

HTW BCT, March 18, 2020

February 2020 Key Events for OU2 Landfills

- TTU Operations
- 2020 Q1 Probe Monitoring

March 2020 Key Events for OU2 Landfills

- TTU Operations
- Erosion Maintenance
- Raptor Perch Installation

OU2 Landfills and OU2 Groundwater Monitoring and Treatment System annual reports will be combined starting 3Q 2019 (Oct 1 – Sep 30).



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:	3/4/2020 12:46
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:	1,512
Total Hours Operated:	360
% TTU Operation:	24%
Total Pounds of Methane Removed:	31,050
Cumulative (since TTU startup in 2006):	
% TTU Operation:	29.1%
Total Pounds of Methane Removed:	3,654,222

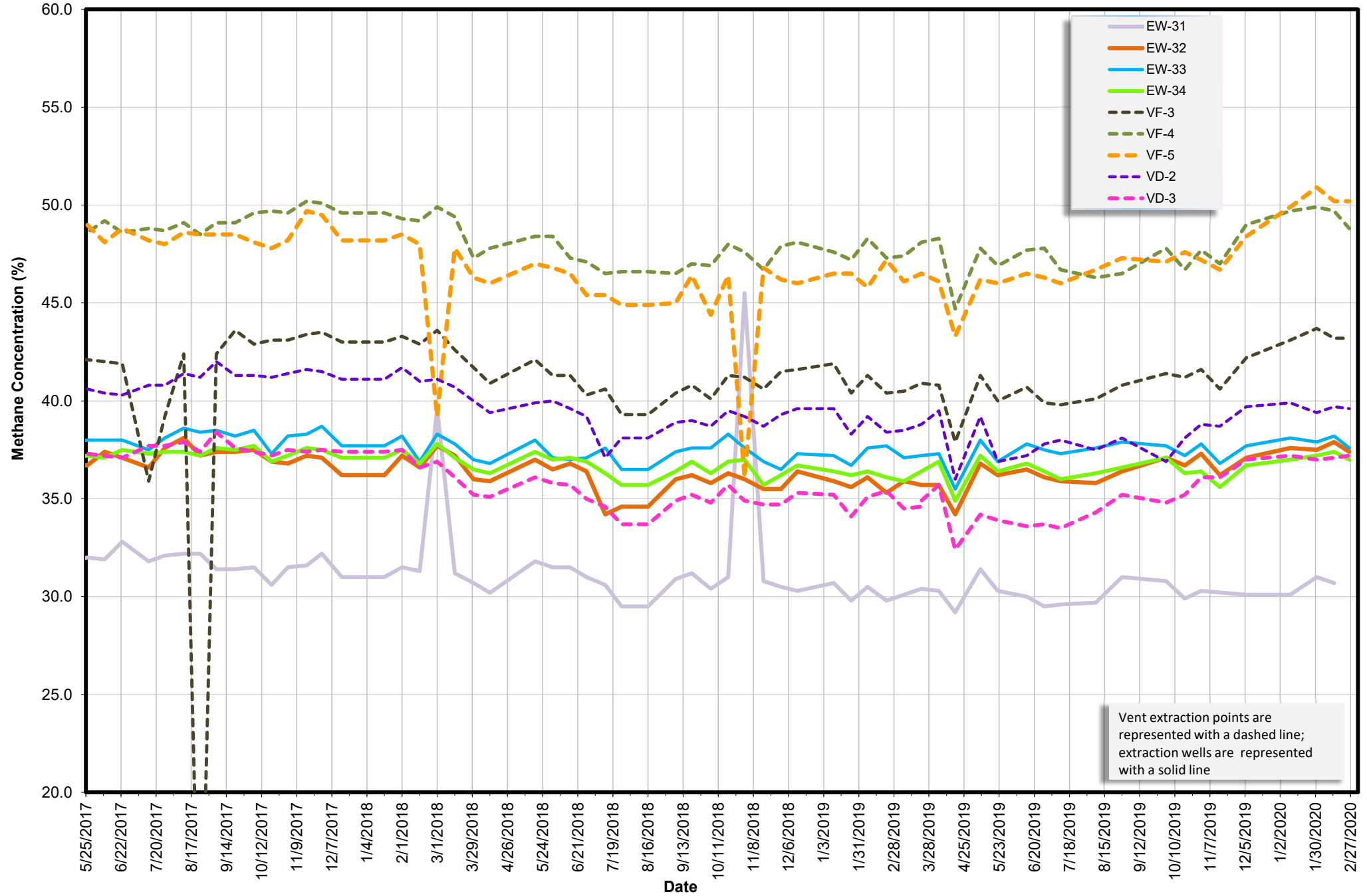
**Thermal Treatment Unit
Operation Summary
2006 - 2020**

