

HTW BCT, November 17, 2021

November – December 2021 Key Events for OU2 Landfills

- TTU Operations
- Owl nest box cleaning (Completed 11/9)
- MCHD Quarterly Inspection (2021 Q4)
- Quarterly Probe monitoring (11/29)
- Landfill winterization
- Rodent Trapping

January – February 2022 Key Events for OU2 Landfills

- TTU Operations
- MCHD Quarterly Inspection (2022 Q1)
- Quarterly Probe monitoring
- Rodent Trapping



Ahtna

**Thermal Treatment Unit
Operation Summary
2006 - 2021**

TREATMENT SYSTEM OPERATION SUMMARY	
Treatment System Start Date:	6/4/2001
TTU Start Date:	4/4/2006
Last Reading Date/Time:	11/3/2021 14:45
Historical through 2020 (TTU only):	
Total TTU Hours:	129,192
Total TTU Hours Operated:	36,410
% TTU Operation:	28.2%
Total Pounds of Methane Removed:	3,736,267
Current Year 2021:	
Total Hours:	7,464
Total Hours Operated:	1,053
% TTU Operation:	14%
Total Pounds of Methane Removed:	90,406
Cumulative (since TTU startup in 2006):	
% TTU Operation:	27.4%
Total Pounds of Methane Removed:	3,826,673

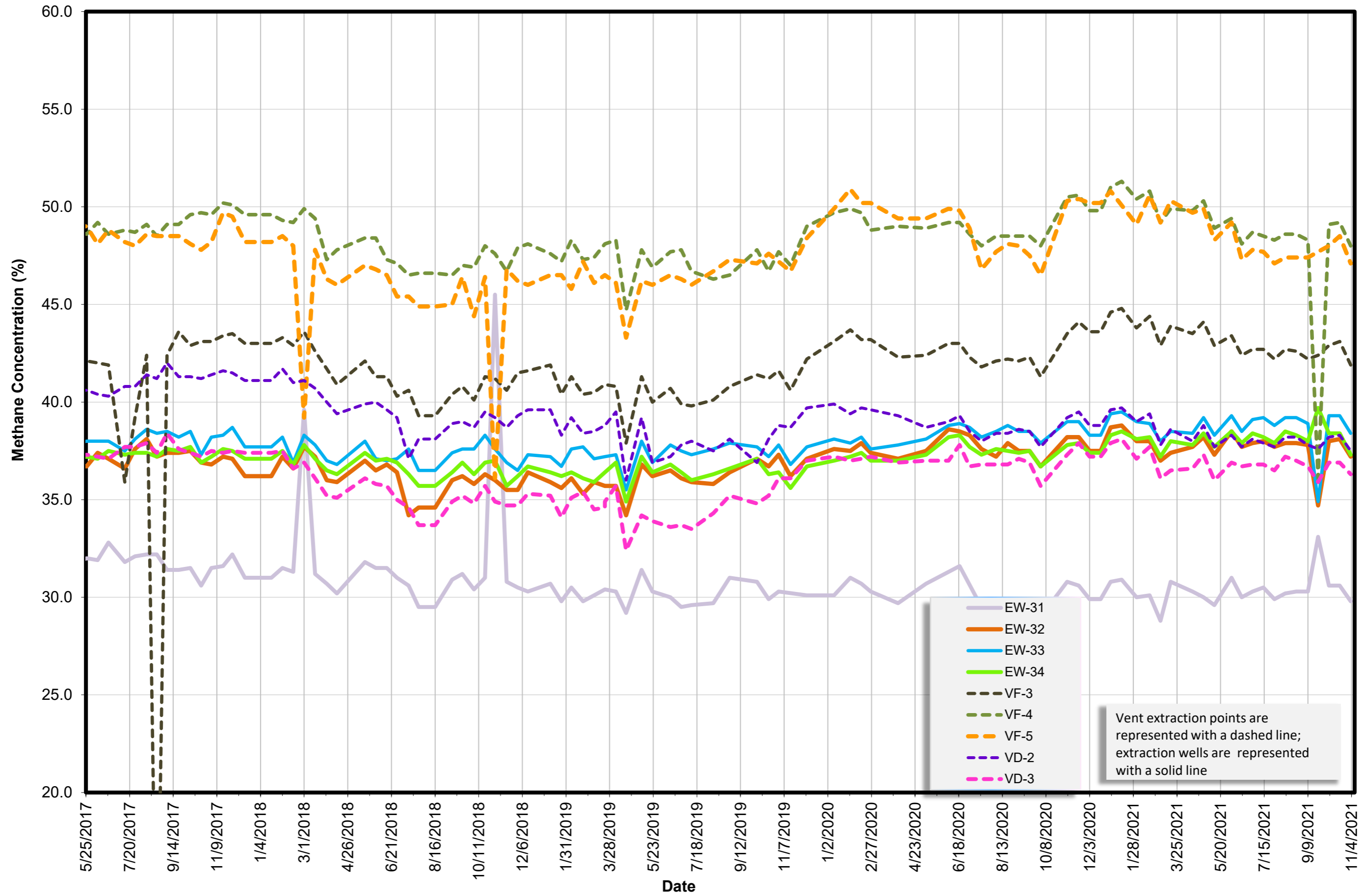
**Thermal Treatment Unit
Operation Summary
2006 - 2021**

