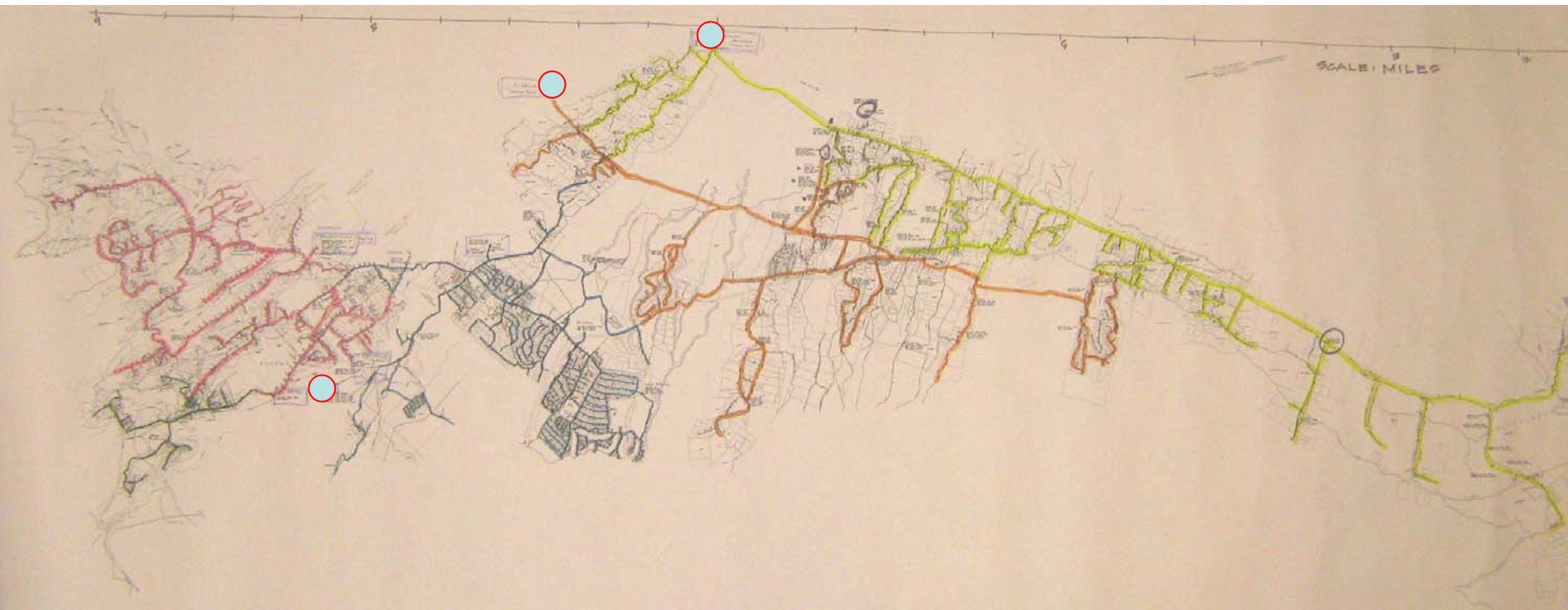


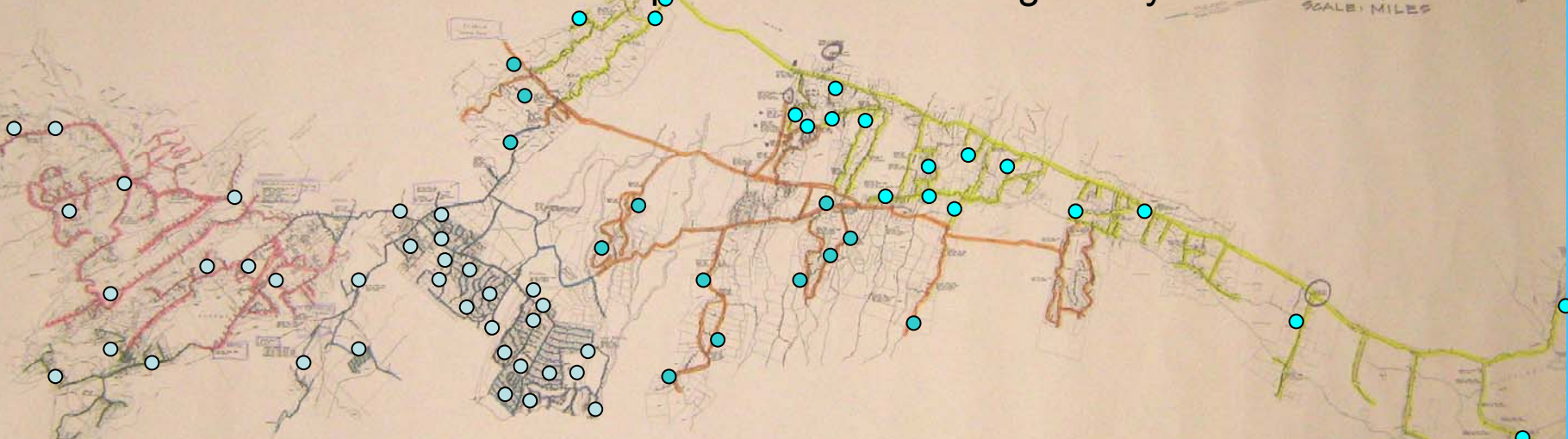
EVALUATION OF PERFORMANCE VS GOALS

- Microbiological
- Disinfection
- Turbidity
- Stability
- Disinfection Byproducts



