

Drylet Biological Dredging™ Solution Results

Solids Management and Operational Enhancement

Industrial Protein Processing Facility

Tennessee

Technical Case Study

August 28, 2021

Lagoon Treatment Results Summary

Drylet treated an **8-million-gallon anaerobic lagoon** at an industrial protein processing facility in Tennessee using **BioDredger®** biocatalyst for biological solids reduction. BioDredger® was applied on April 6, 2021, following baseline sampling of the lagoon. A final sampling event was conducted on August 12, 2021, to evaluate treatment performance over a 129-day period.

Approximately **3,300 pounds of BioDredger®** were applied during the treatment. An industrial mixing system was used during product application to improve distribution throughout the lagoon and to assist with representative sample collection before and after treatment.



Figure 1: Anaerobic lagoon at an industrial protein processing facility in Tennessee

In addition to the qualitative improvements that have been observed, the quantitative results of the initial and final sampling show a total solids reduction (“TSR”) of 58% and a volatile solids reduction (“VSR”) of 60% (see **Tables 1 and 2**).

The average %TS for the initial samples is 5.58% and the final is 2.34%. The average %VS for the initial samples is 3.92% and the final samples 1.56% (see **Table 3**).

The total solids reduction achieved during the treatment period (129 days) is 1,077 US Dry tons, 86% more solids destroyed compared to the target of 578 US Dry tons (see **Table 4**).

There was also a significant boost in the overall treatment efficiency of Pond 1, observed by the reduction in the organic load (BOD, COD, CBOD) entering Pond 2 as indicated by the anaerobic lagoon effluent reports provided by the facility (see **Figure 2**).

Initial sampling analysis for TS and VS

INITIAL AVERAGES			
Sample location	%TS, avg	%VS, avg	VS/TS, avg
AL 1	5.73%	4.07%	0.71
AL 2	5.66%	4.08%	0.72
AL 3	4.97%	3.53%	0.71
AL 4	4.85%	3.37%	0.69
AL 5	6.29%	4.45%	0.71
AL 6	5.17%	3.56%	0.69
AL 7	5.61%	4.08%	0.73
AL 8	6.33%	4.24%	0.67
Internal Recycle Discharge	4.08%	2.91%	0.71
AL EFFLUENT	2.44%	1.67%	0.68
AL 2 SCUM	11.07%	8.49%	0.77
AL 3 SCUM	9.09%	6.96%	0.77
AL 5 SCUM	8.65%	6.72%	0.78

Final sampling analysis for TS and VS

FINAL AVERAGES			
Sample location	%TS, avg	%VS, avg	VS/TS, avg
AL 1	2.02%	1.29%	0.64
AL 2	2.66%	1.71%	0.64
AL 3	2.66%	1.74%	0.65
AL 4	2.70%	1.76%	0.65
AL 5	3.08%	2.09%	0.68
AL 6	2.81%	1.82%	0.65
AL 7	2.33%	1.49%	0.64
AL 8	3.57%	2.38%	0.67
AL 9	2.11%	1.43%	0.68
AL 10	1.18%	0.74%	0.63
AL 11	1.61%	1.10%	0.68
AL 12	2.97%	2.17%	0.73
AL 13	1.48%	0.97%	0.66
AL 14	2.42%	1.68%	0.70
AL 15	2.15%	1.54%	0.71
AL 15 SCUM	11.28%	8.62%	0.76
AL 16	1.63%	1.07%	0.66
AL INTERNAL RECYCLE DISCHARGE	4.32%	3.19%	0.74
AL INFLUENT	1.61%	1.21%	0.75

Table 1. Initial Samples

Table 2. Final Samples

Total Solids	TS%	Volatile Solids	VS%
TS (1-8) Initial	5.58%	VS (1-8) Initial	3.92%
TS (1-16) Final	2.34%	VS (1-16) Final	1.56%
% Reduction	58%	% Reduction	60%

Table 3. Solids reduction evaluation based on comparing initial and final values

Lagoon Volume	7.96	MG
Solids inventory initial TS	3,705,250	lbs
Solids inventory initial VS	2,605,735	lbs
Solids inventory final	1,551,612	lbs
Solids inventory initial VS	1,036,986	lbs
TSR	2,153,638	lbs
1,077 US dry tons		
	58%	
VSR	1,568,749	lbs
	60%	