Year	Operating Hours	Change from Previous Year	Methane			OU2 Groundwater COCs	
			Pounds Removed	Change from Previous Year	Pounds/week	Pounds Removed	Change from Previous Year
2007	4,035		532,130		10,205	6.2	
2008	2,838	-30%	288,458	-46%	5,532	3.1	-51%
2009	4,493	58%	448,154	55%	8,595	3.4	11%
2010	2,421	-46%	212,681	-53%	4,079	1.4	-60%
2011	2,543	5%	228,082	7%	4,374	1.4	0%
2012	2,509	-1%	229,397	1%	4,399	1.2	-13%
2013	2,116	-16%	187,779	-18%	3,601	1.1	-8%
2014	1,961	-7%	174,427	-7%	3,345	1.0	-11%
2015	2,653	35%	237,571	36%	4,556	1.3	29%
2016	2,039	-23%	178,645	-25%	3,426	0.9	-28%
2017	1,554	-24%	135,711	-24%	2,603	0.6	-33%
2018	1,661	7%	145,174	7%	2,784	0.6	-9%
2019	1,227	-26%	113,443	-22%	2,176	0.6	9%
2020	1,316	7%	113,095	0%	2,169	0.6	0%
2021	898		90,406		2,028		

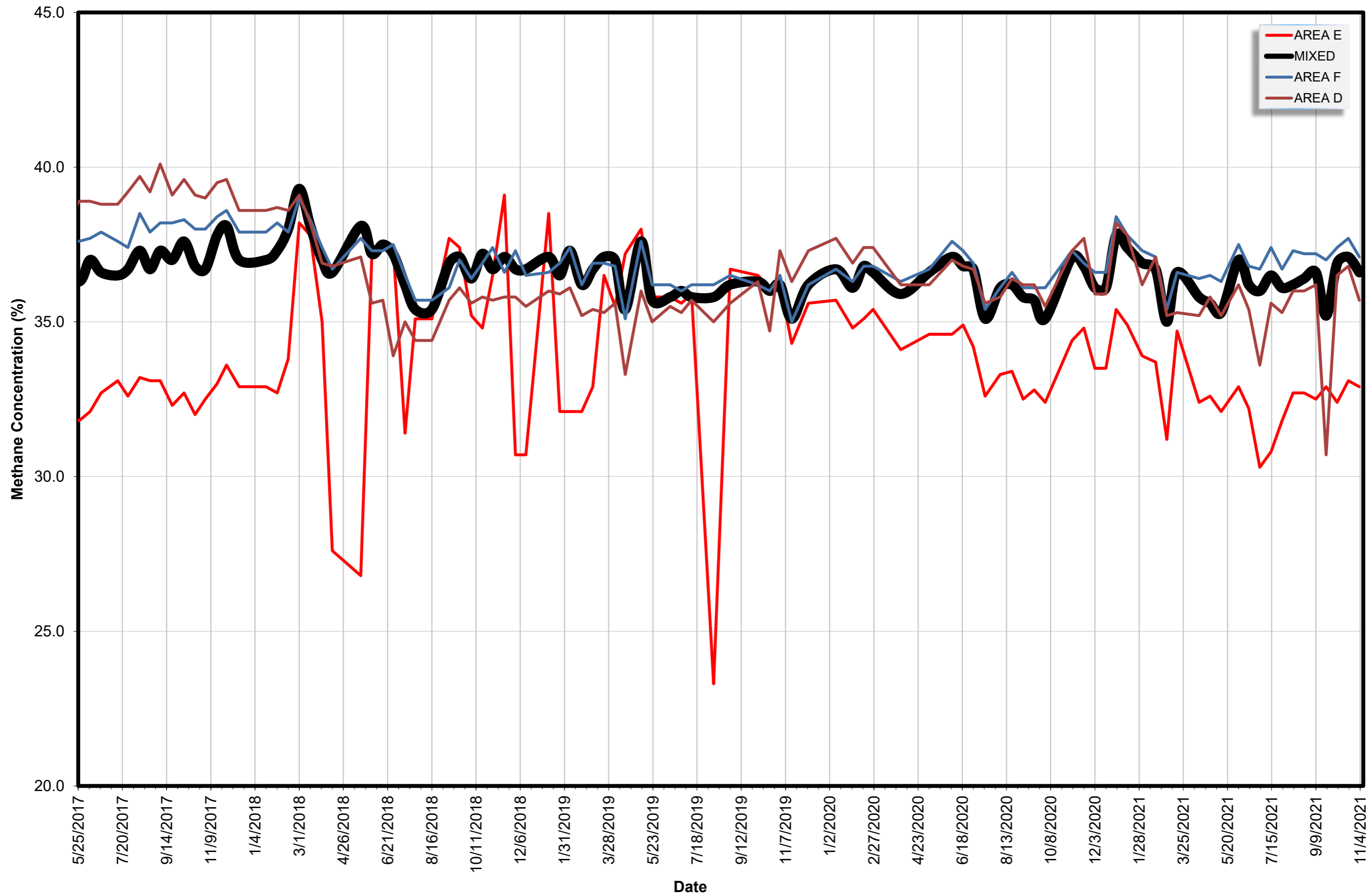
**Thermal Treatment Unit
Operation Summary
2006 - 2021**

EXTRACTION SYSTEM (2021)						
Location	Last Instantaneous Methane Reading (%)	Last Instantaneous Flow Rate Reading (scfm)	Current Methane Removal Rate (lbs/day)	2021 % Operation	2021 Methane Removed (Lbs)	% Contribution of Each Extraction Source
Area E						
EP-36	32.9	25.0	485.1	3%	20159.1	23%
Area F						
EW-31	29.8	1.0	17.6	3%	928.2	1%
EW-32	37.2	20.0	438.8	3%	18,036	21%
EW-33	38.4	19.6	443.9	3%	18,089	21%
EW-34	37.3	24.0	528.0	3%	21,828	25%
VF-3	41.9	3.0	74.1	3%	3532.0	4%
VF-4	48.0	1.0	28.3	3%	1766.7	2%
VF-5	47.1	1.0	27.8	3%	1489.8	2%
Area D						
VD-2	37.5	1.0	22.1	3%	1093.9	1%
VD-3	36.3	1.0	21.4	3%	1004.3	1%
MIXED						
MIXED	36.6	96.0	2072.5	3%	86148.9	100%