Total Coliform Rule / Heterotrophic Plate Count Regulatory

SCALE: MILES



SAMPLE SITES

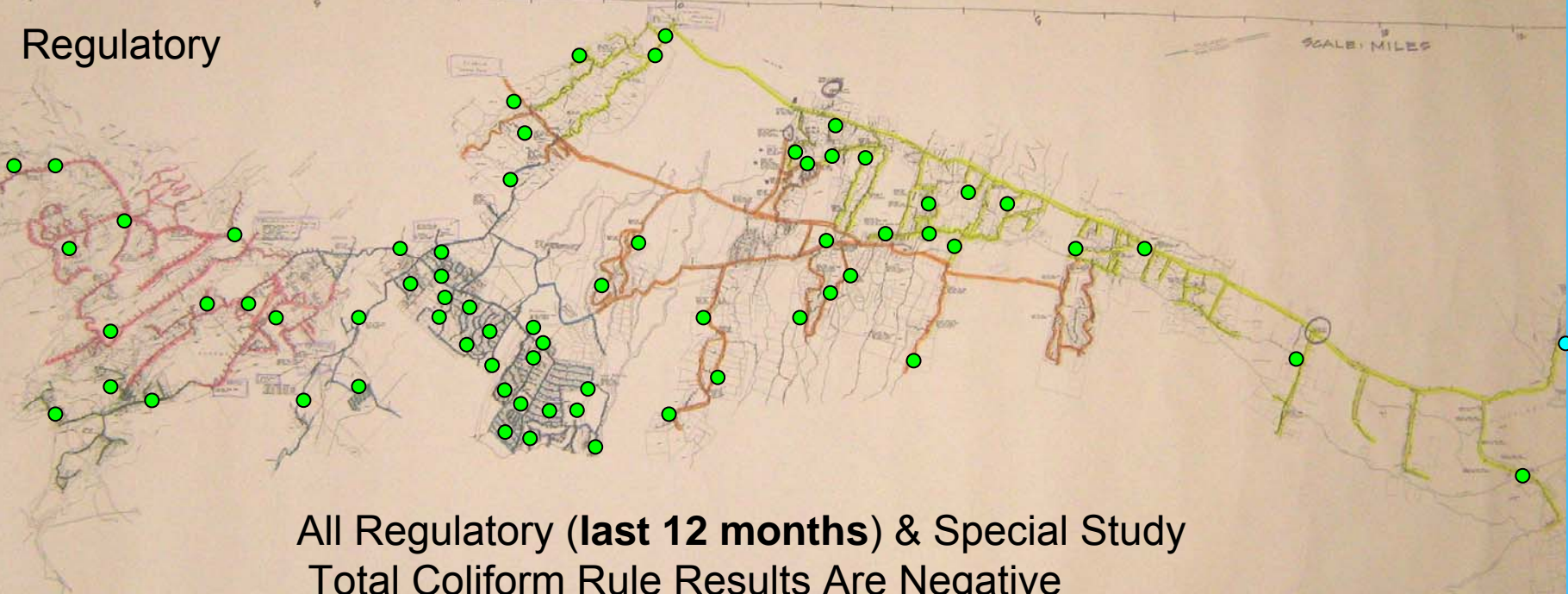
Total Coliform Rule / Heterotrophic Plate Count Special Study