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		31,050		3,396		

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

EXTRACTION SYSTEM (2019)						
Location	Last Instantaneous Methane Reading (%)	Last Instantaneous Flow Rate Reading (scfm)	Current Methane Removal Rate (lbs/day)	2018 % Operation	2018 Methane Removed (Lbs)	% Contribution of Each Extraction Source
Area E						
EP-36	35.4	25.0	522.0	0.2	71320.8	22%
Area F						
EW-31	30.3	0.6	10.7	0.2	5995.0	2%
EW-32	37.4	18.0	397.1	18%	62,835	19%
EW-33	37.6	19.5	432.5	18%	52,375	16%
EW-34	37.0	14.2	309.9	18%	79,050	24%
VF-3	43.2	5.2	132.5	0.2	20984.1	6%
VF-4	48.8	5.5	158.3	0.2	16060.5	5%
VF-5	50.2	4.1	121.4	18%	11439.4	3%
Area D						
VD-2	39.6	2.8	65.4	0.2	6085.5	2%
VD-3	37.2	1.0	21.9	0.2	5522.4	2%
MIXED						
MIXED	36.6	96.0	2072.5	0.2	289667.4	100%

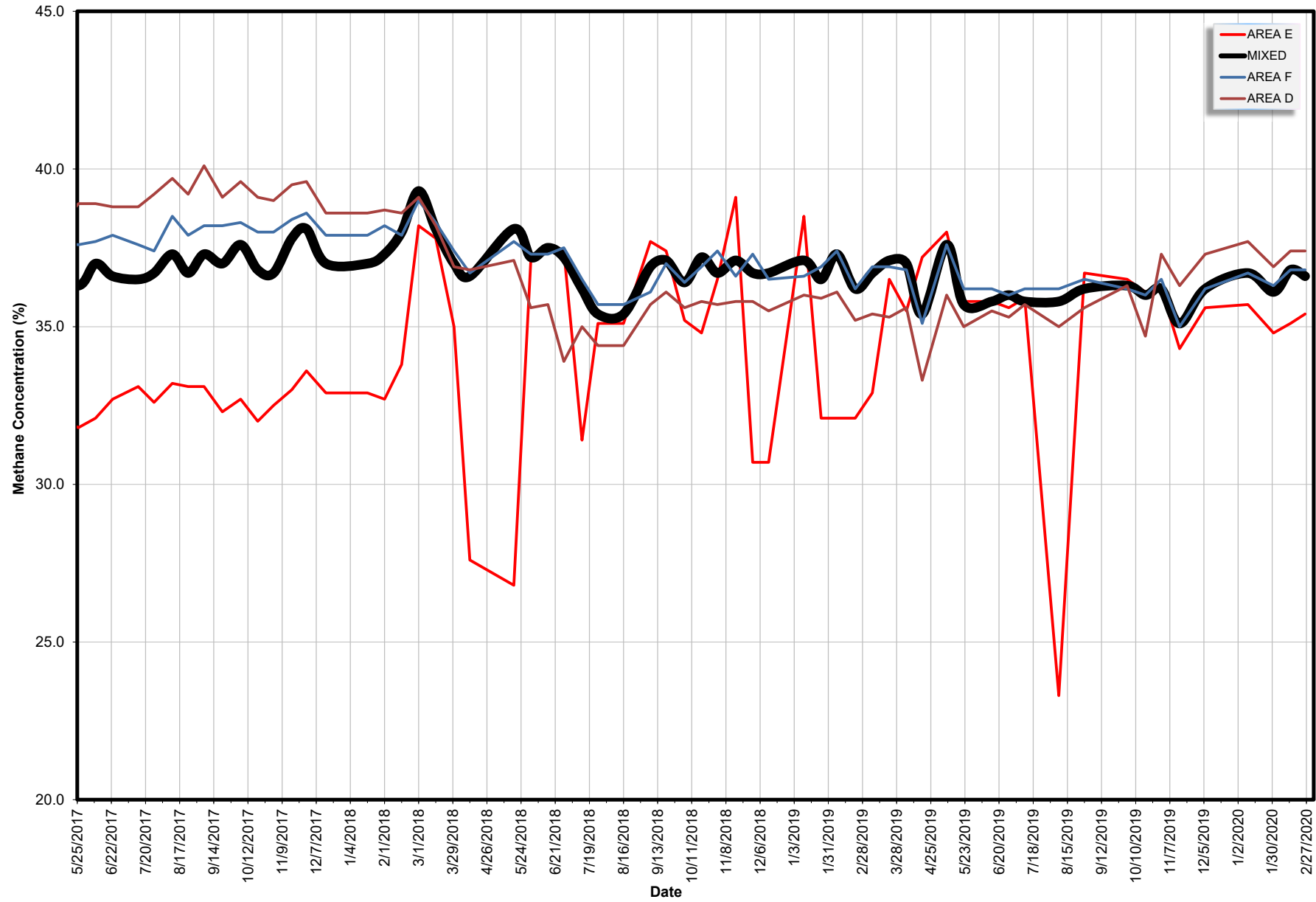
Methane Concentration Time Series Plot
OU2 Landfill Individual Extraction Sources
5/2017 to present