Table 4. Solids reduction evaluation based on comparing initial and final values

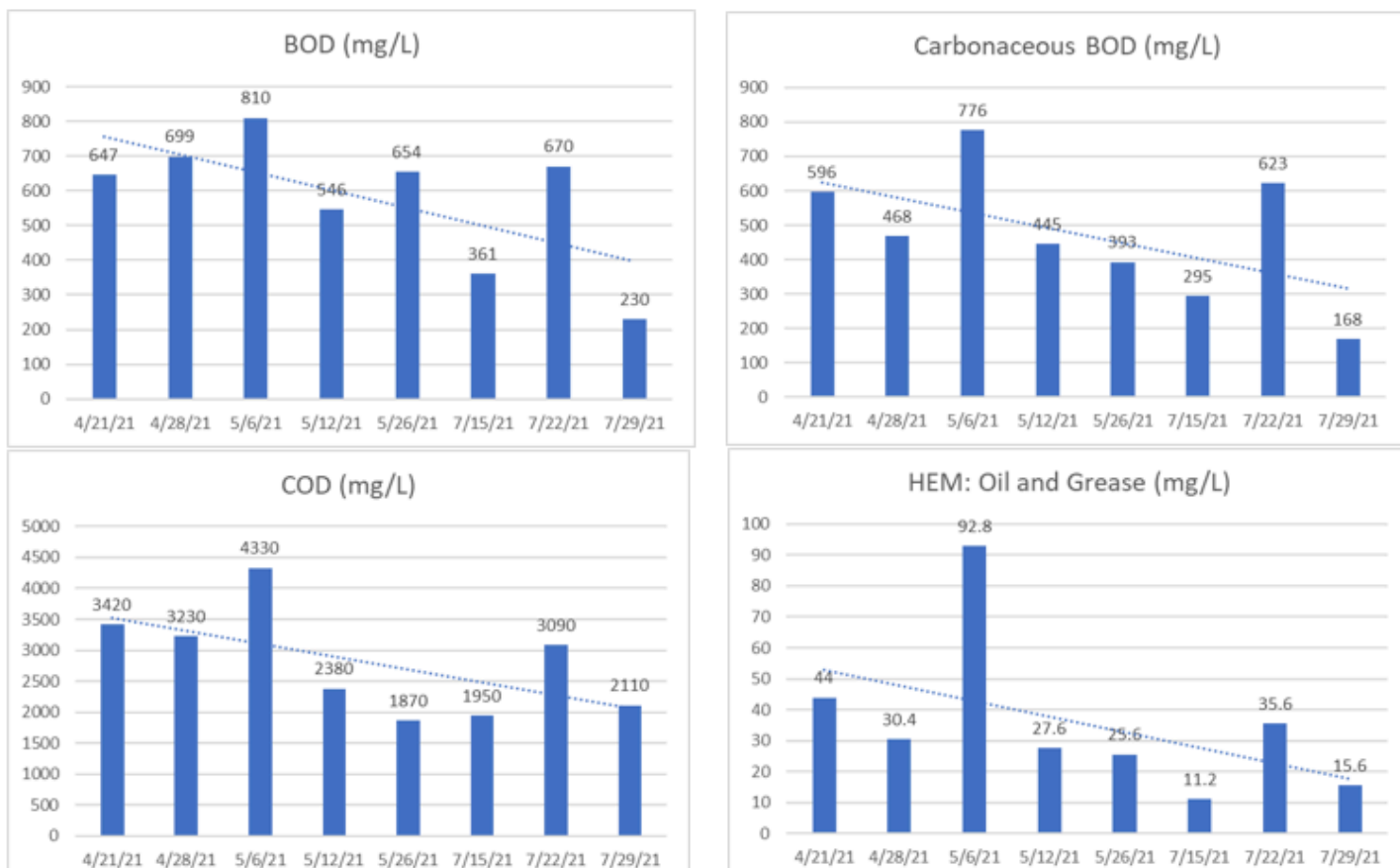


Figure 2. Anaerobic Lagoon effluent reports for BOD, CBOD, COD and HEM

Conclusions

Our Biological Dredging™ solution quickly and cost-effectively addressed solids accumulation in Union City's anaerobic lagoon by reducing the total solids by 58%. This TSR delivered an aggregate reduction of 1,077 dry tons of solids. The ratio of pounds of TSR to pounds of Drylet is 653. This ratio is within the range we normally see with these types of systems (i.e. 250 to 1,000 lbs TSR per lbs Drylet).

The reduction in solids and the economic benefit is based on the dramatic increase in microbial activity derived from Drylet's BioDredger® biocatalyst. The significant reduction in total solids and volatile solids when compared to traditional methods of disposal using dredging and hauling services can only be achieved through Drylet's innovative technology.

The performance outcome is dramatically superior from a cost, safety and operational perspective compared to mechanical dredging operations that remove solids by utilizing dewatering equipment hauling and disposing of solids in third-party landfills. In addition to our superior project value versus conventional dredging alternatives, we believe our Biological Dredging solution offers a number of other benefits including reduced presence on-site; less disruption to ongoing operations; bioaugmentation of the treatment along with the longevity of solids reduction and treatment benefits from the increased microbial activity.

Appendix – Raw Data

Drylet analyzed each sample in triplicate for TS and VS. The average TS and VS is calculated based on the three reported raw values for each sample location. Those averages are provided in Tables 1 and 2.

Can we reorient these table onto a landscape page?

