20	CSD	115027	M-82172	2311022	75000.0	28140.0	46860.0	23.43
08/21/20	CSD	115026	M-82171	2311022	75740.0	29040.0	46700.0	23.35
08/24/20	CSD	115040	M-82221	2311022	78480.0	29780.0	48700.0	24.35
08/24/20	CSD	115054	M-82235	2311022	76640.0	28300.0	48340.0	24.17
08/24/20	CSD	115041	M-82222	2311022	76480.0	27660.0	48820.0	24.41
08/24/20	CSD	115052	M-82233	2311022	75300.0	29300.0	46000.0	23.00
08/24/20	CSD	115042	M-82223	2311022	77720.0	27320.0	50400.0	25.20
08/24/20	CSD	115069	M-82230	2311022	77080.0	27440.0	49640.0	24.82
08/24/20	CSD	115050	M-82231	2311022	77920.0	28640.0	49280.0	24.64
08/24/20	CSD	115051	M-82232	2311022	78700.0	29060.0	49640.0	24.82
08/24/20	CSD	115048	M-82229	2311022	78200.0	29060.0	49140.0	24.57
08/24/20	CSD	115053	M-82234	2311022	79120.0	28000.0	51120.0	25.56
08/24/20	CSD	115055	M-82236	2311022	77680.0	28620.0	49060.0	24.53
08/24/20	CSD	115056	M-82237	2311022	77540.0	29280.0	48260.0	24.13
08/24/20	CSD	115057	M-82238	2311022	78100.0	28720.0	49380.0	24.69
08/24/20	CSD	115058	M-82239	2311022	77060.0	28800.0	48260.0	24.13
08/24/20	CSD	115043	M-82224	2311022	76380.0	27920.0	48460.0	24.23
08/24/20	CSD	115044	M-82225	2311022	78140.0	27120.0	51020.0	25.51
08/24/20	CSD	115045	M-82226	2311022	77760.0	28960.0	48800.0	24.40
08/24/20	CSD	115046	M-82227	2311022	76860.0	28140.0	48720.0	24.36
08/24/20	CSD	115047	M-82228	2311022	78000.0	28340.0	49660.0	24.83
08/24/20	CSD	115059	M-82240	2311022	78180.0	27380.0	50800.0	25.40
08/25/20	CSD	115071	M-82272	2311022	77440.0	27600.0	49840.0	24.92
08/25/20	CSD	115072	M-82273	2311022	77780.0	28320.0	49460.0	24.73
08/25/20	CSD	115075	M-82274	2311022	78040.0	27440.0	50600.0	25.30
08/25/20	CSD	115074	M-82275	2311022	78300.0	27520.0	50780.0	25.39
08/25/20	CSD	115075	M-82276	2311022	77800.0	29220.0	48580.0	24.29
08/25/20	CSD	115076	M-82277	2311022	79000.0	28860.0	50140.0	25.07
08/25/20	CSD	115077	M-82278	2311022	77580.0	28240.0	49340.0	24.67
08/25/20	CSD	115078	M-82279	2311022	78500.0	28720.0	49780.0	24.89
08/25/20	CSD	115079	M-82280	2311022	77460.0	27400.0	50060.0	25.03
08/25/20	CSD	115070	M-82271	2311022	77480.0	28360.0	49120.0	24.56
08/25/20	CSD	115069	M-82270	2311022	78080.0	28960.0	49120.0	24.56
08/25/20	CSD	NA	M-82261	2311022	78660.0	29820.0	48840.0	24.42
08/25/20	CSD	115061	M-82262	2311022	77660.0	27660.0	50000.0	25.00
08/25/20	CSD	115062	M-82263	2311022	77760.0	27420.0	50340.0	25.17

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
08/25/20	CSD	115063	M-82264	2311022	77540.0	27560.0	49980.0	24.99
08/25/20	CSD	115064	M-82265	2311022	77200.0	28740.0	48460.0	24.23
08/25/20	CSD	115065	M-82266	2311022	75220.0	27900.0	47320.0	23.66
08/25/20	CSD	115066	M-82267	2311022	75080.0	28100.0	46980.0	23.49
08/25/20	CSD	115067	M-82268	2311022	78360.0	27160.0	51200.0	25.60
08/25/20	CSD	115068	M-82269	2311022	77380.0	29260.0	48120.0	24.06
08/26/20	CSD	115092	M-82308	2311022	77900.0	27740.0	50160.0	25.08
08/26/20	CSD	115093	M-82309	2311022	77400.0	28620.0	48780.0	24.39
08/26/20	CSD	115094	M-82310	2311022	78440.0	29260.0	49180.0	24.59
08/26/20	CSD	115095	M-82311	2311022	77900.0	29460.0	48440.0	24.22
08/26/20	CSD	115096	M-82312	2311022	79040.0	28280.0	50760.0	25.38
08/26/20	CSD	115097	M-82313	2311022	78180.0	26860.0	51320.0	25.66
08/26/20	CSD	115088	M-82314	2311022	77520.0	28960.0	48560.0	24.28
08/26/20	CSD	115098	M-82315	2311022	77680.0	27380.0	50300.0	25.15
08/26/20	CSD	115099	M-82316	2311022	75540.0	28380.0	47160.0	23.58
08/26/20	CSD	115091	M-82307	2311022	77440.0	27620.0	49820.0	24.91
08/26/20	CSD	115090	M-82306	2311022	77960.0	28360.0	49600.0	24.80
08/26/20	CSD	115080	M-82297	2311022	77960.0	29480.0	48480.0	24.24
08/26/20	CSD	115081	M-82298	2311022	76500.0	28720.0	47780.0	23.89
08/26/20	CSD	NA	M-82299	2311022	77800.0	27700.0	50100.0	25.05
08/26/20	CSD	115083	M-82300	2311022	76020.0	27900.0	48120.0	24.06
08/26/20	CSD	115084	M-82301	2311022	78360.0	28420.0	49940.0	24.97
08/26/20	CSD	115085	M-82302	2311022	78400.0	27180.0	51220.0	25.61
08/26/20	CSD	115086	M-82303	2311022	76700.0	28220.0	48480.0	24.24
08/26/20	CSD	115087	M-82304	2311022	77180.0	28680.0	48500.0	24.25
08/26/20	CSD	115089	M-82305	2311022	77480.0	27360.0	50120.0	25.06
08/27/20	CSD	115111	M-82345	2311022	78540.0	28360.0	50180.0	25.09
08/27/20	CSD	115112	M-82346	2311022	75520.0	29260.0	46260.0	23.13
08/27/20	CSD	115113	M-82347	2311022	77860.0	27600.0	50260.0	25.13
08/27/20	CSD	115114	M-82348	2311022	77580.0	29240.0	48340.0	24.17
08/27/20	CSD	115115	M-82349	2311022	78020.0	28260.0	49760.0	24.88
08/27/20	CSD	115116	M-82350	2311022	76400.0	28640.0	47760.0	23.88
08/27/20	CSD	115117	M-82351	2311022	78160.0	27620.0	50540.0	25.27
08/27/20	CSD	115118	M-82352	2311022	76260.0	28460.0	47800.0	23.90
08/27/20	CSD	115110	M-82344	2311022	77080.0	29020.0	48060.0	24.03
08/27/20	CSD	115109	M-82343	2311022	78960.0	29500.0	49460.0	24.73
08/27/20	CSD	115109	M-82342	2311022	78120.0	27820.0	50300.0	25.15
08/27/20	CSD	115101	M-82334	2311022	78660.0	27700.0	50960.0	25.48
08/27/20	CSD	115102	M-82335	2311022	77200.0	27700.0	49500.0	24.75
08/27/20	CSD	115103	M-82336	2311022	78000.0	28420.0	49580.0	24.79

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
08/27/20	CSD	115104	M-82337	2311022	75600.0	28720.0	46880.0	23.44
08/27/20	CSD	115105	M-82338	2311022	78040.0	27180.0	50860.0	25.43
08/27/20	CSD	115106	M-82339	2311022	75620.0	28660.0	46960.0	23.48
08/27/20	CSD	115107	M-82340	2311022	74860.0	28160.0	46700.0	23.35
08/27/20	CSD	115108	M-82341	2311022	76080.0	27940.0	48140.0	24.07
08/28/20	CSD	115131	M-82383	2311022	76780.0	28440.0	48340.0	24.17
08/28/20	CSD	115132	M-82384	2311022	76340.0	29240.0	47100.0	23.55
08/28/20	CSD	115133	M-82385	2311022	77160.0	28260.0	48900.0	24.45
08/28/20	CSD	115134	M-82386	2311022	77180.0	28600.0	48580.0	24.29
08/28/20	CSD	115135	M-82387	2311022	75900.0	27860.0	48040.0	24.02
08/28/20	CSD	115136	M-82388	2311022	76380.0	28160.0	48220.0	24.11
08/28/20	CSD	115137	M-82389	2311022	76760.0	27400.0	49360.0	24.68
08/28/20	CSD	115138	M-82390	2311022	77060.0	28440.0	48620.0	24.31
08/28/20	CSD	115130	M-82382	2311022	76500.0	29260.0	47240.0	23.62
08/28/20	CSD	115129	M-82381	2311022	76820.0	28340.0	48480.0	24.24
08/28/20	CSD	115128	M-82380	2311022	75920.0	29040.0	46880.0	23.44
08/28/20	CSD	115119	M-82372	2311022	79500.0	29540.0	49960.0	24.98
08/28/20	CSD	115121	M-82373	2311022	77840.0	27700.0	50140.0	25.07
08/28/20	CSD	115122	M-82374	2311022	78060.0	28420.0	49640.0	24.82
08/28/20	CSD	115123	M-82375	2311022	76440.0	28000.0	48440.0	24.22
08/28/20	CSD	115124	M-82376	2311022	77040.0	27240.0	49800.0	24.90
08/28/20	CSD	115125	M-82377	2311022	77120.0	28840.0	48280.0	24.14
08/28/20	CSD	115126	M-82378	2311022	77200.0	27500.0	49700.0	24.85
08/28/20	CSD	115127	M-82379	2311022	76080.0	28660.0	47420.0	23.71
08/31/20	CSD	115149	M-82434	2311022	79280.0	28260.0	51020.0	25.51
08/31/20	CSD	115150	M-82435	2311022	79420.0	28600.0	50820.0	25.41
08/31/20	CSD	115151	M-82436	2311022	77660.0	28500.0	49160.0	24.58
08/31/20	CSD	115152	M-82437	2311022	76960.0	28440.0	48520.0	24.26
08/31/20	CSD	115153	M-82438	2311022	78560.0	27500.0	51060.0	25.53
08/31/20	CSD	115154	M-82439	2311022	75440.0	35260.0	40180.0	20.09
08/31/20	CSD	115155	M-82440	2311022	76880.0	28660.0	48220.0	24.11
08/31/20	CSD	115156	M-82441	2311022	78080.0	27600.0	50480.0	25.24
08/31/20	CSD	115147	M-82433	2311022	78520.0	27440.0	51080.0	25.54
08/31/20	CSD	115148	M-82432	2311022	74960.0	28760.0	46200.0	23.10
08/31/20	CSD	115139	M-82424	2311022	76840.0	27700.0	49140.0	24.57
08/31/20	CSD	115140	M-82425	2311022	76980.0	29460.0	47520.0	23.76
08/31/20	CSD	115141	M-82426	2311022	77840.0	27080.0	50760.0	25.38
08/31/20	CSD	115142	M-82427	2311022	77280.0	27960.0	49320.0	24.66
08/31/20	CSD	115143	M-82428	2311022	78620.0	28220.0	50400.0	25.20
08/31/20	CSD	115144	M-82429	2311022	77660.0	28060.0	49600.0	24.80

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
08/31/20	CSD	115145	M-82430	2311022	74720.0	29020.0	45700.0	22.85
08/31/20	CSD	115146	M-82431	2311022	78920.0	28340.0	50580.0	25.29
08/31/20	CSD	115157	M-82550	2311022	77620.0	27300.0	50320.0	25.16

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Monthly Biosolids Report to

City of San Diego

For September 2020

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Summary for City of San Diego
September 2020

Field 2310306 received 19 loads totaling 465.39 tons of Biosolids between 09/01/20 and 09/01/20

Field 2310305 received 444 loads totaling 10915.42 tons of Biosolids between 09/02/20 and 09/30/20

Composition analysis dated 06/01/20 was used to determine the makeup of the biosolids loaded between 09/01/20 and 09/30/20

Solids %: 27.3000
Composition PPM (mg/kg)
Arsenic (As): 0.0000
Cadmium (Cd): 0.0000
Chromium (Cr): 51.3000
Copper (Cu): 671.0000
Lead (Pb): 13.8000
Mercury (Hg): 0.6770
Molybdenum (Mo): 15.9000
Nickel (Ni): 25.1000
Selenium (Se): 6.4200
Zinc (Zn): 937.0000
Organic Nitrogen (OrgN): 41500.0000
Ammoniacal Nitrogen (NH3-N): 5860.0000
Nitrate Nitrogen (NO3-N): 1.7300

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Application Summary for Field 2310306
City of San Diego - September 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: AGTECH Pivot: DU-13 Field: 2310306 Area: 60.00 Acres = 24.28 Hectares
Location: S2 SE4 T10S R23W SEC 30 GSRBM , Yuma, AZ
Latitude: N 32 32 38.4 Longitude: W 114 40 15.4

19 loads of Biosolids were applied to field 2310306 from 09/01/20 to 09/01/20
Application Method: Incorporation

Analysis Date(s): 06/01/20

Solids Percentage: 27.3%

Wet Biosolids Applied:	465.39 Tons	422.19 Metric Tons
Dry Biosolids Applied:	127.05 Tons	115.26 Metric Tons
Wet Application Rate:	7.76 Tons/Acre	17.39 Metric Tons/ha
Dry Application Rate:	2.12 Tons/Acre	4.75 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	0.00	0.00	0.00
Cadmium (Cd):	0.00	0.00	0.00
Chromium (Cr):	0	0.24	0.22
Copper (Cu):	671.00	3.19	2.84
Lead (Pb):	13.80	0.07	0.06
Mercury (Hg):	0.68	0.00	0.00
Molybdenum (Mo):	15.90	0.08	0.07

Nickel (Ni):	25.10	0.12	0.11
Selenium (Se):	6.42	0.03	0.03
Zinc (Zn):	937.00	4.45	3.97
Organic Nitrogen (OrgN):	41,500.00	196.99	175.75
Ammoniacal Nitrogen (NH3-N):	5,860.00	27.82	24.82
Nitrate Nitrogen (NO3-N):	1.73	0.01	0.01
Total Kjeldahl Nitrogen (TKN):	47,360.00	224.81	200.57

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Application Summary for Field 2310305
City of San Diego - September 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: AGTECH Pivot: DU-13 Field: 2310305 Area: 60.00 Acres = 24.28 Hectares
Location: N2 SE4 T10S R23W SEC 30 GSRBM , Yuma, AZ
Latitude: N 32 31 38.4 Longitude: W 114 39 12.9

444 loads of Biosolids were applied to field 2310305 from 09/02/20 to 09/30/20
Application Method: Incorporation

Analysis Date(s): 06/01/20

Solids Percentage: 27.3%

Wet Biosolids Applied:	10915.42 Tons	9902.31 Metric Tons
Dry Biosolids Applied:	2979.91 Tons	2703.33 Metric Tons
Wet Application Rate:	181.92 Tons/Acre	407.82 Metric Tons/ha
Dry Application Rate:	49.67 Tons/Acre	111.33 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	0.00	0.00	0.00
Cadmium (Cd):	0.00	0.00	0.00
Chromium (Cr):	0	5.71	5.10
Copper (Cu):	671.00	74.71	66.65
Lead (Pb):	13.80	1.54	1.37
Mercury (Hg):	0.68	0.08	0.07
Molybdenum (Mo):	15.90	1.77	1.58

Nickel (Ni):	25.10	2.79	2.49
Selenium (Se):	6.42	0.71	0.64
Zinc (Zn):	937.00	104.32	93.07
Organic Nitrogen (OrgN):	41,500.00	4,620.37	4,122.20
Ammoniacal Nitrogen (NH3-N):	5,860.00	652.42	582.07
Nitrate Nitrogen (NO3-N):	1.73	0.19	0.17
Total Kjeldahl Nitrogen (TKN):	47,360.00	656.42	586.07

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
09/01/20	CSD	115158	M-82539	2310306	77220.0	27700.0	49520.0	24.76
09/01/20	CSD	115171	M-82550	2310306	77220.0	27480.0	49740.0	24.87
09/01/20	CSD	115172	M-82551	2310306	77100.0	29300.0	47800.0	23.90
09/01/20	CSD	115173	M-82552	2310306	78100.0	28660.0	49440.0	24.72
09/01/20	CSD	115175	M-82553	2310306	77860.0	28380.0	49480.0	24.74
09/01/20	CSD	115176	M-82554	2310306	77240.0	28300.0	48940.0	24.47
09/01/20	CSD	115177	M-82555	2310306	78000.0	28300.0	49700.0	24.85
09/01/20	CSD	115178	M-82556	2310306	77380.0	27400.0	49980.0	24.99
09/01/20	CSD	115179	M-82557	2310306	78180.0	27920.0	50260.0	25.13
09/01/20	CSD	115169	M-82549	2310306	77240.0	27500.0	49740.0	24.87
09/01/20	CSD	115168	M-82548	2310306	77400.0	28440.0	48960.0	24.48
09/01/20	CSD	115160	M-82540	2310306	77480.0	29500.0	47980.0	23.99
09/01/20	CSD	115161	M-82541	2310306	77460.0	28300.0	49160.0	24.58
09/01/20	CSD	115162	M-82542	2310306	77220.0	27260.0	49960.0	24.98
09/01/20	CSD	115163	M-82543	2310306	75480.0	28580.0	46900.0	23.45
09/01/20	CSD	115164	M-82544	2310306	75760.0	28240.0	47520.0	23.76
09/01/20	CSD	115165	M-82545	2310306	76320.0	27960.0	48360.0	24.18
09/01/20	CSD	115166	M-82546	2310306	76440.0	28760.0	47680.0	23.84
09/01/20	CSD	115167	M-82547	2310306	76920.0	27260.0	49660.0	24.83
09/02/20	CSD	115193	M-82585	2310305	76480.0	27240.0	49240.0	24.62
09/02/20	CSD	115194	M-82586	2310305	75840.0	29260.0	46580.0	23.29
09/02/20	CSD	115195	M-82587	2310305	77520.0	28440.0	49080.0	24.54
09/02/20	CSD	115196	M-82588	2310305	77420.0	28360.0	49060.0	24.53
09/02/20	CSD	115197	M-82589	2310305	74260.0	28680.0	45580.0	22.79
09/02/20	CSD	115198	M-82590	2310305	78440.0	28360.0	50080.0	25.04
09/02/20	CSD	115199	M-82591	2310305	76700.0	29140.0	47560.0	23.78

09/02/20	CSD	115200	M-82592	2310305	76820.0	28020.0	48800.0	24.40
09/02/20	CSD	115201	M-82593	2310305	77080.0	27380.0	49700.0	24.85
09/02/20	CSD	115182	M-82584	2310305	76820.0	28700.0	48120.0	24.06
09/02/20	CSD	115191	M-82583	2310305	77760.0	28380.0	49380.0	24.69
09/02/20	CSD	115190	M-82582	2310305	76440.0	27480.0	48960.0	24.48
09/02/20	CSD	115180	M-82573	2310305	77640.0	29540.0	48100.0	24.05
09/02/20	CSD	115181	M-82574	2310305	78200.0	27760.0	50440.0	25.22
09/02/20	CSD	115183	M-82575	2310305	78600.0	28240.0	50360.0	25.18
09/02/20	CSD	115184	M-82576	2310305	78860.0	27200.0	51660.0	25.83
09/02/20	CSD	115185	M-82577	2310305	76280.0	27960.0	48320.0	24.16
09/02/20	CSD	115786	M-82578	2310305	75860.0	28600.0	47260.0	23.63
09/02/20	CSD	115187	M-82579	2310305	77360.0	27320.0	50040.0	25.02
09/02/20	CSD	115188	M-82580	2310305	76720.0	28140.0	48580.0	24.29
09/02/20	CSD	115189	M-82581	2310305	77640.0	27320.0	50320.0	25.16

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
09/03/20	CSD	115215	M-82620	2310305	79020.0	28440.0	50580.0	25.29
09/03/20	CSD	115216	M-82621	2310305	75800.0	28720.0	47080.0	23.54
09/03/20	CSD	115217	M-82622	2310305	77260.0	28380.0	48880.0	24.44
09/03/20	CSD	115218	M-82623	2310305	77760.0	27380.0	50380.0	25.19
09/03/20	CSD	115219	M-82624	2310305	77140.0	28280.0	48860.0	24.43
09/03/20	CSD	115220	M-82625	2310305	77640.0	29260.0	48380.0	24.19
09/03/20	CSD	115221	M-82626	2310305	77300.0	27800.0	49500.0	24.75
09/03/20	CSD	115222	M-82627	2310305	78160.0	28340.0	49820.0	24.91
09/03/20	CSD	113223	M-82628	2310305	75480.0	28920.0	46560.0	23.28
09/03/20	CSD	115214	M-82619	2310305	78420.0	27300.0	51120.0	25.56
09/03/20	CSD	115213	M-82618	2310305	78240.0	27440.0	50800.0	25.40
09/03/20	CSD	115212	M-82617	2310305	78020.0	28620.0	49400.0	24.70
09/03/20	CSD	115203	M-82608	2310305	76820.0	29620.0	47200.0	23.60
09/03/20	CSD	115204	M-82609	2310305	79120.0	28260.0	50860.0	25.43
09/03/20	CSD	115205	M-82610	2310305	76140.0	27920.0	48220.0	24.11
09/03/20	CSD	115206	M-82611	2310305	73420.0	28580.0	44840.0	22.42
09/03/20	CSD	115207	M-82612	2310305	77460.0	27160.0	50300.0	25.15
09/03/20	CSD	115208	M-82613	2310305	75200.0	28740.0	46460.0	23.23
09/03/20	CSD	115209	M-82614	2310305	75600.0	29180.0	46420.0	23.21
09/03/20	CSD	115210	M-82615	2310305	77360.0	27660.0	49700.0	24.85
09/03/20	CSD	115211	M-82616	2310305	75300.0	28120.0	47180.0	23.59
09/04/20	CSD	115236	M-82656	2310305	77780.0	27480.0	50300.0	25.15
09/04/20	CSD	115237	M-82657	2310305	78360.0	27320.0	51040.0	25.52
09/04/20	CSD	115238	M-82658	2310305	77660.0	29180.0	48480.0	24.24
09/04/20	CSD	115240	M-82659	2310305	77740.0	28440.0	49300.0	24.65
09/04/20	CSD	115241	M-82660	2310305	76480.0	28520.0	47960.0	23.98

09/04/20	CSD	115242	M-82661	2310305	78900.0	28400.0	50500.0	25.25
09/04/20	CSD	115243	M-82662	2310305	76960.0	27360.0	49600.0	24.80
09/04/20	CSD	115244	M-82663	2310305	78960.0	28280.0	50680.0	25.34
09/04/20	CSD	115245	M-82664	2310305	75620.0	29040.0	46580.0	23.29
09/04/20	CSD	115235	M-82655	2310305	79000.0	28360.0	50640.0	25.32
09/04/20	CSD	115234	M-82654	2310305	77160.0	27640.0	49520.0	24.76
09/04/20	CSD	115224	M-82645	2310305	78220.0	29520.0	48700.0	24.35
09/04/20	CSD	115225	M-82646	2310305	78080.0	28480.0	49600.0	24.80
09/04/20	CSD	115227	M-82647	2310305	77960.0	28240.0	49720.0	24.86
09/04/20	CSD	115228	M-82648	2310305	76500.0	27920.0	48580.0	24.29
09/04/20	CSD	115229	M-82649	2310305	78900.0	27180.0	51720.0	25.86
09/04/20	CSD	115230	M-82650	2310305	73180.0	28600.0	44580.0	22.29
09/04/20	CSD	115231	M-82651	2310305	77400.0	29280.0	48120.0	24.06
09/04/20	CSD	115232	M-82652	2310305	74600.0	28360.0	46240.0	23.12

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
09/04/20	CSD	115233	M-82653	2310305	76040.0	28700.0	47340.0	23.67
09/08/20	CSD	115259	M-82729	2310305	76340.0	29280.0	47060.0	23.53
09/08/20	CSD	115260	M-82730	2310305	78800.0	28560.0	50240.0	25.12
09/08/20	CSD	115261	M-82731	2310305	77520.0	28740.0	48780.0	24.39
09/08/20	CSD	115262	M-82732	2310305	78580.0	27420.0	51160.0	25.58
09/08/20	CSD	115263	M-82733	2310305	76800.0	29040.0	47760.0	23.88
09/08/20	CSD	115264	M-82734	2310305	77800.0	27200.0	50600.0	25.30
09/08/20	CSD	115265	M-82735	2310305	78040.0	27800.0	50240.0	25.12
09/08/20	CSD	115266	M-82736	2310305	78300.0	27120.0	51180.0	25.59
09/08/20	CSD	115267	M-82737	2310305	78280.0	27320.0	50960.0	25.48
09/08/20	CSD	115268	M-82738	2310305	78480.0	27300.0	51180.0	25.59
09/08/20	CSD	115258	M-82728	2310305	76720.0	27480.0	49240.0	24.62
09/08/20	CSD	115257	M-82727	2310305	77340.0	27960.0	49380.0	24.69
09/08/20	CSD	115256	M-82726	2310305	78540.0	27500.0	51040.0	25.52
09/08/20	CSD	115246	M-82716	2310305	77600.0	29400.0	48200.0	24.10
09/08/20	CSD	115247	M-82717	2310305	77240.0	28340.0	48900.0	24.45
09/08/20	CSD	115248	M-82718	2310305	77260.0	27940.0	49320.0	24.66
09/08/20	CSD	115249	M-82719	2310305	77520.0	28360.0	49160.0	24.58
09/08/20	CSD	115250	M-82720	2310305	77040.0	27100.0	49940.0	24.97
09/08/20	CSD	115251	M-82721	2310305	77480.0	27160.0	50320.0	25.16
09/08/20	CSD	115252	M-82722	2310305	78300.0	28600.0	49700.0	24.85
09/08/20	CSD	115253	M-82723	2310305	76300.0	28380.0	47920.0	23.96
09/08/20	CSD	115254	M-82724	2310305	76580.0	28380.0	48200.0	24.10
09/08/20	CSD	115255	M-82725	2310305	75160.0	29140.0	46020.0	23.01
09/09/20	CSD	115286	M-82770	2310305	77460.0	29320.0	48140.0	24.07
09/09/20	CSD	115285	M-82769	2310305	78740.0	31000.0	47740.0	23.87