SCALE: MILES



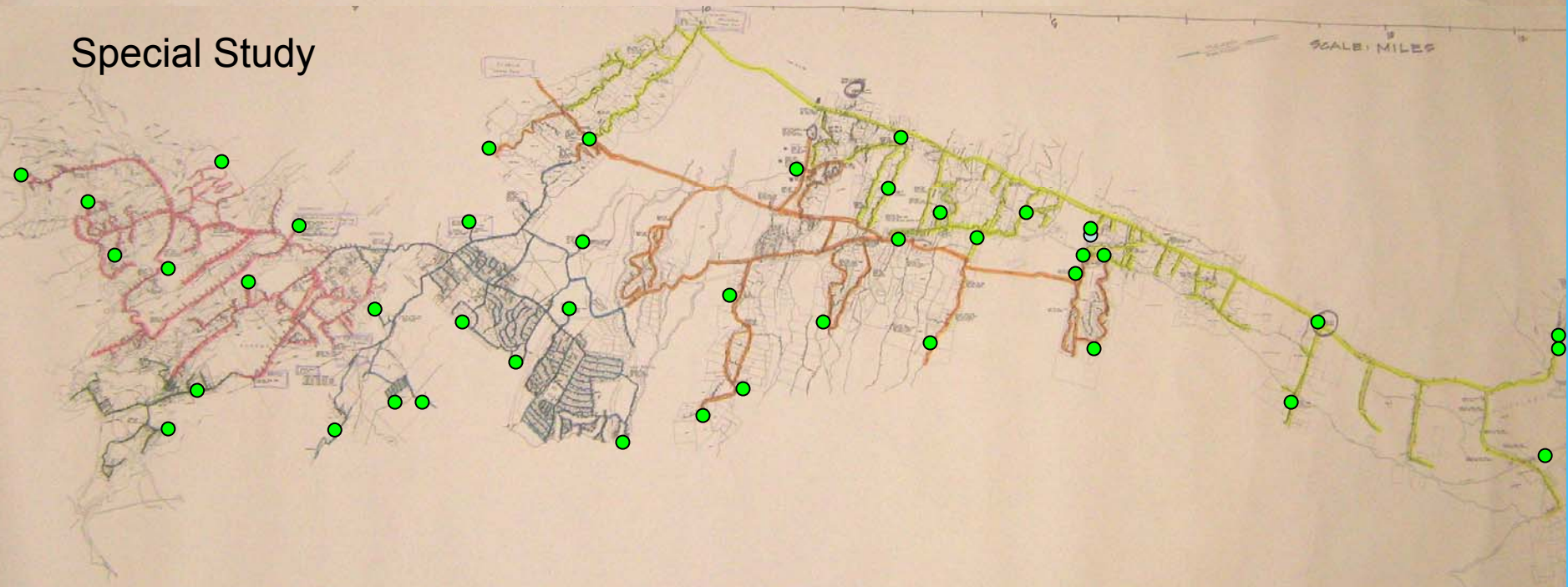
Microbiological Control

Regulatory

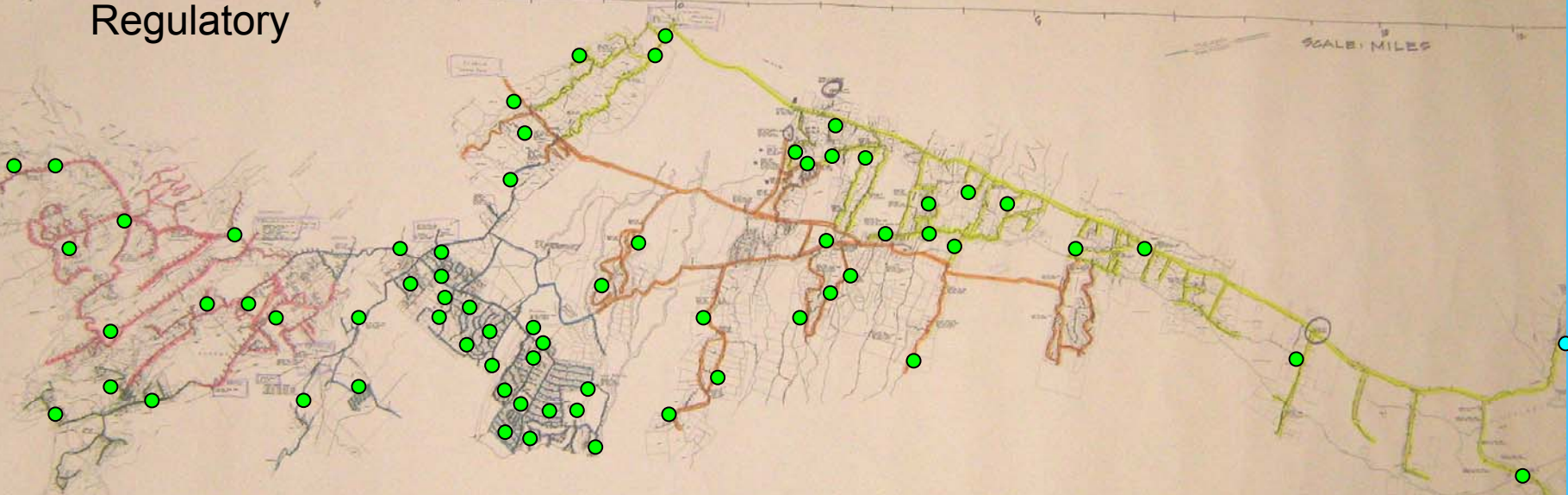


All Regulatory (**last 12 months**) & Special Study
Total Coliform Rule Results Are Negative