Initial values for TS and VS

Sample Site		DARLING UNION CITY											
Sample type		Lagoon solids											
Sample date		4/6/21											
Sample ID		Sample location	Dish Weight (g)	Sample +Dish Weight (g)	Dry Weight (g)	TS (g/kg)	TS (mg/kg)	%TS	Furnace Weight (g)	VS (g/kg)	VS (mg/kg)	%VS	VS/TS
PH-001	PH-001	AL 1	1.74	13.648	2.426	57.6	57,608	5.76%	1.941	40.7	40,729	4.07%	0.71
PH-002	PH-002	AL 1	1.767	18.448	2.725	57.4	57,431	5.74%	2.048	40.6	40,585	4.06%	0.71
PH-003	PH-003	AL 1	1.779	18.407	2.726	57.0	56,952	5.70%	2.049	40.7	40,714	4.07%	0.71
PH-004	PH-004	AL 2	1.734	20.208	2.797	57.5	57,540	5.75%	2.032	41.4	41,410	4.14%	0.72
PH-005	PH-005	AL 2	1.779	21.198	2.871	56.2	56,234	5.62%	2.079	40.8	40,785	4.08%	0.73
PH-006	PH-006	AL 2	1.712	22.753	2.892	56.1	56,081	5.61%	2.043	40.3	40,350	4.03%	0.72
PH-007	PH-007	AL 3	1.745	20.274	2.666	49.7	49,706	4.97%	2.01	35.4	35,404	3.54%	0.71
PH-008	PH-008	AL 3	1.732	19.861	2.633	49.7	49,699	4.97%	1.994	35.2	35,247	3.52%	0.71
PH-009	PH-009	AL 3	1.76	17.967	2.567	49.8	49,793	4.98%	1.997	35.2	35,170	3.52%	0.71
PH-010	PH-010	AL 4	1.728	20.702	2.647	48.4	48,435	4.84%	2.006	33.8	33,783	3.38%	0.70
PH-011	PH-011	AL 4	1.711	20.739	2.626	48.1	48,087	4.81%	2.003	32.7	32,741	3.27%	0.68
PH-012	PH-012	AL 4	1.75	21.588	2.723	49.0	49,047	4.90%	2.037	34.6	34,580	3.46%	0.71
PH-013	PH-013	AL 5	1.747	20.852	2.945	62.7	62,706	6.27%	2.094	44.5	44,543	4.45%	0.71
PH-014	PH-014	AL 5	1.735	20.555	2.924	63.2	63,177	6.32%	2.081	44.8	44,793	4.48%	0.71
PH-015	PH-015	AL 5	1.729	21.782	2.991	62.9	62,933	6.29%	2.103	44.3	44,283	4.43%	0.70
PH-016	PH-016	AL 6	1.733	24.111	2.89	51.7	51,703	5.17%	2.089	35.8	35,794	3.58%	0.69
PH-017	PH-017	AL 6	1.741	24.507	2.911	51.4	51,392	5.14%	2.108	35.3	35,272	3.53%	0.69
PH-018	PH-018	AL 6	1.73	21.324	2.748	52.0	51,955	5.20%	2.046	35.8	35,827	3.58%	0.69
PH-019	PH-019	AL 7	1.739	23.815	2.975	56.0	55,988	5.60%	2.083	40.4	40,406	4.04%	0.72
PH-020	PH-020	AL 7	1.735	19.829	2.749	56.0	56,041	5.60%	2.008	41.0	40,953	4.10%	0.73
PH-021	PH-021	AL 7	1.734	20.959	2.814	56.2	56,177	5.62%	2.026	41.0	40,988	4.10%	0.73
PH-022	PH-022	AL 8	1.703	23.934	3.079	61.9	61,896	6.19%	2.149	41.8	41,833	4.18%	0.68
PH-023	PH-023	AL 8	1.742	22.542	3.042	62.5	62,500	6.25%	2.176	41.6	41,635	4.16%	0.67
PH-024	PH-024	AL 8	1.74	23.374	3.16	65.6	65,637	6.56%	2.216	43.6	43,635	4.36%	0.66
PH-025	PH-025	Internal Recycle Discharge 1	1.724	24.748	2.666	40.9	40,914	4.09%	1.99	29.4	29,361	2.94%	0.72
PH-026	PH-026	Internal Recycle Discharge 2	1.739	25.956	2.725	40.7	40,715	4.07%	2.023	29.0	28,988	2.90%	0.71
PH-027	PH-027	Internal Recycle Discharge 3	1.735	22.561	2.584	40.8	40,766	4.08%	1.979	29.1	29,050	2.91%	0.71
PH-028	PH-028	AL Effluent 1	1.739	23.681	2.274	24.4	24,382	2.44%	1.903	16.9	16,908	1.69%	0.69
PH-029	PH-029	AL Effluent 2	1.723	23.742	2.261	24.4	24,433	2.44%	1.891	16.8	16,804	1.68%	0.69
PH-030	PH-030	AL Effluent 3	1.733	22.852	2.251	24.5	24,528	2.45%	1.903	16.5	16,478	1.65%	0.67
PH-031	PH-031	AL 2 SCUM 1	1.719	14.924	3.215	113.3	113,290	11.33%	2.072	86.6	86,558	8.66%	0.76
PH-032	PH-032	AL 2 SCUM 2	1.718	12.797	2.944	110.7	110,660	11.07%	2.002	85.0	85,026	8.50%	0.77
PH-033	PH-033	AL 2 SCUM 3	1.726	10.316	2.656	108.3	108,265	10.83%	1.941	83.2	83,236	8.32%	0.77
PH-034	PH-034	AL 3 SCUM 1	1.72	8.578	2.354	92.4	92,447	9.24%	1.873	70.1	70,137	7.01%	0.76
PH-035	PH-035	AL 3 SCUM 2	1.728	10.152	2.497	91.3	91,287	9.13%	1.905	70.3	70,275	7.03%	0.77
PH-036	PH-036	AL 3 SCUM 3	1.703	9.944	2.437	89.1	89,067	8.91%	1.874	68.3	68,317	6.83%	0.77
PH-037	PH-037	AL 5 SCUM 1	1.728	11.895	2.598	85.6	85,571	8.56%	1.932	65.5	65,506	6.55%	0.77
PH-038	PH-038	AL 5 SCUM 2	1.726	13.512	2.737	85.8	85,780	8.58%	1.949	66.9	66,859	6.69%	0.78
PH-039	PH-039	AL 5 SCUM 3	1.692	12.204	2.618	88.1	88,090	8.81%	1.889	69.3	69,349	6.93%	0.79