09/09/20	CSD	115284	M-82768	2310305	78960.0	28100.0	50860.0	25.43
09/09/20	CSD	115283	M-82767	2310305	78020.0	29240.0	48780.0	24.39
09/09/20	CSD	115288	M-82771	2310305	76660.0	28040.0	48620.0	24.31
09/09/20	CSD	115289	M-82772	2310305	78140.0	27420.0	50720.0	25.36
09/09/20	CSD	115290	M-82773	2310305	78000.0	27360.0	50640.0	25.32
09/09/20	CSD	115291	M-82774	2310305	77400.0	27760.0	49640.0	24.82
09/09/20	CSD	115292	M-82775	2310305	76720.0	27320.0	49400.0	24.70
09/09/20	CSD	115293	M-82776	2310305	77380.0	28180.0	49200.0	24.60
09/09/20	CSD	115282	M-82766	2310305	77280.0	27920.0	49360.0	24.68
09/09/20	CSD	115281	M-82765	2310305	76120.0	27500.0	48620.0	24.31
09/09/20	CSD	115280	M-82764	2310305	77340.0	28340.0	49000.0	24.50
09/09/20	CSD	115269	M-82754	2310305	78380.0	29480.0	48900.0	24.45
09/09/20	CSD	115270	M-82755	2310305	77680.0	28400.0	49280.0	24.64
09/09/20	CSD	115271	M-82756	2310305	76280.0	27980.0	48300.0	24.15

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
09/09/20	CSD	115273	M-82757	2310305	77880.0	27100.0	50780.0	25.39
09/09/20	CSD	115274	M-82758	2310305	77960.0	27180.0	50780.0	25.39
09/09/20	CSD	115275	M-82759	2310305	76900.0	28160.0	48740.0	24.37
09/09/20	CSD	115276	M-82760	2310305	76980.0	28900.0	48080.0	24.04
09/09/20	CSD	115277	M-82761	2310305	77620.0	28380.0	49240.0	24.62
09/09/20	CSD	115278	M-82762	2310305	76340.0	28800.0	47540.0	23.77
09/09/20	CSD	115279	M-82763	2310305	77000.0	29360.0	47640.0	23.82
09/10/20	CSD	115311	M-82810	2310305	77880.0	28820.0	49060.0	24.53
09/10/20	CSD	115310	M-82809	2310305	78860.0	27060.0	51800.0	25.90
09/10/20	CSD	115309	M-82808	2310305	77280.0	29300.0	47980.0	23.99
09/10/20	CSD	115308	M-82807	2310305	77840.0	27940.0	49900.0	24.95
09/10/20	CSD	115312	M-82811	2310305	78640.0	27880.0	50760.0	25.38
09/10/20	CSD	115313	M-82812	2310305	77920.0	27820.0	50100.0	25.05
09/10/20	CSD	115315	M-82813	2310305	76980.0	27600.0	49380.0	24.69
09/10/20	CSD	115316	M-82814	2310305	78420.0	27960.0	50460.0	25.23
09/10/20	CSD	115317	M-82815	2310305	78920.0	27420.0	51500.0	25.75
09/10/20	CSD	115318	M-82816	2310305	77380.0	27340.0	50040.0	25.02
09/10/20	CSD	115307	M-82806	2310305	78900.0	27500.0	51400.0	25.70
09/10/20	CSD	NA	M-82805	2310305	78700.0	28580.0	50120.0	25.06
09/10/20	CSD	113305	M-82804	2310305	77660.0	28360.0	49300.0	24.65
09/10/20	CSD	115294	M-82794	2310305	77080.0	29560.0	47520.0	23.76
09/10/20	CSD	115295	M-82795	2310305	76420.0	26800.0	49620.0	24.81
09/10/20	CSD	115297	M-82796	2310305	78520.0	29300.0	49220.0	24.61
09/10/20	CSD	115298	M-82797	2310305	78740.0	27900.0	50840.0	25.42
09/10/20	CSD	115299	M-82798	2310305	74160.0	28980.0	45180.0	22.59
09/10/20	CSD	115300	M-82799	2310305	76660.0	28440.0	48220.0	24.11

09/10/20	CSD	115301	M-82800	2310305	74840.0	28500.0	46340.0	23.17
09/10/20	CSD	113302	M-82801	2310305	78660.0	28680.0	49980.0	24.99
09/10/20	CSD	115303	M-82802	2310305	77420.0	27180.0	50240.0	25.12
09/10/20	CSD	115304	M-82803	2310305	77400.0	29160.0	48240.0	24.12
09/11/20	CSD	115331	M-83387	2310305	78300.0	27500.0	50800.0	25.40
09/11/20	CSD	115319	M-83376	2310305	77120.0	29540.0	47580.0	23.79
09/11/20	CSD	115330	M-83386	2310305	77780.0	28360.0	49420.0	24.71
09/11/20	CSD	115329	M-83385	2310305	77860.0	28920.0	48940.0	24.47
09/11/20	CSD	115328	M-83384	2310305	77500.0	29160.0	48340.0	24.17
09/11/20	CSD	115327	M-83383	2310305	77760.0	28660.0	49100.0	24.55
09/11/20	CSD	115326	M-83382	2310305	77100.0	26740.0	50360.0	25.18
09/11/20	CSD	115332	M-83388	2310305	77300.0	29360.0	47940.0	23.97
09/11/20	CSD	115333	M-83389	2310305	78100.0	27940.0	50160.0	25.08
09/11/20	CSD	115335	M-83391	2310305	78000.0	28800.0	49200.0	24.60

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
09/11/20	CSD	115336	M-83392	2310305	73600.0	28760.0	44840.0	22.42
09/11/20	CSD	115337	M-83393	2310305	77080.0	28060.0	49020.0	24.51
09/11/20	CSD	115338	M-83394	2310305	76880.0	27880.0	49000.0	24.50
09/11/20	CSD	115339	M-83395	2310305	77020.0	27640.0	49380.0	24.69
09/11/20	CSD	115340	M-83396	2310305	77540.0	27800.0	49740.0	24.87
09/11/20	CSD	115342	M-83397	2310305	79060.0	27400.0	51660.0	25.83
09/11/20	CSD	115341	M-83398	2310305	77660.0	26820.0	50840.0	25.42
09/11/20	CSD	115325	M-83381	2310305	78220.0	27100.0	51120.0	25.56
09/11/20	CSD	115324	M-83380	2310305	76560.0	27900.0	48660.0	24.33
09/11/20	CSD	115323	M-83379	2310305	72980.0	28500.0	44480.0	22.24
09/11/20	CSD	115322	M-83378	2310305	73340.0	28700.0	44640.0	22.32
09/11/20	CSD	115321	M-83377	2310305	78320.0	28240.0	50080.0	25.04
09/11/20	CSD	115334	M-83390	2310305	77460.0	28180.0	49280.0	24.64
09/12/20	CSD	115349	M-82837	2310305	77520.0	27380.0	50140.0	25.07
09/12/20	CSD	115348	M-82836	2310305	74820.0	28520.0	46300.0	23.15
09/12/20	CSD	115347	M-82835`	2310305	77820.0	27860.0	49960.0	24.98
09/12/20	CSD	115345	M-82833	2310305	77820.0	27460.0	50360.0	25.18
09/12/20	CSD	115344	M-82832	2310305	77880.0	28440.0	49440.0	24.72
09/12/20	CSD	115350	M-82838	2310305	78540.0	29160.0	49380.0	24.69
09/12/20	CSD	115351	M-82839	2310305	77340.0	27800.0	49540.0	24.77
09/12/20	CSD	115346	M-82834	2310305	77860.0	28260.0	49600.0	24.80
09/12/20	CSD	115352	M-82840	2310305	77840.0	27980.0	49860.0	24.93
09/12/20	CSD	115353	M-82841	2310305	77720.0	29100.0	48620.0	24.31
09/12/20	CSD	115355	M-82842	2310305	77360.0	29240.0	48120.0	24.06
09/12/20	CSD	115354	M-82843	2310305	78200.0	28800.0	49400.0	24.70
09/12/20	CSD	115356	M-82844	2310305	75560.0	28800.0	46760.0	23.38

09/12/20	CSD	115357	M-82845	2310305	77420.0	26960.0	50460.0	25.23
09/14/20	CSD	115368	M-82874	2310305	77500.0	27500.0	50000.0	25.00
09/14/20	CSD	115358	M-82864	2310305	79580.0	29500.0	50080.0	25.04
09/14/20	CSD	115371	M-82877	2310305	78180.0	29240.0	48940.0	24.47
09/14/20	CSD	115332	M-82878	2310305	78580.0	28540.0	50040.0	25.02
09/14/20	CSD	115373	M-82879	2310305	76200.0	28720.0	47480.0	23.74
09/14/20	CSD	115375	M-82881	2310305	77800.0	27300.0	50500.0	25.25
09/14/20	CSD	115376	M-82882	2310305	79860.0	27440.0	52420.0	26.21
09/14/20	CSD	115377	M-82883	2310305	77480.0	26960.0	50520.0	25.26
09/14/20	CSD	115378	M-82884	2310305	78600.0	27940.0	50660.0	25.33
09/14/20	CSD	115379	M-82885	2310305	77700.0	27780.0	49920.0	24.96
09/14/20	CSD	115370	M-82876	2310305	76000.0	28860.0	47140.0	23.57
09/14/20	CSD	115369	M-82875	2310305	75500.0	29000.0	46500.0	23.25
09/14/20	CSD	115359	M-82865	2310305	77540.0	28400.0	49140.0	24.57

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
09/14/20	CSD	115360	M-82866	2310305	77020.0	27920.0	49100.0	24.55
09/14/20	CSD	115361	M-82867	2310305	77680.0	28320.0	49360.0	24.68
09/14/20	CSD	115363	M-82869	2310305	78120.0	26700.0	51420.0	25.71
09/14/20	CSD	115364	M-82870	2310305	79060.0	28420.0	50640.0	25.32
09/14/20	CSD	115365	M-82871	2310305	74820.0	29300.0	45520.0	22.76
09/14/20	CSD	115366	M-82872	2310305	78100.0	28560.0	49540.0	24.77
09/14/20	CSD	115367	M-82873	2310305	78660.0	27400.0	51260.0	25.63
09/14/20	CSD	115380	M-82886	2310305	78640.0	28260.0	50380.0	25.19
09/14/20	CSD	115374	M-82880	2310305	78640.0	28780.0	49860.0	24.93
09/14/20	CSD	115362	M-82868	2310305	75740.0	28500.0	47240.0	23.62
09/15/20	CSD	115403	M-82922	2310305	78080.0	27840.0	50240.0	25.12
09/15/20	CSD	115390	M-82910	2310305	76560.0	27520.0	49040.0	24.52
09/15/20	CSD	115389	M-82909	2310305	77660.0	26740.0	50920.0	25.46
09/15/20	CSD	115387	M-82907	2310305	77600.0	27380.0	50220.0	25.11
09/15/20	CSD	115388	M-82908	2310305	77100.0	27460.0	49640.0	24.82
09/15/20	CSD	115386	M-82906	2310305	74620.0	28520.0	46100.0	23.05
09/15/20	CSD	115385	M-82905	2310305	76560.0	28180.0	48380.0	24.19
09/15/20	CSD	115384	M-82904	2310305	77720.0	28280.0	49440.0	24.72
09/15/20	CSD	115383	M-82903	2310305	75120.0	28400.0	46720.0	23.36
09/15/20	CSD	115391	M-82911	2310305	77180.0	28440.0	48740.0	24.37
09/15/20	CSD	115392	M-82912	2310305	76240.0	28860.0	47380.0	23.69
09/15/20	CSD	115402	M-82921	2310305	77020.0	27100.0	49920.0	24.96
09/15/20	CSD	115401	M-82920	2310305	77320.0	28100.0	49220.0	24.61
09/15/20	CSD	115399	M-82918	2310305	77640.0	29240.0	48400.0	24.20
09/15/20	CSD	115382	M-82902	2310305	77620.0	29520.0	48100.0	24.05
09/15/20	CSD	115400	M-82919	2310305	77500.0	31160.0	46340.0	23.17

09/15/20	CSD	115399	M-82916	2310305	77460.0	28020.0	49440.0	24.72
09/15/20	CSD	115395	M-82915	2310305	78380.0	27480.0	50900.0	25.45
09/15/20	CSD	115394	M-82914	2310305	74960.0	27100.0	47860.0	23.93
09/15/20	CSD	115393	M-82913	2310305	77780.0	28340.0	49440.0	24.72
09/15/20	CSD	115398	M-82917	2310305	78160.0	28740.0	49420.0	24.71
09/16/20	CSD	115429	M-82959	2310305	76440.0	27160.0	49280.0	24.64
09/16/20	CSD	115405	M-82936	2310305	78680.0	27180.0	51500.0	25.75
09/16/20	CSD	115418	M-82949	2310305	77880.0	18360.0	59520.0	29.76
09/16/20	CSD	115420	M-82950	2310305	77740.0	28560.0	49180.0	24.59
09/16/20	CSD	115421	M-82951	2310305	77920.0	28740.0	49180.0	24.59
09/16/20	CSD	115422	M-82952	2310305	77240.0	29240.0	48000.0	24.00
09/16/20	CSD	115424	M-82954	2310305	78640.0	27800.0	50840.0	25.42
09/16/20	CSD	115425	M-82955	2310305	78000.0	27360.0	50640.0	25.32
09/16/20	CSD	115426	M-82956	2310305	76340.0	28840.0	47500.0	23.75

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
09/16/20	CSD	115427	M-82957	2310305	78540.0	27320.0	51220.0	25.61
09/16/20	CSD	115428	M-82958	2310305	77640.0	26980.0	50660.0	25.33
09/16/20	CSD	115423	M-82953	2310305	76840.0	28800.0	48040.0	24.02
09/16/20	CSD	115417	M-82948	2310305	78220.0	27480.0	50740.0	25.37
09/16/20	CSD	115416	M-82947	2310305	75100.0	28360.0	46740.0	23.37
09/16/20	CSD	115406	M-82937	2310305	77800.0	27680.0	50120.0	25.06
09/16/20	CSD	115407	M-82938	2310305	77980.0	28260.0	49720.0	24.86
09/16/20	CSD	115408	M-82939	2310305	77660.0	27920.0	49740.0	24.87
09/16/20	CSD	115409	M-82940	2310305	75940.0	28540.0	47400.0	23.70
09/16/20	CSD	115410	M-82941	2310305	76780.0	27560.0	49220.0	24.61
09/16/20	CSD	115411	M-82942	2310305	78840.0	27960.0	50880.0	25.44
09/16/20	CSD	115413	M-82944	2310305	77760.0	28440.0	49320.0	24.66
09/16/20	CSD	115414	M-82945	2310305	79000.0	26740.0	52260.0	26.13
09/16/20	CSD	115415	M-82946	2310305	75480.0	29120.0	46360.0	23.18
09/16/20	CSD	115412	M-82943	2310305	77040.0	27540.0	49500.0	24.75
09/17/20	CSD	115443	M-82986	2310305	77820.0	27740.0	50080.0	25.04
09/17/20	CSD	115431	M-82974	2310305	78100.0	29480.0	48620.0	24.31
09/17/20	CSD	115442	M-82985	2310305	78720.0	28960.0	49760.0	24.88
09/17/20	CSD	115444	M-82987	2310305	78670.0	29000.0	49670.0	24.84
09/17/20	CSD	115445	M-82988	2310305	78360.0	27160.0	51200.0	25.60
09/17/20	CSD	115446	M-82989	2310305	77780.0	27500.0	50280.0	25.14
09/17/20	CSD	115448	M-82990	2310305	78240.0	29240.0	49000.0	24.50
09/17/20	CSD	115449	M-82991	2310305	77880.0	27820.0	50060.0	25.03
09/17/20	CSD	115450	M-82992	2310305	78000.0	26940.0	51060.0	25.53
09/17/20	CSD	115453	M-82995	2310305	76180.0	27320.0	48860.0	24.43
09/17/20	CSD	115452	M-82994	2310305	77680.0	28780.0	48900.0	24.45

09/17/20	CSD	115451	M-82993	2310305	78040.0	27340.0	50700.0	25.35
09/17/20	CSD	115441	M-82984	2310305	78280.0	28480.0	49800.0	24.90
09/17/20	CSD	115440	M-82983	2310305	78040.0	26800.0	51240.0	25.62
09/17/20	CSD	115432	M-82975	2310305	76020.0	29340.0	46680.0	23.34
09/17/20	CSD	115433	M-82976	2310305	77920.0	28340.0	49580.0	24.79
09/17/20	CSD	115434	M-82977	2310305	76240.0	27900.0	48340.0	24.17
09/17/20	CSD	115435	M-82978	2310305	77720.0	27640.0	50080.0	25.04
09/17/20	CSD	115436	M-82979	2310305	74740.0	28520.0	46220.0	23.11
09/17/20	CSD	115437	M-82980	2310305	78480.0	27620.0	50860.0	25.43
09/17/20	CSD	115438	M-82981	2310305	78340.0	27980.0	50360.0	25.18
09/17/20	CSD	115439	M-82982	2310305	78780.0	28560.0	50220.0	25.11
09/18/20	CSD	115470	M-83025	2310305	75600.0	28500.0	47100.0	23.55
09/18/20	CSD	115477	M-83032	2310305	77000.0	27360.0	49640.0	24.82
09/18/20	CSD	115478	M-83033	2310305	78100.0	31500.0	46600.0	23.30

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
09/18/20	CSD	115455	M-83010	2310305	77800.0	28280.0	49520.0	24.76
09/18/20	CSD	115465	M-83020	2310305	77680.0	28580.0	49100.0	24.55
09/18/20	CSD	115464	M-83019	2310305	74820.0	29120.0	45700.0	22.85
09/18/20	CSD	115463	M-83018	2310305	75500.0	26760.0	48740.0	24.37
09/18/20	CSD	115462	M-83017	2310305	75620.0	28520.0	47100.0	23.55
09/18/20	CSD	115461	M-83016	2310305	77820.0	28000.0	49820.0	24.91
09/18/20	CSD	115460	M-83015	2310305	77740.0	27940.0	49800.0	24.90
09/18/20	CSD	115459	M-83014	2310305	77260.0	27640.0	49620.0	24.81
09/18/20	CSD	115458	M-83013	2310305	79020.0	27260.0	51760.0	25.88
09/18/20	CSD	115466	M-83021	2310305	78660.0	27600.0	51060.0	25.53
09/18/20	CSD	115467	M-83022	2310305	77740.0	28540.0	49200.0	24.60
09/18/20	CSD	115468	M-83023	2310305	77320.0	28400.0	48920.0	24.46
09/18/20	CSD	115457	M-83012	2310305	77080.0	29360.0	47720.0	23.86
09/18/20	CSD	115476	M-83031	2310305	75960.0	27120.0	48840.0	24.42
09/18/20	CSD	115475	M-83030	2310305	77780.0	27360.0	50420.0	25.21
09/18/20	CSD	115474	M-83029	2310305	76780.0	28420.0	48360.0	24.18
09/18/20	CSD	115473	M-83028	2310305	78880.0	27800.0	51080.0	25.54
09/18/20	CSD	115472	M-83027	2310305	77320.0	28500.0	48820.0	24.41
09/18/20	CSD	115471	M-83026	2310305	76960.0	29240.0	47720.0	23.86
09/18/20	CSD	115456	M-83011	2310305	77100.0	29540.0	47560.0	23.78
09/18/20	CSD	115469	M-83024	2310305	75300.0	27500.0	47800.0	23.90
09/21/20	CSD	115489	M-83077	2310305	78160.0	27580.0	50580.0	25.29
09/21/20	CSD	115488	M-83076	2310305	76960.0	26760.0	50200.0	25.10
09/21/20	CSD	115480	M-83069	2310305	77380.0	29320.0	48060.0	24.03
09/21/20	CSD	115487	M-83075	2310305	76480.0	28740.0	47740.0	23.87
09/21/20	CSD	115486	M-83074	2310305	76140.0	28820.0	47320.0	23.66

09/21/20	CSD	115485	M-83073	2310305	78080.0	29220.0	48860.0	24.43
09/21/20	CSD	NA	M-83072	2310305	76800.0	27360.0	49440.0	24.72
09/21/20	CSD	115483	M-83071	2310305	77120.0	29300.0	47820.0	23.91
09/21/20	CSD	115479	M-83068	2310305	78420.0	29460.0	48960.0	24.48
09/21/20	CSD	115482	M-83070	2310305	76120.0	27920.0	48200.0	24.10
09/21/20	CSD	115471	M-83079	2310305	77600.0	28480.0	49120.0	24.56
09/21/20	CSD	115499	M-83086	2310305	77060.0	27240.0	49820.0	24.91
09/21/20	CSD	115500	M-83087	2310305	76860.0	28440.0	48420.0	24.21
09/21/20	CSD	115498	M-83085	2310305	75220.0	27820.0	47400.0	23.70
09/21/20	CSD	115501	M-83088	2310305	77940.0	28460.0	49480.0	24.74
09/21/20	CSD	115497	M-83084	2310305	77500.0	28780.0	48720.0	24.36
09/21/20	CSD	115496	M-83083	2310305	77480.0	27740.0	49740.0	24.87
09/21/20	CSD	115502	M-83089	2310305	76880.0	26840.0	50040.0	25.02
09/21/20	CSD	115494	M-83082	2310305	75660.0	27600.0	48060.0	24.03

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
09/21/20	CSD	115493	M-83081	2310305	78720.0	27680.0	51040.0	25.52
09/21/20	CSD	115490	M-83078	2310305	77820.0	28500.0	49320.0	24.66
09/21/20	CSD	115492	M-83080	2310305	77000.0	27120.0	49880.0	24.94
09/22/20	CSD	115516	M-83118	2310305	77840.0	27820.0	50020.0	25.01
09/22/20	CSD	115524	M-83125	2310305	78700.0	29320.0	49380.0	24.69
09/22/20	CSD	115517	M-83119	2310305	75000.0	27820.0	47180.0	23.59
09/22/20	CSD	115518	M-83120	2310305	77120.0	27400.0	49720.0	24.86
09/22/20	CSD	115519	M-83121	2310305	78460.0	28440.0	50020.0	25.01
09/22/20	CSD	115521	M-83123	2310305	77720.0	28060.0	49660.0	24.83
09/22/20	CSD	115523	M-83124	2310305	77460.0	27140.0	50320.0	25.16
09/22/20	CSD	115520	M-83122	2310305	77540.0	27200.0	50340.0	25.17
09/22/20	CSD	115515	M-83117	2310305	77540.0	28380.0	49160.0	24.58
09/22/20	CSD	115514	M-83116	2310305	76140.0	27560.0	48580.0	24.29
09/22/20	CSD	115504	M-83106	2310305	78120.0	29580.0	48540.0	24.27
09/22/20	CSD	115505	M-83107	2310305	76200.0	29240.0	46960.0	23.48
09/22/20	CSD	115506	M-83108	2310305	77540.0	29360.0	48180.0	24.09
09/22/20	CSD	115507	M-83109	2310305	75700.0	28840.0	46860.0	23.43
09/22/20	CSD	115508	M-83110	2310305	76020.0	27080.0	48940.0	24.47
09/22/20	CSD	115509	M-83111	2310305	77780.0	29260.0	48520.0	24.26
09/22/20	CSD	115510	M-83112	2310305	73960.0	28820.0	45140.0	22.57
09/22/20	CSD	115511	M-83113	2310305	76140.0	27580.0	48560.0	24.28
09/22/20	CSD	115512	M-83114	2310305	76640.0	26740.0	49900.0	24.95
09/22/20	CSD	115513	M-83115	2310305	76620.0	28500.0	48120.0	24.06
09/23/20	CSD	115533	M-83145	2310305	75520.0	28920.0	46600.0	23.30
09/23/20	CSD	115532	M-83146	2310305	78300.0	27580.0	50720.0	25.36
09/23/20	CSD	115533	M-83147	2310305	77180.0	29320.0	47860.0	23.93

09/23/20	CSD	115534	M-83148	2310305	74720.0	28800.0	45920.0	22.96
09/23/20	CSD	115530	M-83144	2310305	76700.0	29280.0	47420.0	23.71
09/23/20	CSD	115529	M-83143	2310305	77660.0	27980.0	49680.0	24.84
09/23/20	CSD	115528	M-83142	2310305	78320.0	27280.0	51040.0	25.52
09/23/20	CSD	115540	M-83154	2310305	78000.0	29060.0	48940.0	24.47
09/23/20	CSD	115527	M-83141	2310305	77460.0	29360.0	48100.0	24.05
09/23/20	CSD	115525	M-83140	2310305	77720.0	29560.0	48160.0	24.08
09/23/20	CSD	115535	M-83149	2310305	77980.0	28000.0	49980.0	24.99
09/23/20	CSD	115546	M-83160	2310305	78140.0	26980.0	51160.0	25.58
09/23/20	CSD	115545	M-83159	2310305	78540.0	27140.0	51400.0	25.70
09/23/20	CSD	115547	M-83161	2310305	77820.0	28120.0	49700.0	24.85
09/23/20	CSD	115544	M-83158	2310305	77520.0	28380.0	49140.0	24.57
09/23/20	CSD	115543	M-83157	2310305	77200.0	28100.0	49100.0	24.55
09/23/20	CSD	115542	M-83156	2310305	78200.0	27820.0	50380.0	25.19

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
09/23/20	CSD	115541	M-83155	2310305	77900.0	27880.0	50020.0	25.01
09/23/20	CSD	115539	M-83153	2310305	78580.0	28500.0	50080.0	25.04
09/23/20	CSD	115538	M-83152	2310305	77520.0	27280.0	50240.0	25.12
09/23/20	CSD	115537	M-83151	2310305	77240.0	34340.0	42900.0	21.45
09/23/20	CSD	115536	M-83150	2310305	77940.0	28380.0	49560.0	24.78
09/24/20	CSD	115562	M-83191	2310305	78120.0	27760.0	50360.0	25.18
09/24/20	CSD	115563	M-83192	2310305	78820.0	27800.0	51020.0	25.51
09/24/20	CSD	115564	M-83193	2310305	78860.0	29400.0	49460.0	24.73
09/24/20	CSD	115566	M-83195	2310305	76860.0	27840.0	49020.0	24.51
09/24/20	CSD	115565	M-83194	2310305	77890.0	28120.0	49770.0	24.89
09/24/20	CSD	115567	M-83196	2310305	79240.0	27160.0	52080.0	26.04
09/24/20	CSD	115568	M-83197	2310305	78740.0	26960.0	51780.0	25.89
09/24/20	CSD	115569	M-83198	2310305	78140.0	28140.0	50000.0	25.00
09/24/20	CSD	115561	M-83190	2310305	78320.0	27200.0	51120.0	25.56
09/24/20	CSD	115560	M-83189	2310305	77980.0	27980.0	50000.0	25.00
09/24/20	CSD	115551	M-83180	2310305	78720.0	27280.0	51440.0	25.72
09/24/20	CSD	115548	M-83177	2310305	78440.0	29540.0	48900.0	24.45
09/24/20	CSD	115549	M-83178	2310305	77900.0	29320.0	48580.0	24.29
09/24/20	CSD	115550	M-83179	2310305	77060.0	28960.0	48100.0	24.05
09/24/20	CSD	115552	M-83181	2310305	76760.0	29060.0	47700.0	23.85
09/24/20	CSD	115553	M-83182	2310305	78080.0	27180.0	50900.0	25.45
09/24/20	CSD	115554	M-83183	2310305	76980.0	28800.0	48180.0	24.09
09/24/20	CSD	115555	M-83184	2310305	78040.0	27560.0	50480.0	25.24
09/24/20	CSD	115556	M-83185	2310305	78880.0	28640.0	50240.0	25.12
09/24/20	CSD	115557	M-83186	2310305	78680.0	27940.0	50740.0	25.37
09/24/20	CSD	115558	M-83187	2310305	77460.0	28500.0	48960.0	24.48