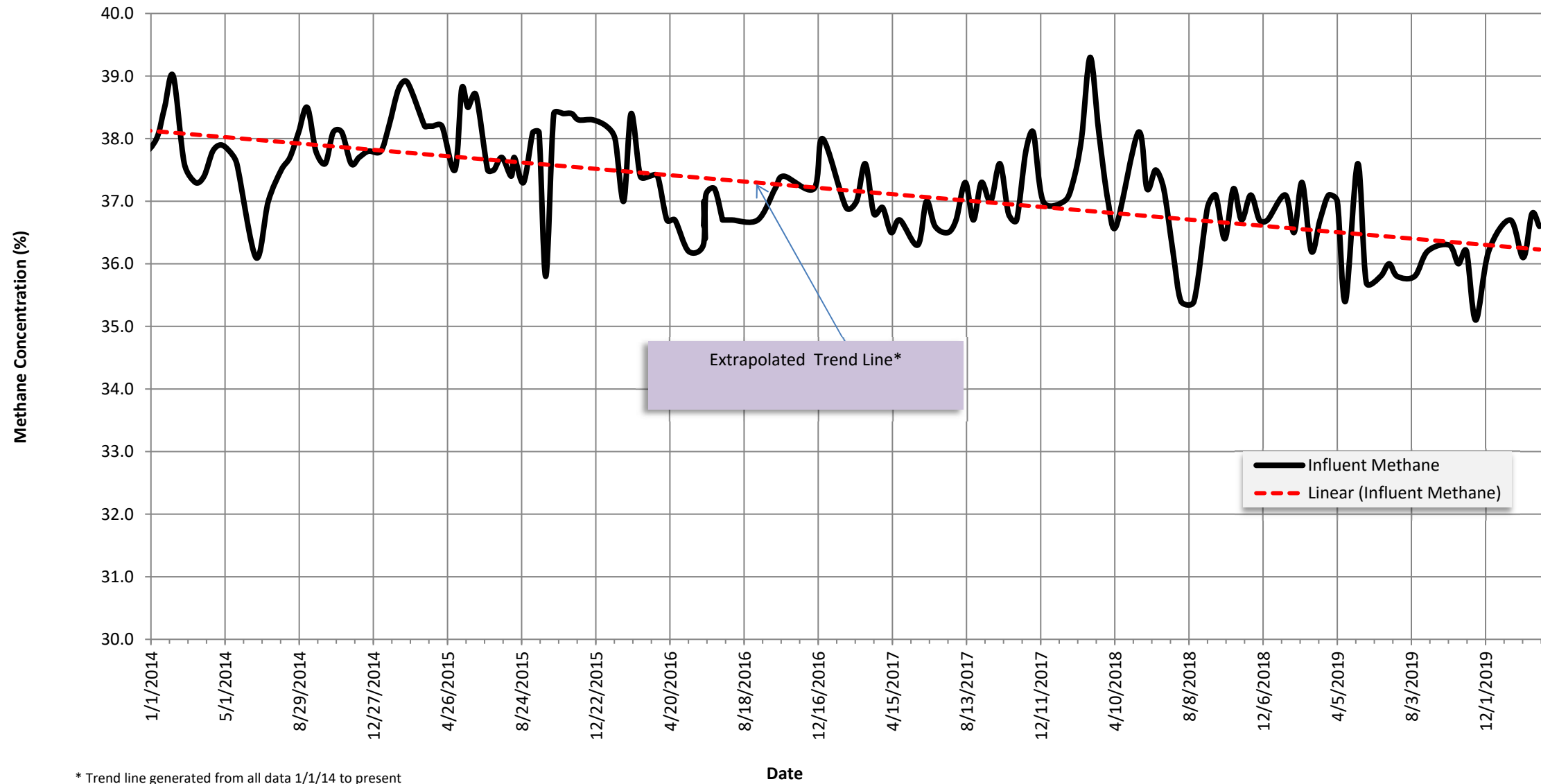
Methane Concentration vs. Time

OU2 Landfill Extraction Sources

1/1/2011 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