Final values for TS and VS

Sample Site	DARLING UNION CITY											
Sample type	Lagoon Solids											
Sample date	8/10/21											
Sample ID	Sample location	Dish Weight (g)	Sample +Dish Weight (g)	Dry Weight (g)	TS (g/kg)	TS (mg/kg)	%TS	Furnace Weight (g)	VS (g/kg)	VS (mg/kg)	%VS	VS/TS
AL 1_1	AL 1	1.243	13.838	1.491	19.7	19,690	1.97%	1.335	12.4	12,386	1.24%	0.63
AL 1_2	AL 1	1.237	13.832	1.5	20.9	20,881	2.09%	1.331	13.4	13,418	1.34%	0.64
AL 1_3	AL 1	1.243	14.314	1.505	20.0	20,044	2.00%	1.336	12.9	12,929	1.29%	0.65
AL 2_1	AL 2	1.245	14.158	1.595	27.1	27,104	2.71%	1.363	18.0	17,966	1.80%	0.66
AL 2_2	AL 2	1.237	15.229	1.612	26.8	26,801	2.68%	1.384	16.3	16,295	1.63%	0.61
AL 2_3	AL 2	1.24	13.127	1.548	25.9	25,911	2.59%	1.346	17.0	16,993	1.70%	0.66
AL 3_1	AL 3	1.247	15.43	1.633	27.2	27,216	2.72%	1.38	17.8	17,838	1.78%	0.66
AL 3_2	AL 3	1.24	15.527	1.626	27.0	27,018	2.70%	1.377	17.4	17,428	1.74%	0.65
AL 3_3	AL 3	1.239	13.882	1.563	25.6	25,627	2.56%	1.348	17.0	17,005	1.70%	0.66
AL 4_1	AL 4	1.24	14.428	1.594	26.8	26,843	2.68%	1.36	17.7	17,743	1.77%	0.66
AL 4_2	AL 4	1.242	12.806	1.551	26.7	26,721	2.67%	1.354	17.0	17,036	1.70%	0.64
AL 4_3	AL 4	1.243	15.181	1.624	27.3	27,335	2.73%	1.374	17.9	17,937	1.79%	0.66
AL 5_1	AL 5	1.247	13.788	1.631	30.6	30,620	3.06%	1.37	20.8	20,812	2.08%	0.68
AL 5_2	AL 5	1.246	14.31	1.652	31.1	31,078	3.11%	1.377	21.1	21,050	2.11%	0.68
AL 5_3	AL 5	1.246	11.407	1.558	30.7	30,706	3.07%	1.347	20.8	20,766	2.08%	0.68
AL 6_1	AL 6	1.241	13.968	1.592	27.6	27,579	2.76%	1.366	17.8	17,758	1.78%	0.64
AL 6_2	AL 6	1.245	13.6	1.586	27.6	27,600	2.76%	1.369	17.6	17,564	1.76%	0.64
AL 6_3	AL 6	1.246	14.43	1.63	29.1	29,126	2.91%	1.377	19.2	19,190	1.92%	0.66
AL 7_1	AL 7	1.25	13.579	1.541	23.6	23,603	2.36%	1.351	15.4	15,411	1.54%	0.65
AL 7_2	AL 7	1.246	14.136	1.548	23.4	23,429	2.34%	1.355	15.0	14,973	1.50%	0.64
AL 7_3	AL 7	1.246	15.57	1.572	22.8	22,759	2.28%	1.367	14.3	14,312	1.43%	0.63
AL 8_1	AL 8	1.252	14.746	1.731	35.5	35,497	3.55%	1.41	23.8	23,788	2.38%	0.67
AL 8_2	AL 8	1.243	13.542	1.688	36.2	36,182	3.62%	1.389	24.3	24,311	2.43%	0.67
AL 8_3	AL 8	1.246	14.438	1.712	35.3	35,324	3.53%	1.403	23.4	23,423	2.34%	0.66
AL 9_1	AL 9	1.241	11.822	1.458	20.5	20,508	2.05%	1.309	14.1	14,082	1.41%	0.69
AL 9_2	AL 9	1.238	11.594	1.462	21.6	21,630	2.16%	1.315	14.2	14,195	1.42%	0.66
AL 9_3	AL 9	1.245	9.702	1.423	21.0	21,048	2.10%	1.3	14.5	14,544	1.45%	0.69
AL 10_1	AL 10	1.241	11.547	1.374	12.9	12,905	1.29%	1.291	8.1	8,054	0.81%	0.62
AL 10_2	AL 10	1.253	9.352	1.342	11.0	10,989	1.10%	1.287	6.8	6,791	0.68%	0.62
AL 10_3	AL 10	1.252	10.369	1.356	11.4	11,407	1.14%	1.289	7.3	7,349	0.73%	0.64
AL 11_1	AL 11	1.245	12.812	1.436	16.5	16,512	1.65%	1.305	11.3	11,325	1.13%	0.69
AL 11_2	AL 11	1.247	12.167	1.421	15.9	15,934	1.59%	1.305	10.6	10,623	1.06%	0.67
AL 11_3	AL 11	1.247	12.793	1.431	15.9	15,936	1.59%	1.305	10.9	10,913	1.09%	0.68

Final values for TS and VS (continued)