09/24/20	CSD	115555	M-83188	2310305	76680.0	28420.0	48260.0	24.13
09/25/20	CSD	115585	M-83228	2310305	77420.0	28660.0	48760.0	24.38
09/25/20	CSD	115584	M-83227	2310305	77480.0	27600.0	49880.0	24.94
09/25/20	CSD	115583	M-83226	2310305	77940.0	27560.0	50380.0	25.19
09/25/20	CSD	115582	M-83225	2310305	77140.0	27080.0	50060.0	25.03
09/25/20	CSD	115575	M-83222	2310305	76140.0	28880.0	47260.0	23.63
09/25/20	CSD	115586	M-83229	2310305	78840.0	27100.0	51740.0	25.87
09/25/20	CSD	115575	M-83218	2310305	77120.0	27100.0	50020.0	25.01
09/25/20	CSD	115587	M-83230	2310305	75960.0	28140.0	47820.0	23.91
09/25/20	CSD	115588	M-83231	2310305	77760.0	27100.0	50660.0	25.33
09/25/20	CSD	115589	M-83232	2310305	77080.0	28120.0	48960.0	24.48
09/25/20	CSD	115581	M-83224	2310305	77160.0	27980.0	49180.0	24.59
09/25/20	CSD	115590	M-83233	2310305	77860.0	29320.0	48540.0	24.27
09/25/20	CSD	115580	M-83223	2310305	77020.0	28700.0	48320.0	24.16

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
09/25/20	CSD	115578	M-83221	2310305	76280.0	27940.0	48340.0	24.17
09/25/20	CSD	115577	M-83220	2310305	75640.0	28780.0	46860.0	23.43
09/25/20	CSD	115572	M-83215	2310305	76780.0	29340.0	47440.0	23.72
09/25/20	CSD	115573	M-83216	2310305	76360.0	27900.0	48460.0	24.23
09/25/20	CSD	113574	M-83217	2310305	77100.0	27400.0	49700.0	24.85
09/25/20	CSD	115571	M-83214	2310305	77340.0	29500.0	47840.0	23.92
09/25/20	CSD	115576	M-83219	2310305	74180.0	28840.0	45340.0	22.67
09/28/20	CSD	115606	M-83287	2310305	78240.0	28100.0	50140.0	25.07
09/28/20	CSD	115593	M-83274	2310305	75640.0	27900.0	47740.0	23.87
09/28/20	CSD	115594	M-83275	2310305	77200.0	28420.0	48780.0	24.39
09/28/20	CSD	115595	M-83276	2310305	77460.0	27060.0	50400.0	25.20
09/28/20	CSD	115596	M-83277	2310305	76740.0	28840.0	47900.0	23.95
09/28/20	CSD	115597	M-83278	2310305	76340.0	28520.0	47820.0	23.91
09/28/20	CSD	115598	M-83279	2310305	77520.0	28480.0	49040.0	24.52
09/28/20	CSD	115599	M-83280	2310305	77780.0	27940.0	49840.0	24.92
09/28/20	CSD	115601	M-83282	2310305	78180.0	28460.0	49720.0	24.86
09/28/20	CSD	115602	M-83283	2310305	79380.0	27220.0	52160.0	26.08
09/28/20	CSD	115603	M-83284	2310305	76660.0	27120.0	49540.0	24.77
09/28/20	CSD	115600	M-83281	2310305	78640.0	27560.0	51080.0	25.54
09/28/20	CSD	115604	M-83285	2310305	79060.0	27720.0	51340.0	25.67
09/28/20	CSD	115609	M-83290	2310305	75780.0	27280.0	48500.0	24.25
09/28/20	CSD	115605	M-83286	2310305	77580.0	29360.0	48220.0	24.11
09/28/20	CSD	115608	M-83289	2310305	79200.0	27100.0	52100.0	26.05
09/28/20	CSD	115607	M-83288	2310305	77300.0	28740.0	48560.0	24.28
09/28/20	CSD	115592	M-83273	2310305	78620.0	29300.0	49320.0	24.66
09/28/20	CSD	115591	M-83272	2310305	77840.0	29500.0	48340.0	24.17

09/29/20	CSD	115613	M-83310	2310305	76920.0	28420.0	48500.0	24.25
09/29/20	CSD	115612	M-83309	2310305	77240.0	29520.0	47720.0	23.86
09/29/20	CSD	115614	M-83311	2310305	77420.0	27060.0	50360.0	25.18
09/29/20	CSD	115615	M-83312	2310305	76420.0	27900.0	48520.0	24.26
09/29/20	CSD	115616	M-83313	2310305	75660.0	28780.0	46880.0	23.44
09/29/20	CSD	115617	M-83314	2310305	75460.0	29240.0	46220.0	23.11
09/29/20	CSD	115618	M-83315	2310305	77420.0	27580.0	49840.0	24.92
09/29/20	CSD	115619	M-83316	2310305	77900.0	27760.0	50140.0	25.07
09/29/20	CSD	115620	M-83317	2310305	77060.0	28480.0	48580.0	24.29
09/29/20	CSD	115621	M-83318	2310305	77340.0	28540.0	48800.0	24.40
09/29/20	CSD	115622	M-83319	2310305	76860.0	27140.0	49720.0	24.86
09/29/20	CSD	115623	M-83320	2310305	78380.0	27100.0	51280.0	25.64
09/29/20	CSD	115624	M-83321	2310305	77300.0	29360.0	47940.0	23.97
09/29/20	CSD	115625	M-83322	2310305	78200.0	27140.0	51060.0	25.53

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
09/29/20	CSD	115626	M-83323	2310305	76460.0	28760.0	47700.0	23.85
09/29/20	CSD	115627	M-83324	2310305	78140.0	27360.0	50780.0	25.39
09/29/20	CSD	115628	M-83325	2310305	77500.0	29580.0	47920.0	23.96
09/29/20	CSD	115611	M-83308	2310305	78260.0	29320.0	48940.0	24.47
09/30/20	CSD	115638	M-83350	2310305	77240.0	27580.0	49660.0	24.83
09/30/20	CSD	115647	M-83358	2310305	78180.0	27160.0	51020.0	25.51
09/30/20	CSD	115646	M-83357	2310305	79340.0	29180.0	50160.0	25.08
09/30/20	CSD	115645	M-83356	2310305	75040.0	28700.0	46340.0	23.17
09/30/20	CSD	115630	M-83342	2310305	78560.0	29320.0	49240.0	24.62
09/30/20	CSD	115644	M-83355	2310305	78120.0	29280.0	48840.0	24.42
09/30/20	CSD	115631	M-83343	2310305	77040.0	27800.0	49240.0	24.62
09/30/20	CSD	115632	M-83344	2310305	77840.0	28420.0	49420.0	24.71
09/30/20	CSD	115643	M-83354	2310305	75860.0	27780.0	48080.0	24.04
09/30/20	CSD	115642	M-83353	2310305	79900.0	29360.0	50540.0	25.27
09/30/20	CSD	115636	M-83348	2310305	75860.0	28540.0	47320.0	23.66
09/30/20	CSD	115633	M-83345	2310305	76500.0	28520.0	47980.0	23.99
09/30/20	CSD	115634	M-83346	2310305	77300.0	27120.0	50180.0	25.09
09/30/20	CSD	115635	M-83347	2310305	77600.0	28860.0	48740.0	24.37
09/30/20	CSD	115641	M-83352	2310305	77820.0	27360.0	50460.0	25.23
09/30/20	CSD	115629	M-83341	2310305	79740.0	29520.0	50220.0	25.11
09/30/20	CSD	115637	M-83349	2310305	77480.0	28520.0	48960.0	24.48
09/30/20	CSD	115639	M-83351	2310305	77340.0	27200.0	50140.0	25.07
09/30/20	CSD	115648	M-83359	2310305	79520.0	29560.0	49960.0	24.98

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Monthly Biosolids Report to

City of San Diego

For October 2020

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Summary for City of San Diego
October 2020

Field 2310305 received 59 loads totaling 1458.3 tons of Biosolids between 10/01/20 and 10/05/20

Field 2310196 received 398 loads totaling 9698.34 tons of Biosolids between 10/06/20 and 10/30/20

Field 2310331 received 1 loads totaling 24.39 tons of Biosolids between 10/27/20 and 10/27/20

Composition analysis dated 10/01/20 was used to determine the makeup of the biosolids loaded between 10/01/20 and 10/01/20

Solids %: 26.8000
Composition PPM (mg/kg)
Arsenic (As): 0.0000
Cadmium (Cd): 1.3800
Chromium (Cr): 51.0000
Copper (Cu): 610.0000
Lead (Pb): 11.4000
Mercury (Hg): 0.9500
Molybdenum (Mo): 17.3000
Nickel (Ni): 24.0000
Selenium (Se): 3.0900
Zinc (Zn): 936.0000
Organic Nitrogen (OrgN): 44370.0000
Ammoniacal Nitrogen (NH3-N): 6430.0000
Nitrate Nitrogen (NO3-N): 0.0000

Composition analysis dated 10/01/20 was used between 10/01/20 and 10/27/20

Solids %: 26.8000
Composition PPM (mg/kg)
Arsenic (As): 0.0000
Cadmium (Cd): 1.3800
Chromium (Cr): 51.0000

Copper (Cu): 610.0000
Lead (Pb): 11.4000
Mercury (Hg): 0.9500
Molybdenum (Mo): 17.3000
Nickel (Ni): 24.0000
Selenium (Se): 3.0900
Zinc (Zn): 936.0000
Organic Nitrogen (OrgN): 44370.0000
Ammoniacal Nitrogen (NH3-N): 6430.0000
Nitrate Nitrogen (NO3-N): 0.0000

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Application Summary for Field 2310305
City of San Diego - October 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: AGTECH Pivot: DU-13 Field: 2310305 Area: 60.00 Acres = 24.28 Hectares
Location: N2 SE4 T10S R23W SEC 30 GSRBM , Yuma, AZ
Latitude: N 32 31 38.4 Longitude: W 114 39 12.9

59 loads of Biosolids were applied to field 2310305 from 10/01/20 to 10/05/20
Application Method: Incorporation

Analysis Date(s): 10/01/20 10/01/20

Solids Percentage: 26.8%

Wet Biosolids Applied:	1458.3 Tons	1322.95 Metric Tons
Dry Biosolids Applied:	390.82 Tons	354.55 Metric Tons
Wet Application Rate:	24.31 Tons/Acre	54.48 Metric Tons/ha
Dry Application Rate:	6.51 Tons/Acre	14.6 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	0.00	0.00	0.00
Cadmium (Cd):	1.38	0.02	0.02
Chromium (Cr):	0	0.74	0.66
Copper (Cu):	610.00	8.91	7.95
Lead (Pb):	11.40	0.17	0.15
Mercury (Hg):	0.95	0.01	0.01
Molybdenum (Mo):	17.30	0.25	0.23

Nickel (Ni):	24.00	0.35	0.31
Selenium (Se):	3.09	0.05	0.04
Zinc (Zn):	936.00	13.67	12.19
Organic Nitrogen (OrgN):	44,370.00	647.88	578.03
Ammoniacal Nitrogen (NH3-N):	6,430.00	93.89	83.77
Nitrate Nitrogen (NO3-N):	0.00	0.00	0.00
Total Kjeldahl Nitrogen (TKN):	50,800.00	741.77	661.8

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Application Summary for Field 2310196
City of San Diego - October 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: AGTECH Pivot: DU-8 Field: 2310196 Area: 60.00 Acres = 24.28 Hectares
Location: S2 SW4 T10S R23W SEC 19 GSRBM , Yuma, AZ
Latitude: N 32 32 30.6 Longitude: W 114 39 44.4

398 loads of Biosolids were applied to field 2310196 from 10/06/20 to 10/30/20
Application Method: Incorporation

Analysis Date(s): 10/01/20

Solids Percentage: 26.8%

Wet Biosolids Applied:	9698.34 Tons	8798.19 Metric Tons
Dry Biosolids Applied:	2599.16 Tons	2357.91 Metric Tons
Wet Application Rate:	161.64 Tons/Acre	362.35 Metric Tons/ha
Dry Application Rate:	43.32 Tons/Acre	97.11 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	0.00	0.00	0.00
Cadmium (Cd):	1.38	0.13	0.12
Chromium (Cr):	0	4.95	4.42
Copper (Cu):	610.00	59.24	52.85
Lead (Pb):	11.40	1.11	0.99
Mercury (Hg):	0.95	0.09	0.08
Molybdenum (Mo):	17.30	1.68	1.50

Nickel (Ni):	24.00	2.33	2.08
Selenium (Se):	3.09	0.30	0.27
Zinc (Zn):	936.00	90.89	81.09
Organic Nitrogen (OrgN):	44,370.00	4,308.71	3,844.14
Ammoniacal Nitrogen (NH3-N):	6,430.00	624.41	557.08
Nitrate Nitrogen (NO3-N):	0.00	0.00	0.00
Total Kjeldahl Nitrogen (TKN):	50,800.00	628.41	560.08

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Application Summary for Field 2310331
City of San Diego - October 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: Desert Ridge Farms Pivot: A Field: 2310331 Area: 60.00 Acres = 24.28 Hectares
Location: , Yuma , AZ
Latitude: N 32 31 11.2 Longitude: W 114 37 37.8

1 loads of Biosolids were applied to field 2310331 from 10/27/20 to 10/27/20
Application Method: Incorporation

Analysis Date(s): 10/01/20

Solids Percentage: 26.8%

Wet Biosolids Applied:	24.39 Tons	22.13 Metric Tons
Dry Biosolids Applied:	6.54 Tons	5.93 Metric Tons
Wet Application Rate:	0.41 Tons/Acre	0.91 Metric Tons/ha
Dry Application Rate:	0.11 Tons/Acre	0.24 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	0.00	0.00	0.00
Cadmium (Cd):	1.38	0.00	0.00
Chromium (Cr):	0	0.01	0.01
Copper (Cu):	610.00	0.15	0.13
Lead (Pb):	11.40	0.00	0.00
Mercury (Hg):	0.95	0.00	0.00
Molybdenum (Mo):	17.30	0.00	0.00

Nickel (Ni):	24.00	0.01	0.01
Selenium (Se):	3.09	0.00	0.00
Zinc (Zn):	936.00	0.23	0.20
Organic Nitrogen (OrgN):	44,370.00	10.84	9.67
Ammoniacal Nitrogen (NH3-N):	6,430.00	1.57	1.40
Nitrate Nitrogen (NO3-N):	0.00	0.00	0.00
Total Kjeldahl Nitrogen (TKN):	50,800.00	12.41	11.07

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
10/01/20	CSD	115649	M-83413	2310305	77740.0	29520.0	48220.0	24.11
10/01/20	CSD	115662	M-83425	2310305	77640.0	26900.0	50740.0	25.37
10/01/20	CSD	115663	M-83426	2310305	77460.0	27760.0	49700.0	24.85
10/01/20	CSD	115664	M-83427	2310305	77220.0	27100.0	50120.0	25.06
10/01/20	CSD	115665	M-83428	2310305	77580.0	29340.0	48240.0	24.12
10/01/20	CSD	115666	M-83429	2310305	77420.0	27140.0	50280.0	25.14
10/01/20	CSD	115667	M-83430	2310305	78700.0	27160.0	51540.0	25.77
10/01/20	CSD	115668	M-83431	2310305	78720.0	27880.0	50840.0	25.42
10/01/20	CSD	115669	M-83432	2310305	77820.0	27100.0	50720.0	25.36
10/01/20	CSD	115670	M-83433	2310305	77480.0	29520.0	47960.0	23.98
10/01/20	CSD	115661	M-83424	2310305	75540.0	29220.0	46320.0	23.16
10/01/20	CSD	115660	M-83423	2310305	77540.0	28380.0	49160.0	24.58
10/01/20	CSD	115651	M-83414	2310305	77220.0	29380.0	47840.0	23.92
10/01/20	CSD	115652	M-83415	2310305	77760.0	28380.0	49380.0	24.69
10/01/20	CSD	115653	M-83416	2310305	77660.0	27120.0	50540.0	25.27
10/01/20	CSD	115654	M-83417	2310305	77040.0	28520.0	48520.0	24.26
10/01/20	CSD	NA	M-83418	2310305	77480.0	28460.0	49020.0	24.51
10/01/20	CSD	115656	M-83419	2310305	75040.0	28860.0	46180.0	23.09
10/01/20	CSD	115657	M-83420	2310305	77920.0	27540.0	50380.0	25.19
10/01/20	CSD	115658	M-83421	2310305	78160.0	29120.0	49040.0	24.52
10/01/20	CSD	115659	M-83422	2310305	78700.0	27120.0	51580.0	25.79
10/02/20	CSD	115682	M-83460	2310305	75880.0	28420.0	47460.0	23.73
10/02/20	CSD	115683	M-83461	2310305	78040.0	29340.0	48700.0	24.35
10/02/20	CSD	115684	M-83462	2310305	76180.0	28000.0	48180.0	24.09
10/02/20	CSD	115685	M-83463	2310305	77180.0	26780.0	50400.0	25.20
10/02/20	CSD	115686	M-83464	2310305	78180.0	27280.0	50900.0	25.45

10/02/20	CSD	115687	M-83465	2310305	77380.0	27140.0	50240.0	25.12
10/02/20	CSD	115688	M-83466	2310305	80160.0	29560.0	50600.0	25.30
10/02/20	CSD	115689	M-83467	2310305	77860.0	28660.0	49200.0	24.60
10/02/20	CSD	115681	M-83459	2310305	78220.0	27560.0	50660.0	25.33
10/02/20	CSD	115680	M-83458	2310305	76520.0	28440.0	48080.0	24.04
10/02/20	CSD	115679	M-83457	2310305	76940.0	27180.0	49760.0	24.88
10/02/20	CSD	115671	M-83449	2310305	76960.0	29340.0	47620.0	23.81
10/02/20	CSD	115672	M-83450	2310305	77620.0	29520.0	48100.0	24.05
10/02/20	CSD	115613	M-83451	2310305	76880.0	27340.0	49540.0	24.77
10/02/20	CSD	115674	M-83452	2310305	76760.0	28600.0	48160.0	24.08
10/02/20	CSD	115675	M-83453	2310305	77060.0	27900.0	49160.0	24.58
10/02/20	CSD	115676	M-83454	2310305	76640.0	28740.0	47900.0	23.95
10/02/20	CSD	115677	M-83455	2310305	74740.0	28860.0	45880.0	22.94
10/02/20	CSD	115678	M-83456	2310305	77560.0	28460.0	49100.0	24.55

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
10/05/20	CSD	115701	M-83518	2310305	77260.0	26940.0	50320.0	25.16
10/05/20	CSD	115702	M-83519	2310305	77460.0	27540.0	49920.0	24.96
10/05/20	CSD	115703	M-83520	2310305	77420.0	22700.0	54720.0	27.36
10/05/20	CSD	115704	M-83521	2310305	79060.0	27180.0	51880.0	25.94
10/05/20	CSD	115705	M-83522	2310305	77720.0	27060.0	50660.0	25.33
10/05/20	CSD	115706	M-83523	2310305	76500.0	26700.0	49800.0	24.90
10/05/20	CSD	115707	M-83524	2310305	77940.0	29200.0	48740.0	24.37
10/05/20	CSD	115708	M-83525	2310305	79380.0	29520.0	49860.0	24.93
10/05/20	CSD	115700	M-83517	2310305	78620.0	29320.0	49300.0	24.65
10/05/20	CSD	115699	M-83516	2310305	77200.0	28500.0	48700.0	24.35
10/05/20	CSD	115698	M-83515	2310305	80220.0	27780.0	52440.0	26.22
10/05/20	CSD	115690	M-83507	2310305	78760.0	29440.0	49320.0	24.66
10/05/20	CSD	115691	M-83508	2310305	77920.0	29340.0	48580.0	24.29
10/05/20	CSD	115692	M-83509	2310305	76520.0	28580.0	47940.0	23.97
10/05/20	CSD	115693	M-83510	2310305	78000.0	28280.0	49720.0	24.86
10/05/20	CSD	115694	M-83511	2310305	74600.0	26880.0	47720.0	23.86
10/05/20	CSD	115695	M-83512	2310305	78740.0	27140.0	51600.0	25.80
10/05/20	CSD	115696	M-83513	2310305	78380.0	28500.0	49880.0	24.94
10/05/20	CSD	115697	M-83514	2310305	77980.0	28440.0	49540.0	24.77
10/06/20	CSD	115723	M-83552	2310196	78180.0	29120.0	49060.0	24.53
10/06/20	CSD	115724	M-83553	2310196	77660.0	27480.0	50180.0	25.09
10/06/20	CSD	115725	M-83554	2310196	75540.0	28900.0	46640.0	23.32
10/06/20	CSD	115726	M-83555	2310196	77540.0	27080.0	50460.0	25.23
10/06/20	CSD	115727	M-83556	2310196	75280.0	26800.0	48480.0	24.24
10/06/20	CSD	115728	M-83557	2310196	77600.0	27180.0	50420.0	25.21
10/06/20	CSD	115729	M-83558	2310196	76800.0	28560.0	48240.0	24.12

10/06/20	CSD	115730	M-83559	2310196	76800.0	27060.0	49740.0	24.87
10/06/20	CSD	115731	M-83560	2310196	77860.0	28260.0	49600.0	24.80
10/06/20	CSD	115732	M-83561	2310196	79080.0	27680.0	51400.0	25.70
10/06/20	CSD	115722	M-83551	2310196	77520.0	27740.0	49780.0	24.89
10/06/20	CSD	115721	M-83550	2310196	77620.0	29340.0	48280.0	24.14
10/06/20	CSD	NA	M-83540	2310196	77940.0	29520.0	48420.0	24.21
10/06/20	CSD	115710	M-83541	2310196	77640.0	29300.0	48340.0	24.17
10/06/20	CSD	115711	M-83542	2310196	76820.0	27440.0	49380.0	24.69
10/06/20	CSD	115712	M-83543	2310196	77080.0	28300.0	48780.0	24.39
10/06/20	CSD	115713	M-83544	2310196	76940.0	28500.0	48440.0	24.22
10/06/20	CSD	115714	M-83545	2310196	77880.0	27040.0	50840.0	25.42
10/06/20	CSD	115715	M-83546	2310196	74540.0	28860.0	45680.0	22.84
10/06/20	CSD	115716	M-83547	2310196	75120.0	28500.0	46620.0	23.31
10/06/20	CSD	115717	M-83548	2310196	78160.0	27160.0	51000.0	25.50

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
10/06/20	CSD	115719	M-83549	2310196	76820.0	27820.0	49000.0	24.50
10/07/20	CSD	115753	M-83593	2310196	77660.0	27680.0	49980.0	24.99
10/07/20	CSD	115752	M-83592	2310196	77420.0	27160.0	50260.0	25.13
10/07/20	CSD	115751	M-83591	2310196	77720.0	28700.0	49020.0	24.51
10/07/20	CSD	115749	M-83590	2310196	77220.0	27560.0	49660.0	24.83
10/07/20	CSD	115754	M-83594	2310196	75740.0	28820.0	46920.0	23.46
10/07/20	CSD	115755	M-83595	2310196	78280.0	27100.0	51180.0	25.59
10/07/20	CSD	115756	M-83596	2310196	77620.0	28540.0	49080.0	24.54
10/07/20	CSD	115757	M-83597	2310196	77640.0	27040.0	50600.0	25.30
10/07/20	CSD	115758	M-83598	2310196	76980.0	29600.0	47380.0	23.69
10/07/20	CSD	115759	M-83599	2310196	75500.0	28320.0	47180.0	23.59
10/07/20	CSD	115748	M-83589	2310196	77440.0	27740.0	49700.0	24.85
10/07/20	CSD	115747	M-83588	2310196	77660.0	29360.0	48300.0	24.15
10/07/20	CSD	115733	M-83578	2310196	77020.0	29480.0	47540.0	23.77
10/07/20	CSD	115734	M-83579	2310196	77060.0	28380.0	48680.0	24.34
10/07/20	CSD	115735	M-83580	2310196	77360.0	27460.0	49900.0	24.95
10/07/20	CSD	115736	M-83581	2310196	76500.0	28500.0	48000.0	24.00
10/07/20	CSD	115738	M-83582	2310196	75940.0	28520.0	47420.0	23.71
10/07/20	CSD	115735	M-83583	2310196	75780.0	29220.0	46560.0	23.28
10/07/20	CSD	115740	M-83584	2310196	75280.0	29360.0	45920.0	22.96
10/07/20	CSD	115741	M-83585	2310196	77140.0	28400.0	48740.0	24.37
10/07/20	CSD	115743	M-83586	2310196	77440.0	28020.0	49420.0	24.71
10/07/20	CSD	115745	M-83587	2310196	76520.0	28820.0	47700.0	23.85
10/08/20	CSD	115773	M-83664	2310196	77780.0	28400.0	49380.0	24.69
10/08/20	CSD	115774	M-83665	2310196	77400.0	27780.0	49620.0	24.81
10/08/20	CSD	115775	M-83666	2310196	78440.0	29320.0	49120.0	24.56