Special Study

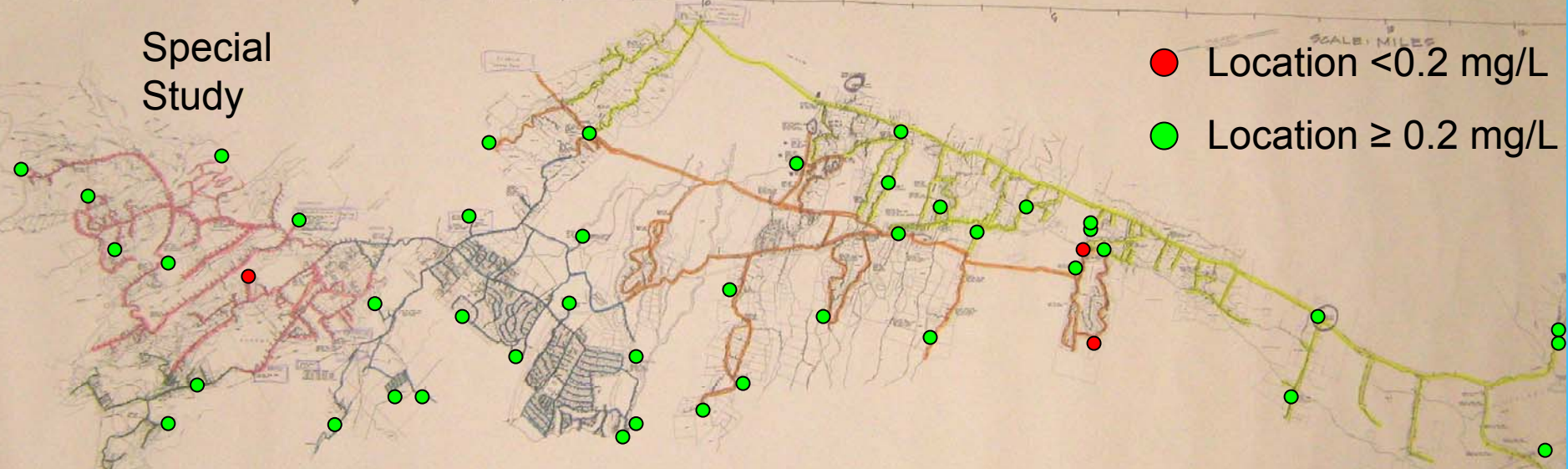


Regulatory



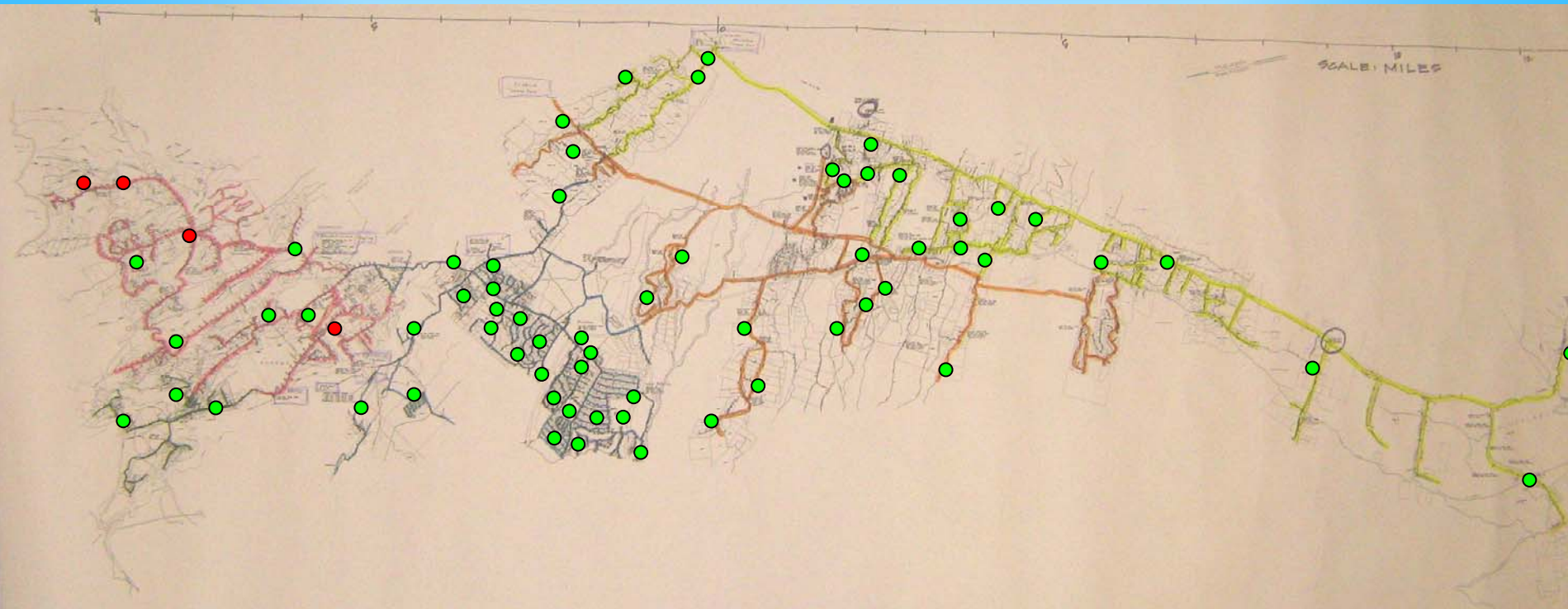
All Regulatory (last 12 months)
Chlorine results are between 0.2 and 4.0 mg.L

