

LUDLOW PARK RESIDENTS ASSOCIATION MEETING

YONKERS JOINT WRRF
THURSDAY MARCH 16, 2017

A presentation by the Department of
Environmental Facilities



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Robert P. Astorino
Westchester County Executive



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**County Executive Robert P. Astorino
uses three guideposts (The Three P's)
to manage Westchester County:**

- Protect Taxpayers
- Preserve Essential Services
- Promote Economic Growth

Yonkers Joint O&M Management Team

- Jeff Bryant
 - Plant Superintendent
 - 231-2847
-
- | | |
|----------------------------------|-----------------------------|
| • John Lennon | • Erwin Vazquez |
| • Supervisor of Plant Operations | • Supervisor of Maintenance |
| • 231-2852 | • 231- 2850 |

Odor Remediation Project – SY009

- Phase I, \$9.6 Million – Screen & Grit Bldg HVAC and Odor Control including Ludlow St PS Odor Control
- Phase II, \$9.8 Million – HVAC System Upgrades to Blower, Admin Bldgs. & New boilers
- Phase III, \$7.3 Million – Odor Control for Primary Access Bldg & South Pumping Station, HVAC systems in several other area's and buildings
- 99% Complete
- In closeout
- Scheduled Completion July 2017
- 90% Complete
- Contract Awarded
- Kickoff meeting scheduled for March 2017

Odor Remediation Project – SY009

- Phase IV \$ 5.0 Million
Secondary Sludge
Thickening Bldg. HVAC
Upgrades
- Request Construction
Bonding 3rd Quarter
2017

Other Construction Projects

- Emergency Generator Replacement

New Electrical Switchgear and new Emergency Generator

- 99% complete
- Scheduled Completion April 2017

- Anaerobic Digester Gas Fueled Generator

New ADG Fueled Generator to Generate Electricity for Plant Use

- 99% Complete
- Punch list Items outstanding
- Engine is running supplying electricity

Other Construction Projects

- Sandy Repair Phase I

Replacement of motors, wiring and control panels for process pumps located in the basement.

- Sandy Repair phase II-1

Repair of Gas Boosters and Replacement of MCC10A electrical feeders

- Sandy Repair Phase II-2

Repair and rewire site lighting

Replace motors and wiring for tank collection systems

- Start of Construction January 2016

- Approximately 98% complete

- 100% complete awaiting closeout documents

- Notice to Proceed Issued July 2016

- Construction Started Approximately 7% complete

Other Construction Projects

- Sandy Repair Phase II-3

Replace and rewire interior lighting. Install new Potassium Permanganate system

- Sandy Repair Phase III

New motors, wiring, and controls for Basement Sump system and Primary Digester Process

- Awaiting Contract Award

- Construction started
Approximately 5% complete

Other Construction Projects

- DAF Upgrade

Replacement of DAF Thickeners with new Gravity Belt Thickeners and Related Equipment

- Engine Replacement Project

Multi Phase Project to Replace Engine driven Blowers with Turbo Blowers and ADG Engines and various other upgrades to Secondary System

- Out for Bid March 2017

- Phase II design at 90%

- Phase III design at 90%

Other Construction Projects

- Grit System Upgrade

Refurbishment of Grit Removal System With Redundancy Additions

- Sluice Gate Project

Replacement of Sluice Gates in Secondary System

- Secondary Treatment Area Upgrades

Refurbishment of Various Small Systems in Secondary Area

- Design Started

December 2015. 60% Complete in February 2017

- Design Started February 2016. 60% Complete in February 2017

- Design Started February 2016. 30% complete in July 2016. Water Audit scheduled for Spring 2017

Other Construction Projects

- Vulnerability Work
Design Improvements
for Storm Resiliency

- Future Projects

- Air Treatment Study
 1. O/S Equipment Air Treatment
 2. Existing Odor Control Equipment Evaluation
 3. Aeration Tank Air Treatment
 4. Air Sampling/Model Update/
New Technologies

- Protect the WRRF for
FEMA 500 Year
Return Storm
- Primary and
Secondary Settling
Tank collection
System
Refurbishment
- Electrical and
Lighting Upgrade

Annual Performance Report 2016

YONKERS JOINT WASTEWATER TREATMENT PLANT

YEARLY PERFORMANCE REPORT

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MONTH	FLOW THROUGH PLANT (mgd)	Suspended Solids			Biochemical Oxygen Demand			SLUDGE CAKE REMOVED			SEWAGE	
		Inf Mg/L	Eff Mg/L	PLANT % Rem	Inf Mg/L	Eff Mg/L	PLANT % Rem	WET TONS	PERCENT SOLIDS	DRY M-TONS	SCREENINGS LBS	GRIT CU.YDS.
Jan '16	83	149	9	94	130	10	92	2,395	25.6	556	120,000	200
Feb '16	97	130	19	85	115	18	84	2,298	28.7	600	90,000	140
Mar '16	80	167	15	91	153	14	91	2,311	28.1	589	48,000	100
Apr '16	68	165	6	96	155	7	96	2,577	28.9	676	54,000	120
May '16	71	184	7	96	136	6	96	2,658	26.6	644	52,000	120
Jun '16	68	199	5	98	150	5	97	2,799	27.6	773	54,000	120
Jul '16	65	177	7	96	133	6	96	2,382	25.1	542	44,000	120
Aug '16	63	186	11	94	139	6	96	2,606	25.7	610	50,000	100
Sep '16	64	205	6	97	159	5	97	2,711	27.4	674	36,000	100
Oct '16	64	201	8	96	163	6	97	2,774	24.4	616	54,000	100
Nov '16	66	193	9	96	152	7	96	2,551	26.7	619	38,000	120
Dec '16	77	151	7	95	128	7	95	2,552	25.8	597	38,000	100
Ave	72	176	9	94	143	8	94		26.7			
Max	97											
Total	867							30,613		7,495	678,000	1,440

