

HTW BCT, October 22, 2020

August - September 2020 Key Events for OU2 Landfills

- TTU Operations
- Rodent Trapping
- MCHD Quarterly Inspection
- 2020 Q3 Perimeter Probe Monitoring

October/November 2020 Key Events for OU2 Landfills

- TTU Operations
- Rodent Trapping
- Annual owl box cleaning
- Erosion Mitigation Perimeter Roads
- 2020 Q4 Perimeter Probe Monitoring



Ahtna

**Thermal Treatment Unit
Operation Summary
2006 - 2020**

TREATMENT SYSTEM OPERATION SUMMARY	
Treatment System Start Date:	6/4/2001
TTU Start Date:	4/4/2006
Last Reading Date/Time:	10/1/2020 15:48
Historical through 2019 (TTU only):	
Total TTU Hours:	120,432
Total TTU Hours Operated:	35,094
% TTU Operation:	29.1%
Total Pounds of Methane Removed:	3,623,172
Current Year 2020:	
Total Hours:	6,768
Total Hours Operated:	1,060
% TTU Operation:	16%
Total Pounds of Methane Removed:	90,867
Cumulative (since TTU startup in 2006):	
% TTU Operation:	28.4%
Total Pounds of Methane Removed:	3,714,039

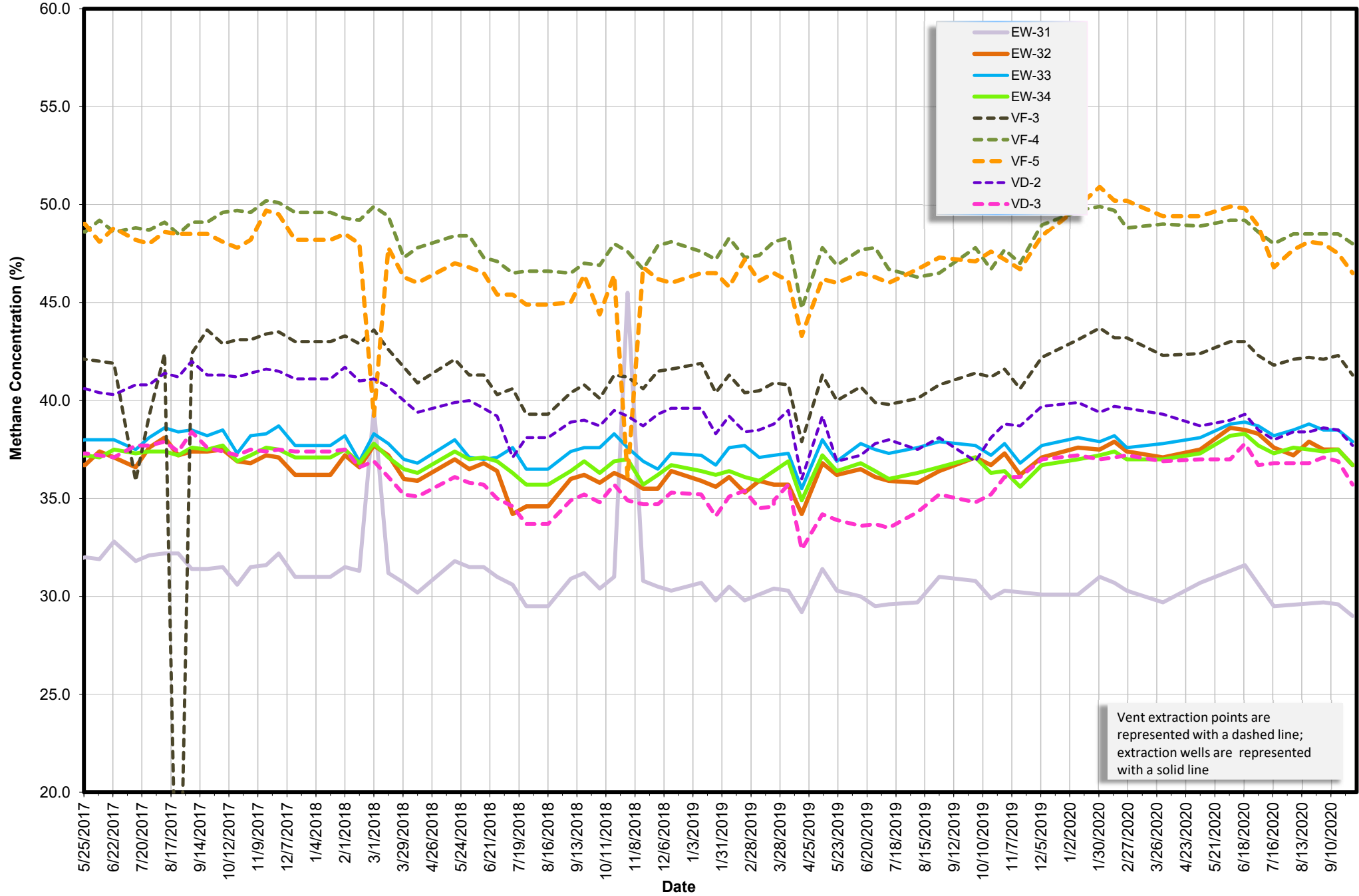
**Thermal Treatment Unit
Operation Summary
2006 - 2020**