Sample Site	DARLING UNION CITY											
Sample type	Lagoon Solids											
Sample date	8/10/21											
Sample ID	Sample location	Dish Weight (g)	Sample +Dish Weight (g)	Dry Weight (g)	TS (g/kg)	TS (mg/kg)	%TS	Furnace Weight (g)	VS (g/kg)	VS (mg/kg)	%VS	VS/TS
DF 0001-11-AL 11_1	AL 11	1.245	12.812	1.436	16.5	16,512	1.65%	1.305	11.3	11,325	1.13%	0.69
DF 0001-11-AL 11_2	AL 11	1.247	12.167	1.421	15.9	15,934	1.59%	1.305	10.6	10,623	1.06%	0.67
DF 0001-11-AL 11_3	AL 11	1.247	12.793	1.431	15.9	15,936	1.59%	1.305	10.9	10,913	1.09%	0.68
DF 0001-12-AL 12_1	AL 12	1.246	10.976	1.551	31.3	31,346	3.13%	1.331	22.6	22,610	2.26%	0.72
DF 0001-12-AL 12_2	AL 12	1.251	11.533	1.548	28.9	28,885	2.89%	1.335	20.7	20,716	2.07%	0.72
DF 0001-12-AL 12_3	AL 12	1.245	9.207	1.475	28.9	28,887	2.89%	1.302	21.7	21,728	2.17%	0.75
DF 0001-13-AL 13_1	AL 13	1.242	8.743	1.356	15.2	15,198	1.52%	1.281	10.0	9,999	1.00%	0.66
DF 0001-13-AL 13_2	AL 13	1.246	12.736	1.415	14.7	14,708	1.47%	1.301	9.9	9,922	0.99%	0.67
DF 0001-13-AL 13_3	AL 13	1.243	9.08	1.357	14.5	14,546	1.45%	1.284	9.3	9,315	0.93%	0.64
DF 0001-14-AL 14_1	AL 14	1.247	11.246	1.502	25.5	25,503	2.55%	1.322	18.0	18,002	1.80%	0.71
DF 0001-14-AL 14_2	AL 14	1.241	11.894	1.49	23.4	23,374	2.34%	1.317	16.2	16,240	1.62%	0.69
DF 0001-14-AL 14_3	AL 14	1.252	15.62	1.592	23.7	23,664	2.37%	1.358	16.3	16,286	1.63%	0.69
DF 0001-15-AL 15_1	AL 15	1.255	11.027	1.469	21.9	21,899	2.19%	1.313	16.0	15,964	1.60%	0.73
DF 0001-15-AL 15_2	AL 15	1.242	10.4	1.439	21.5	21,511	2.15%	1.3	15.2	15,178	1.52%	0.71
DF 0001-15-AL 15_3	AL 15	1.25	13.308	1.506	21.2	21,231	2.12%	1.326	14.9	14,928	1.49%	0.70
DF 0001-15-AL 15 SCUM_1	AL 15 SCUM	1.242	10.974	2.293	108.0	107,994	10.80%	1.493	82.2	82,203	8.22%	0.76
DF 0001-15-AL 15 SCUM_2	AL 15 SCUM	1.247	11.891	2.462	114.1	114,149	11.41%	1.532	87.4	87,373	8.74%	0.77
DF 0001-15-AL 15 SCUM_3	AL 15 SCUM	1.255	14.184	2.758	116.3	116,250	11.63%	1.608	88.9	88,947	8.89%	0.77
DF 0001-16-AL 16_1	AL 16	1.257	11.798	1.421	15.6	15,558	1.56%	1.309	10.6	10,625	1.06%	0.68
DF 0001-16-AL 16_2	AL 16	1.249	12.725	1.447	17.3	17,253	1.73%	1.317	11.3	11,328	1.13%	0.66
DF 0001-16-AL 16_3	AL 16	1.247	12.817	1.433	16.1	16,076	1.61%	1.314	10.3	10,285	1.03%	0.64
DF 0001-16-Internal Recycle Discharge_1	Internal Recycle Discharge	1.243	13.907	1.788	43.0	43,035	4.30%	1.39	31.4	31,428	3.14%	0.73
DF 0001-16-Internal Recycle Discharge_2	Internal Recycle Discharge	1.241	10.329	1.632	43.0	43,024	4.30%	1.345	31.6	31,580	3.16%	0.73
DF 0001-16-Internal Recycle Discharge_3	Internal Recycle Discharge	1.243	9.415	1.6	43.7	43,686	4.37%	1.334	32.6	32,550	3.26%	0.75
DF 0001-17-AL Influent_1	AL Influent	1.249	9.238	1.387	17.3	17,274	1.73%	1.281	13.3	13,268	1.33%	0.77
DF 0001-17-AL Influent_2	AL Influent	1.246	10.638	1.396	16.0	15,971	1.60%	1.284	11.9	11,925	1.19%	0.75
DF 0001-17-AL Influent_3	AL Influent	1.25	10.01	1.382	15.1	15,068	1.51%	1.285	11.1	11,073	1.11%	0.73