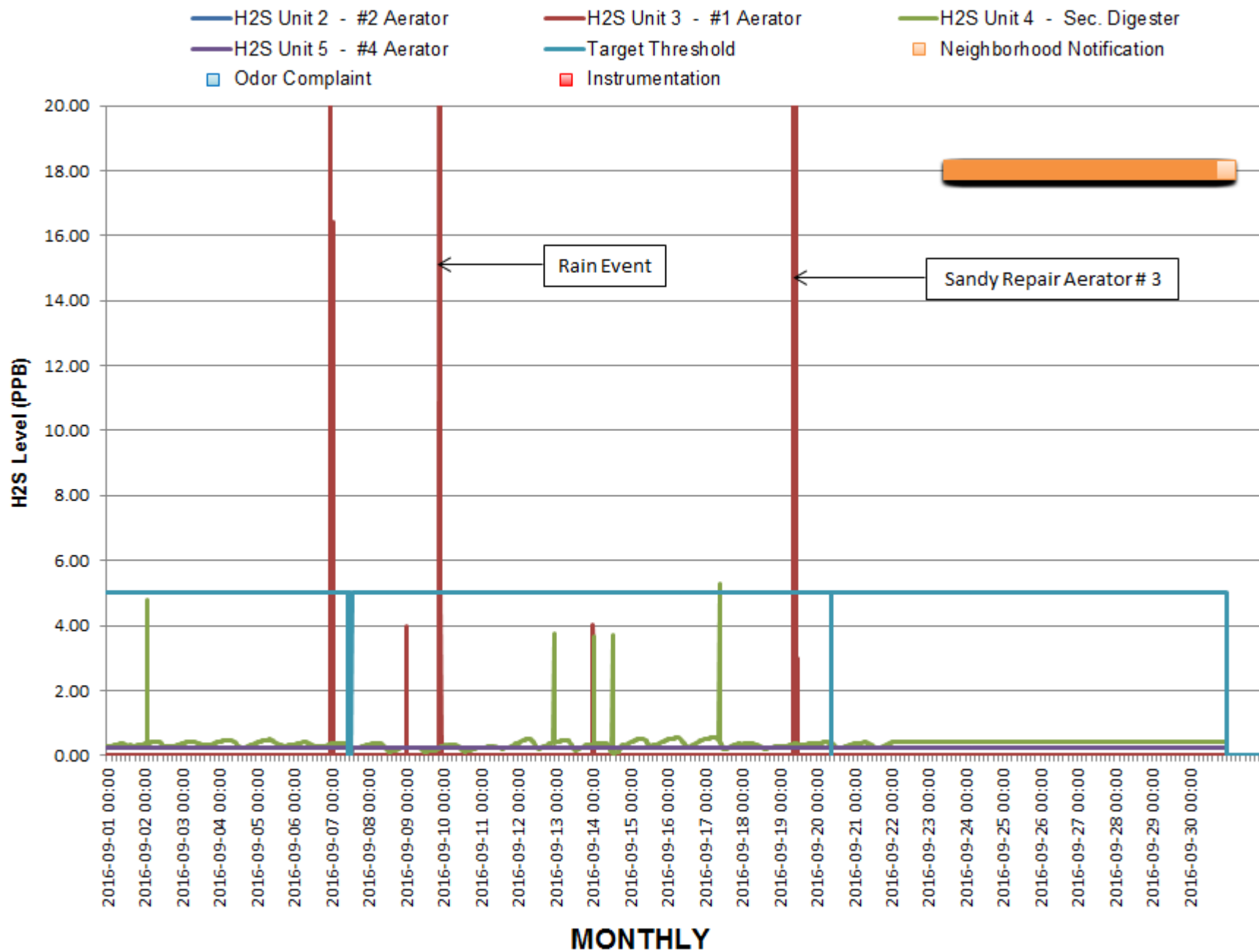
Annual Performance Report 2017

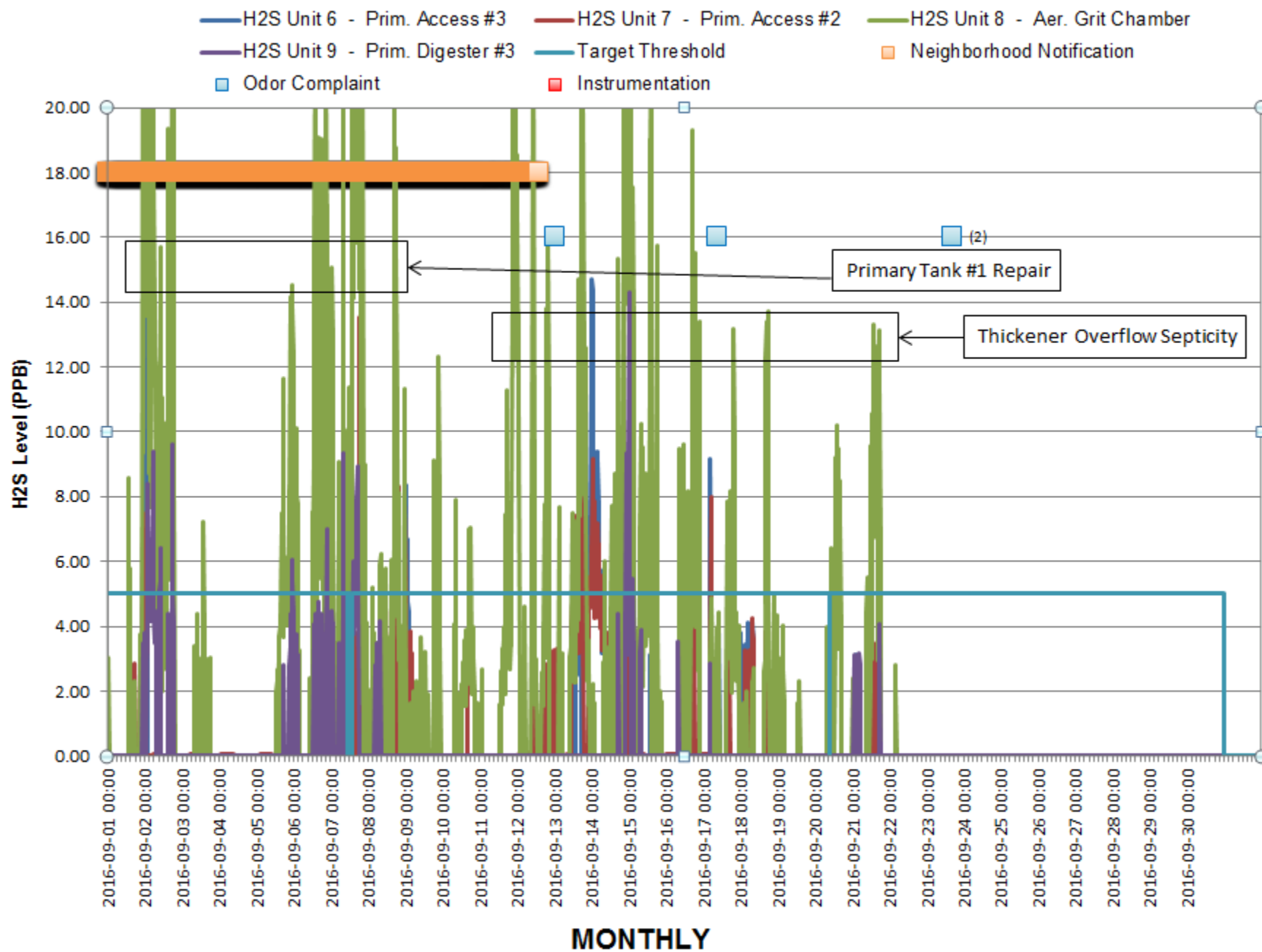
YONKERS JOINT WASTEWATER TREATMENT PLANT