Special Study



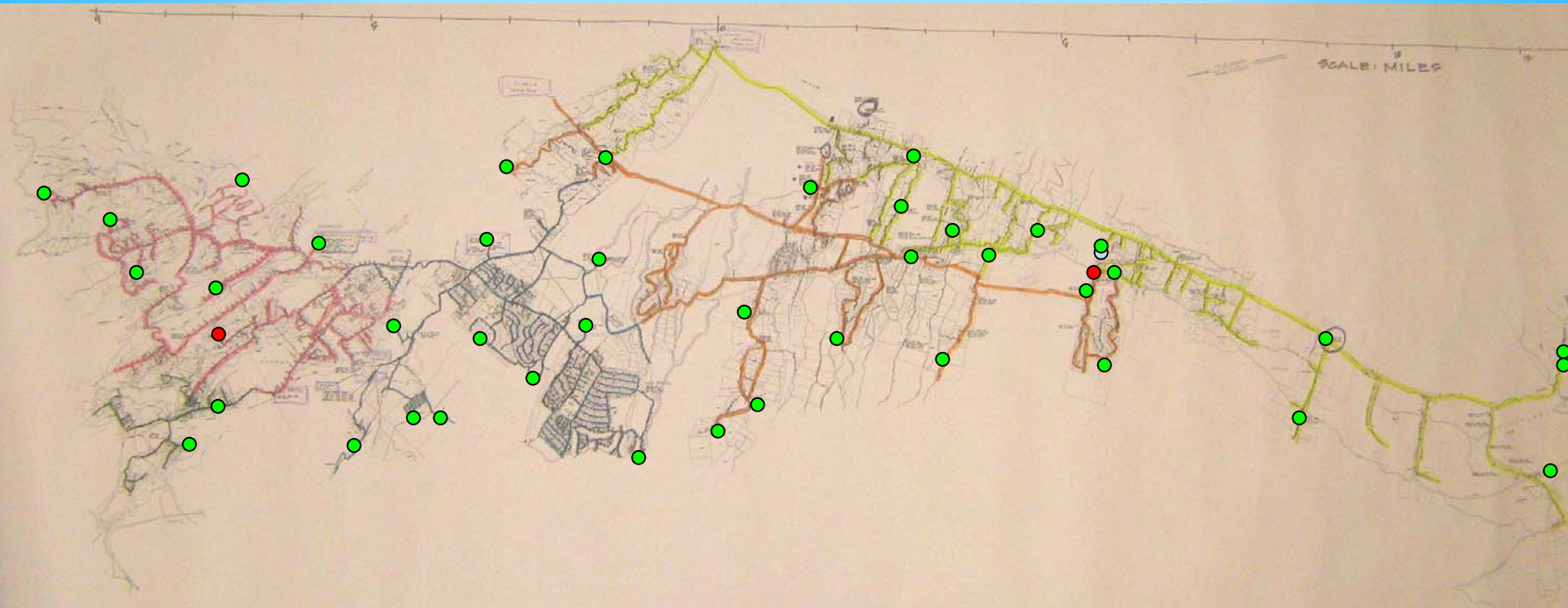
All Special Study
Chlorine results are under 4.0 mg.L