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	-19%	145,174	-19%	2,784	0.6	-9%
2019	1,227	-21%	113,443	-16%	2,176	0.6	9%
2020	876		90,867		2,248		

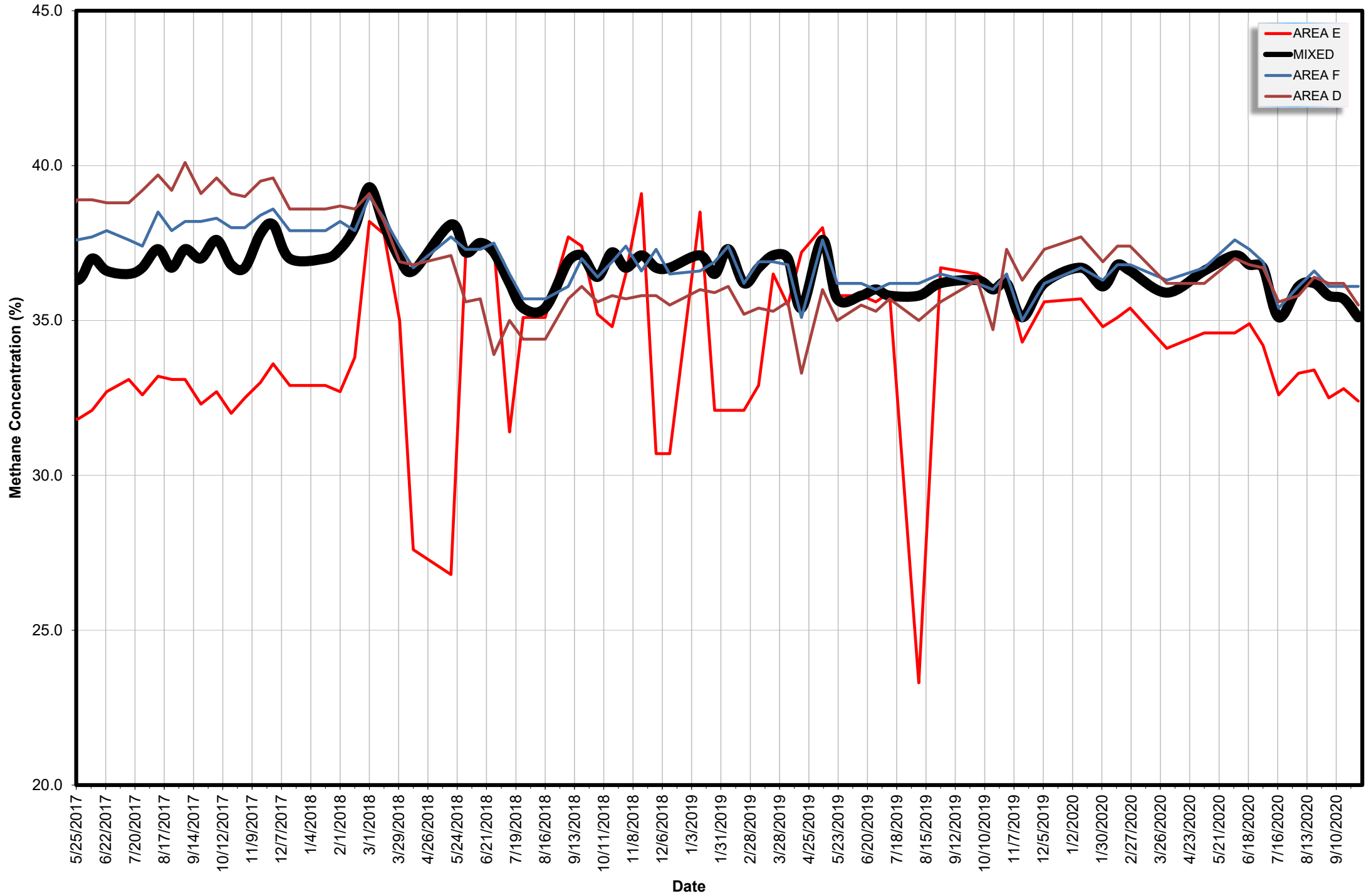
**Thermal Treatment Unit
Operation Summary
2006 - 2020**