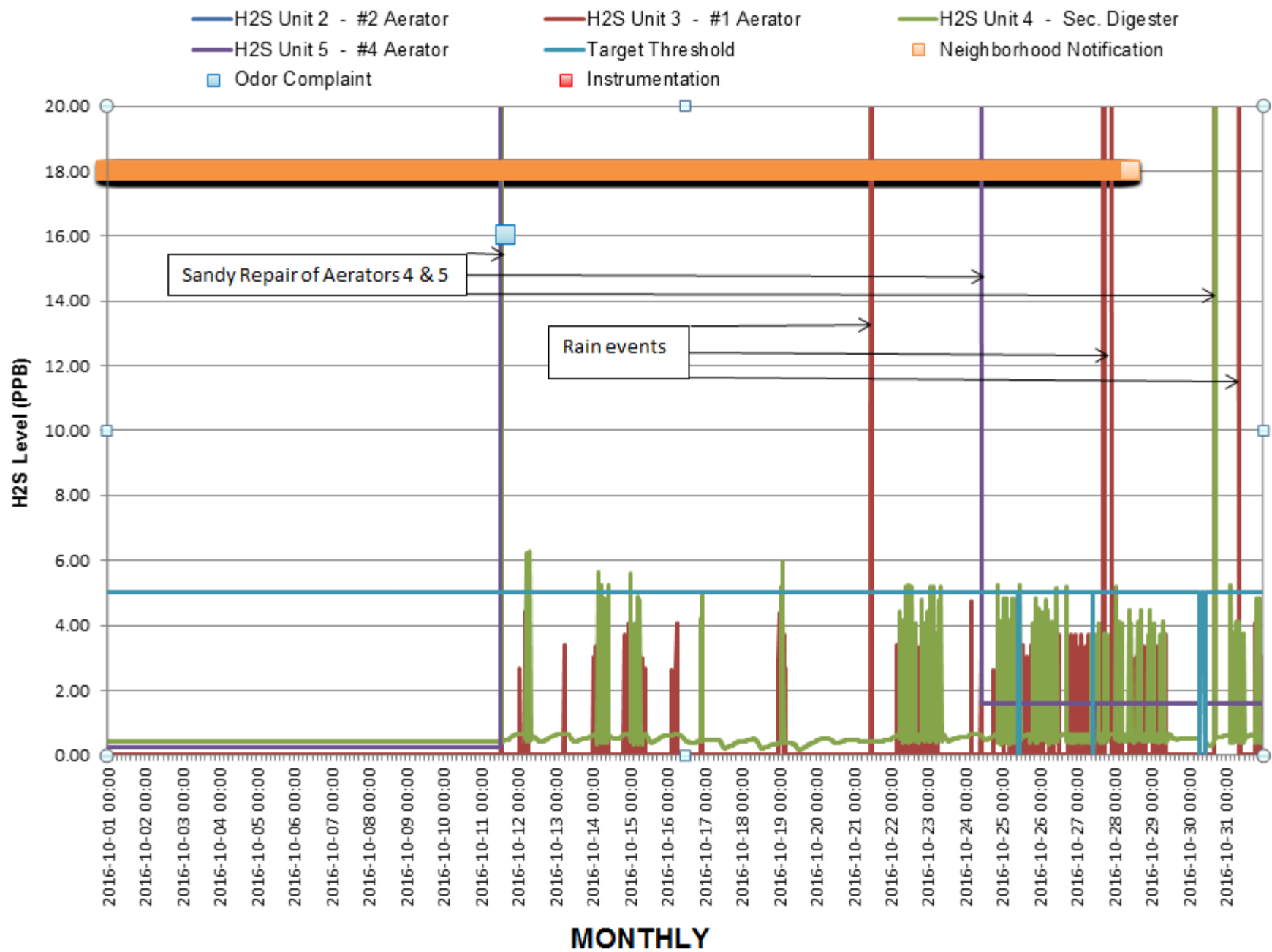
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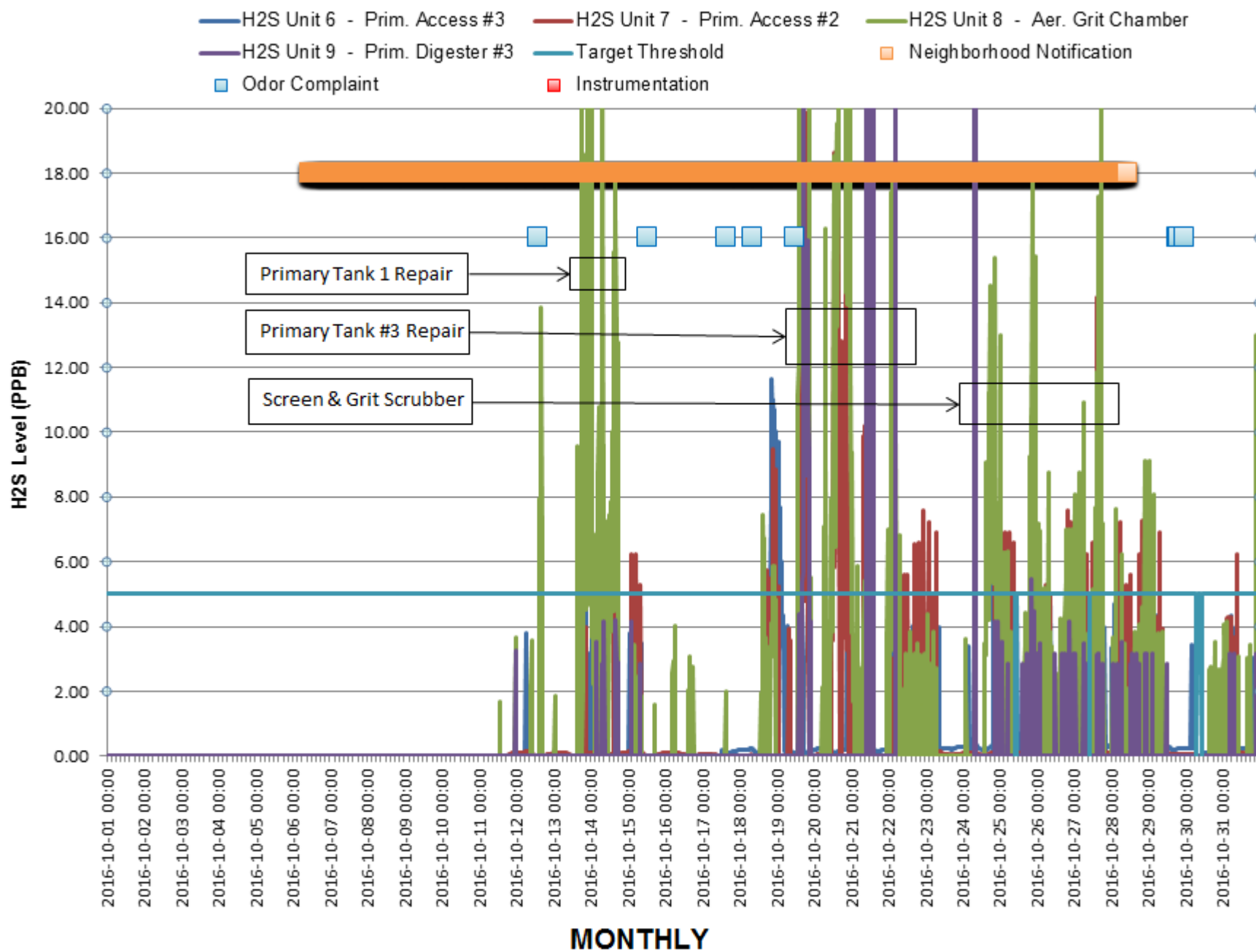
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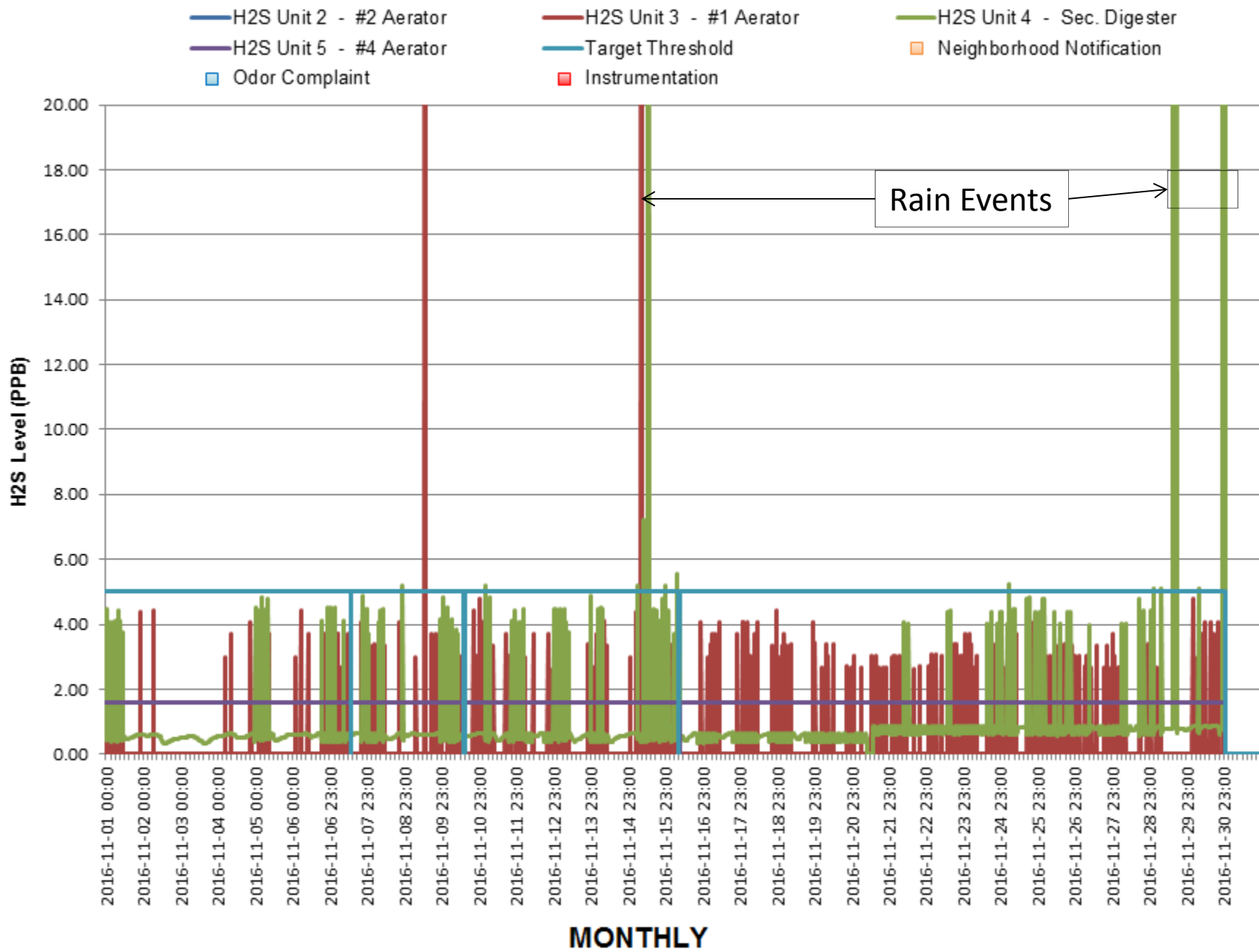
MONTH	FLOW THROUGH PLANT (mgd)	Suspended Solids			Biochemical Oxygen Demand			SLUDGE CAKE REMOVED			SEWAGE	
		Inf Mg/L	Eff Mg/L	PLANT % Rem	Inf Mg/L	Eff Mg/L	PLANT % Rem	WET TONS	PERCENT SOLIDS	DRY M-TONS	SCREENINGS LBS	GRIT CU.YDS.
Jan '17	85	144	12	92	116	10	91	2,481	26.7	603	44,000	100
Feb '17	76	146	16	89	120	13	89	2,011	27.4	501	32,000	120
Mar '17	77							523			14,000	20
Apr '17												
May '17												
Jun '17												
Jul '17												
Aug '17												
Sep '17												
Oct '17												
Nov '17												
Dec '17												
Ave	79	145	14	92	118	12	91		27.1			
Max	85											
Total	238							5,015		1,104	44,000	100