10/08/20	CSD	115776	M-83667	2310196	77320.0	27220.0	50100.0	25.05
10/08/20	CSD	115777	M-83668	2310196	77280.0	28920.0	48360.0	24.18
10/08/20	CSD	115778	M-83669	2310196	77320.0	27580.0	49740.0	24.87
10/08/20	CSD	115779	M-83670	2310196	78040.0	28460.0	49580.0	24.79
10/08/20	CSD	115781	M-83671	2310196	77860.0	29540.0	48320.0	24.16
10/08/20	CSD	115780	M-83672	2310196	76900.0	28700.0	48200.0	24.10
10/08/20	CSD	115772	M-83663	2310196	77360.0	27820.0	49540.0	24.77
10/08/20	CSD	115771	M-83662	2310196	75820.0	28880.0	46940.0	23.47
10/08/20	CSD	48244	M-83653	2310196	77180.0	26500.0	50680.0	25.34
10/08/20	CSD	115761	M-83654	2310196	77320.0	29340.0	47980.0	23.99
10/08/20	CSD	115762	M-83655	2310196	79020.0	27880.0	51140.0	25.57
10/08/20	CSD	115763	M-83656	2310196	77920.0	28400.0	49520.0	24.76
10/08/20	CSD	115764	M-83657	2310196	76680.0	29040.0	47640.0	23.82
10/08/20	CSD	115766	M-83658	2310196	77240.0	27180.0	50060.0	25.03

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
10/08/20	CSD	115767	M-83659	2310196	75040.0	29060.0	45980.0	22.99
10/08/20	CSD	115768	M-83660	2310196	77580.0	27460.0	50120.0	25.06
10/08/20	CSD	115770	M-83661	2310196	76020.0	28520.0	47500.0	23.75
10/09/20	CSD	115793	M-83628	2310196	75080.0	29060.0	46020.0	23.01
10/09/20	CSD	115794	M-83629	2310196	77760.0	27780.0	49980.0	24.99
10/09/20	CSD	115795	M-83630	2310196	77560.0	29340.0	48220.0	24.11
10/09/20	CSD	115796	M-83631	2310196	77640.0	27220.0	50420.0	25.21
10/09/20	CSD	115797	M-83632	2310196	77800.0	27080.0	50720.0	25.36
10/09/20	CSD	115798	M-83633	2310196	77080.0	27580.0	49500.0	24.75
10/09/20	CSD	115799	M-83634	2310196	76840.0	28920.0	47920.0	23.96
10/09/20	CSD	115801	M-83635	2310196	77520.0	28540.0	48980.0	24.49
10/09/20	CSD	115802	M-83636	2310196	77100.0	30720.0	46380.0	23.19
10/09/20	CSD	115782	M-83627	2310196	77240.0	28480.0	48760.0	24.38
10/09/20	CSD	115791	M-83626	2310196	78000.0	27780.0	50220.0	25.11
10/09/20	CSD	115709	M-83625	2310196	77780.0	28380.0	49400.0	24.70
10/09/20	CSD	115800	M-83616	2310196	77140.0	27260.0	49880.0	24.94
10/09/20	CSD	115782	M-83617	2310196	77400.0	28380.0	49020.0	24.51
10/09/20	CSD	115783	M-83618	2310196	78040.0	29520.0	48520.0	24.26
10/09/20	CSD	115784	M-83619	2310196	77840.0	29000.0	48840.0	24.42
10/09/20	CSD	115785	M-83620	2310196	77540.0	27900.0	49640.0	24.82
10/09/20	CSD	115789	M-83621	2310196	72920.0	28940.0	43980.0	21.99
10/09/20	CSD	115787	M-83622	2310196	79340.0	27420.0	51920.0	25.96
10/09/20	CSD	115788	M-83623	2310196	75580.0	28520.0	47060.0	23.53
10/09/20	CSD	115789	M-83624	2310196	75620.0	29220.0	46400.0	23.20
10/12/20	CSD	115816	M-83721	2310196	77200.0	29080.0	48120.0	24.06
10/12/20	CSD	115817	M-83722	2310196	77840.0	27560.0	50280.0	25.14

10/12/20	CSD	115818	M-83723	2310196	77440.0	28920.0	48520.0	24.26
10/12/20	CSD	115819	M-83724	2310196	80420.0	29120.0	51300.0	25.65
10/12/20	CSD	115820	M-83725	2310196	77360.0	27240.0	50120.0	25.06
10/12/20	CSD	115821	M-83726	2310196	78880.0	29320.0	49560.0	24.78
10/12/20	CSD	115822	M-83727	2310196	77720.0	28420.0	49300.0	24.65
10/12/20	CSD	115823	M-83728	2310196	77600.0	28460.0	49140.0	24.57
10/12/20	CSD	115824	M-83729	2310196	77400.0	28560.0	48840.0	24.42
10/12/20	CSD	115825	M-83730	2310196	78620.0	27020.0	51600.0	25.80
10/12/20	CSD	115815	M-83720	2310196	79380.0	27720.0	51660.0	25.83
10/12/20	CSD	115814	M-83719	2310196	78400.0	27740.0	50660.0	25.33
10/12/20	CSD	115803	M-83709	2310196	76680.0	29340.0	47340.0	23.67
10/12/20	CSD	115804	M-83710	2310196	78660.0	29440.0	49220.0	24.61
10/12/20	CSD	115806	M-83711	2310196	79260.0	28340.0	50920.0	25.46
10/12/20	CSD	116807	M-83712	2310196	79020.0	29440.0	49580.0	24.79

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
10/12/20	CSD	115808	M-83713	2310196	78600.0	27500.0	51100.0	25.55
10/12/20	CSD	115809	M-83714	2310196	75440.0	29220.0	46220.0	23.11
10/12/20	CSD	115810	M-83715	2310196	78000.0	27420.0	50580.0	25.29
10/12/20	CSD	115811	M-83716	2310196	74740.0	28560.0	46180.0	23.09
10/12/20	CSD	115812	M-83717	2310196	76340.0	28940.0	47400.0	23.70
10/12/20	CSD	115813	M-83718	2310196	79280.0	27800.0	51480.0	25.74
10/13/20	CSD	115840	M-83759	2310196	77960.0	27720.0	50240.0	25.12
10/13/20	CSD	115841	M-83760	2310196	77640.0	29340.0	48300.0	24.15
10/13/20	CSD	115842	M-83761	2310196	77760.0	27560.0	50200.0	25.10
10/13/20	CSD	115843	M-83762	2310196	78740.0	27560.0	51180.0	25.59
10/13/20	CSD	115844	M-83763	2310196	78400.0	28560.0	49840.0	24.92
10/13/20	CSD	115845	M-83764	2310196	78320.0	27460.0	50860.0	25.43
10/13/20	CSD	115846	M-83765	2310196	75560.0	28160.0	47400.0	23.70
10/13/20	CSD	115842	M-83766	2310196	74180.0	28520.0	45660.0	22.83
10/13/20	CSD	115848	M-83767	2310196	77580.0	27120.0	50460.0	25.23
10/13/20	CSD	115839	M-83758	2310196	77880.0	29120.0	48760.0	24.38
10/13/20	CSD	115838	M-83757	2310196	77200.0	29080.0	48120.0	24.06
10/13/20	CSD	115836	M-83756	2310196	77780.0	27840.0	49940.0	24.97
10/13/20	CSD	115821	M-83747	2310196	77560.0	29540.0	48020.0	24.01
10/13/20	CSD	115828	M-83748	2310196	76840.0	29260.0	47580.0	23.79
10/13/20	CSD	115829	M-83749	2310196	77600.0	29380.0	48220.0	24.11
10/13/20	CSD	115830	M-83750	2310196	74820.0	28980.0	45840.0	22.92
10/13/20	CSD	115831	M-83751	2310196	76020.0	27440.0	48580.0	24.29
10/13/20	CSD	115832	M-83752	2310196	74840.0	29340.0	45500.0	22.75
10/13/20	CSD	115833	M-83753	2310196	77460.0	28280.0	49180.0	24.59
10/13/20	CSD	115834	M-83754	2310196	75740.0	28660.0	47080.0	23.54

10/13/20	CSD	115835	M-83755	2310196	78380.0	28360.0	50020.0	25.01
10/14/20	CSD	115862	M-83795	2310196	78060.0	27760.0	50300.0	25.15
10/14/20	CSD	115865	M-83796	2310196	77560.0	27260.0	50300.0	25.15
10/14/20	CSD	115866	M-83797	2310196	77160.0	27460.0	49700.0	24.85
10/14/20	CSD	115867	M-83798	2310196	78440.0	28560.0	49880.0	24.94
10/14/20	CSD	115868	M-83799	2310196	77180.0	27120.0	50060.0	25.03
10/14/20	CSD	115869	M-83800	2310196	77060.0	27040.0	50020.0	25.01
10/14/20	CSD	115870	M-83801	2310196	76980.0	28180.0	48800.0	24.40
10/14/20	CSD	115851	M-84290	2310196	76160.0	29360.0	46800.0	23.40
10/14/20	CSD	115849	M-84289	2310196	77700.0	29580.0	48120.0	24.06
10/14/20	CSD	115861	M-83794	2310196	75120.0	28800.0	46320.0	23.16
10/14/20	CSD	115864	M-83793	2310196	77240.0	29140.0	48100.0	24.05
10/14/20	CSD	115863	M-83792	2310196	77600.0	27540.0	50060.0	25.03
10/14/20	CSD	115856	M-83782	2310196	75400.0	28880.0	46520.0	23.26

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
10/14/20	CSD	115852	M-83783	2310196	77400.0	28420.0	48980.0	24.49
10/14/20	CSD	115853	M-83784	2310196	76880.0	29300.0	47580.0	23.79
10/14/20	CSD	115854	M-83785	2310196	77580.0	28340.0	49240.0	24.62
10/14/20	CSD	115855	M-83786	2310196	77320.0	27460.0	49860.0	24.93
10/14/20	CSD	115857	M-83788	2310196	75400.0	29280.0	46120.0	23.06
10/14/20	CSD	115858	M-83789	2310196	75760.0	28580.0	47180.0	23.59
10/14/20	CSD	115859	M-83790	2310196	77080.0	27880.0	49200.0	24.60
10/14/20	CSD	115860	M-83791	2310196	77120.0	28380.0	48740.0	24.37
10/15/20	CSD	115887	M-83830	2310196	77660.0	27440.0	50220.0	25.11
10/15/20	CSD	115888	M-83831	2310196	77100.0	28600.0	48500.0	24.25
10/15/20	CSD	115889	M-83832	2310196	77100.0	27220.0	49880.0	24.94
10/15/20	CSD	115890	M-83833	2310196	77960.0	27120.0	50840.0	25.42
10/15/20	CSD	115891	M-83834	2310196	78080.0	28440.0	49640.0	24.82
10/15/20	CSD	115878	M-83835	2310196	78080.0	27480.0	50600.0	25.30
10/15/20	CSD	115878	M-83836	2310196	75820.0	28580.0	47240.0	23.62
10/15/20	CSD	115880	M-83837	2310196	77420.0	28440.0	48980.0	24.49
10/15/20	CSD	115886	M-83829	2310196	76600.0	27780.0	48820.0	24.41
10/15/20	CSD	115885	M-83828	2310196	77080.0	29080.0	48000.0	24.00
10/15/20	CSD	115871	M-83818	2310196	77740.0	29520.0	48220.0	24.11
10/15/20	CSD	115873	M-83819	2310196	78000.0	29260.0	48740.0	24.37
10/15/20	CSD	115874	M-83820	2310196	75180.0	29380.0	45800.0	22.90
10/15/20	CSD	115875	M-83821	2310196	77920.0	28360.0	49560.0	24.78
10/15/20	CSD	115873	M-83822	2310196	77140.0	28440.0	48700.0	24.35
10/15/20	CSD	115877	M-83823	2310196	78100.0	28880.0	49220.0	24.61
10/15/20	CSD	115881	M-83824	2310196	77980.0	27900.0	50080.0	25.04
10/15/20	CSD	115882	M-83825	2310196	76940.0	27560.0	49380.0	24.69

10/15/20	CSD	115883	M-83826	2310196	77420.0	29360.0	48060.0	24.03
10/15/20	CSD	115884	M-83827	2310196	77680.0	29140.0	48540.0	24.27
10/16/20	CSD	115906	M-83865	2310196	75860.0	27640.0	48220.0	24.11
10/16/20	CSD	115907	M-83866	2310196	77780.0	29120.0	48660.0	24.33
10/16/20	CSD	115909	M-83867	2310196	77300.0	27720.0	49580.0	24.79
10/16/20	CSD	115910	M-83868	2310196	74100.0	28820.0	45280.0	22.64
10/16/20	CSD	115911	M-83869	2310196	77980.0	29340.0	48640.0	24.32
10/16/20	CSD	115912	M-83870	2310196	78340.0	27420.0	50920.0	25.46
10/16/20	CSD	115913	M-83871	2310196	76580.0	27880.0	48700.0	24.35
10/16/20	CSD	115914	M-83872	2310196	75860.0	27100.0	48760.0	24.38
10/16/20	CSD	115905	M-83864	2310196	78780.0	27980.0	50800.0	25.40
10/16/20	CSD	115904	M-83863	2310196	78600.0	28380.0	50220.0	25.11
10/16/20	CSD	115903	M-83862	2310196	78460.0	27640.0	50820.0	25.41
10/16/20	CSD	115892	M-83852	2310196	77120.0	29520.0	47600.0	23.80

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
10/16/20	CSD	115894	M-83853	2310196	77520.0	28300.0	49220.0	24.61
10/16/20	CSD	115895	M-83854	2310196	78300.0	28440.0	49860.0	24.93
10/16/20	CSD	115896	M-83855	2310196	77280.0	29500.0	47780.0	23.89
10/16/20	CSD	115897	M-83856	2310196	77760.0	29400.0	48360.0	24.18
10/16/20	CSD	115898	M-83857	2310196	78520.0	27420.0	51100.0	25.55
10/16/20	CSD	115899	M-83858	2310196	74560.0	28980.0	45580.0	22.79
10/16/20	CSD	115900	M-83859	2310196	74960.0	29280.0	45680.0	22.84
10/16/20	CSD	115901	M-83860	2310196	76760.0	29060.0	47700.0	23.85
10/16/20	CSD	115902	M-83861	2310196	75160.0	28620.0	46540.0	23.27
10/19/20	CSD	115929	M-83920	2310196	78800.0	29180.0	49620.0	24.81
10/19/20	CSD	115930	M-83921	2310196	78880.0	29340.0	49540.0	24.77
10/19/20	CSD	115931	M-83922	2310196	75940.0	27140.0	48800.0	24.40
10/19/20	CSD	115932	M-83923	2310196	78320.0	27400.0	50920.0	25.46
10/19/20	CSD	115933	M-83924	2310196	76020.0	28420.0	47600.0	23.80
10/19/20	CSD	115934	M-83925	2310196	78620.0	28720.0	49900.0	24.95
10/19/20	CSD	115935	M-83926	2310196	75980.0	28180.0	47800.0	23.90
10/19/20	CSD	115936	M-83927	2310196	78800.0	28840.0	49960.0	24.98
10/19/20	CSD	115928	M-83919	2310196	78660.0	27560.0	51100.0	25.55
10/19/20	CSD	115927	M-83918	2310196	78280.0	27640.0	50640.0	25.32
10/19/20	CSD	115915	M-83908	2310196	76120.0	29320.0	46800.0	23.40
10/19/20	CSD	115917	M-83909	2310196	77140.0	27260.0	49880.0	24.94
10/19/20	CSD	115918	M-83910	2310196	76700.0	29460.0	47240.0	23.62
10/19/20	CSD	115919	M-83911	2310196	74400.0	29340.0	45060.0	22.53
10/19/20	CSD	115920	M-83912	2310196	74860.0	28900.0	45960.0	22.98
10/19/20	CSD	115921	M-83913	2310196	77600.0	27340.0	50260.0	25.13
10/19/20	CSD	115922	M-83914	2310196	79680.0	28100.0	51580.0	25.79

10/19/20	CSD	115923	M-83915	2310196	73260.0	28620.0	44640.0	22.32
10/19/20	CSD	115925	M-83916	2310196	74840.0	28780.0	46060.0	23.03
10/19/20	CSD	115526	M-83917	2310196	77160.0	28360.0	48800.0	24.40
10/20/20	CSD	115950	M-83957	2310196	76540.0	27820.0	48720.0	24.36
10/20/20	CSD	115951	M-83958	2310196	79040.0	29120.0	49920.0	24.96
10/20/20	CSD	115952	M-83959	2310196	79500.0	28140.0	51360.0	25.68
10/20/20	CSD	115953	M-83960	2310196	75600.0	26980.0	48620.0	24.31
10/20/20	CSD	115954	M-83961	2310196	77000.0	28440.0	48560.0	24.28
10/20/20	CSD	115955	M-83962	2310196	78140.0	27360.0	50780.0	25.39
10/20/20	CSD	115956	M-83963	2310196	74880.0	27580.0	47300.0	23.65
10/20/20	CSD	115957	M-83964	2310196	78040.0	28900.0	49140.0	24.57
10/20/20	CSD	115949	M-83956	2310196	75320.0	28780.0	46540.0	23.27
10/20/20	CSD	115948	M-83955	2310196	76320.0	29320.0	47000.0	23.50
10/20/20	CSD	115938	M-83945	2310196	75580.0	29500.0	46080.0	23.04

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
10/20/20	CSD	115939	M-83946	2310196	78740.0	28420.0	50320.0	25.16
10/20/20	CSD	115940	M-83947	2310196	75660.0	29100.0	46560.0	23.28
10/20/20	CSD	115941	M-83948	2310196	74680.0	29580.0	45100.0	22.55
10/20/20	CSD	115942	M-83949	2310196	76280.0	28580.0	47700.0	23.85
10/20/20	CSD	115943	M-83950	2310196	77520.0	27500.0	50020.0	25.01
10/20/20	CSD	115944	M-83951	2310196	77300.0	29400.0	47900.0	23.95
10/20/20	CSD	115945	M-83952	2310196	75520.0	28380.0	47140.0	23.57
10/20/20	CSD	115546	M-83953	2310196	78840.0	27900.0	50940.0	25.47
10/20/20	CSD	115947	M-83954	2310196	76820.0	28480.0	48340.0	24.17
10/21/20	CSD	115973	M-83991	2310196	78480.0	29120.0	49360.0	24.68
10/21/20	CSD	115974	M-83992	2310196	77780.0	27820.0	49960.0	24.98
10/21/20	CSD	115975	M-83993	2310196	78520.0	27540.0	50980.0	25.49
10/21/20	CSD	115976	M-83994	2310196	77800.0	28400.0	49400.0	24.70
10/21/20	CSD	115977	M-83995	2310196	76980.0	28360.0	48620.0	24.31
10/21/20	CSD	115978	M-83996	2310196	76160.0	27920.0	48240.0	24.12
10/21/20	CSD	115979	M-83997	2310196	75620.0	27400.0	48220.0	24.11
10/21/20	CSD	115980	M-83998	2310196	78060.0	27880.0	50180.0	25.09
10/21/20	CSD	115981	M-83999	2310196	77180.0	28900.0	48280.0	24.14
10/21/20	CSD	115971	M-83990	2310196	75640.0	28780.0	46860.0	23.43
10/21/20	CSD	115970	M-83989	2310196	76440.0	28020.0	48420.0	24.21
10/21/20	CSD	115960	M-83979	2310196	78460.0	27980.0	50480.0	25.24
10/21/20	CSD	115959	M-83978	2310196	77440.0	29500.0	47940.0	23.97
10/21/20	CSD	115961	M-83980	2310196	77380.0	29320.0	48060.0	24.03
10/21/20	CSD	115962	M-83981	2310196	75880.0	28880.0	47000.0	23.50
10/21/20	CSD	115963	M-83982	2310196	77780.0	28420.0	49360.0	24.68
10/21/20	CSD	115964	M-83983	2310196	76500.0	29380.0	47120.0	23.56

10/21/20	CSD	115965	M-83984	2310196	78240.0	27440.0	50800.0	25.40
10/21/20	CSD	115966	M-83985	2310196	74600.0	28600.0	46000.0	23.00
10/21/20	CSD	115967	M-83986	2310196	74440.0	28460.0	45980.0	22.99
10/21/20	CSD	115968	M-83987	2310196	75460.0	28480.0	46980.0	23.49
10/21/20	CSD	115969	M-83988	2310196	76760.0	27900.0	48860.0	24.43
10/22/20	CSD	115996	M-84027	2310196	77740.0	29180.0	48560.0	24.28
10/22/20	CSD	115997	M-84028	2310196	77300.0	28460.0	48840.0	24.42
10/22/20	CSD	115998	M-84029	2310196	77780.0	26940.0	50840.0	25.42
10/22/20	CSD	115999	M-84030	2310196	78120.0	27440.0	50680.0	25.34
10/22/20	CSD	116000	M-84031	2310196	78500.0	27600.0	50900.0	25.45
10/22/20	CSD	116001	M-84032	2310196	77740.0	29380.0	48360.0	24.18
10/22/20	CSD	116002	M-84033	2310196	78480.0	28900.0	49580.0	24.79
10/22/20	CSD	116003	M-84034	2310196	79280.0	28060.0	51220.0	25.61
10/22/20	CSD	115995	M-84026	2310196	77700.0	27840.0	49860.0	24.93

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
10/22/20	CSD	115994	M-84025	2310196	75940.0	28860.0	47080.0	23.54
10/22/20	CSD	115993	M-84024	2310196	77860.0	28600.0	49260.0	24.63
10/22/20	CSD	115983	M-84014	2310196	77340.0	29560.0	47780.0	23.89
10/22/20	CSD	115984	M-84015	2310196	76720.0	28020.0	48700.0	24.35
10/22/20	CSD	115985	M-84016	2310196	77840.0	27880.0	49960.0	24.98
10/22/20	CSD	115986	M-84017	2310196	77080.0	29320.0	47760.0	23.88
10/22/20	CSD	115988	M-84018	2310196	76980.0	28440.0	48540.0	24.27
10/22/20	CSD	115987	M-84019	2310196	76660.0	29360.0	47300.0	23.65
10/22/20	CSD	115989	M-84020	2310196	75420.0	28940.0	46480.0	23.24
10/22/20	CSD	115990	M-84021	2310196	77680.0	27440.0	50240.0	25.12
10/22/20	CSD	115991	M-84022	2310196	78540.0	28480.0	50060.0	25.03
10/22/20	CSD	115992	M-84023	2310196	75420.0	27960.0	47460.0	23.73
10/23/20	CSD	116019	M-84064	2310196	78060.0	27560.0	50500.0	25.25
10/23/20	CSD	116020	M-84065	2310196	77040.0	27620.0	49420.0	24.71
10/23/20	CSD	116021	M-84066	2310196	77480.0	29360.0	48120.0	24.06
10/23/20	CSD	116022	M-84067	2310196	79060.0	28440.0	50620.0	25.31
10/23/20	CSD	116023	M-84068	2310196	79260.0	27420.0	51840.0	25.92
10/23/20	CSD	116024	M-84069	2310196	75340.0	27760.0	47580.0	23.79
10/23/20	CSD	116025	M-84070	2310196	78500.0	28860.0	49640.0	24.82
10/23/20	CSD	116010	M-84063	2310196	77800.0	29120.0	48680.0	24.34
10/23/20	CSD	116017	M-84062	2310196	77240.0	27920.0	49320.0	24.66
10/23/20	CSD	116016	M-84061	2310196	74200.0	28800.0	45400.0	22.70
10/23/20	CSD	116015	M-84060	2310196	77240.0	28080.0	49160.0	24.58
10/23/20	CSD	116004	M-84050	2310196	78500.0	29340.0	49160.0	24.58
10/23/20	CSD	116005	M-84051	2310196	77460.0	29540.0	47920.0	23.96
10/23/20	CSD	116006	M-84052	2310196	77860.0	27840.0	50020.0	25.01

10/23/20	CSD	116007	M-84053	2310196	75360.0	29340.0	46020.0	23.01
10/23/20	CSD	116008	M-84054	2310196	77800.0	27500.0	50300.0	25.15
10/23/20	CSD	116010	M-84055	2310196	74480.0	28940.0	45540.0	22.77
10/23/20	CSD	116011	M-84056	2310196	78220.0	28460.0	49760.0	24.88
10/23/20	CSD	116021	M-84057	2310196	74060.0	28660.0	45400.0	22.70
10/23/20	CSD	116013	M-84058	2310196	74640.0	28420.0	46220.0	23.11
10/23/20	CSD	116014	M-84059	2310196	78200.0	28540.0	49660.0	24.83
10/26/20	CSD	116040	M-84118	2310196	75300.0	27740.0	47560.0	23.78
10/26/20	CSD	116041	M-84119	2310196	77620.0	27560.0	50060.0	25.03
10/26/20	CSD	116042	M-84120	2310196	78220.0	28040.0	50180.0	25.09
10/26/20	CSD	116043	M-84121	2310196	76760.0	26900.0	49860.0	24.93
10/26/20	CSD	116044	M-84122	2310196	77540.0	27620.0	49920.0	24.96
10/26/20	CSD	116045	M-84123	2310196	77960.0	27280.0	50680.0	25.34
10/26/20	CSD	116046	M-84124	2310196	77120.0	28460.0	48660.0	24.33

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10/26/20	CSD	116047	M-84125	2310196	77600.0	28840.0	48760.0	24.38
10/26/20	CSD	116037	M-84117	2310196	76640.0	29100.0	47540.0	23.77
10/26/20	CSD	116038	M-84116	2310196	76820.0	28400.0	48420.0	24.21
10/26/20	CSD	116037	M-84115	2310196	77760.0	28880.0	48880.0	24.44
10/26/20	CSD	116027	M-84105	2310196	76300.0	28680.0	47620.0	23.81
10/26/20	CSD	116028	M-84106	2310196	75100.0	29460.0	45640.0	22.82
10/26/20	CSD	116029	M-84107	2310196	78320.0	27220.0	51100.0	25.55
10/26/20	CSD	116030	M-84108	2310196	77360.0	28880.0	48480.0	24.24
10/26/20	CSD	116031	M-84109	2310196	75980.0	27440.0	48540.0	24.27
10/26/20	CSD	116032	M-84110	2310196	76220.0	29320.0	46900.0	23.45
10/26/20	CSD	116033	M-84111	2310196	75280.0	28560.0	46720.0	23.36
10/26/20	CSD	116034	M-84112	2310196	77700.0	28040.0	49660.0	24.83
10/26/20	CSD	116035	M-84113	2310196	74660.0	28440.0	46220.0	23.11
10/26/20	CSD	116036	M-84114	2310196	75640.0	28740.0	46900.0	23.45
10/27/20	CSD	116062	M-84155	2310196	78140.0	28420.0	49720.0	24.86
10/27/20	CSD	116064	M-84157	2310196	77540.0	27840.0	49700.0	24.85
10/27/20	CSD	116065	M-84158	2310196	77620.0	27340.0	50280.0	25.14
10/27/20	CSD	116066	M-84159	2310196	77440.0	28380.0	49060.0	24.53
10/27/20	CSD	116067	M-84160	2310196	75720.0	28780.0	46940.0	23.47
10/27/20	CSD	116068	M-84161	2310196	77280.0	28900.0	48380.0	24.19
10/27/20	CSD	116069	M-84162	2310196	77300.0	28340.0	48960.0	24.48
10/27/20	CSD	116063	M-84156	2310196	77340.0	27000.0	50340.0	25.17
10/27/20	CSD	116061	M-84154	2310196	77280.0	27800.0	49480.0	24.74
10/27/20	CSD	116066	M-84153	2310196	78520.0	27740.0	50780.0	25.39
10/27/20	CSD	116059	M-84152	2310196	77540.0	26900.0	50640.0	25.32
10/27/20	CSD	116050	M-84143	2310196	77500.0	29520.0	47980.0	23.99