EXTRACTION SYSTEM (2020)						
Location	Last Instantaneous Methane Reading (%)	Last Instantaneous Flow Rate Reading (scfm)	Current Methane Removal Rate (lbs/day)	2020 % Operation	2020 Methane Removed (Lbs)	% Contribution of Each Extraction Source
Area E						
EP-36	32.4	25.0	477.8	4%	22186.8	25%
Area F						
EW-31	29.0	3.3	56.4	3%	2546.1	3%
EW-32	36.7	15.6	337.7	4%	15,959	18%
EW-33	37.9	15.2	339.8	4%	16,541	18%
EW-34	36.7	19.1	413.5	4%	15,801	18%
VF-3	41.3	5.0	121.8	4%	5730.1	6%
VF-4	48.0	5.9	167.0	4%	2406.9	3%
VF-5	46.5	4.9	134.4	4%	5061.7	6%
Area D						
VD-2	37.7	1.0	22.2	4%	2909.6	3%
VD-3	35.7	1.0	21.1	4%	1032.6	1%
MIXED						
MIXED	35.1	96.0	1987.5	4%	90493.1	100%

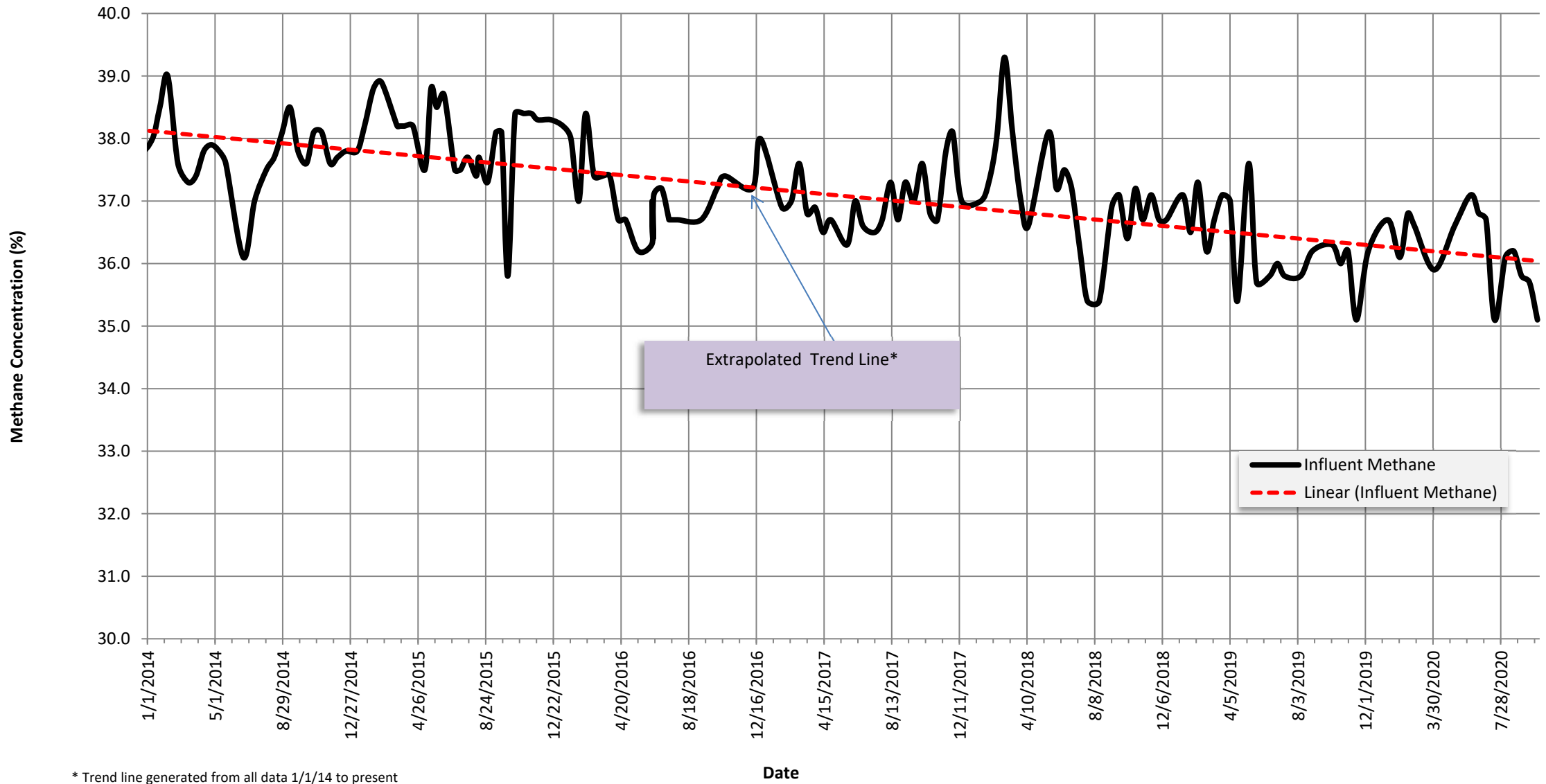
Methane Concentration Time Series Plot
OU2 Landfill Individual Extraction Sources
5/2017 to present



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