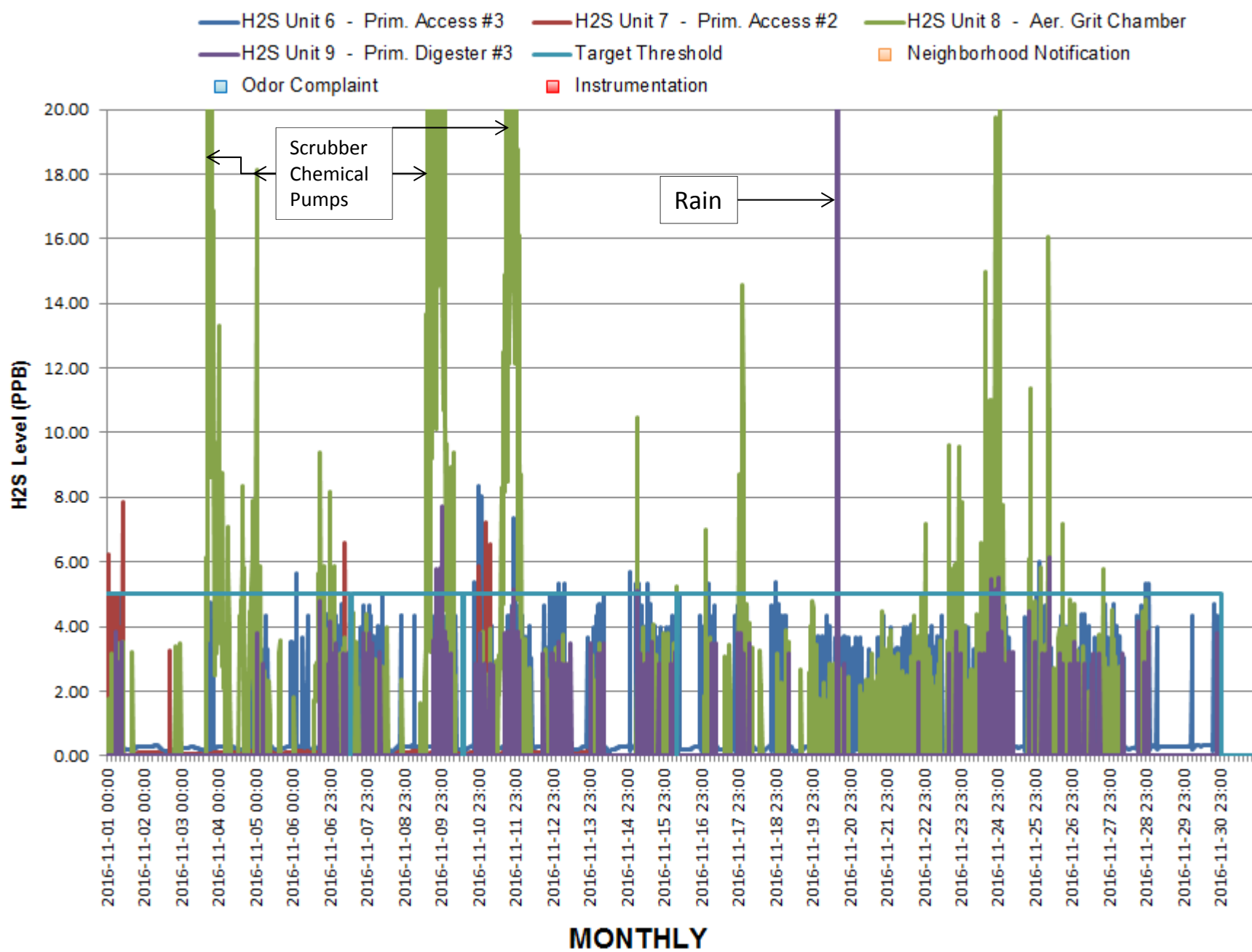


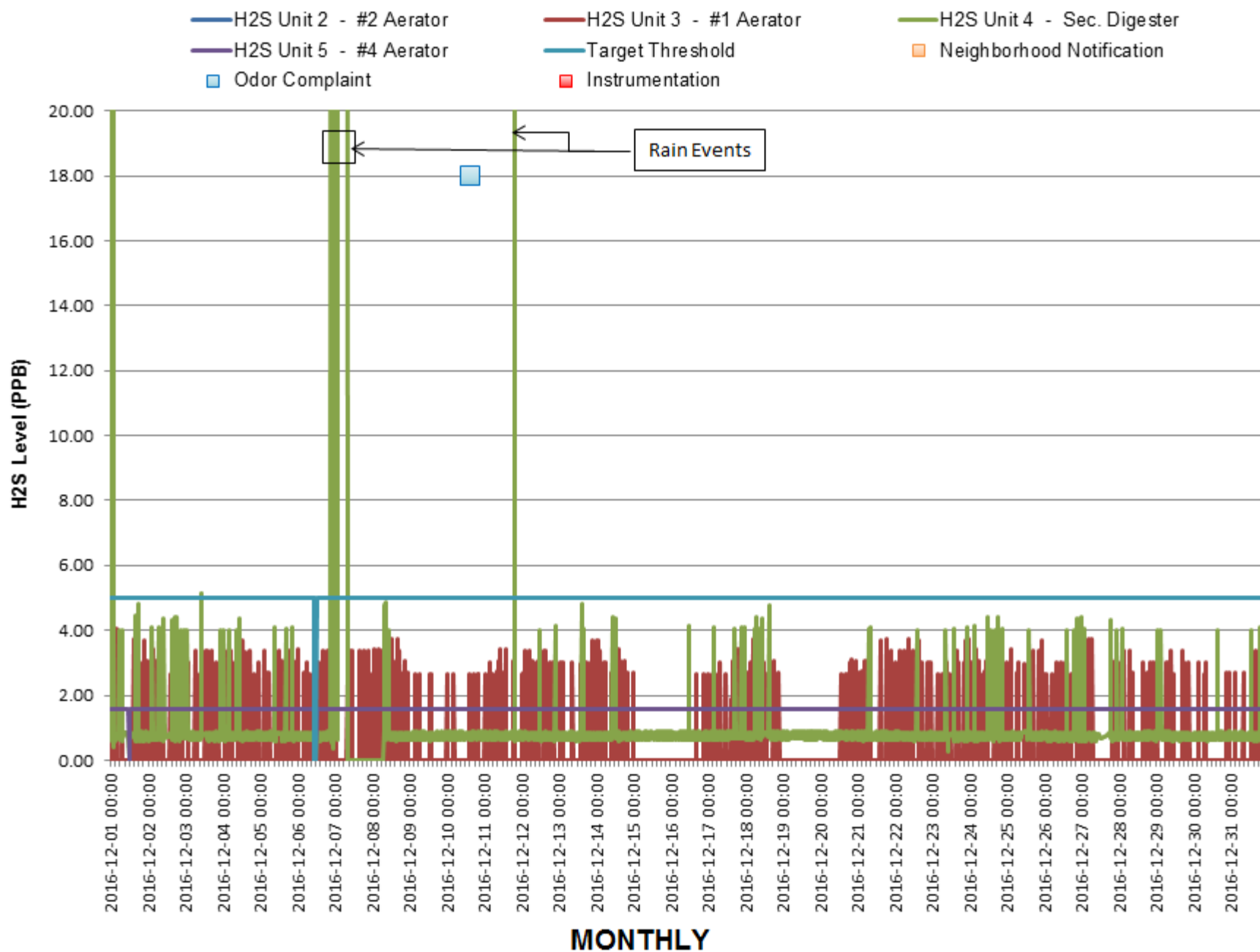