10/27/20	CSD	116119	M-84142	2310331	77740.0	28960.0	48780.0	24.39
10/27/20	CSD	116051	M-84144	2310196	77440.0	27320.0	50120.0	25.06
10/27/20	CSD	116052	M-84145	2310196	74900.0	29040.0	45860.0	22.93
10/27/20	CSD	116053	M-84146	2310196	77820.0	27440.0	50380.0	25.19
10/27/20	CSD	116054	M-84147	2310196	75340.0	28640.0	46700.0	23.35
10/27/20	CSD	116055	M-84148	2310196	77200.0	28460.0	48740.0	24.37
10/27/20	CSD	116056	M-84149	2310196	77100.0	28080.0	49020.0	24.51
10/27/20	CSD	116057	M-84150	2310196	74560.0	28480.0	46080.0	23.04
10/27/20	CSD	116058	M-84151	2310196	77600.0	29140.0	48460.0	24.23
10/28/20	CSD	116084	M-84192	2310196	76220.0	34500.0	41720.0	20.86
10/28/20	CSD	116085	M-84193	2310196	77940.0	28140.0	49800.0	24.90
10/28/20	CSD	116086	M-84194	2310196	78580.0	27000.0	51580.0	25.79
10/28/20	CSD	116087	M-84195	2310196	77620.0	27320.0	50300.0	25.15
10/28/20	CSD	116088	M-84196	2310196	77260.0	27640.0	49620.0	24.81

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
10/28/20	CSD	116089	M-84197	2310196	77660.0	28460.0	49200.0	24.60
10/28/20	CSD	116090	M-84198	2310196	77520.0	29160.0	48360.0	24.18
10/28/20	CSD	116091	M-84199	2310196	74320.0	29440.0	44880.0	22.44
10/28/20	CSD	116077	M-84185	2310196	74900.0	28360.0	46540.0	23.27
10/28/20	CSD	116088	M-84191	2310196	78280.0	28220.0	50060.0	25.03
10/28/20	CSD	116082	M-84190	2310196	77580.0	27840.0	49740.0	24.87
10/28/20	CSD	116081	M-84189	2310196	76720.0	28340.0	48380.0	24.19
10/28/20	CSD	116070	M-84178	2310196	77500.0	29420.0	48080.0	24.04
10/28/20	CSD	116072	M-84180	2310196	78500.0	27360.0	51140.0	25.57
10/28/20	CSD	116073	M-84181	2310196	78120.0	28720.0	49400.0	24.70
10/28/20	CSD	116074	M-84182	2310196	75040.0	28900.0	46140.0	23.07
10/28/20	CSD	116075	M-84183	2310196	77960.0	27440.0	50520.0	25.26
10/28/20	CSD	116076	M-84184	2310196	77540.0	28480.0	49060.0	24.53
10/28/20	CSD	116078	M-84186	2310196	77420.0	28060.0	49360.0	24.68
10/28/20	CSD	116079	M-84187	2310196	74780.0	28460.0	46320.0	23.16
10/28/20	CSD	116080	M-84188	2310196	77700.0	29200.0	48500.0	24.25
10/28/20	CSD	116071	M-84179	2310196	77100.0	28920.0	48180.0	24.09
10/29/20	CSD	116105	M-84230	2310196	76920.0	26960.0	49960.0	24.98
10/29/20	CSD	116106	M-84231	2310196	75360.0	29300.0	46060.0	23.03
10/29/20	CSD	116098	M-84223	2310196	76060.0	28400.0	47660.0	23.83
10/29/20	CSD	116108	M-84233	2310196	76360.0	27340.0	49020.0	24.51
10/29/20	CSD	116109	M-84234	2310196	79160.0	27880.0	51280.0	25.64
10/29/20	CSD	116110	M-84235	2310196	76340.0	28840.0	47500.0	23.75
10/29/20	CSD	116111	M-84236	2310196	77220.0	28920.0	48300.0	24.15
10/29/20	CSD	116112	M-84237	2310196	78400.0	27240.0	51160.0	25.58
10/29/20	CSD	116107	M-84232	2310196	77640.0	28460.0	49180.0	24.59

10/29/20	CSD	116104	M-84229	2310196	79060.0	27440.0	51620.0	25.81
10/29/20	CSD	116103	M-84228	2310196	77560.0	27840.0	49720.0	24.86
10/29/20	CSD	116093	M-84218	2310196	77700.0	29480.0	48220.0	24.11
10/29/20	CSD	116092	M-84217	2310196	77940.0	28920.0	49020.0	24.51
10/29/20	CSD	116094	M-84219	2310196	75540.0	28900.0	46640.0	23.32
10/29/20	CSD	116095	M-84220	2310196	77740.0	28260.0	49480.0	24.74
10/29/20	CSD	116096	M-84221	2310196	77800.0	27820.0	49980.0	24.99
10/29/20	CSD	116097	M-84222	2310196	75060.0	28440.0	46620.0	23.31
10/29/20	CSD	116099	M-84224	2310196	77660.0	28020.0	49640.0	24.82
10/29/20	CSD	116100	M-84225	2310196	76300.0	28920.0	47380.0	23.69
10/29/20	CSD	116101	M-84226	2310196	78400.0	28440.0	49960.0	24.98
10/29/20	CSD	116102	M-84227	2310196	77960.0	29240.0	48720.0	24.36
10/30/20	CSD	116125	M-84265	2310196	74540.0	28440.0	46100.0	23.05
10/30/20	CSD	116126	M-84266	2310196	77700.0	27840.0	49860.0	24.93

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
10/30/20	CSD	116127	M-84267	2310196	77960.0	27000.0	50960.0	25.48
10/30/20	CSD	116128	M-84268	2310196	77500.0	27640.0	49860.0	24.93
10/30/20	CSD	116129	M-84269	2310196	77360.0	29220.0	48140.0	24.07
10/30/20	CSD	116130	M-84270	2310196	77380.0	27360.0	50020.0	25.01
10/30/20	CSD	116131	M-84271	2310196	78160.0	27500.0	50660.0	25.33
10/30/20	CSD	116132	M-84272	2310196	77300.0	28540.0	48760.0	24.38
10/30/20	CSD	116124	M-84264	2310196	77200.0	27800.0	49400.0	24.70
10/30/20	CSD	116123	M-84263	2310196	74940.0	28940.0	46000.0	23.00
10/30/20	CSD	116113	M-84253	2310196	78420.0	28940.0	49480.0	24.74
10/30/20	CSD	116114	M-84254	2310196	77860.0	29460.0	48400.0	24.20
10/30/20	CSD	116115	M-84255	2310196	77660.0	28440.0	49220.0	24.61
10/30/20	CSD	116116	M-84256	2310196	74900.0	28900.0	46000.0	23.00
10/30/20	CSD	116117	M-84257	2310196	77340.0	27640.0	49700.0	24.85
10/30/20	CSD	116118	M-84258	2310196	74160.0	28420.0	45740.0	22.87
10/30/20	CSD	116119	M-84259	2310196	73080.0	28500.0	44580.0	22.29
10/30/20	CSD	116122	M-84261	2310196	78500.0	29140.0	49360.0	24.68
10/30/20	CSD	116121	M-84262	2310196	77600.0	28280.0	49320.0	24.66
10/30/20	CSD	116120	M-84260	2310196	76840.0	28920.0	47920.0	23.96

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Biosolids Report to

City of San Diego

For November 2020

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Summary for City of San Diego
November 2020

Field 2310196 received 410 loads totaling 10056.095 tons of Biosolids between 11/02/20 and 11/30/20

Composition analysis dated 08/01/20 was used to determine the makeup of the biosolids loaded between 11/02/20 and 11/30/20

Solids %: 26.8000
Composition PPM (mg/kg)
Arsenic (As): 0.0000
Cadmium (Cd): 1.3800
Chromium (Cr): 51.0000
Copper (Cu): 610.0000
Lead (Pb): 11.4000
Mercury (Hg): 0.9500
Molybdenum (Mo): 17.3000
Nickel (Ni): 24.0000
Selenium (Se): 3.0900
Zinc (Zn): 936.0000
Organic Nitrogen (OrgN): 44370.0000
Ammoniacal Nitrogen (NH3-N): 6430.0000
Nitrate Nitrogen (NO3-N): 0.0000

AG TECH, LLC
3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Application Summary for Field 2310196
City of San Diego - November 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: AGTECH Pivot: DU-8 Field: 2310196 Area: 60.00 Acres = 24.28 Hectares
Location: S2 SW4 T10S R23W SEC 19 GSRBM , Yuma, AZ
Latitude: N 32 32 30.6 Longitude: W 114 39 44.4

410 loads of Biosolids were applied to field 2310196 from 11/02/20 to 11/30/20
Application Method: Incorporation

Analysis Date(s): 08/01/20

Solids Percentage: 26.8%

Wet Biosolids Applied:	10056.1 Tons	9122.74 Metric Tons
Dry Biosolids Applied:	2695.03 Tons	2444.89 Metric Tons
Wet Application Rate:	167.6 Tons/Acre	375.71 Metric Tons/ha
Dry Application Rate:	44.92 Tons/Acre	100.69 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	0.00	0.00	0.00
Cadmium (Cd):	1.38	0.14	0.12
Chromium (Cr):	0	5.14	4.58
Copper (Cu):	610.00	61.42	54.80
Lead (Pb):	11.40	1.15	1.02
Mercury (Hg):	0.95	0.10	0.09
Molybdenum (Mo):	17.30	1.74	1.55

Nickel (Ni):	24.00	2.42	2.16
Selenium (Se):	3.09	0.31	0.28
Zinc (Zn):	936.00	94.25	84.08
Organic Nitrogen (OrgN):	44,370.00	4,467.65	3,985.95
Ammoniacal Nitrogen (NH3-N):	6,430.00	647.44	577.63
Nitrate Nitrogen (NO3-N):	0.00	0.00	0.00
Total Kjeldahl Nitrogen (TKN):	50,800.00	651.44	580.63

AG TECH, LLC

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
11/02/20	CSD	116134	M-84312	2310196	77720.0	28940.0	48780.0	24.39
11/02/20	CSD	116146	M-84324	2310196	76740.0	27780.0	48960.0	24.48
11/02/20	CSD	116147	M-84325	2310196	79240.0	26940.0	52300.0	26.15
11/02/20	CSD	116148	M-84326	2310196	75380.0	28000.0	47380.0	23.69
11/02/20	CSD	116149	M-84327	2310196	78360.0	28080.0	50280.0	25.14
11/02/20	CSD	116150	M-84328	2310196	75500.0	27380.0	48120.0	24.06
11/02/20	CSD	116151	M-84329	2310196	77160.0	28440.0	48720.0	24.36
11/02/20	CSD	116152	M-84330	2310196	77800.0	27580.0	50220.0	25.11
11/02/20	CSD	116153	M-84331	2310196	78400.0	27400.0	51000.0	25.50
11/02/20	CSD	116145	M-84323	2310196	77140.0	27720.0	49420.0	24.71
11/02/20	CSD	116144	M-84322	2310196	77860.0	28360.0	49500.0	24.75
11/02/20	CSD	116143	M-84321	2310196	78160.0	28100.0	50060.0	25.03
11/02/20	CSD	116135	M-84313	2310196	75580.0	28900.0	46680.0	23.34
11/02/20	CSD	116136	M-84314	2310196	77460.0	29460.0	48000.0	24.00
11/02/20	CSD	116137	M-84315	2310196	74400.0	28960.0	45440.0	22.72
11/02/20	CSD	116138	M-84316	2310196	77380.0	27080.0	50300.0	25.15
11/02/20	CSD	116139	M-84317	2310196	74480.0	28440.0	46040.0	23.02
11/02/20	CSD	116140	M-84318	2310196	77800.0	28040.0	49760.0	24.88
11/02/20	CSD	116141	M-84319	2310196	77240.0	29200.0	48040.0	24.02
11/02/20	CSD	116142	M-84320	2310196	76520.0	29860.0	46660.0	23.33
11/03/20	CSD	116165	M-84360	2310196	78720.0	27880.0	50840.0	25.42
11/03/20	CSD	116166	M-84361	2310196	77440.0	28980.0	48460.0	24.23
11/03/20	CSD	118167	M-84362	2310196	77660.0	27780.0	49880.0	24.94
11/03/20	CSD	116168	M-84363	2310196	77580.0	29140.0	48440.0	24.22
11/03/20	CSD	116169	M-84364	2310196	77660.0	27640.0	50020.0	25.01
11/03/20	CSD	116170	M-84365	2310196	77580.0	29880.0	47700.0	23.85

11/03/20	CSD	116171	M-84366	2310196	76960.0	27260.0	49700.0	24.85
11/03/20	CSD	116172	M-84367	2310196	78340.0	28460.0	49880.0	24.94
11/03/20	CSD	116164	M-84359	2310196	77460.0	28180.0	49280.0	24.64
11/03/20	CSD	116163	M-84358	2310196	75780.0	28240.0	47540.0	23.77
11/03/20	CSD	116162	M-84357	2310196	79260.0	28060.0	51200.0	25.60
11/03/20	CSD	116154	M-84349	2310196	76680.0	28940.0	47740.0	23.87
11/03/20	CSD	116156	M-84350	2310196	77160.0	29500.0	47660.0	23.83
11/03/20	CSD	116156	M-84351	2310196	77880.0	28900.0	48980.0	24.49
11/03/20	CSD	116157	M-84352	2310196	77020.0	27200.0	49820.0	24.91
11/03/20	CSD	116158	M-84353	2310196	77020.0	26840.0	50180.0	25.09
11/03/20	CSD	116159	M-84354	2310196	74440.0	28440.0	46000.0	23.00
11/03/20	CSD	116160	M-84355	2310196	77040.0	26980.0	50060.0	25.03
11/03/20	CSD	116161	M-84356	2310196	77240.0	28420.0	48820.0	24.41
11/04/20	CSD	116185	M-84394	2310196	77000.0	28060.0	48940.0	24.47

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
11/04/20	CSD	116186	M-84395	2310196	76540.0	26940.0	49600.0	24.80
11/04/20	CSD	116187	M-84396	2310196	77760.0	28340.0	49420.0	24.71
11/04/20	CSD	116188	M-84397	2310196	78260.0	27780.0	50480.0	25.24
11/04/20	CSD	116189	M-84398	2310196	77860.0	27800.0	50060.0	25.03
11/04/20	CSD	116190	M-84399	2310196	78540.0	29220.0	49320.0	24.66
11/04/20	CSD	116191	M-84400	2310196	77300.0	28420.0	48880.0	24.44
11/04/20	CSD	116192	M-84401	2310196	77180.0	27440.0	49740.0	24.87
11/04/20	CSD	116193	M-84402	2310196	76020.0	28520.0	47500.0	23.75
11/04/20	CSD	116184	M-84393	2310196	75240.0	28980.0	46260.0	23.13
11/04/20	CSD	116183	M-84392	2310196	78720.0	28860.0	49860.0	24.93
11/04/20	CSD	116174	M-84383	2310196	77620.0	28960.0	48660.0	24.33
11/04/20	CSD	116175	M-84384	2310196	78880.0	29480.0	49400.0	24.70
11/04/20	CSD	116176	M-84385	2310196	78360.0	27980.0	50380.0	25.19
11/04/20	CSD	116177	M-84386	2310196	78800.0	28940.0	49860.0	24.93
11/04/20	CSD	116178	M-84387	2310196	76680.0	27160.0	49520.0	24.76
11/04/20	CSD	116179	M-84388	2310196	77300.0	27400.0	49900.0	24.95
11/04/20	CSD	116180	M-84389	2310196	77280.0	27780.0	49500.0	24.75
11/04/20	CSD	116181	M-84390	2310196	75800.0	28460.0	47340.0	23.67
11/04/20	CSD	116182	M-84391	2310196	75280.0	28420.0	46860.0	23.43
11/05/20	CSD	116206	M-84429	2310196	77600.0	27820.0	49780.0	24.89
11/05/20	CSD	116207	M-84430	2310196	76400.0	28980.0	47420.0	23.71
11/05/20	CSD	116208	M-84431	2310196	76660.0	26960.0	49700.0	24.85
11/05/20	CSD	116209	M-84432	2310196	78420.0	27780.0	50640.0	25.32
11/05/20	CSD	116210	M-84433	2310196	77320.0	28380.0	48940.0	24.47
11/05/20	CSD	116212	M-84434	2310196	76340.0	28760.0	47580.0	23.79
11/05/20	CSD	116213	M-84435	2310196	77540.0	28340.0	49200.0	24.60

11/05/20	CSD	116214	M-84436	2310196	79100.0	28100.0	51000.0	25.50
11/05/20	CSD	116215	M-84437	2310196	77120.0	27520.0	49600.0	24.80
11/05/20	CSD	116205	M-84428	2310196	78480.0	28020.0	50460.0	25.23
11/05/20	CSD	116204	M-84427	2310196	74540.0	29320.0	45220.0	22.61
11/05/20	CSD	116195	M-84418	2310196	76460.0	28940.0	47520.0	23.76
11/05/20	CSD	116196	M-84419	2310196	77220.0	27940.0	49280.0	24.64
11/05/20	CSD	116197	M-84420	2310196	78960.0	28920.0	50040.0	25.02
11/05/20	CSD	116198	M-84421	2310196	76960.0	28500.0	48460.0	24.23
11/05/20	CSD	116199	M-84422	2310196	77800.0	27060.0	50740.0	25.37
11/05/20	CSD	116200	M-84423	2310196	77240.0	27100.0	50140.0	25.07
11/05/20	CSD	116201	M-84424	2310196	77800.0	29480.0	48320.0	24.16
11/05/20	CSD	116202	M-84425	2310196	73860.0	28420.0	45440.0	22.72
11/05/20	CSD	116203	M-84426	2310196	78840.0	26900.0	51940.0	25.97
11/06/20	CSD	116226	M-84463	2310196	77280.0	27840.0	49440.0	24.72

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
11/06/20	CSD	116227	M-84464	2310196	77940.0	27760.0	50180.0	25.09
11/06/20	CSD	116228	M-84465	2310196	77860.0	26980.0	50880.0	25.44
11/06/20	CSD	116229	M-84466	2310196	77720.0	28400.0	49320.0	24.66
11/06/20	CSD	116230	M-84467	2310196	77020.0	29000.0	48020.0	24.01
11/06/20	CSD	116231	M-84468	2310196	78640.0	28140.0	50500.0	25.25
11/06/20	CSD	116232	M-84469	2310196	75800.0	28600.0	47200.0	23.60
11/06/20	CSD	116225	M-84462	2310196	77280.0	26920.0	50360.0	25.18
11/06/20	CSD	116224	M-84461	2310196	76760.0	28060.0	48700.0	24.35
11/06/20	CSD	116223	M-84460	2310196	74940.0	28940.0	46000.0	23.00
11/06/20	CSD	116216	M-84453	2310196	77980.0	28920.0	49060.0	24.53
11/06/20	CSD	116217	M-84454	2310196	77740.0	29500.0	48240.0	24.12
11/06/20	CSD	116218	M-84455	2310196	77220.0	27380.0	49840.0	24.92
11/06/20	CSD	116219	M-84456	2310196	72720.0	28500.0	44220.0	22.11
11/06/20	CSD	116220	M-84457	2310196	79880.0	28920.0	50960.0	25.48
11/06/20	CSD	116221	M-84458	2310196	77000.0	27120.0	49880.0	24.94
11/06/20	CSD	116222	M-84459	2310196	74860.0	28460.0	46400.0	23.20
11/09/20	CSD	116247	M-84519	2310196	77100.0	28380.0	48720.0	24.36
11/09/20	CSD	116248	M-84520	2310196	75160.0	28960.0	46200.0	23.10
11/09/20	CSD	116249	M-84521	2310196	76500.0	27500.0	49000.0	24.50
11/09/20	CSD	119250	M-84522	2310196	75280.0	29160.0	46120.0	23.06
11/09/20	CSD	116251	M-84523	2310196	78260.0	27380.0	50880.0	25.44
11/09/20	CSD	116252	M-84524	2310196	77240.0	27000.0	50240.0	25.12
11/09/20	CSD	116253	M-84525	2310196	79080.0	28800.0	50280.0	25.14
11/09/20	CSD	116254	M-84526	2310196	77720.0	27440.0	50280.0	25.14
11/09/20	CSD	116255	M-84527	2310196	78660.0	28160.0	50500.0	25.25
11/09/20	CSD	116256	M-84528	2310196	77380.0	26980.0	50400.0	25.20

11/09/20	CSD	116246	M-84518	2310196	76080.0	27840.0	48240.0	24.12
11/09/20	CSD	116245	M-84517	2310196	76800.0	28860.0	47940.0	23.97
11/09/20	CSD	116244	M-84516	2310196	78180.0	27880.0	50300.0	25.15
11/09/20	CSD	116234	M-84506	2310196	77600.0	29460.0	48140.0	24.07
11/09/20	CSD	116235	M-84507	2310196	78760.0	28920.0	49840.0	24.92
11/09/20	CSD	116236	M-84508	2310196	77580.0	29200.0	48380.0	24.19
11/09/20	CSD	116237	M-84509	2310196	78940.0	27180.0	51760.0	25.88
11/09/20	CSD	116238	M-84510	2310196	74900.0	29380.0	45520.0	22.76
11/09/20	CSD	NA	M-84511	2310196	74720.0	28540.0	46180.0	23.09
11/09/20	CSD	116240	M-84512	2310196	77360.0	26880.0	50480.0	25.24
11/09/20	CSD	116241	M-84513	2310196	78480.0	28680.0	49800.0	24.90
11/09/20	CSD	116242	M-84514	2310196	77680.0	28120.0	49560.0	24.78
11/09/20	CSD	116243	M-84515	2310196	78480.0	28360.0	50120.0	25.06
11/10/20	CSD	116273	M-84558	2310196	78180.0	27520.0	50660.0	25.33

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
11/10/20	CSD	116272	M-84557	2310196	77000.0	27020.0	49980.0	24.99
11/10/20	CSD	116271	M-84556	2310196	77700.0	27780.0	49920.0	24.96
11/10/20	CSD	116270	M-84555	2310196	74760.0	29000.0	45760.0	22.88
11/10/20	CSD	116274	M-84559	2310196	76280.0	29060.0	47220.0	23.61
11/10/20	CSD	116275	M-84560	2310196	78740.0	27400.0	51340.0	25.67
11/10/20	CSD	116276	M-84561	2310196	77900.0	28360.0	49540.0	24.77
11/10/20	CSD	116277	M-84562	2310196	77080.0	27660.0	49420.0	24.71
11/10/20	CSD	116278	M-84563	2310196	77140.0	27420.0	49720.0	24.86
11/10/20	CSD	116279	M-84564	2310196	77540.0	28720.0	48820.0	24.41
11/10/20	CSD	116280	M-84565	2310196	77820.0	28020.0	49800.0	24.90
11/10/20	CSD	116269	M-84554	2310196	74980.0	28940.0	46040.0	23.02
11/10/20	CSD	116268	M-84553	2310196	77500.0	26880.0	50620.0	25.31
11/10/20	CSD	116257	M-84542	2310196	78340.0	28980.0	49360.0	24.68
11/10/20	CSD	116255	M-84543	2310196	79240.0	29380.0	49860.0	24.93
11/10/20	CSD	116259	M-84544	2310196	77280.0	28440.0	48840.0	24.42
11/10/20	CSD	116260	M-84545	2310196	78340.0	29000.0	49340.0	24.67
11/10/20	CSD	116261	M-84546	2310196	77020.0	27500.0	49520.0	24.76
11/10/20	CSD	116762	M-84547	2310196	75600.0	29360.0	46240.0	23.12
11/10/20	CSD	116263	M-84548	2310196	76220.0	28480.0	47740.0	23.87
11/10/20	CSD	116264	M-84549	2310196	76900.0	27560.0	49340.0	24.67
11/10/20	CSD	116265	M-84550	2310196	77320.0	28060.0	49260.0	24.63
11/10/20	CSD	116266	M-84551	2310196	77040.0	26920.0	50120.0	25.06
11/10/20	CSD	116267	M-84552	2310196	78360.0	27820.0	50540.0	25.27
11/12/20	CSD	116298	M-84626	2310196	79540.0	28680.0	50860.0	25.43
11/12/20	CSD	116297	M-84625	2310196	77880.0	27020.0	50860.0	25.43
11/12/20	CSD	116296	M-84624	2310196	77960.0	27720.0	50240.0	25.12

11/12/20	CSD	116295	M-84623	2310196	77960.0	30100.0	47860.0	23.93
11/12/20	CSD	116299	M-84627	2310196	77540.0	29540.0	48000.0	24.00
11/12/20	CSD	116300	M-84628	2310196	78480.0	29120.0	49360.0	24.68
11/12/20	CSD	116301	M-84629	2310196	77540.0	28340.0	49200.0	24.60
11/12/20	CSD	116302	M-84630	2310196	77620.0	27400.0	50220.0	25.11
11/12/20	CSD	116303	M-84631	2310196	76820.0	27760.0	49060.0	24.53
11/12/20	CSD	116304	M-84632	2310196	78980.0	28660.0	50320.0	25.16
11/12/20	CSD	116305	M-84633	2310196	77000.0	28100.0	48900.0	24.45
11/12/20	CSD	116294	M-84622	2310196	75820.0	29000.0	46820.0	23.41
11/12/20	CSD	116293	M-84621	2310196	76560.0	29820.0	46740.0	23.37
11/12/20	CSD	116292	M-84620	2310196	78620.0	27520.0	51100.0	25.55
11/12/20	CSD	116281	M-84609	2310196	78680.0	30740.0	47940.0	23.97
11/12/20	CSD	116282	M-84610	2310196	77160.0	28920.0	48240.0	24.12
11/12/20	CSD	116283	M-84611	2310196	78760.0	28920.0	49840.0	24.92