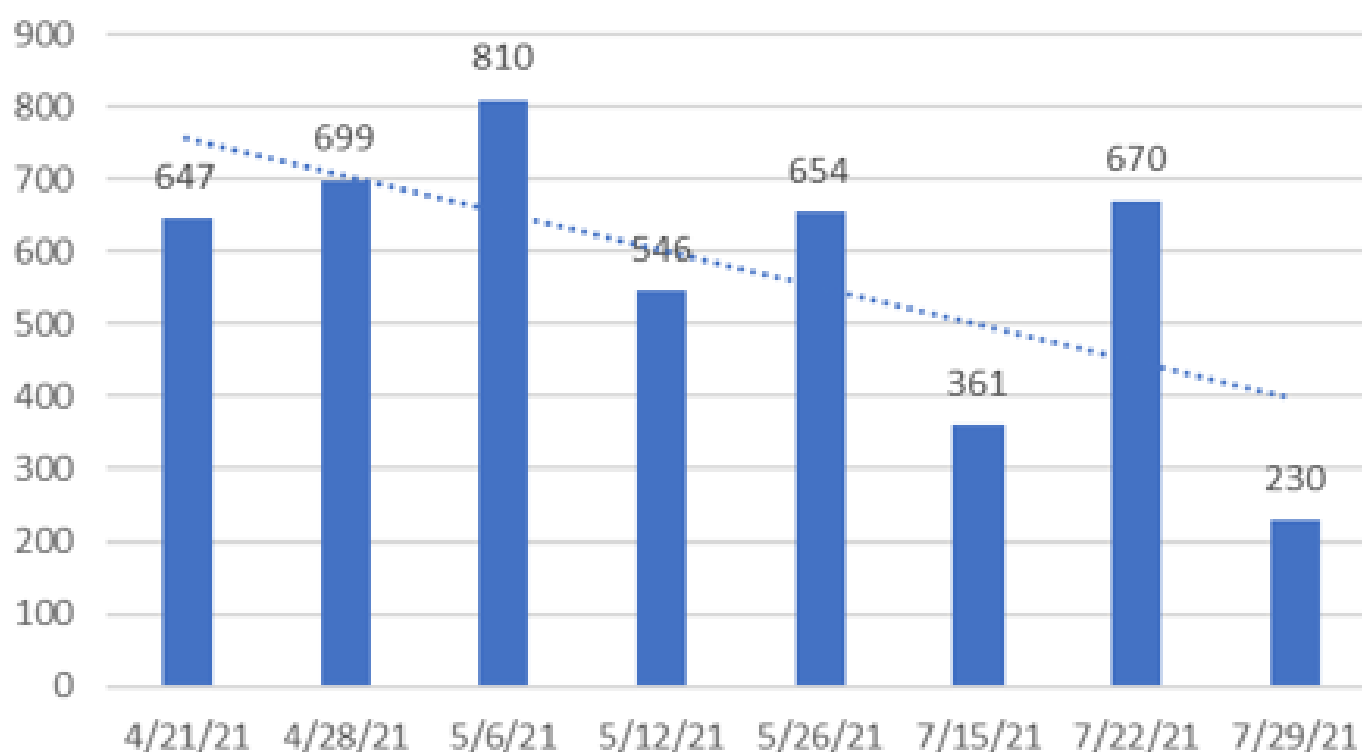
Anaerobic Lagoon effluent reports (continued)

Sample Site
Sample type
Sample date

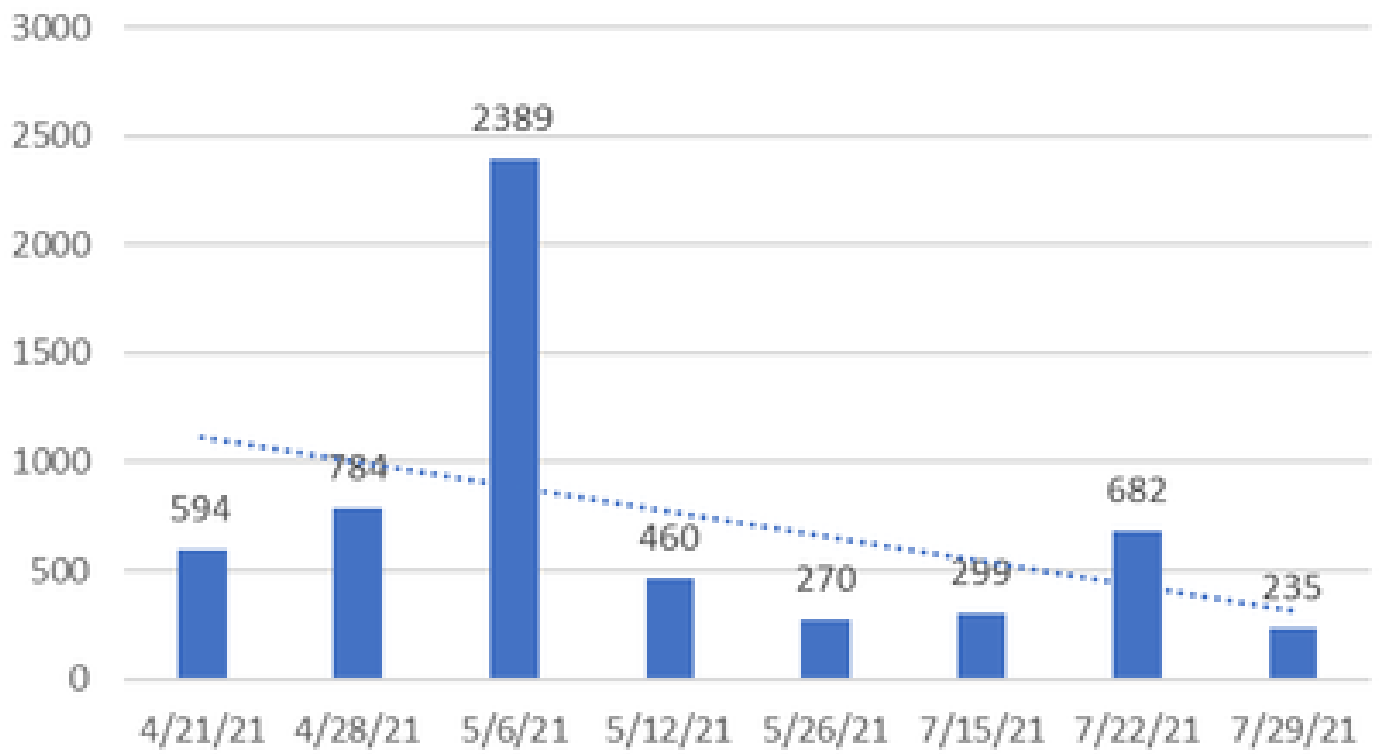
DARLING UNION CITY
Lagoon Solids
8/10/21