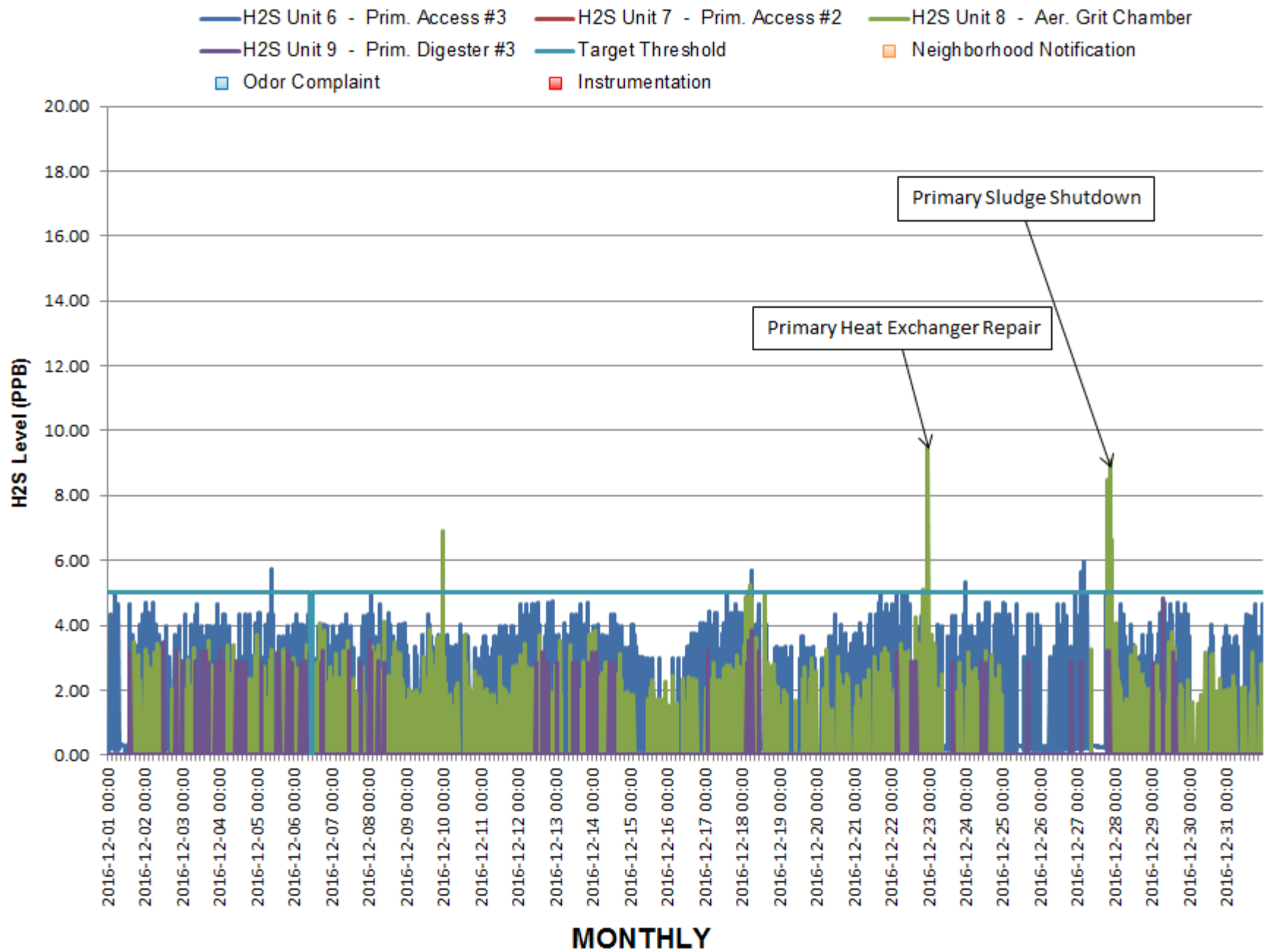


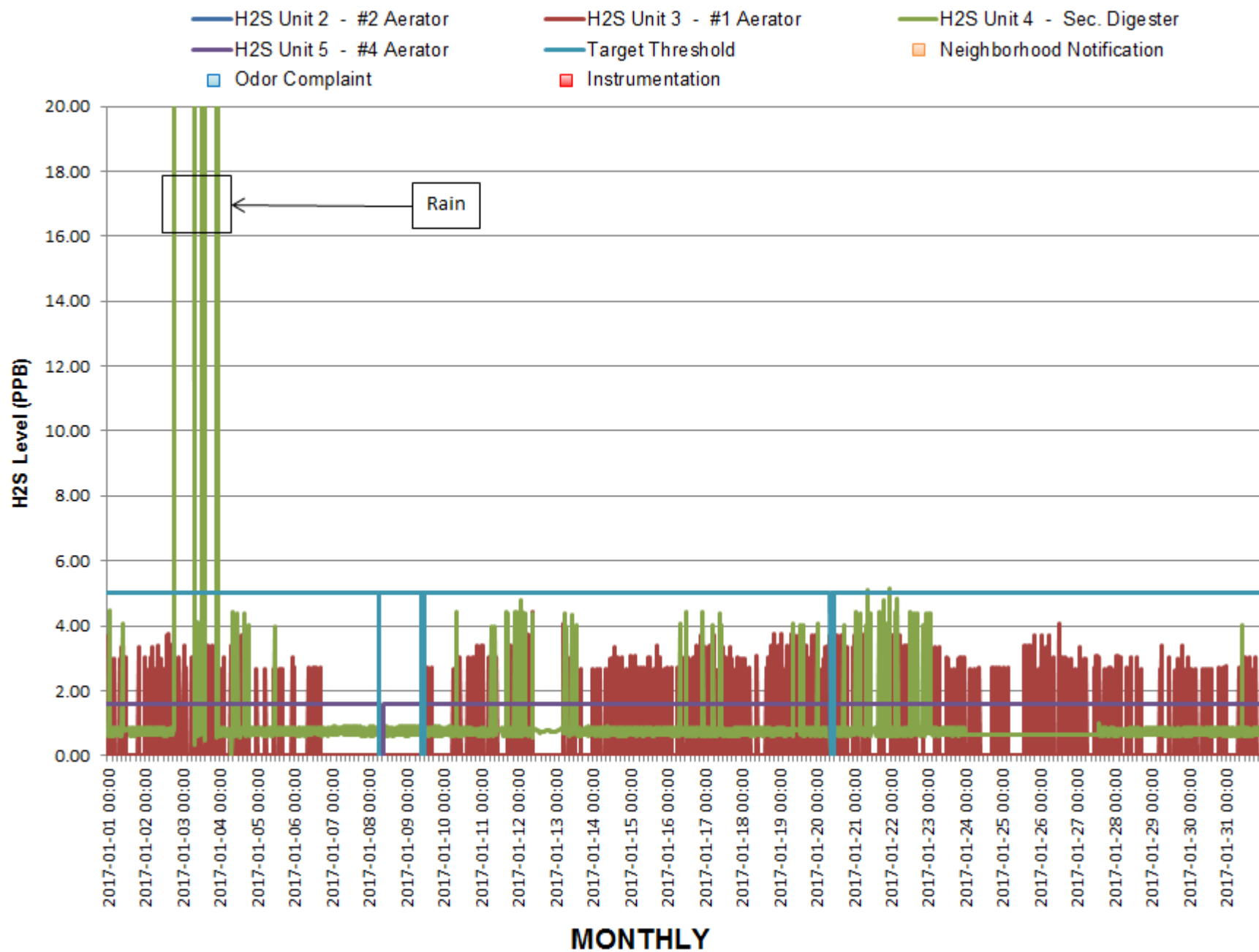


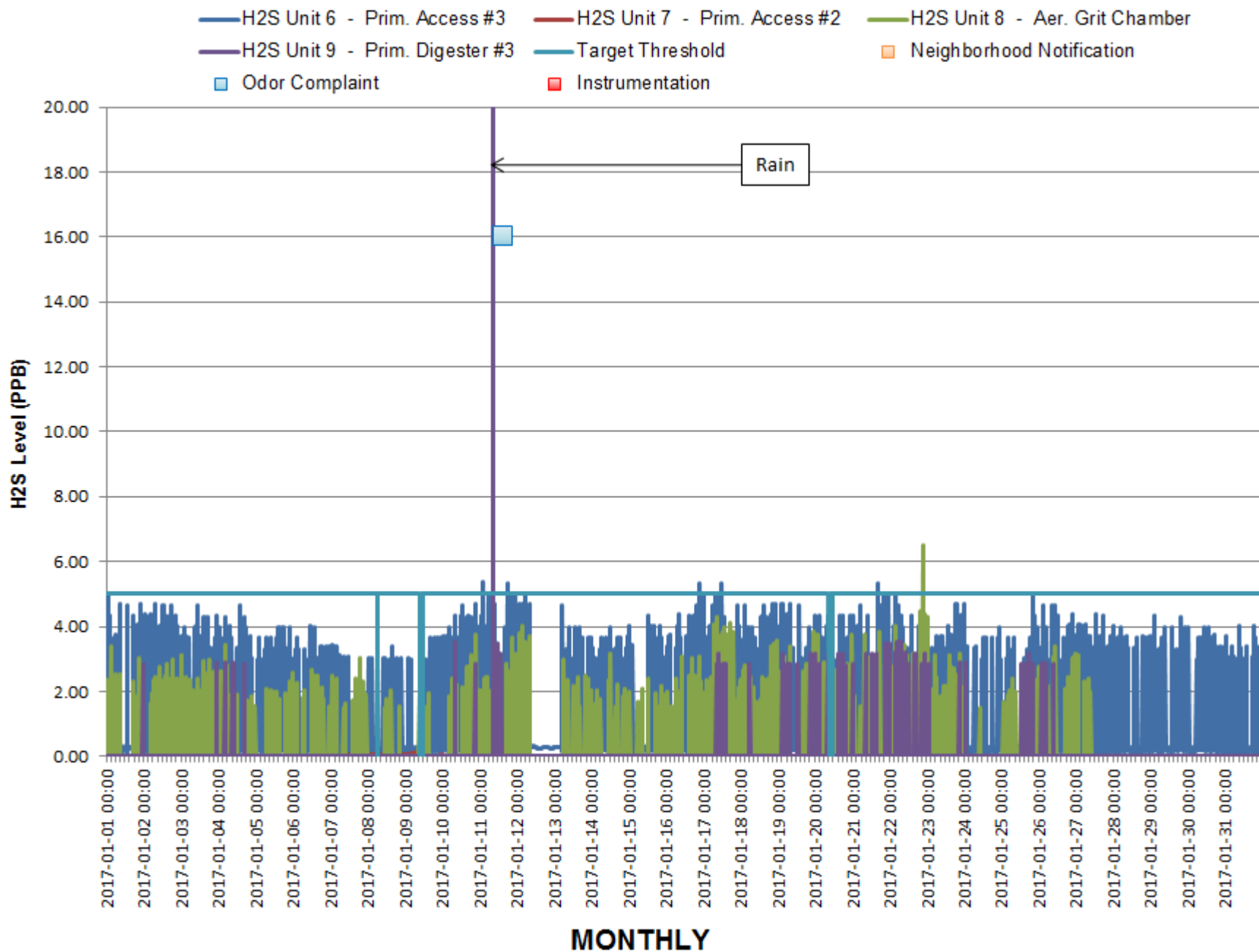