Historical HPC Densities > 50 cfu/ml in 2007



- Location >50
- Location ≤ 50

Special Study HPC Densities > 50 cfu/ml

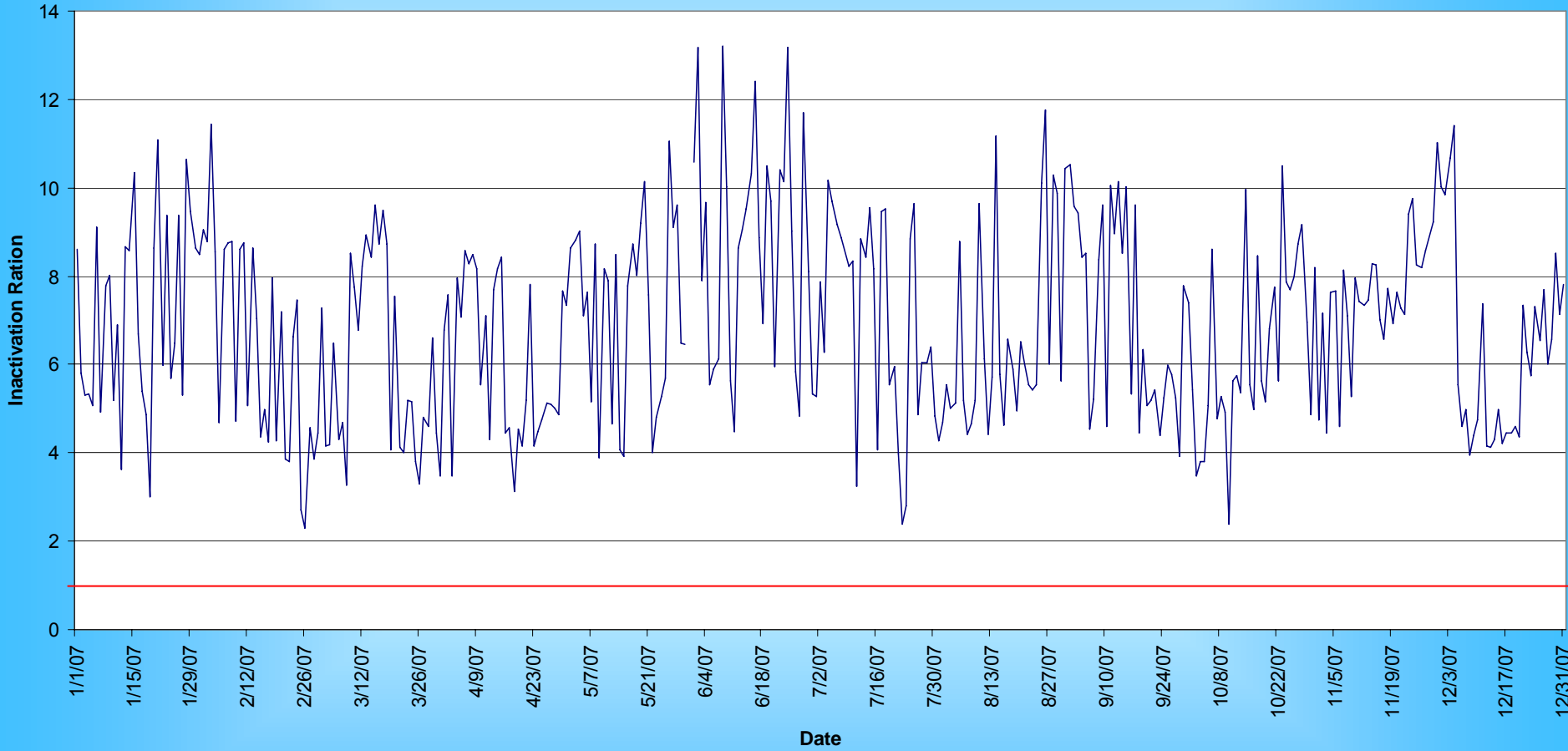