Sample ID	Sample location	Dish Weight (g)	Sample +Dish Weight (g)	Dry Weight (g)	TS (g/kg)	TS (mg/kg)	%TS	Furnace Weight (g)	VS (g/kg)	VS (mg/kg)	%VS	VS/TS
AL 11_1	AL 11	1.245	12.812	1.436	16.5	16,512	1.65%	1.305	11.3	11,325	1.13%	0.69
AL 11_2	AL 11	1.247	12.167	1.421	15.9	15,934	1.59%	1.305	10.6	10,623	1.06%	0.67
AL 11_3	AL 11	1.247	12.793	1.431	15.9	15,936	1.59%	1.305	10.9	10,913	1.09%	0.68
AL 12_1	AL 12	1.246	10.976	1.551	31.3	31,346	3.13%	1.331	22.6	22,610	2.26%	0.72
AL 12_2	AL 12	1.251	11.533	1.548	28.9	28,885	2.89%	1.335	20.7	20,716	2.07%	0.72
AL 12_3	AL 12	1.245	9.207	1.475	28.9	28,887	2.89%	1.302	21.7	21,728	2.17%	0.75
AL 13_1	AL 13	1.242	8.743	1.356	15.2	15,198	1.52%	1.281	10.0	9,999	1.00%	0.66
AL 13_2	AL 13	1.246	12.736	1.415	14.7	14,708	1.47%	1.301	9.9	9,922	0.99%	0.67
AL 13_3	AL 13	1.243	9.08	1.357	14.5	14,546	1.45%	1.284	9.3	9,315	0.93%	0.64
AL 14_1	AL 14	1.247	11.246	1.502	25.5	25,503	2.55%	1.322	18.0	18,002	1.80%	0.71
AL 14_2	AL 14	1.241	11.894	1.49	23.4	23,374	2.34%	1.317	16.2	16,240	1.62%	0.69
AL 14_3	AL 14	1.252	15.62	1.592	23.7	23,664	2.37%	1.358	16.3	16,286	1.63%	0.69
AL 15_1	AL 15	1.255	11.027	1.469	21.9	21,899	2.19%	1.313	16.0	15,964	1.60%	0.73
AL 15_2	AL 15	1.242	10.4	1.439	21.5	21,511	2.15%	1.3	15.2	15,178	1.52%	0.71
AL 15_3	AL 15	1.25	13.308	1.506	21.2	21,231	2.12%	1.326	14.9	14,928	1.49%	0.70
AL 15 SCUM_1	AL 15 SCUM	1.242	10.974	2.293	108.0	107,994	10.80%	1.493	82.2	82,203	8.22%	0.76
AL 15 SCUM_2	AL 15 SCUM	1.247	11.891	2.462	114.1	114,149	11.41%	1.532	87.4	87,373	8.74%	0.77
AL 15 SCUM_3	AL 15 SCUM	1.255	14.184	2.758	116.3	116,250	11.63%	1.608	88.9	88,947	8.89%	0.77
AL 16_1	AL 16	1.257	11.798	1.421	15.6	15,558	1.56%	1.309	10.6	10,625	1.06%	0.68
AL 16_2	AL 16	1.249	12.725	1.447	17.3	17,253	1.73%	1.317	11.3	11,328	1.13%	0.66
AL 16_3	AL 16	1.247	12.817	1.433	16.1	16,076	1.61%	1.314	10.3	10,285	1.03%	0.64
Internal Recycle Discharge_1	Internal Recycle Discharge	1.243	13.907	1.788	43.0	43,035	4.30%	1.39	31.4	31,428	3.14%	0.73
Internal Recycle Discharge_2	Internal Recycle Discharge	1.241	10.329	1.632	43.0	43,024	4.30%	1.345	31.6	31,580	3.16%	0.73
Internal Recycle Discharge_3	Internal Recycle Discharge	1.243	9.415	1.6	43.7	43,686	4.37%	1.334	32.6	32,550	3.26%	0.75
AL Influent_1	AL Influent	1.249	9.238	1.387	17.3	17,274	1.73%	1.281	13.3	13,268	1.33%	0.77
AL Influent_2	AL Influent	1.246	10.638	1.396	16.0	15,971	1.60%	1.284	11.9	11,925	1.19%	0.75
AL Influent_3	AL Influent	1.25	10.01	1.382	15.1	15,068	1.51%	1.285	11.1	11,073	1.11%	0.73