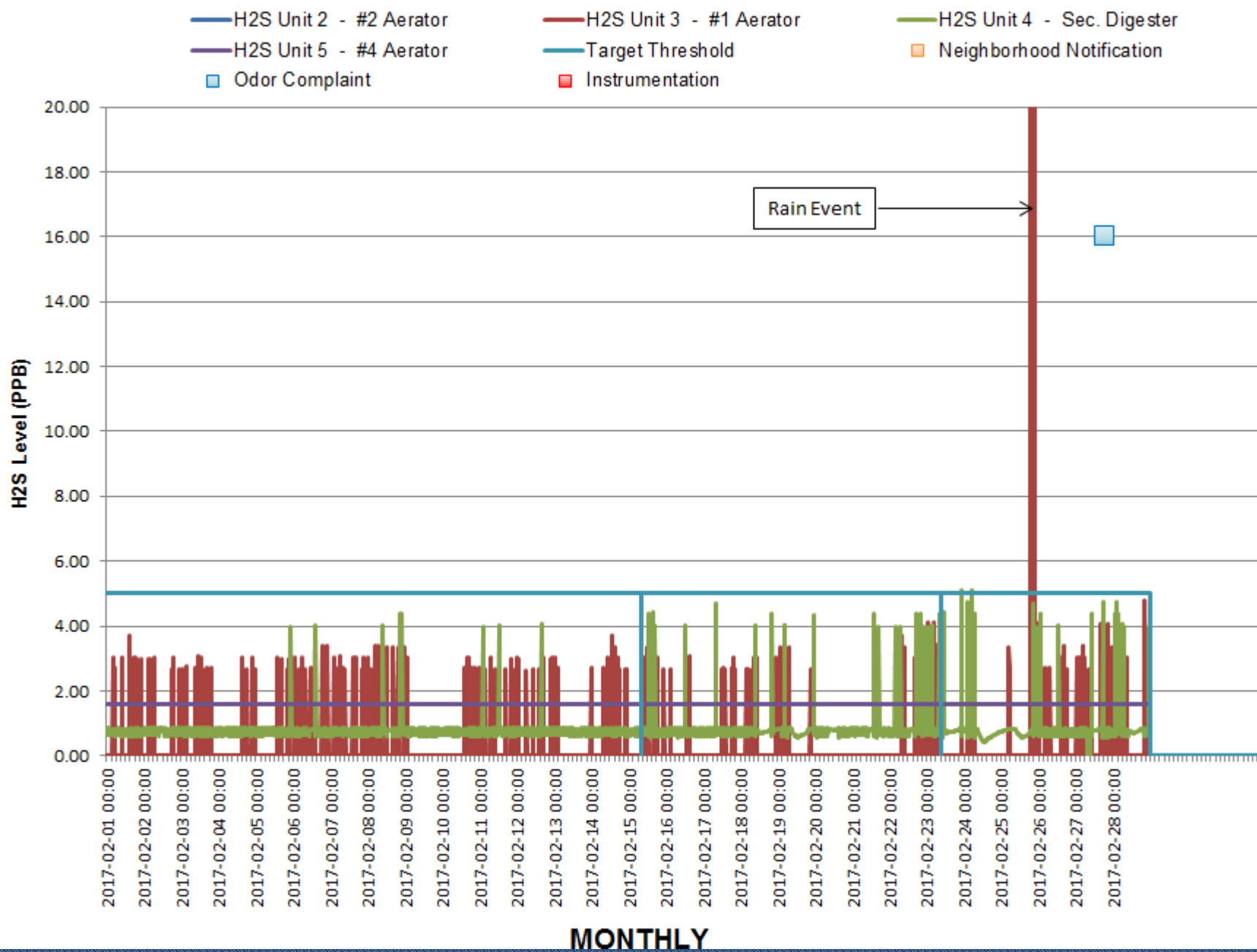


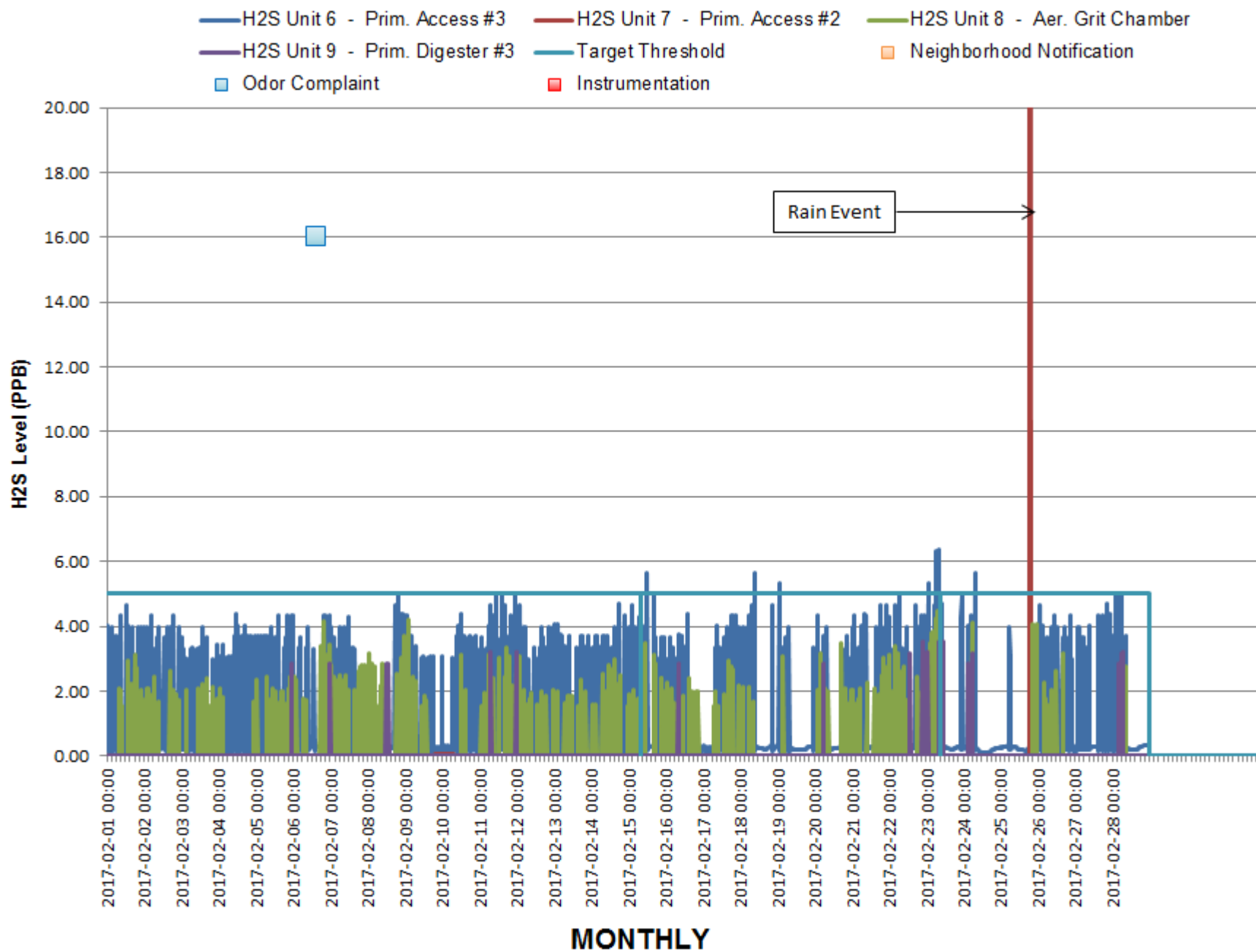












Questions

Thank You

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