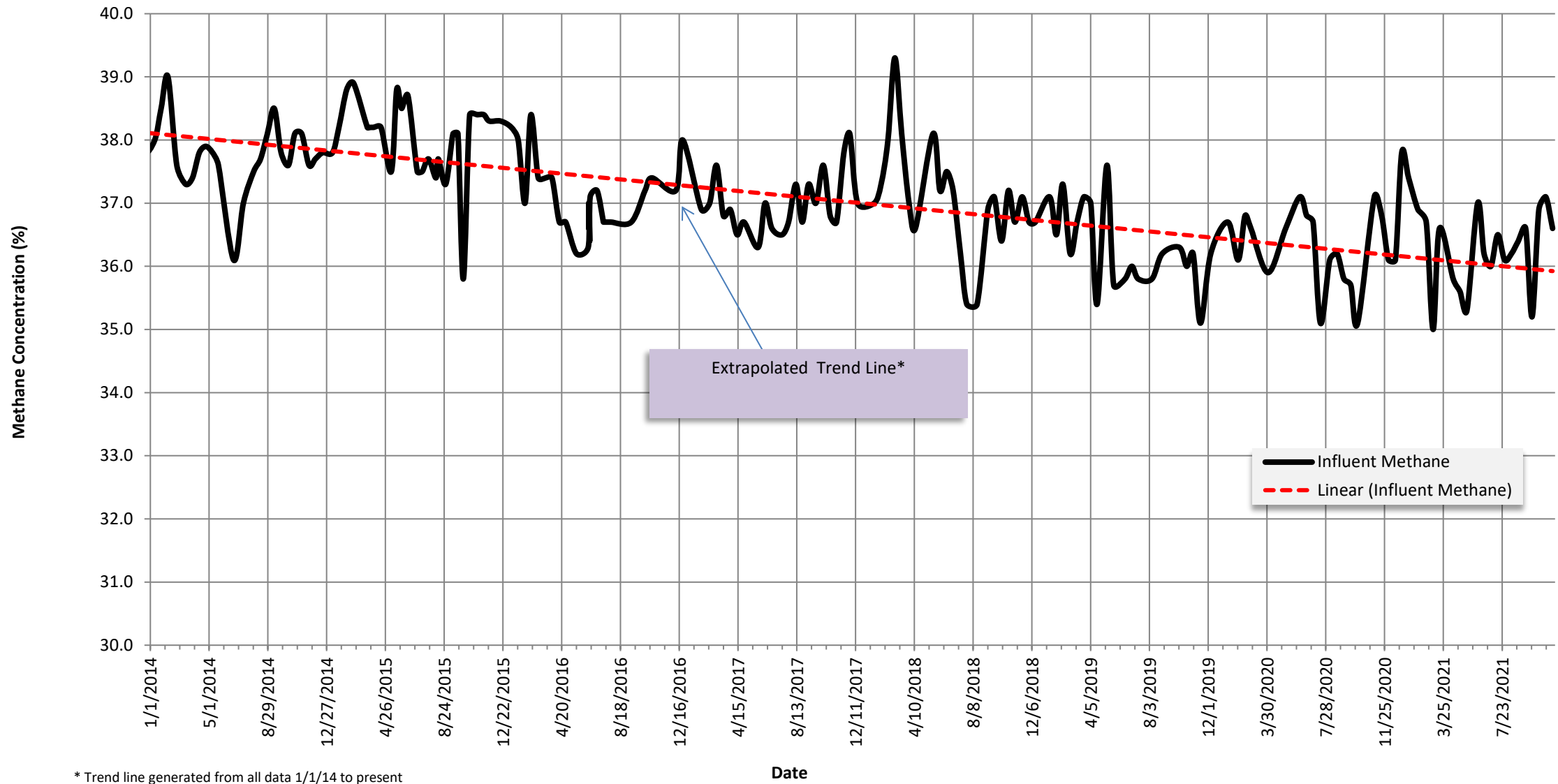
Methane Concentration Time Series Plot
OU2 Landfill Individual Extraction Sources
5/2017 to present



Methane Concentration Time Series Plot
OU2 Landfill Extraction Legs
5/2017 to present



Methane Concentration Time Series Plot
Thermal Treatment Unit Influent
01/01/2014 to present



* Trend line generated from all data 1/1/14 to present