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
11/12/20	CSD	116284	M-84612	2310196	77900.0	27750.0	50150.0	25.08
11/12/20	CSD	116285	M-84613	2310196	75780.0	29300.0	46480.0	23.24
11/12/20	CSD	116286	M-84614	2310196	77860.0	28060.0	49800.0	24.90
11/12/20	CSD	116287	M-84615	2310196	73980.0	28620.0	45360.0	22.68
11/12/20	CSD	116288	M-84616	2310196	79060.0	26980.0	52080.0	26.04
11/12/20	CSD	116289	M-84617	2310196	77640.0	28060.0	49580.0	24.79
11/12/20	CSD	116290	M-84618	2310196	78180.0	26900.0	51280.0	25.64
11/12/20	CSD	116291	M-84619	2310196	78200.0	27860.0	50340.0	25.17
11/13/20	CSD	116322	M-84665	2310196	75140.0	29520.0	45620.0	22.81
11/13/20	CSD	116321	M-84664	2310196	74160.0	29000.0	45160.0	22.58
11/13/20	CSD	116320	M-84663	2310196	76160.0	28060.0	48100.0	24.05
11/13/20	CSD	116319	M-84662	2310196	78100.0	27240.0	50860.0	25.43
11/13/20	CSD	116323	M-84666	2310196	76160.0	28640.0	47520.0	23.76
11/13/20	CSD	116324	M-84667	2310196	77700.0	27380.0	50320.0	25.16
11/13/20	CSD	116325	M-84668	2310196	79060.0	28680.0	50380.0	25.19
11/13/20	CSD	116326	M-84669	2310196	78740.0	27400.0	51340.0	25.67
11/13/20	CSD	116327	M-84670	2310196	78620.0	27000.0	51620.0	25.81
11/13/20	CSD	116328	M-84671	2310196	78360.0	27460.0	50900.0	25.45
11/13/20	CSD	116318	M-84661	2310196	75620.0	29000.0	46620.0	23.31
11/13/20	CSD	116317	M-84660	2310196	79300.0	27900.0	51400.0	25.70
11/13/20	CSD	116316	M-84659	2310196	75900.0	29440.0	46460.0	23.23
11/13/20	CSD	116306	M-84649	2310196	78320.0	28440.0	49880.0	24.94
11/13/20	CSD	116307	M-84650	2310196	77200.0	28940.0	48260.0	24.13
11/13/20	CSD	116308	M-84651	2310196	77800.0	28900.0	48900.0	24.45
11/13/20	CSD	116309	M-84652	2310196	78260.0	28780.0	49480.0	24.74
11/13/20	CSD	116310	M-84653	2310196	78040.0	27620.0	50420.0	25.21

11/13/20	CSD	116311	M-84654	2310196	75880.0	27200.0	48680.0	24.34
11/13/20	CSD	116312	M-84655	2310196	74620.0	28700.0	45920.0	22.96
11/13/20	CSD	116313	M-84656	2310196	78360.0	27780.0	50580.0	25.29
11/13/20	CSD	116314	M-84657	2310196	79140.0	28060.0	51080.0	25.54
11/13/20	CSD	116315	M-84658	2310196	78660.0	29120.0	49540.0	24.77
11/16/20	CSD	116340	M-84715	2310196	77880.0	28520.0	49360.0	24.68
11/16/20	CSD	116341	M-84716	2310196	75560.0	28980.0	46580.0	23.29
11/16/20	CSD	116342	M-84717	2310196	77900.0	27920.0	49980.0	24.99
11/16/20	CSD	116343	M-84718	2310196	75660.0	28680.0	46980.0	23.49
11/16/20	CSD	116344	M-84719	2310196	78800.0	28680.0	50120.0	25.06
11/16/20	CSD	116345	M-84720	2310196	77520.0	27240.0	50280.0	25.14
11/16/20	CSD	116346	M-84721	2310196	77620.0	27340.0	50280.0	25.14
11/16/20	CSD	116347	M-84722	2310196	75000.0	28120.0	46880.0	23.44
11/16/20	CSD	116339	M-84714	2310196	77440.0	29280.0	48160.0	24.08

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
11/16/20	CSD	116338	M-84713	2310196	78060.0	28720.0	49340.0	24.67
11/16/20	CSD	116337	M-84712	2310196	76540.0	27900.0	48640.0	24.32
11/16/20	CSD	116329	M-84704	2310196	75180.0	27760.0	47420.0	23.71
11/16/20	CSD	116330	M-84705	2310196	78480.0	28880.0	49600.0	24.80
11/16/20	CSD	116331	M-84706	2310196	78060.0	27460.0	50600.0	25.30
11/16/20	CSD	116332	M-84707	2310196	77540.0	28980.0	48560.0	24.28
11/16/20	CSD	116333	M-84708	2310196	74740.0	27920.0	46820.0	23.41
11/16/20	CSD	116334	M-84709	2310196	76000.0	27700.0	48300.0	24.15
11/16/20	CSD	116335	M-84710	2310196	76640.0	28120.0	48520.0	24.26
11/16/20	CSD	116336	M-84711	2310196	75600.0	27160.0	48440.0	24.22
11/17/20	CSD	116360	M-84751	2310196	78040.0	27180.0	50860.0	25.43
11/17/20	CSD	116361	M-84752	2310196	73960.0	29120.0	44840.0	22.42
11/17/20	CSD	116362	M-84753	2310196	73700.0	29360.0	44340.0	22.17
11/17/20	CSD	116363	M-84754	2310196	76780.0	28420.0	48360.0	24.18
11/17/20	CSD	116364	M-84755	2310196	77680.0	29300.0	48380.0	24.19
11/17/20	CSD	116365	M-84756	2310196	77140.0	27520.0	49620.0	24.81
11/17/20	CSD	116366	M-84757	2310196	77320.0	28520.0	48800.0	24.40
11/17/20	CSD	116367	M-84758	2310196	77380.0	27460.0	49920.0	24.96
11/17/20	CSD	116368	M-84759	2310196	77200.0	29080.0	48120.0	24.06
11/17/20	CSD	116359	M-84750	2310196	77360.0	27880.0	49480.0	24.74
11/17/20	CSD	116358	M-84749	2310196	78100.0	26820.0	51280.0	25.64
11/17/20	CSD	116349	M-84740	2310196	78300.0	28940.0	49360.0	24.68
11/17/20	CSD	116350	M-84741	2310196	75900.0	27280.0	48620.0	24.31
11/17/20	CSD	116351	M-84742	2310196	77620.0	28420.0	49200.0	24.60
11/17/20	CSD	116352	M-84743	2310196	78880.0	27600.0	51280.0	25.64
11/17/20	CSD	116353	M-84744	2310196	77320.0	27320.0	50000.0	25.00

11/17/20	CSD	116354	M-84745	2310196	78140.0	27400.0	50740.0	25.37
11/17/20	CSD	116355	M-84746	2310196	77320.0	28860.0	48460.0	24.23
11/17/20	CSD	116356	M-84747	2310196	77180.0	27720.0	49460.0	24.73
11/17/20	CSD	116357	M-84748	2310196	77920.0	28080.0	49840.0	24.92
11/18/20	CSD	116381	M-84787	2310196	78580.0	27260.0	51320.0	25.66
11/18/20	CSD	116382	M-84788	2310196	79740.0	27860.0	51880.0	25.94
11/18/20	CSD	116383	M-84789	2310196	76100.0	27800.0	48300.0	24.15
11/18/20	CSD	116384	M-84790	2310196	74260.0	28960.0	45300.0	22.65
11/18/20	CSD	116385	M-84791	2310196	75680.0	29340.0	46340.0	23.17
11/18/20	CSD	116786	M-84792	2310196	79900.0	29000.0	50900.0	25.45
11/18/20	CSD	116387	M-84793	2310196	78700.0	27480.0	51220.0	25.61
11/18/20	CSD	116388	M-84794	2310196	79900.0	27560.0	52340.0	26.17
11/18/20	CSD	116380	M-84786	2310196	79080.0	29000.0	50080.0	25.04
11/18/20	CSD	116379	M-84785	2310196	79060.0	28120.0	50940.0	25.47

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11/18/20	CSD	116378	M-84784	2310196	78620.0	28920.0	49700.0	24.85
11/18/20	CSD	116369	M-84776	2310196	79340.0	28900.0	50440.0	25.22
11/18/20	CSD	116370	M-84777	2310196	78460.0	29440.0	49020.0	24.51
11/18/20	CSD	116372	M-84778	2310196	77580.0	28520.0	49060.0	24.53
11/18/20	CSD	116373	M-84779	2310196	74460.0	27320.0	47140.0	23.57
11/18/20	CSD	116374	M-84780	2310196	78200.0	27640.0	50560.0	25.28
11/18/20	CSD	116375	M-84781	2310196	78300.0	27100.0	51200.0	25.60
11/18/20	CSD	116376	M-84782	2310196	79620.0	27420.0	52200.0	26.10
11/18/20	CSD	116377	M-84783	2310196	73920.0	27680.0	46240.0	23.12
11/19/20	CSD	116399	M-84822	2310196	77760.0	28980.0	48780.0	24.39
11/19/20	CSD	116401	M-84823	2310196	78420.0	28140.0	50280.0	25.14
11/19/20	CSD	116402	M-84824	2310196	79640.0	27880.0	51760.0	25.88
11/19/20	CSD	116403	M-84825	2310196	74200.0	29000.0	45200.0	22.60
11/19/20	CSD	116404	M-84826	2310196	78780.0	28980.0	49800.0	24.90
11/19/20	CSD	116405	M-84827	2310196	74000.0	29360.0	44640.0	22.32
11/19/20	CSD	116406	M-84828	2310196	76820.0	28920.0	47900.0	23.95
11/19/20	CSD	116407	M-84829	2310196	79400.0	27900.0	51500.0	25.75
11/19/20	CSD	116408	M-84830	2310196	75620.0	28800.0	46820.0	23.41
11/19/20	CSD	116398	M-84821	2310196	78860.0	27640.0	51220.0	25.61
11/19/20	CSD	116396	M-84820	2310196	79240.0	27360.0	51880.0	25.94
11/19/20	CSD	116397	M-84811	2310196	76040.0	28720.0	47320.0	23.66
11/19/20	CSD	116389	M-84812	2310196	80460.0	28880.0	51580.0	25.79
11/19/20	CSD	116390	M-84813	2310196	79220.0	27740.0	51480.0	25.74
11/19/20	CSD	116400	M-84814	2310196	78120.0	27200.0	50920.0	25.46
11/19/20	CSD	116391	M-84815	2310196	79040.0	26940.0	52100.0	26.05
11/19/20	CSD	116392	M-84816	2310196	78560.0	28480.0	50080.0	25.04

11/19/20	CSD	116393	M-84817	2310196	78980.0	27800.0	51180.0	25.59
11/19/20	CSD	116394	M-84818	2310196	74140.0	27500.0	46640.0	23.32
11/19/20	CSD	116395	M-84819	2310196	79340.0	27780.0	51560.0	25.78
11/20/20	CSD	116409	M-84846	2310196	77160.0	28940.0	48220.0	24.11
11/20/20	CSD	16417	M-84854	2310196	77680.0	28680.0	49000.0	24.50
11/20/20	CSD	16416	M-84853	2310196	77020.0	28060.0	48960.0	24.48
11/20/20	CSD	16415	M-84852	2310196	74600.0	29140.0	45460.0	22.73
11/20/20	CSD	16414	M-84851	2310196	77220.0	27640.0	49580.0	24.79
11/20/20	CSD	16413	M-84850	2310196	77420.0	28440.0	48980.0	24.49
11/20/20	CSD	16412	M-84849	2310196	77000.0	27420.0	49580.0	24.79
11/20/20	CSD	16411	M-84848	2310196	77800.0	27720.0	50080.0	25.04
11/20/20	CSD	92327	M-84847	2310196	77120.0	29420.0	47700.0	23.85
11/20/20	CSD	16420	M-84857	2310196	77360.0	28160.0	49200.0	24.60
11/20/20	CSD	16418	M-84855	2310196	78540.0	27680.0	50860.0	25.43

AG TECH, LLC

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
11/20/20	CSD	16427	M-85116	2310196	77180.0	27380.0	49800.0	24.90
11/20/20	CSD	16426	M-85115	2310196	77200.0	33480.0	43720.0	21.86
11/20/20	CSD	16425	M-84862	2310196	77080.0	27940.0	49140.0	24.57
11/20/20	CSD	16424	M-84861	2310196	78100.0	29000.0	49100.0	24.55
11/20/20	CSD	16423	M-84860	2310196	74940.0	29260.0	45680.0	22.84
11/20/20	CSD	16422	M-84859	2310196	76220.0	27620.0	48600.0	24.30
11/20/20	CSD	16421	M-84858	2310196	72020.0	28920.0	43100.0	21.55
11/20/20	CSD	16419	M-84856	2310196	78140.0	27800.0	50340.0	25.17
11/23/20	CSD	116438	M-84912	2310196	78660.0	28660.0	50000.0	25.00
11/23/20	CSD	116448	M-84922	2310196	76300.0	29320.0	46980.0	23.49
11/23/20	CSD	116447	M-84921	2310196	77760.0	27880.0	49880.0	24.94
11/23/20	CSD	116434	M-84908	2310196	77800.0	28120.0	49680.0	24.84
11/23/20	CSD	116431	M-84905	2310196	79920.0	27660.0	52260.0	26.13
11/23/20	CSD	116432	M-84906	2310196	74100.0	29160.0	44940.0	22.47
11/23/20	CSD	116430	M-84904	2310196	74800.0	27720.0	47080.0	23.54
11/23/20	CSD	116435	M-84909	2310196	78940.0	28840.0	50100.0	25.05
11/23/20	CSD	116436	M-84910	2310196	77960.0	27180.0	50780.0	25.39
11/23/20	CSD	116429	M-84903	2310196	76560.0	29360.0	47200.0	23.60
11/23/20	CSD	116428	M-84902	2310196	78520.0	28980.0	49540.0	24.77
11/23/20	CSD	116437	M-84911	2310196	79040.0	27820.0	51220.0	25.61
11/23/20	CSD	116439	M-84913	2310196	76460.0	28980.0	47480.0	23.74
11/23/20	CSD	116446	M-84920	2310196	79260.0	27920.0	51340.0	25.67
11/23/20	CSD	116445	M-84919	2310196	75780.0	28280.0	47500.0	23.75
11/23/20	CSD	116444	M-84918	2310196	79500.0	27400.0	52100.0	26.05
11/23/20	CSD	116443	M-84917	2310196	77800.0	27240.0	50560.0	25.28
11/23/20	CSD	116442	M-84916	2310196	77660.0	29060.0	48600.0	24.30

11/23/20	CSD	116441	M-84915	2310196	77600.0	28880.0	48720.0	24.36
11/23/20	CSD	116440	M-84914	2310196	78420.0	27700.0	50720.0	25.36
11/23/20	CSD	116433	M-84907	2310196	79540.0	27680.0	51860.0	25.93
11/24/20	CSD	116464	M-84955	2310196	78220.0	28880.0	49340.0	24.67
11/24/20	CSD	116463	M-84954	2310196	74840.0	29000.0	45840.0	22.92
11/24/20	CSD	116465	M-84956	2310196	77120.0	29040.0	48080.0	24.04
11/24/20	CSD	116466	M-84957	2310196	76320.0	28940.0	47380.0	23.69
11/24/20	CSD	116467	M-84958	2310196	77080.0	28020.0	49060.0	24.53
11/24/20	CSD	116468	M-84959	2310196	75000.0	32360.0	42640.0	21.32
11/24/20	CSD	116469	M-84960	2310196	77460.0	27700.0	49760.0	24.88
11/24/20	CSD	116462	M-84953	2310196	78280.0	27200.0	51080.0	25.54
11/24/20	CSD	116461	M-84952	2310196	77180.0	27700.0	49480.0	24.74
11/24/20	CSD	116449	M-84940	2310196	77340.0	28980.0	48360.0	24.18
11/24/20	CSD	116450	M-84941	2310196	77400.0	29440.0	47960.0	23.98

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
11/24/20	CSD	116451	M-84942	2310196	69160.0	28860.0	40300.0	20.15
11/24/20	CSD	116452	M-84943	2310196	76980.0	27340.0	49640.0	24.82
11/24/20	CSD	116453	M-84944	2310196	78500.0	27640.0	50860.0	25.43
11/24/20	CSD	116454	M-84945	2310196	74880.0	29080.0	45800.0	22.90
11/24/20	CSD	116455	M-84946	2310196	77840.0	28920.0	48920.0	24.46
11/24/20	CSD	116460	M-84951	2310196	77440.0	27960.0	49480.0	24.74
11/24/20	CSD	116435	M-84950	2310196	77420.0	28060.0	49360.0	24.68
11/24/20	CSD	116458	M-84949	2310196	78260.0	28920.0	49340.0	24.67
11/24/20	CSD	116457	M-84948	2310196	77140.0	27740.0	49400.0	24.70
11/24/20	CSD	116456	M-84947	2310196	74900.0	27500.0	47400.0	23.70
11/25/20	CSD	116483	M-84989	2310196	75200.0	29040.0	46160.0	23.08
11/25/20	CSD	116484	M-84990	2310196	78740.0	27300.0	51440.0	25.72
11/25/20	CSD	116485	M-84991	2310196	78220.0	28540.0	49680.0	24.84
11/25/20	CSD	116486	M-84992	2310196	79920.0	27680.0	52240.0	26.12
11/25/20	CSD	116487	M-84993	2310196	78800.0	28700.0	50100.0	25.05
11/25/20	CSD	116488	M-84994	2310196	79920.0	29000.0	50920.0	25.46
11/25/20	CSD	116489	M-84995	2310196	78660.0	28640.0	50020.0	25.01
11/25/20	CSD	116490	M-84996	2310196	79640.0	27400.0	52240.0	26.12
11/25/20	CSD	116491	M-84997	2310196	78940.0	28940.0	50000.0	25.00
11/25/20	CSD	116492	M-84998	2310196	74780.0	29300.0	45480.0	22.74
11/25/20	CSD	116482	M-84988	2310196	78500.0	27200.0	51300.0	25.65
11/25/20	CSD	116481	M-84987	2310196	79040.0	28020.0	51020.0	25.51
11/25/20	CSD	116471	M-84977	2310196	78560.0	28960.0	49600.0	24.80
11/25/20	CSD	116472	M-84978	2310196	79140.0	29440.0	49700.0	24.85
11/25/20	CSD	116473	M-84979	2310196	75220.0	27660.0	47560.0	23.78
11/25/20	CSD	116474	M-84980	2310196	75080.0	26650.0	48430.0	24.22

11/25/20	CSD	116475	M-84981	2310196	73400.0	28900.0	44500.0	22.25
11/25/20	CSD	116476	M-84982	2310196	75440.0	29120.0	46320.0	23.16
11/25/20	CSD	116477	M-84983	2310196	79300.0	27600.0	51700.0	25.85
11/25/20	CSD	116478	M-84984	2310196	77320.0	27840.0	49480.0	24.74
11/25/20	CSD	116479	M-84985	2310196	78760.0	28140.0	50620.0	25.31
11/25/20	CSD	116480	M-84986	2310196	79820.0	27960.0	51860.0	25.93
11/27/20	CSD	116509	M-85033	2310196	77580.0	27920.0	49660.0	24.83
11/27/20	CSD	116508	M-85032	2310196	78160.0	29120.0	49040.0	24.52
11/27/20	CSD	116507	M-85031	2310196	77040.0	27940.0	49100.0	24.55
11/27/20	CSD	116506	M-85030	2310196	75840.0	28980.0	46860.0	23.43
11/27/20	CSD	116510	M-85034	2310196	77580.0	27320.0	50260.0	25.13
11/27/20	CSD	116510	M-85035	2310196	77580.0	28260.0	49320.0	24.66
11/27/20	CSD	116512	M-85036	2310196	75140.0	28620.0	46520.0	23.26
11/27/20	CSD	116513	M-85037	2310196	77440.0	27380.0	50060.0	25.03

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
11/27/20	CSD	116514	M-85038	2310196	75460.0	27840.0	47620.0	23.81
11/27/20	CSD	116515	M-85039	2310196	78080.0	27680.0	50400.0	25.20
11/27/20	CSD	115518	M-85059	2310196	76780.0	29440.0	47340.0	23.67
11/27/20	CSD	116505	M-85029	2310196	79700.0	27240.0	52460.0	26.23
11/27/20	CSD	116504	M-85028	2310196	78200.0	27680.0	50520.0	25.26
11/27/20	CSD	116493	M-85017	2310196	77900.0	28940.0	48960.0	24.48
11/27/20	CSD	116494	M-85018	2310196	78440.0	28600.0	49840.0	24.92
11/27/20	CSD	116495	M-85019	2310196	78060.0	29400.0	48660.0	24.33
11/27/20	CSD	116496	M-85020	2310196	74780.0	27660.0	47120.0	23.56
11/27/20	CSD	116497	M-85021	2310196	74500.0	30140.0	44360.0	22.18
11/27/20	CSD	116498	M-85022	2310196	78120.0	28880.0	49240.0	24.62
11/27/20	CSD	116499	M-85023	2310196	74700.0	28560.0	46140.0	23.07
11/27/20	CSD	116503	M-85027	2310196	77920.0	28040.0	49880.0	24.94
11/27/20	CSD	116502	M-85026	2310196	77640.0	27800.0	49840.0	24.92
11/27/20	CSD	116501	M-85025	2310196	78800.0	27640.0	51160.0	25.58
11/27/20	CSD	116500	M-85024	2310196	78770.0	27680.0	51090.0	25.55
11/28/20	CSD	116530	M-85073	2310196	77280.0	28860.0	48420.0	24.21
11/28/20	CSD	116529	M-85072	2310196	77620.0	28460.0	49160.0	24.58
11/28/20	CSD	116528	M-85071	2310196	77800.0	27880.0	49920.0	24.96
11/28/20	CSD	116527	M-85070	2310196	77460.0	28940.0	48520.0	24.26
11/28/20	CSD	116526	M-85067	2310196	75740.0	29280.0	46460.0	23.23
11/28/20	CSD	116525	M-85066	2310196	77040.0	27200.0	49840.0	24.92
11/28/20	CSD	116524	M-85065	2310196	77120.0	27960.0	49160.0	24.58
11/28/20	CSD	116523	M-85064	2310196	78220.0	27800.0	50420.0	25.21
11/28/20	CSD	116516	M-85057	2310196	77060.0	28940.0	48120.0	24.06
11/28/20	CSD	116517	M-85058	2310196	77860.0	28640.0	49220.0	24.61

11/28/20	CSD	116519	M-85060	2310196	77100.0	28960.0	48140.0	24.07
11/28/20	CSD	116520	M-85061	2310196	75700.0	27500.0	48200.0	24.10
11/28/20	CSD	116521	M-85062	2310196	74800.0	29080.0	45720.0	22.86
11/28/20	CSD	116522	M-85063	2310196	77420.0	27380.0	50040.0	25.02
11/30/20	CSD	116542	M-85106	2310196	75700.0	29140.0	46560.0	23.28
11/30/20	CSD	116543	M-85107	2310196	78120.0	27700.0	50420.0	25.21
11/30/20	CSD	166544	M-85108	2310196	77780.0	27980.0	49800.0	24.90
11/30/20	CSD	116545	M-85109	2310196	77840.0	29320.0	48520.0	24.26
11/30/20	CSD	116546	M-85110	2310196	78920.0	28960.0	49960.0	24.98
11/30/20	CSD	116547	M-85111	2310196	77220.0	27200.0	50020.0	25.01
11/30/20	CSD	116548	M-85112	2310196	78740.0	27360.0	51380.0	25.69
11/30/20	CSD	116549	M-85113	2310196	77660.0	27880.0	49780.0	24.89
11/30/20	CSD	116541	M-85105	2310196	78320.0	27700.0	50620.0	25.31
11/30/20	CSD	116540	M-85104	2310196	78480.0	27160.0	51320.0	25.66

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
11/30/20	CSD	116539	M-85103	2310196	77440.0	28100.0	49340.0	24.67
11/30/20	CSD	116531	M-85095	2310196	79860.0	29520.0	50340.0	25.17
11/30/20	CSD	116532	M-85096	2310196	77340.0	28640.0	48700.0	24.35
11/30/20	CSD	116533	M-85097	2310196	78560.0	28920.0	49640.0	24.82
11/30/20	CSD	116534	M-85098	2310196	75280.0	27720.0	47560.0	23.78
11/30/20	CSD	116535	M-85099	2310196	76780.0	27580.0	49200.0	24.60
11/30/20	CSD	116536	M-85100	2310196	74880.0	29140.0	45740.0	22.87
11/30/20	CSD	116537	M-85101	2310196	77480.0	27860.0	49620.0	24.81
11/30/20	CSD	116538	M-85102	2310196	78380.0	28400.0	49980.0	24.99
11/30/20	CSD	116550	M-85114	2310196	78920.0	27660.0	51260.0	25.63

AG TECH, LLC

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Monthly Biosolids Report to

City of San Diego

For December 2020

AG TECH, LLC

3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Monthly Summary for City of San Diego
December 2020

Field 2310196 received 462 loads totaling 11239.84 tons of Biosolids between 12/01/20 and 12/31/20

Composition analysis dated 10/31/20 was used to determine the makeup of the biosolids loaded between 12/01/20 and 12/31/20

Solids %: 27.2000
Composition PPM (mg/kg)
Arsenic (As): 0.0000
Cadmium (Cd): 0.0000
Chromium (Cr): 59.4000
Copper (Cu): 654.0000
Lead (Pb): 11.5000
Mercury (Hg): 0.6900
Molybdenum (Mo): 20.5000
Nickel (Ni): 27.9000
Selenium (Se): 7.2600
Zinc (Zn): 1010.0000
Organic Nitrogen (OrgN): 45960.0000
Ammoniacal Nitrogen (NH3-N): 7540.0000
Nitrate Nitrogen (NO3-N): 0.0000

AG TECH, LLC
3895 W. County 19th St. Somerton, Arizona 85350 Phone (928) 287-2693

Application Summary for Field 2310196
City of San Diego - December 2020

Origin: City of San Diego Short Name: San Diego Code: CSD
Location: Point Loma , San Diego, CA
Biosolids Type: Class B Pathogen Treatment Method = 5

Farm: AGTECH Pivot: DU-8 Field: 2310196 Area: 60.00 Acres = 24.28 Hectares
Location: S2 SW4 T10S R23W SEC 19 GSRBM , Yuma, AZ
Latitude: N 32 32 30.6 Longitude: W 114 39 44.4

462 loads of Biosolids were applied to field 2310196 from 12/01/20 to 12/31/20
Application Method: Incorporation

Analysis Date(s): 10/31/20

Solids Percentage: 27.2%

Wet Biosolids Applied:	11239.84 Tons	10196.61 Metric Tons
Dry Biosolids Applied:	3057.24 Tons	2773.48 Metric Tons
Wet Application Rate:	187.33 Tons/Acre	419.94 Metric Tons/ha
Dry Application Rate:	50.95 Tons/Acre	114.22 Metric Tons/ha