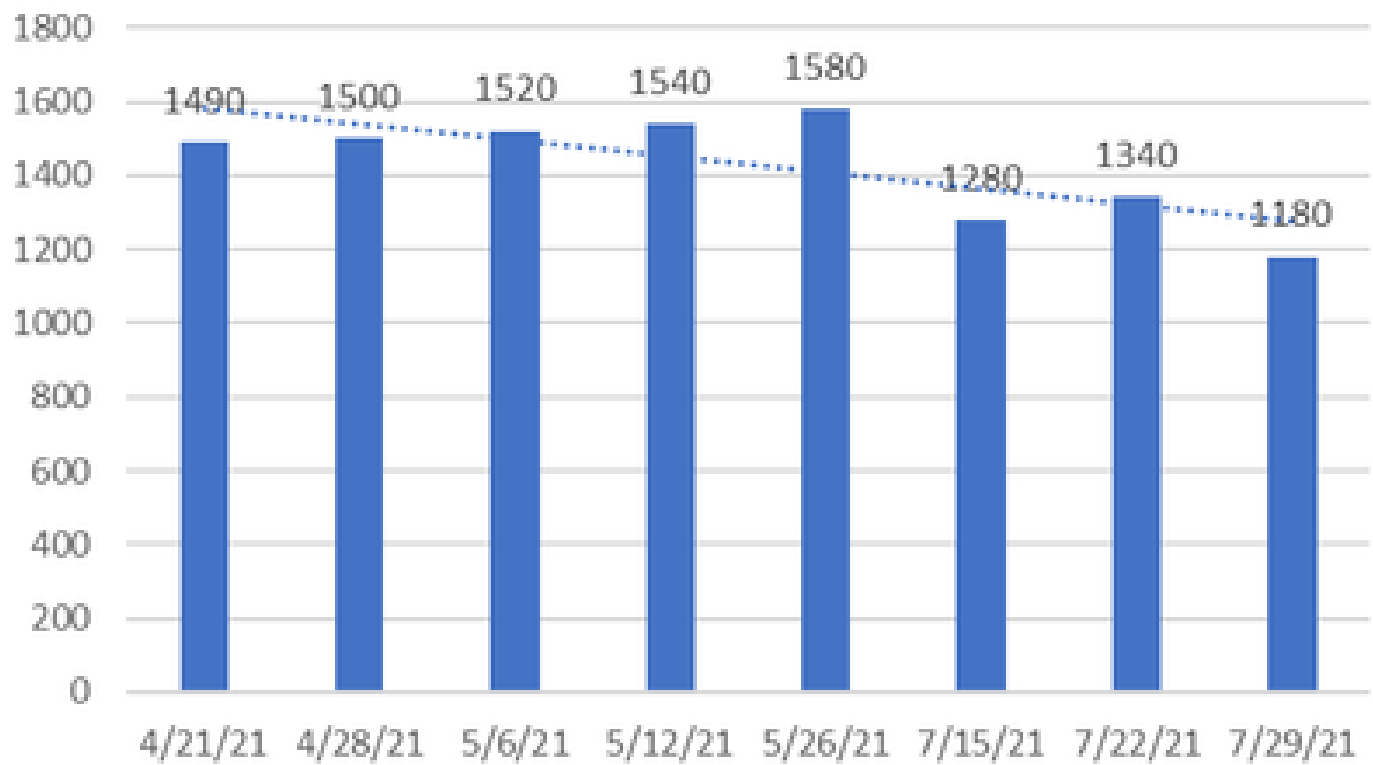
BOD (mg/L)



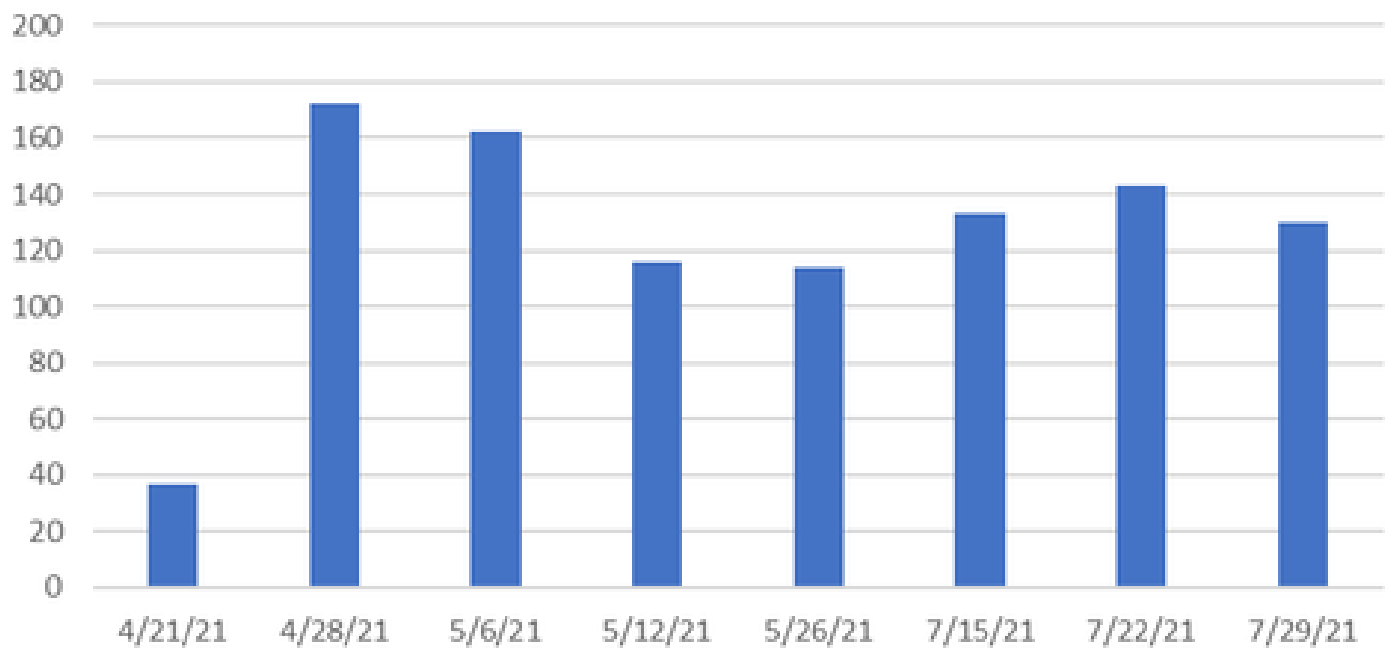
TVSS (mg/L)



Ammonia Nitrogen mg/L



Phosphorous (mg/L)





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