Constituent:	Analysis (mg/kg)	Applied (kg/ha)	Applied (lbs/ac)
Arsenic (As):	0.00	0.00	0.00
Cadmium (Cd):	0.00	0.00	0.00
Chromium (Cr):	0	6.78	6.05
Copper (Cu):	654.00	74.70	66.65
Lead (Pb):	11.50	1.31	1.17
Mercury (Hg):	0.69	0.08	0.07
Molybdenum (Mo):	20.50	2.34	2.09

Nickel (Ni):	27.90	3.19	2.84
Selenium (Se):	7.26	0.83	0.74
Zinc (Zn):	1,010.00	115.37	102.93
Organic Nitrogen (OrgN):	45,960.00	5,249.71	4,683.68
Ammoniacal Nitrogen (NH3-N):	7,540.00	861.24	768.38
Nitrate Nitrogen (NO3-N):	0.00	0.00	0.00
Total Kjeldahl Nitrogen (TKN):	53,500.00	866.24	772.38

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City of San Diego December 2020 Haul Logs Page 1

Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
12/01/20	CSD	116551	M-85135	2310196	78480.0	29440.0	49040.0	24.52
12/01/20	CSD	116563	M-85147	2310196	74040.0	29020.0	45020.0	22.51
12/01/20	CSD	116564	M-85148	2310196	77540.0	28940.0	48600.0	24.30
12/01/20	CSD	116565	M-85149	2310196	77440.0	27980.0	49460.0	24.73
12/01/20	CSD	116566	M-85150	2310196	77920.0	28900.0	49020.0	24.51
12/01/20	CSD	116567	M-85151	2310196	79080.0	29180.0	49900.0	24.95
12/01/20	CSD	116568	M-85152	2310196	79100.0	27740.0	51360.0	25.68
12/01/20	CSD	116569	M-85153	2310196	74040.0	29200.0	44840.0	22.42
12/01/20	CSD	116570	M-85154	2310196	78160.0	28260.0	49900.0	24.95
12/01/20	CSD	116571	M-85155	2310196	77900.0	27980.0	49920.0	24.96
12/01/20	CSD	116562	M-85146	2310196	78780.0	27160.0	51620.0	25.81
12/01/20	CSD	116561	M-85145	2310196	78060.0	28080.0	49980.0	24.99
12/01/20	CSD	116552	M-85136	2310196	77300.0	28680.0	48620.0	24.31
12/01/20	CSD	116553	M-85137	2310196	75220.0	28000.0	47220.0	23.61
12/01/20	CSD	116554	M-85138	2310196	77800.0	28920.0	48880.0	24.44
12/01/20	CSD	116555	M-85139	2310196	75020.0	28680.0	46340.0	23.17
12/01/20	CSD	116556	M-85140	2310196	77760.0	27620.0	50140.0	25.07
12/01/20	CSD	116557	M-85141	2310196	77640.0	27820.0	49820.0	24.91
12/01/20	CSD	116558	M-85142	2310196	78460.0	28940.0	49520.0	24.76
12/01/20	CSD	116559	M-85143	2310196	78360.0	27140.0	51220.0	25.61
12/01/20	CSD	116560	M-85144	2310196	77560.0	27380.0	50180.0	25.09
12/02/20	CSD	116583	M-85181	2310196	77980.0	28240.0	49740.0	24.87
12/02/20	CSD	116584	M-85182	2310196	78420.0	27460.0	50960.0	25.48
12/02/20	CSD	116585	M-85183	2310196	79520.0	29000.0	50520.0	25.26
12/02/20	CSD	116586	M-85184	2310196	74800.0	29200.0	45600.0	22.80
12/02/20	CSD	116587	M-85185	2310196	75620.0	29280.0	46340.0	23.17

12/02/20	CSD	116588	M-85186	2310196	74800.0	27960.0	46840.0	23.42
12/02/20	CSD	116589	M-85187	2310196	78800.0	28280.0	50520.0	25.26
12/02/20	CSD	116590	M-85188	2310196	78280.0	29160.0	49120.0	24.56
12/02/20	CSD	116591	M-85189	2310196	78420.0	27740.0	50680.0	25.34
12/02/20	CSD	116582	M-85180	2310196	75840.0	29020.0	46820.0	23.41
12/02/20	CSD	116581	M-85179	2310196	79800.0	27200.0	52600.0	26.30
12/02/20	CSD	116572	M-85170	2310196	78680.0	29500.0	49180.0	24.59
12/02/20	CSD	116573	M-85171	2310196	78120.0	28700.0	49420.0	24.71
12/02/20	CSD	116574	M-85172	2310196	78840.0	28960.0	49880.0	24.94
12/02/20	CSD	116575	M-85173	2310196	74040.0	27740.0	46300.0	23.15
12/02/20	CSD	116576	M-85174	2310196	73960.0	28880.0	45080.0	22.54
12/02/20	CSD	116577	M-85175	2310196	78660.0	27660.0	51000.0	25.50
12/02/20	CSD	116578	M-85176	2310196	78680.0	28920.0	49760.0	24.88
12/02/20	CSD	116579	M-85177	2310196	78900.0	27860.0	51040.0	25.52

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
12/02/20	CSD	116580	M-85178	2310196	78860.0	28220.0	50640.0	25.32
12/03/20	CSD	116601	M-85217	2310196	78740.0	27940.0	50800.0	25.40
12/03/20	CSD	116602	M-85218	2310196	79340.0	28960.0	50380.0	25.19
12/03/20	CSD	116603	M-85219	2310196	74500.0	29680.0	44820.0	22.41
12/03/20	CSD	116604	M-85220	2310196	75540.0	27800.0	47740.0	23.87
12/03/20	CSD	116605	M-85221	2310196	79500.0	27720.0	51780.0	25.89
12/03/20	CSD	116606	M-85222	2310196	78400.0	28440.0	49960.0	24.98
12/03/20	CSD	116607	M-85223	2310196	78620.0	28440.0	50180.0	25.09
12/03/20	CSD	116600	M-85216	2310196	79680.0	27180.0	52500.0	26.25
12/03/20	CSD	116599	M-85215	2310196	78220.0	28960.0	49260.0	24.63
12/03/20	CSD	116592	M-85208	2310196	78840.0	29440.0	49400.0	24.70
12/03/20	CSD	116593	M-85209	2310196	78140.0	28280.0	49860.0	24.93
12/03/20	CSD	116594	M-85210	2310196	78580.0	28920.0	49660.0	24.83
12/03/20	CSD	116595	M-85211	2310196	73980.0	28800.0	45180.0	22.59
12/03/20	CSD	116596	M-85212	2310196	78000.0	27620.0	50380.0	25.19
12/03/20	CSD	116597	M-85213	2310196	79260.0	28320.0	50940.0	25.47
12/03/20	CSD	116598	M-85214	2310196	79320.0	27700.0	51620.0	25.81
12/04/20	CSD	116621	M-85253	2310196	77360.0	27880.0	49480.0	24.74
12/04/20	CSD	116622	M-85254	2310196	75020.0	29000.0	46020.0	23.01
12/04/20	CSD	116623	M-85255	2310196	77080.0	29540.0	47540.0	23.77
12/04/20	CSD	116624	M-85256	2310196	77140.0	27420.0	49720.0	24.86
12/04/20	CSD	116625	M-85257	2310196	77900.0	33700.0	44200.0	22.10
12/04/20	CSD	116626	M-85258	2310196	77900.0	28500.0	49400.0	24.70
12/04/20	CSD	116627	M-85259	2310196	75440.0	28700.0	46740.0	23.37
12/04/20	CSD	116628	M-85260	2310196	78520.0	27760.0	50760.0	25.38
12/04/20	CSD	116629	M-85261	2310196	75640.0	28280.0	47360.0	23.68

12/04/20	CSD	116630	M-85262	2310196	78680.0	28320.0	50360.0	25.18
12/04/20	CSD	116631	M-85263	2310196	77880.0	27740.0	50140.0	25.07
12/04/20	CSD	116620	M-85252	2310196	77460.0	28960.0	48500.0	24.25
12/04/20	CSD	116619	M-85251	2310196	77560.0	27620.0	49940.0	24.97
12/04/20	CSD	116608	M-85240	2310196	77880.0	28260.0	49620.0	24.81
12/04/20	CSD	116609	M-85241	2310196	78060.0	28860.0	49200.0	24.60
12/04/20	CSD	116610	M-85242	2310196	77180.0	29440.0	47740.0	23.87
12/04/20	CSD	116611	M-85243	2310196	75020.0	29160.0	45860.0	22.93
12/04/20	CSD	116612	M-85244	2310196	75840.0	28980.0	46860.0	23.43
12/04/20	CSD	116613	M-85245	2310196	77460.0	27940.0	49520.0	24.76
12/04/20	CSD	116614	M-85246	2310196	76920.0	27880.0	49040.0	24.52
12/04/20	CSD	116615	M-85247	2310196	75000.0	28060.0	46940.0	23.47
12/04/20	CSD	116616	M-85248	2310196	75260.0	29260.0	46000.0	23.00
12/04/20	CSD	116617	M-85249	2310196	77960.0	27880.0	50080.0	25.04

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
12/04/20	CSD	166618	M-85250	2310196	77240.0	27660.0	49580.0	24.79
12/07/20	CSD	116649	M-85315	2310196	78500.0	27880.0	50620.0	25.31
12/07/20	CSD	116648	M-85314	2310196	77380.0	27620.0	49760.0	24.88
12/07/20	CSD	116697	M-85313	2310196	76900.0	27540.0	49360.0	24.68
12/07/20	CSD	116646	M-85312	2310196	77860.0	29300.0	48560.0	24.28
12/07/20	CSD	116651	M-85316	2310196	75860.0	27560.0	48300.0	24.15
12/07/20	CSD	116650	M-85317	2310196	76360.0	28600.0	47760.0	23.88
12/07/20	CSD	116652	M-85318	2310196	75400.0	28880.0	46520.0	23.26
12/07/20	CSD	116653	M-85319	2310196	77300.0	27340.0	49960.0	24.98
12/07/20	CSD	116654	M-85320	2310196	76640.0	29140.0	47500.0	23.75
12/07/20	CSD	116655	M-85321	2310196	79640.0	27620.0	52020.0	26.01
12/07/20	CSD	116645	M-85311	2310196	77300.0	27880.0	49420.0	24.71
12/07/20	CSD	116644	M-85310	2310196	78520.0	29380.0	49140.0	24.57
12/07/20	CSD	116643	M-85309	2310196	78680.0	29060.0	49620.0	24.81
12/07/20	CSD	116632	M-85299	2310196	77800.0	29420.0	48380.0	24.19
12/07/20	CSD	116633	M-85300	2310196	78540.0	28640.0	49900.0	24.95
12/07/20	CSD	116634	M-85301	2310196	78760.0	28980.0	49780.0	24.89
12/07/20	CSD	116635	M-85302	2310196	77060.0	28280.0	48780.0	24.39
12/07/20	CSD	116636	M-85303	2310196	78760.0	27820.0	50940.0	25.47
12/07/20	CSD	116638	M-85304	2310196	78080.0	27640.0	50440.0	25.22
12/07/20	CSD	116639	M-85305	2310196	75680.0	28740.0	46940.0	23.47
12/07/20	CSD	116640	M-85306	2310196	78000.0	28980.0	49020.0	24.51
12/07/20	CSD	116641	M-85307	2310196	77060.0	28060.0	49000.0	24.50
12/07/20	CSD	116642	M-85308	2310196	76760.0	28980.0	47780.0	23.89
12/08/20	CSD	116671	M-85350	2310196	79140.0	27040.0	52100.0	26.05
12/08/20	CSD	116670	M-85349	2310196	77980.0	27880.0	50100.0	25.05

12/08/20	CSD	116669	M-85348	2310196	74920.0	29000.0	45920.0	22.96
12/08/20	CSD	NA	M-85347	2310196	77500.0	29860.0	47640.0	23.82
12/08/20	CSD	116672	M-85351	2310196	77320.0	29160.0	48160.0	24.08
12/08/20	CSD	116678	M-85352	2310196	74600.0	31500.0	43100.0	21.55
12/08/20	CSD	116674	M-85353	2310196	77480.0	29920.0	47560.0	23.78
12/08/20	CSD	116675	M-85354	2310196	78260.0	27360.0	50900.0	25.45
12/08/20	CSD	116676	M-85355	2310196	78000.0	27660.0	50340.0	25.17
12/08/20	CSD	116677	M-85356	2310196	77640.0	27880.0	49760.0	24.88
12/08/20	CSD	116667	M-85346	2310196	74200.0	32220.0	41980.0	20.99
12/08/20	CSD	116666	M-85345	2310196	76840.0	28960.0	47880.0	23.94
12/08/20	CSD	116656	M-85335	2310196	77340.0	28640.0	48700.0	24.35
12/08/20	CSD	116657	M-85336	2310196	77380.0	29540.0	47840.0	23.92
12/08/20	CSD	116658	M-85337	2310196	78100.0	27680.0	50420.0	25.21
12/08/20	CSD	116659	M-85338	2310196	75640.0	27880.0	47760.0	23.88

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
12/08/20	CSD	116660	M-85339	2310196	77880.0	27460.0	50420.0	25.21
12/08/20	CSD	116661	M-85340	2310196	75900.0	27800.0	48100.0	24.05
12/08/20	CSD	116662	M-85341	2310196	77220.0	27700.0	49520.0	24.76
12/08/20	CSD	116663	M-85342	2310196	75320.0	28820.0	46500.0	23.25
12/08/20	CSD	116664	M-85343	2310196	77680.0	28060.0	49620.0	24.81
12/08/20	CSD	116665	M-85344	2310196	76040.0	29140.0	46900.0	23.45
12/09/20	CSD	116693	M-85384	2310196	76520.0	27720.0	48800.0	24.40
12/09/20	CSD	116692	M-85383	2310196	76460.0	27900.0	48560.0	24.28
12/09/20	CSD	116691	M-85382	2310196	77260.0	27700.0	49560.0	24.78
12/09/20	CSD	116690	M-85381	2310196	74260.0	28980.0	45280.0	22.64
12/09/20	CSD	116694	M-85385	2310196	77380.0	27720.0	49660.0	24.83
12/09/20	CSD	116695	M-85386	2310196	75900.0	29140.0	46760.0	23.38
12/09/20	CSD	116696	M-85387	2310196	78240.0	27240.0	51000.0	25.50
12/09/20	CSD	116697	M-85388	2310196	75700.0	28020.0	47680.0	23.84
12/09/20	CSD	116898	M-85389	2310196	76660.0	26640.0	50020.0	25.01
12/09/20	CSD	116699	M-85390	2310196	77300.0	27700.0	49600.0	24.80
12/09/20	CSD	116689	M-85380	2310196	77040.0	27180.0	49860.0	24.93
12/09/20	CSD	116688	M-85379	2310196	76740.0	29040.0	47700.0	23.85
12/09/20	CSD	116678	M-85369	2310196	77920.0	27920.0	50000.0	25.00
12/09/20	CSD	116679	M-85370	2310196	76380.0	28620.0	47760.0	23.88
12/09/20	CSD	116680	M-85371	2310196	78720.0	27980.0	50740.0	25.37
12/09/20	CSD	116681	M-85372	2310196	78500.0	29520.0	48980.0	24.49
12/09/20	CSD	116682	M-85373	2310196	78000.0	27420.0	50580.0	25.29
12/09/20	CSD	116683	M-85374	2310196	76120.0	27820.0	48300.0	24.15
12/09/20	CSD	116684	M-85375	2310196	75720.0	28780.0	46940.0	23.47
12/09/20	CSD	116685	M-85376	2310196	77240.0	27640.0	49600.0	24.80

12/09/20	CSD	116686	M-85377	2310196	73060.0	28480.0	44580.0	22.29
12/09/20	CSD	116687	M-85378	2310196	79760.0	28080.0	51680.0	25.84
12/10/20	CSD	116716	M-85423	2310196	77540.0	27720.0	49820.0	24.91
12/10/20	CSD	116715	M-85422	2310196	78360.0	28140.0	50220.0	25.11
12/10/20	CSD	116714	M-85421	2310196	77500.0	28440.0	49060.0	24.53
12/10/20	CSD	116704	M-10009	2310196	75660.0	27900.0	47760.0	23.88
12/10/20	CSD	116717	M-85424	2310196	74240.0	29320.0	44920.0	22.46
12/10/20	CSD	116718	M-85425	2310196	77460.0	27760.0	49700.0	24.85
12/10/20	CSD	116719	M-85426	2310196	77340.0	29300.0	48040.0	24.02
12/10/20	CSD	116720	M-85427	2310196	77320.0	27960.0	49360.0	24.68
12/10/20	CSD	116721	M-85428	2310196	76960.0	28800.0	48160.0	24.08
12/10/20	CSD	166722	M-85429	2310196	77960.0	27680.0	50280.0	25.14
12/10/20	CSD	116713	M-85420	2310196	74980.0	29260.0	45720.0	22.86
12/10/20	CSD	116712	M-85419	2310196	77260.0	27200.0	50060.0	25.03

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12/10/20	CSD	116711	M-85418	2310196	74940.0	29020.0	45920.0	22.96
12/10/20	CSD	19947	M-85408	2310196	77680.0	27320.0	50360.0	25.18
12/10/20	CSD	116701	M-85409	2310196	77200.0	29500.0	47700.0	23.85
12/10/20	CSD	116702	M-85410	2310196	77420.0	27660.0	49760.0	24.88
12/10/20	CSD	116703	M-85411	2310196	78140.0	28200.0	49940.0	24.97
12/10/20	CSD	116705	M-85412	2310196	77100.0	27620.0	49480.0	24.74
12/10/20	CSD	116706	M-85413	2310196	75520.0	28320.0	47200.0	23.60
12/10/20	CSD	116707	M-85414	2310196	72300.0	28440.0	43860.0	21.93
12/10/20	CSD	116708	M-85415	2310196	77120.0	28140.0	48980.0	24.49
12/10/20	CSD	116709	M-85416	2310196	78960.0	27460.0	51500.0	25.75
12/10/20	CSD	116710	M-85417	2310196	77080.0	29100.0	47980.0	23.99
12/11/20	CSD	116740	M-85462	2310196	76100.0	27900.0	48200.0	24.10
12/11/20	CSD	116739	M-85461	2310196	75700.0	27700.0	48000.0	24.00
12/11/20	CSD	116738	M-85460	2310196	76160.0	27980.0	48180.0	24.09
12/11/20	CSD	116737	M-85459	2310196	75820.0	29360.0	46460.0	23.23
12/11/20	CSD	116741	M-85463	2310196	78240.0	27520.0	50720.0	25.36
12/11/20	CSD	116742	M-85464	2310196	77040.0	27780.0	49260.0	24.63
12/11/20	CSD	116743	M-85465	2310196	76560.0	28640.0	47920.0	23.96
12/11/20	CSD	116744	M-85466	2310196	76180.0	27560.0	48620.0	24.31
12/11/20	CSD	116745	M-85467	2310196	77820.0	29380.0	48440.0	24.22
12/11/20	CSD	116746	M-85468	2310196	76800.0	28560.0	48240.0	24.12
12/11/20	CSD	116747	M-85469	2310196	77340.0	27480.0	49860.0	24.93
12/11/20	CSD	116736	M-85458	2310196	74780.0	29080.0	45700.0	22.85
12/11/20	CSD	116733	M-85457	2310196	75640.0	28640.0	47000.0	23.50
12/11/20	CSD	116734	M-85456	2310196	77520.0	27280.0	50240.0	25.12
12/11/20	CSD	116723	M-85445	2310196	76040.0	27760.0	48280.0	24.14

12/11/20	CSD	116724	M-85446	2310196	79380.0	29900.0	49480.0	24.74
12/11/20	CSD	116725	M-85447	2310196	77800.0	28200.0	49600.0	24.80
12/11/20	CSD	116726	M-85448	2310196	75480.0	27800.0	47680.0	23.84
12/11/20	CSD	116727	M-85449	2310196	75720.0	29540.0	46180.0	23.09
12/11/20	CSD	116728	M-85450	2310196	75440.0	28680.0	46760.0	23.38
12/11/20	CSD	116729	M-85451	2310196	77040.0	27060.0	49980.0	24.99
12/11/20	CSD	116730	M-85452	2310196	76980.0	27440.0	49540.0	24.77
12/11/20	CSD	116731	M-85453	2310196	73920.0	28520.0	45400.0	22.70
12/11/20	CSD	116732	M-85454	2310196	79460.0	28080.0	51380.0	25.69
12/11/20	CSD	116733	M-85455	2310196	79000.0	29020.0	49980.0	24.99
12/14/20	CSD	116759	M-85515	2310196	77240.0	27140.0	50100.0	25.05
12/14/20	CSD	116760	M-85516	2310196	74340.0	28820.0	45520.0	22.76
12/14/20	CSD	116761	M-85517	2310196	74960.0	29000.0	45960.0	22.98
12/14/20	CSD	116762	M-85518	2310196	77660.0	28100.0	49560.0	24.78

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
12/14/20	CSD	116764	M-85519	2310196	77600.0	29220.0	48380.0	24.19
12/14/20	CSD	116763	M-85520	2310196	74840.0	28840.0	46000.0	23.00
12/14/20	CSD	116766	M-85521	2310196	78300.0	27420.0	50880.0	25.44
12/14/20	CSD	116767	M-85522	2310196	77700.0	27700.0	50000.0	25.00
12/14/20	CSD	116758	M-85514	2310196	77460.0	27900.0	49560.0	24.78
12/14/20	CSD	116757	M-85513	2310196	78760.0	27540.0	51220.0	25.61
12/14/20	CSD	116756	M-85512	2310196	77040.0	28280.0	48760.0	24.38
12/14/20	CSD	116748	M-85504	2310196	77660.0	29940.0	47720.0	23.86
12/14/20	CSD	116749	M-85505	2310196	77660.0	29980.0	47680.0	23.84
12/14/20	CSD	116750	M-85506	2310196	77360.0	27800.0	49560.0	24.78
12/14/20	CSD	116751	M-85507	2310196	74980.0	28680.0	46300.0	23.15
12/14/20	CSD	116752	M-85508	2310196	78120.0	27000.0	51120.0	25.56
12/14/20	CSD	116753	M-85509	2310196	72180.0	28720.0	43460.0	21.73
12/14/20	CSD	116754	M-85510	2310196	79160.0	28100.0	51060.0	25.53
12/14/20	CSD	116755	M-85511	2310196	77820.0	29000.0	48820.0	24.41
12/15/20	CSD	116779	M-85549	2310196	77420.0	27800.0	49620.0	24.81
12/15/20	CSD	116780	M-85550	2310196	76900.0	28400.0	48500.0	24.25
12/15/20	CSD	116781	M-85551	2310196	77600.0	27900.0	49700.0	24.85
12/15/20	CSD	116782	M-85552	2310196	74220.0	29020.0	45200.0	22.60
12/15/20	CSD	116783	M-85553	2310196	78260.0	27420.0	50840.0	25.42
12/15/20	CSD	116784	M-85554	2310196	77320.0	28100.0	49220.0	24.61
12/15/20	CSD	116785	M-85555	2310196	76960.0	28320.0	48640.0	24.32
12/15/20	CSD	116786	M-85556	2310196	74380.0	28880.0	45500.0	22.75
12/15/20	CSD	116787	M-85557	2310196	77300.0	29360.0	47940.0	23.97
12/15/20	CSD	116778	M-85548	2310196	76880.0	27300.0	49580.0	24.79
12/15/20	CSD	116777	M-85547	2310196	78540.0	27700.0	50840.0	25.42

12/15/20	CSD	116768	M-85538	2310196	74380.0	28920.0	45460.0	22.73
12/15/20	CSD	116769	M-85539	2310196	77140.0	28440.0	48700.0	24.35
12/15/20	CSD	116770	M-85540	2310196	78080.0	27820.0	50260.0	25.13
12/15/20	CSD	116771	M-85541	2310196	77180.0	27460.0	49720.0	24.86
12/15/20	CSD	116772	M-85542	2310196	73800.0	28540.0	45260.0	22.63
12/15/20	CSD	116773	M-85543	2310196	74620.0	28720.0	45900.0	22.95
12/15/20	CSD	116774	M-85544	2310196	77000.0	28160.0	48840.0	24.42
12/15/20	CSD	116775	M-85545	2310196	77360.0	27060.0	50300.0	25.15
12/15/20	CSD	116776	M-85546	2310196	77380.0	29100.0	48280.0	24.14
12/16/20	CSD	116799	M-85585	2310196	77840.0	27260.0	50580.0	25.29
12/16/20	CSD	116800	M-85586	2310196	78680.0	27360.0	51320.0	25.66
12/16/20	CSD	116801	M-85587	2310196	78460.0	27760.0	50700.0	25.35
12/16/20	CSD	116802	M-85588	2310196	77360.0	28980.0	48380.0	24.19
12/16/20	CSD	116803	M-85589	2310196	78480.0	28360.0	50120.0	25.06

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
12/16/20	CSD	116804	M-85590	2310196	73920.0	28840.0	45080.0	22.54
12/16/20	CSD	116805	M-85591	2310196	78120.0	28420.0	49700.0	24.85
12/16/20	CSD	116808	M-85592	2310196	77580.0	27640.0	49940.0	24.97
12/16/20	CSD	116807	M-85593	2310196	78940.0	27580.0	51360.0	25.68
12/16/20	CSD	116498	M-85584	2310196	77960.0	27900.0	50060.0	25.03
12/16/20	CSD	116797	M-85583	2310196	77260.0	29000.0	48260.0	24.13
12/16/20	CSD	116788	M-85574	2310196	76800.0	27860.0	48940.0	24.47
12/16/20	CSD	116789	M-85575	2310196	78620.0	28460.0	50160.0	25.08
12/16/20	CSD	116790	M-85576	2310196	74760.0	28480.0	46280.0	23.14
12/16/20	CSD	116791	M-85577	2310196	73700.0	28920.0	44780.0	22.39
12/16/20	CSD	116792	M-85578	2310196	75260.0	27220.0	48040.0	24.02
12/16/20	CSD	116793	M-85579	2310196	74640.0	29520.0	45120.0	22.56
12/16/20	CSD	118294	M-85580	2310196	78220.0	28100.0	50120.0	25.06
12/16/20	CSD	116755	M-85581	2310196	77560.0	28100.0	49460.0	24.73
12/16/20	CSD	116796	M-85582	2310196	78100.0	29040.0	49060.0	24.53
12/17/20	CSD	116819	M-85620	2310196	74660.0	28920.0	45740.0	22.87
12/17/20	CSD	116820	M-85621	2310196	77100.0	27920.0	49180.0	24.59
12/17/20	CSD	116821	M-85622	2310196	75260.0	29080.0	46180.0	23.09
12/17/20	CSD	116822	M-85623	2310196	78680.0	28660.0	50020.0	25.01
12/17/20	CSD	116823	M-85624	2310196	77500.0	27660.0	49840.0	24.92
12/17/20	CSD	116824	M-85625	2310196	76360.0	28280.0	48080.0	24.04
12/17/20	CSD	116825	M-85626	2310196	77340.0	27820.0	49520.0	24.76
12/17/20	CSD	116826	M-85627	2310196	76700.0	28420.0	48280.0	24.14
12/17/20	CSD	116818	M-85619	2310196	75800.0	28760.0	47040.0	23.52
12/17/20	CSD	116817	M-85618	2310196	77220.0	29080.0	48140.0	24.07
12/17/20	CSD	116816	M-85617	2310196	77600.0	28080.0	49520.0	24.76

12/17/20	CSD	116808	M-85609	2310196	77400.0	28460.0	48940.0	24.47
12/17/20	CSD	116809	M-85610	2310196	77260.0	29900.0	47360.0	23.68
12/17/20	CSD	116810	M-85611	2310196	77300.0	27440.0	49860.0	24.93
12/17/20	CSD	116811	M-85612	2310196	74620.0	28920.0	45700.0	22.85
12/17/20	CSD	116812	M-85613	2310196	77060.0	27840.0	49220.0	24.61
12/17/20	CSD	116813	M-85614	2310196	74340.0	29280.0	45060.0	22.53
12/17/20	CSD	116814	M-85615	2310196	72940.0	28440.0	44500.0	22.25
12/17/20	CSD	116815	M-85616	2310196	77500.0	27280.0	50220.0	25.11
12/18/20	CSD	116839	M-85655	2310196	75700.0	28820.0	46880.0	23.44
12/18/20	CSD	116840	M-85656	2310196	77320.0	27420.0	49900.0	24.95
12/18/20	CSD	116841	M-85657	2310196	75560.0	29040.0	46520.0	23.26
12/18/20	CSD	116842	M-85658	2310196	77280.0	29180.0	48100.0	24.05
12/18/20	CSD	116843	M-85659	2310196	73180.0	27260.0	45920.0	22.96
12/18/20	CSD	116844	M-85660	2310196	77800.0	28080.0	49720.0	24.86

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
12/18/20	CSD	116845	M-85661	2310196	76920.0	27780.0	49140.0	24.57
12/18/20	CSD	116846	M-85662	2310196	75020.0	28960.0	46060.0	23.03
12/18/20	CSD	116847	M-85663	2310196	77160.0	27760.0	49400.0	24.70
12/18/20	CSD	116838	M-85654	2310196	75320.0	28980.0	46340.0	23.17
12/18/20	CSD	116837	M-85653	2310196	77320.0	28400.0	48920.0	24.46
12/18/20	CSD	116836	M-85652	2310196	77460.0	28080.0	49380.0	24.69
12/18/20	CSD	116827	M-85643	2310196	76780.0	27100.0	49680.0	24.84
12/18/20	CSD	116828	M-85644	2310196	73420.0	28900.0	44520.0	22.26
12/18/20	CSD	116829	M-85645	2310196	78380.0	27920.0	50460.0	25.23
12/18/20	CSD	116830	M-85646	2310196	76860.0	29860.0	47000.0	23.50
12/18/20	CSD	116831	M-85647	2310196	74660.0	29300.0	45360.0	22.68
12/18/20	CSD	116832	M-85648	2310196	77400.0	27440.0	49960.0	24.98
12/18/20	CSD	116833	M-85649	2310196	77040.0	27260.0	49780.0	24.89
12/18/20	CSD	116834	M-85650	2310196	78360.0	28620.0	49740.0	24.87
12/18/20	CSD	116835	M-85651	2310196	71860.0	28580.0	43280.0	21.64
12/21/20	CSD	116859	M-85716	2310196	78220.0	29040.0	49180.0	24.59
12/21/20	CSD	116860	M-85717	2310196	75220.0	28760.0	46460.0	23.23
12/21/20	CSD	116861	M-85718	2310196	75940.0	28980.0	46960.0	23.48
12/21/20	CSD	116862	M-85719	2310196	79240.0	27900.0	51340.0	25.67
12/21/20	CSD	116863	M-85720	2310196	78160.0	26860.0	51300.0	25.65
12/21/20	CSD	116864	M-85721	2310196	74600.0	29040.0	45560.0	22.78
12/21/20	CSD	116866	M-85722	2310196	78260.0	27300.0	50960.0	25.48
12/21/20	CSD	116867	M-85723	2310196	77280.0	27460.0	49820.0	24.91
12/21/20	CSD	116858	M-85715	2310196	77680.0	27140.0	50540.0	25.27
12/21/20	CSD	116857	M-85714	2310196	77800.0	27660.0	50140.0	25.07
12/21/20	CSD	116856	M-85713	2310196	77120.0	28100.0	49020.0	24.51

12/21/20	CSD	116848	M-85705	2310196	77900.0	27860.0	50040.0	25.02
12/21/20	CSD	116849	M-85706	2310196	77240.0	28160.0	49080.0	24.54
12/21/20	CSD	116850	M-85707	2310196	76960.0	27960.0	49000.0	24.50
12/21/20	CSD	116851	M-85708	2310196	75220.0	28860.0	46360.0	23.18
12/21/20	CSD	116852	M-85709	2310196	76200.0	29260.0	46940.0	23.47
12/21/20	CSD	116353	M-85710	2310196	72840.0	28580.0	44260.0	22.13
12/21/20	CSD	116854	M-85711	2310196	76940.0	27140.0	49800.0	24.90
12/21/20	CSD	116855	M-85712	2310196	78100.0	29460.0	48640.0	24.32
12/22/20	CSD	116880	M-85751	2310196	73180.0	30260.0	42920.0	21.46
12/22/20	CSD	116881	M-85752	2310196	77680.0	27720.0	49960.0	24.98
12/22/20	CSD	116882	M-85753	2310196	74260.0	28040.0	46220.0	23.11
12/22/20	CSD	116883	M-85754	2310196	77240.0	28740.0	48500.0	24.25
12/22/20	CSD	116884	M-85755	2310196	76940.0	28580.0	48360.0	24.18
12/22/20	CSD	116885	M-85756	2310196	75260.0	29000.0	46260.0	23.13

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
12/22/20	CSD	116886	M-85757	2310196	77120.0	27420.0	49700.0	24.85
12/22/20	CSD	116888	M-85758	2310196	76140.0	28380.0	47760.0	23.88
12/22/20	CSD	116889	M-85759	2310196	79980.0	27300.0	52680.0	26.34
12/22/20	CSD	116890	M-85760	2310196	77820.0	29080.0	48740.0	24.37
12/22/20	CSD	116379	M-85750	2310196	75180.0	30120.0	45060.0	22.53
12/22/20	CSD	116878	M-85749	2310196	77280.0	32340.0	44940.0	22.47
12/22/20	CSD	116868	M-85739	2310196	77340.0	27980.0	49360.0	24.68
12/22/20	CSD	116869	M-85740	2310196	77600.0	27960.0	49640.0	24.82
12/22/20	CSD	116870	M-85741	2310196	77840.0	27400.0	50440.0	25.22
12/22/20	CSD	116871	M-85742	2310196	75080.0	29260.0	45820.0	22.91
12/22/20	CSD	116872	M-85743	2310196	74380.0	28600.0	45780.0	22.89
12/22/20	CSD	116873	M-85744	2310196	77460.0	29480.0	47980.0	23.99
12/22/20	CSD	116874	M-85745	2310196	76800.0	27240.0	49560.0	24.78
12/22/20	CSD	116875	M-85746	2310196	77560.0	28100.0	49460.0	24.73
12/22/20	CSD	116876	M-85747	2310196	75540.0	27560.0	47980.0	23.99
12/22/20	CSD	116877	M-85748	2310196	77140.0	27240.0	49900.0	24.95
12/23/20	CSD	116909	M-85793	2310196	77620.0	27700.0	49920.0	24.96
12/23/20	CSD	116907	M-85792	2310196	77400.0	28980.0	48420.0	24.21
12/23/20	CSD	116906	M-85791	2310196	74880.0	28840.0	46040.0	23.02
12/23/20	CSD	116904	M-85789	2310196	78140.0	27780.0	50360.0	25.18
12/23/20	CSD	116910	M-85794	2310196	75980.0	28380.0	47600.0	23.80
12/23/20	CSD	116911	M-85795	2310196	78840.0	27320.0	51520.0	25.76
12/23/20	CSD	116912	M-85796	2310196	78880.0	27380.0	51500.0	25.75
12/23/20	CSD	116913	M-85797	2310196	79180.0	29660.0	49520.0	24.76
12/23/20	CSD	116908	M-85798	2310196	74780.0	29000.0	45780.0	22.89
12/23/20	CSD	116905	M-85790	2310196	77800.0	28500.0	49300.0	24.65

12/23/20	CSD	116903	M-85788	2310196	77820.0	28740.0	49080.0	24.54
12/23/20	CSD	116902	M-85787	2310196	78740.0	27300.0	51440.0	25.72
12/23/20	CSD	116891	M-85777	2310196	77980.0	27960.0	50020.0	25.01
12/23/20	CSD	116892	M-85778	2310196	75900.0	28080.0	47820.0	23.91
12/23/20	CSD	116893	M-85779	2310196	78020.0	29680.0	48340.0	24.17
12/23/20	CSD	116895	M-85780	2310196	74760.0	29360.0	45400.0	22.70
12/23/20	CSD	116894	M-85781	2310196	78240.0	27780.0	50460.0	25.23
12/23/20	CSD	116896	M-85782	2310196	77620.0	27960.0	49660.0	24.83
12/23/20	CSD	116897	M-85783	2310196	68500.0	28700.0	39800.0	19.90
12/23/20	CSD	116898	M-85784	2310196	78800.0	27220.0	51580.0	25.79
12/23/20	CSD	116899	M-85785	2310196	77640.0	28260.0	49380.0	24.69
12/23/20	CSD	116900	M-85786	2310196	78020.0	28560.0	49460.0	24.73
12/24/20	CSD	116926	M-85827	2310196	77000.0	27240.0	49760.0	24.88
12/24/20	CSD	116928	M-85829	2310196	77380.0	27740.0	49640.0	24.82

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12/24/20	CSD	116929	M-85830	2310196	74740.0	29020.0	45720.0	22.86
12/24/20	CSD	116930	M-85831	2310196	73240.0	28960.0	44280.0	22.14
12/24/20	CSD	116931	M-85832	2310196	77200.0	27200.0	50000.0	25.00
12/24/20	CSD	116932	M-85833	2310196	77740.0	27440.0	50300.0	25.15
12/24/20	CSD	116933	M-85834	2310196	77580.0	27300.0	50280.0	25.14
12/24/20	CSD	116927	M-85828	2310196	76060.0	28380.0	47680.0	23.84
12/24/20	CSD	116925	M-85826	2310196	74920.0	28980.0	45940.0	22.97
12/24/20	CSD	116924	M-85825	2310196	77840.0	28460.0	49380.0	24.69
12/24/20	CSD	116923	M-85824	2310196	76520.0	28200.0	48320.0	24.16
12/24/20	CSD	116914	M-85815	2310196	77220.0	27960.0	49260.0	24.63
12/24/20	CSD	116915	M-85816	2310196	77080.0	27960.0	49120.0	24.56
12/24/20	CSD	116916	M-85817	2310196	77340.0	28500.0	48840.0	24.42
12/24/20	CSD	116917	M-85818	2310196	74640.0	28360.0	46280.0	23.14
12/24/20	CSD	116918	M-85819	2310196	77520.0	29500.0	48020.0	24.01
12/24/20	CSD	116919	M-85820	2310196	76760.0	27280.0	49480.0	24.74
12/24/20	CSD	116920	M-85821	2310196	77640.0	27360.0	50280.0	25.14
12/24/20	CSD	116921	M-85822	2310196	74700.0	29260.0	45440.0	22.72
12/24/20	CSD	116922	M-85823	2310196	77480.0	28680.0	48800.0	24.40
12/28/20	CSD	116947	M-85889	2310196	76660.0	28840.0	47820.0	23.91
12/28/20	CSD	116948	M-85890	2310196	77400.0	29180.0	48220.0	24.11
12/28/20	CSD	116949	M-85891	2310196	76140.0	27600.0	48540.0	24.27
12/28/20	CSD	116950	M-85892	2310196	77820.0	27320.0	50500.0	25.25
12/28/20	CSD	116951	M-85893	2310196	78500.0	27280.0	51220.0	25.61
12/28/20	CSD	116952	M-85894	2310196	78340.0	28340.0	50000.0	25.00
12/28/20	CSD	116953	M-85895	2310196	78860.0	27900.0	50960.0	25.48
12/28/20	CSD	116954	M-85896	2310196	77680.0	29660.0	48020.0	24.01

12/28/20	CSD	116946	M-85888	2310196	75980.0	28540.0	47440.0	23.72
12/28/20	CSD	116944	M-85887	2310196	77100.0	27680.0	49420.0	24.71
12/28/20	CSD	116943	M-85886	2310196	79060.0	27180.0	51880.0	25.94
12/28/20	CSD	116735	M-85878	2310196	77100.0	28200.0	48900.0	24.45
12/28/20	CSD	116936	M-85879	2310196	77400.0	27920.0	49480.0	24.74
12/28/20	CSD	116937	M-85880	2310196	73960.0	28340.0	45620.0	22.81
12/28/20	CSD	116938	M-85881	2310196	78080.0	29500.0	48580.0	24.29
12/28/20	CSD	116939	M-85882	2310196	74700.0	29480.0	45220.0	22.61
12/28/20	CSD	116940	M-85883	2310196	78620.0	27160.0	51460.0	25.73
12/28/20	CSD	116941	M-85884	2310196	76840.0	27540.0	49300.0	24.65
12/28/20	CSD	116942	M-85885	2310196	77540.0	28100.0	49440.0	24.72
12/29/20	CSD	116968	M-85927	2310196	75360.0	28960.0	46400.0	23.20
12/29/20	CSD	116967	M-85928	2310196	74800.0	29060.0	45740.0	22.87
12/29/20	CSD	116969	M-85929	2310196	78380.0	28420.0	49960.0	24.98

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
12/29/20	CSD	116970	M-85930	2310196	80060.0	28460.0	51600.0	25.80
12/29/20	CSD	116971	M-85931	2310196	79740.0	27240.0	52500.0	26.25
12/29/20	CSD	116972	M-85932	2310196	77820.0	27500.0	50320.0	25.16
12/29/20	CSD	116973	M-85933	2310196	77460.0	28640.0	48820.0	24.41
12/29/20	CSD	116974	M-85934	2310196	77980.0	28000.0	49980.0	24.99
12/29/20	CSD	116975	M-85935	2310196	79880.0	29680.0	50200.0	25.10
12/29/20	CSD	116966	M-85926	2310196	79740.0	28560.0	51180.0	25.59
12/29/20	CSD	116965	M-85925	2310196	78360.0	27140.0	51220.0	25.61
12/29/20	CSD	116964	M-85924	2310196	77540.0	27240.0	50300.0	25.15
12/29/20	CSD	116955	M-85915	2310196	78300.0	27560.0	50740.0	25.37
12/29/20	CSD	116956	M-85916	2310196	75960.0	27380.0	48580.0	24.29
12/29/20	CSD	116957	M-85917	2310196	78480.0	28060.0	50420.0	25.21
12/29/20	CSD	116958	M-85918	2310196	78380.0	29620.0	48760.0	24.38
12/29/20	CSD	116959	M-85919	2310196	74580.0	29020.0	45560.0	22.78
12/29/20	CSD	116960	M-85920	2310196	78160.0	27580.0	50580.0	25.29
12/29/20	CSD	116961	M-85921	2310196	79560.0	27200.0	52360.0	26.18
12/29/20	CSD	116962	M-85922	2310196	78260.0	28200.0	50060.0	25.03
12/29/20	CSD	116963	M-85923	2310196	76880.0	27820.0	49060.0	24.53
12/30/20	CSD	116989	M-85964	2310196	75920.0	28660.0	47260.0	23.63
12/30/20	CSD	116990	M-85965	2310196	74700.0	29020.0	45680.0	22.84
12/30/20	CSD	116991	M-85966	2310196	77520.0	28440.0	49080.0	24.54
12/30/20	CSD	116992	M-85967	2310196	77820.0	27500.0	50320.0	25.16
12/30/20	CSD	116993	M-85968	2310196	77940.0	27380.0	50560.0	25.28
12/30/20	CSD	116994	M-85969	2310196	75280.0	29020.0	46260.0	23.13
12/30/20	CSD	116995	M-85970	2310196	77680.0	27440.0	50240.0	25.12
12/30/20	CSD	116996	M-85971	2310196	74880.0	27320.0	47560.0	23.78

12/30/20	CSD	116997	M-85972	2310196	77640.0	28000.0	49640.0	24.82
12/30/20	CSD	116998	M-85973	2310196	78180.0	29680.0	48500.0	24.25
12/30/20	CSD	116988	M-85963	2310196	77940.0	28560.0	49380.0	24.69
12/30/20	CSD	116987	M-85962	2310196	75140.0	27760.0	47380.0	23.69
12/30/20	CSD	116986	M-85961	2310196	75560.0	28680.0	46880.0	23.44
12/30/20	CSD	116976	M-85951	2310196	77860.0	27620.0	50240.0	25.12
12/30/20	CSD	116977	M-85952	2310196	78380.0	28080.0	50300.0	25.15
12/30/20	CSD	116978	M-85953	2310196	78360.0	28260.0	50100.0	25.05
12/30/20	CSD	116979	M-85954	2310196	78960.0	29520.0	49440.0	24.72
12/30/20	CSD	116980	M-85955	2310196	74760.0	29200.0	45560.0	22.78
12/30/20	CSD	116981	M-85956	2310196	78180.0	27520.0	50660.0	25.33
12/30/20	CSD	116982	M-85957	2310196	75880.0	28340.0	47540.0	23.77
12/30/20	CSD	116983	M-85958	2310196	77680.0	27280.0	50400.0	25.20
12/30/20	CSD	116984	M-85959	2310196	78000.0	27280.0	50720.0	25.36

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Date	Origin	Wgt Tkt	Manifest	Field ID	Gross	Tare	Net	Tons
12/30/20	CSD	116985	M-85960	2310196	77820.0	28100.0	49720.0	24.86
12/31/20	CSD	117010	M-86000	2310196	77660.0	28000.0	49660.0	24.83
12/31/20	CSD	117011	M-86001	2310196	77780.0	28540.0	49240.0	24.62
12/31/20	CSD	117012	M-86002	2310196	75320.0	29040.0	46280.0	23.14
12/31/20	CSD	117013	M-86003	2310196	77520.0	26640.0	50880.0	25.44
12/31/20	CSD	117014	M-86004	2310196	75200.0	27520.0	47680.0	23.84
12/31/20	CSD	117015	M-86005	2310196	74640.0	29240.0	45400.0	22.70
12/31/20	CSD	117016	M-86006	2310196	75020.0	29000.0	46020.0	23.01
12/31/20	CSD	117017	M-86007	2310196	76840.0	27440.0	49400.0	24.70
12/31/20	CSD	117018	M-86008	2310196	78780.0	27340.0	51440.0	25.72
12/31/20	CSD	117009	M-85999	2310196	77280.0	27220.0	50060.0	25.03
12/31/20	CSD	117008	M-85998	2310196	75960.0	28660.0	47300.0	23.65
12/31/20	CSD	116999	M-85989	2310196	77800.0	27620.0	50180.0	25.09
12/31/20	CSD	117000	M-85990	2310196	77120.0	27900.0	49220.0	24.61
12/31/20	CSD	117001	M-85991	2310196	77280.0	29460.0	47820.0	23.91
12/31/20	CSD	117002	M-85992	2310196	71720.0	29240.0	42480.0	21.24
12/31/20	CSD	117003	M-85993	2310196	75100.0	28300.0	46800.0	23.40
12/31/20	CSD	117004	M-85994	2310196	77180.0	27540.0	49640.0	24.82
12/31/20	CSD	117005	M-85995	2310196	77300.0	27300.0	50000.0	25.00
12/31/20	CSD	117006	M-85996	2310196	78420.0	28060.0	50360.0	25.18
12/31/20	CSD	117007	M-85997	2310196	75800.0	27740.0	48060.0	24.03
12/31/20	CSD	117019	M-86009	2310196	75240.0	29720.0	45520.0	22.76

Enclosure 13 Maps showing areas of Land Application/Beneficial Reuse in 2020

Please refer to Enclosure 12 field maps provided by the MBC haulers/land appliers within their reports.

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Enclosure 14 Laboratory Methods of Analysis by the City of San Diego for Biosolid Samples

All Title 22 and CFR 503 analyses were performed by our in-house laboratories. These laboratories are certified by the California Environmental Laboratory Accreditation Program (ELAP) under one or more of the following certificate numbers: 1609, 2474,2478, and 2539.

The main Alvarado Wastewater Chemistry Laboratory is also certified by Arizona Department of Health Services (Cert.# AZ0783) for select, required analyses.

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Laboratory Methods of Analysis for Biosolid Samples

Analytes	Description	Instrumentation	Method
Ammonia Nitrogen	Distillation and Titration	Buchi Distillation Unit K-314 & K-350 Orion 950 pH Meter/Titrator	SM 4500-NH3 C-2011
Cyanide	Acid Digest-Distillation Colorimetric	Hot plate distillation & Hach DR6000	EPA 9010B (Distillation) / EPA 9014
Cyanide Reactive	Distillation / Colorimetric	Hot plate distillation & Hach DR6000	EPA SW-846 Chapter 7.3 & EPA 9014
Fluoride, Nitrite, Nitrate	Ion Chromatography	Dionex Integrion HPIC	EPA 300.0, Rev 2.1 (1993)
pH	Hydrogen+Reference Electrode	Various models of pH meters	EPA 9045C, Rev 3 (1995)
Mercury	Thermal Decomposition/ Atomic Absorption Direct mercury analysis	Milestone DMA80	SW 846 Method 7473 (Rev. 2015)
Mercury	Cold Vapor/AA	PSA Millenium Merlin	7471A. Rev 1 (1994) CA 7471B, Rev. 2, (2007) AZ
Metals (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, V, Zn)	Acid Digestion / ICP-OES	Thermo iCAP 7000	EPA 6010B (1996)
Metals (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, V, Zn, P)	Acid Digestion / ICP-OES	Thermo iCAP 7000	EPA 6010C, Rev. 3, (2007)
Sulfides	Acid Digest-Distil / Titration	Class A Manual Burette	EPA 9030B (Distillation) / EPA 9034
Sulfides, reactive	Distillation / Titration	Class A Manual Burette	Section 7.3 SW-846 / EPA 9034
Solids, Total	Gravimetric @ 103-105 C^{o}	Various models balances	SM 2540G (2011)
Solids, Total-Volatile	Gravimetric @ 500 C^{o}	Various models balances	SM 2540G (2011)
Total Kjeldahl Nitrogen (TKN)	Macro-Digestion / Distillation / Titration	Buchi Distillation Unit K-350 Orion 950 pH Meter/Titrator	SM 4500-NH3 C-2011 / SM-4500-Norg B-2011
Total Nitrogen (TN)	Sum Calculation (TKN, NO_2, NO_3)	Please see instrumentation listed above	Please see methods listed above
Base/Neutral Extractable	Methylene Chloride 50% / Acetone 50% Sonication Extraction GC-MSD	Agilent-7890GC/5975 MSD Agilent-8890GC/5977B MSD Capillary DB-5.625	EPA 8270C EPA 3550A

Chlorinated Compounds	Methylene Chloride 50% / Acetone 50% Sonication Extraction, Hexane exchange GC-ECD	Agilent 7890B GC-ECD Elite-CLP 30M/0.32mm/0.5um Elite-CLP2 30M/0.32mm/0.25um	EPA 8081A
PCBs	Methylene Chloride 50% / Acetone 50% Sonication Extraction, Hexane exchange GC-ECD	Agilent 7890B GC-ECD Elite-CLP 30M/0.32mm/0.5um Elite-CLP2 30M/0.32mm/0.25um	EPA 8082
Organophosphorus Pesticides	Methylene Chloride 50% / Acetone 50% Sonication Extraction, hexane exchange, GC-PFPD	Shimadzu GC-2010 PFPD RTX-OPP 30m/0.32mm/0.5um RTX-OPP2 30m/0.32mm/0.32um	EPA 8141A
Phenolic Compounds	Methylene Chloride 50% / Acetone 50% Sonication Extraction GC-MSD	Agilent-7890GC/5975 MSD Agilent-8890GC/5977B MSD Capillary DB-5.625	EPA 8270C EPA 3550A
Purgeables (VOCs)	Purge & Trap, GC-MSD	Instrument 1: O-I Analytical Eclipse 4660 Purge & Trap/4552autosampler Agilent-6890N GC /5973N MSD Capillary J&W Agilent DB-624 Instrument 2: Tekmar Atomx XYZ Purge and Trap/Autosampler Agilent 8890 GC/5977B MSD Capillary J&W Agilent DB-624 UI	EPA 8260B
Tri, Di, and Monobutyl Tin	Methylene Chloride extraction, derivatization, hexane exchange, GC-MS/MS or GC-PFPD	Shimadzu GC-2010PFPD RTX-1 30m/0.25mm/1um RTX-5 30m/0.25mm/1um, Thermo TSQ Duo GC-MS/MS, Agilent DB-XLB 123-1262 60m, 0.32 mm ID, 0.25 µm	In house method
Paint Filter Test	Determination of the presence of free liquid in waste	Filtration with standard conical paint filter [60 ± 5% (fine mesh size)]	SW 846 Method 9095B
Outsourced Test/Parameter	Description	External Laboratory	Method
TCDD Equivalents	Chlorinated Dibenzodioxins & Furans	Frontier Laboratories	EPA 8290
Radioactivity (alpha & beta radiation)	Alpha Spectroscopy Gamma Spectroscopy	FGL	EPA 900
Herbicides	Chlorinated Herbicides by GC-ECD using Methylation	Babcock Laboratories	EPA 8151A
Per- and Polyfluoroalkyl Substances (PFAS)	PFAS by LCMSMS	Babcock Laboratories	ESB SOP T758 (QSM 5.3 Table B-15 Compliant)

ARIZONA DEPARTMENT
OF HEALTH SERVICES

ENVIRONMENTAL LABORATORY LICENSE

Issued to:

Laboratory Director: **Elvira R. Mercado**

Owner/Representative: **Peter S. Vroom, Ph. D.**

Alvarado Wastewater Chemistry Laboratory
AZ0783

is in compliance with Environmental Laboratory's applicable standards for the State of Arizona and maintains on file a List of Parameters for which the laboratory is certified to perform analysis.

PERIOD OF LICENSURE FROM: 08/09/2020 TO: 08/08/2021

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Steven D. Baker, Chief
Office of Laboratory Licensure & Certification
Bureau of State Laboratory Services