- Location > 50
- Location ≤ 50

Disinfection

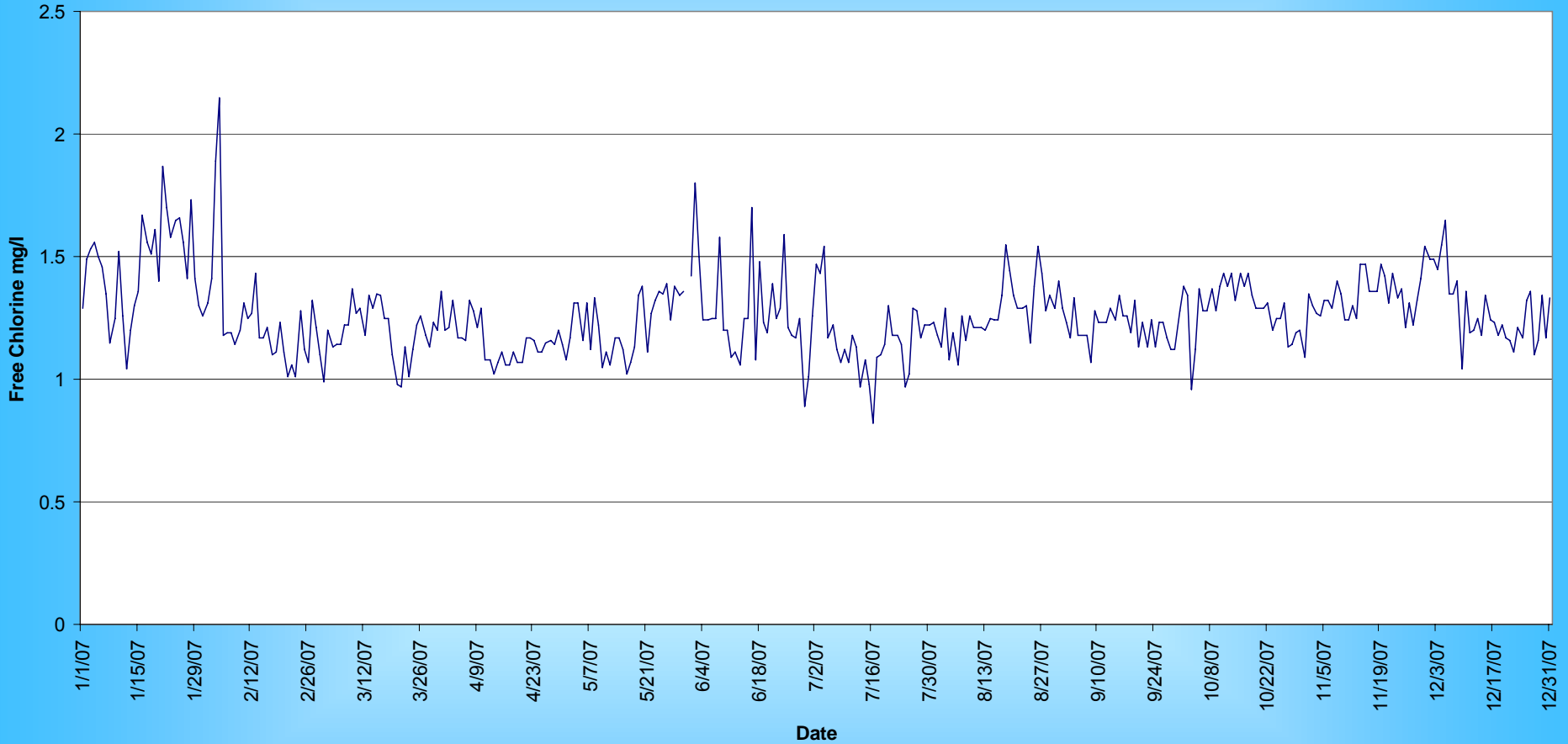
2007 DATA

Inactivation Ratio at Piiholo Plant



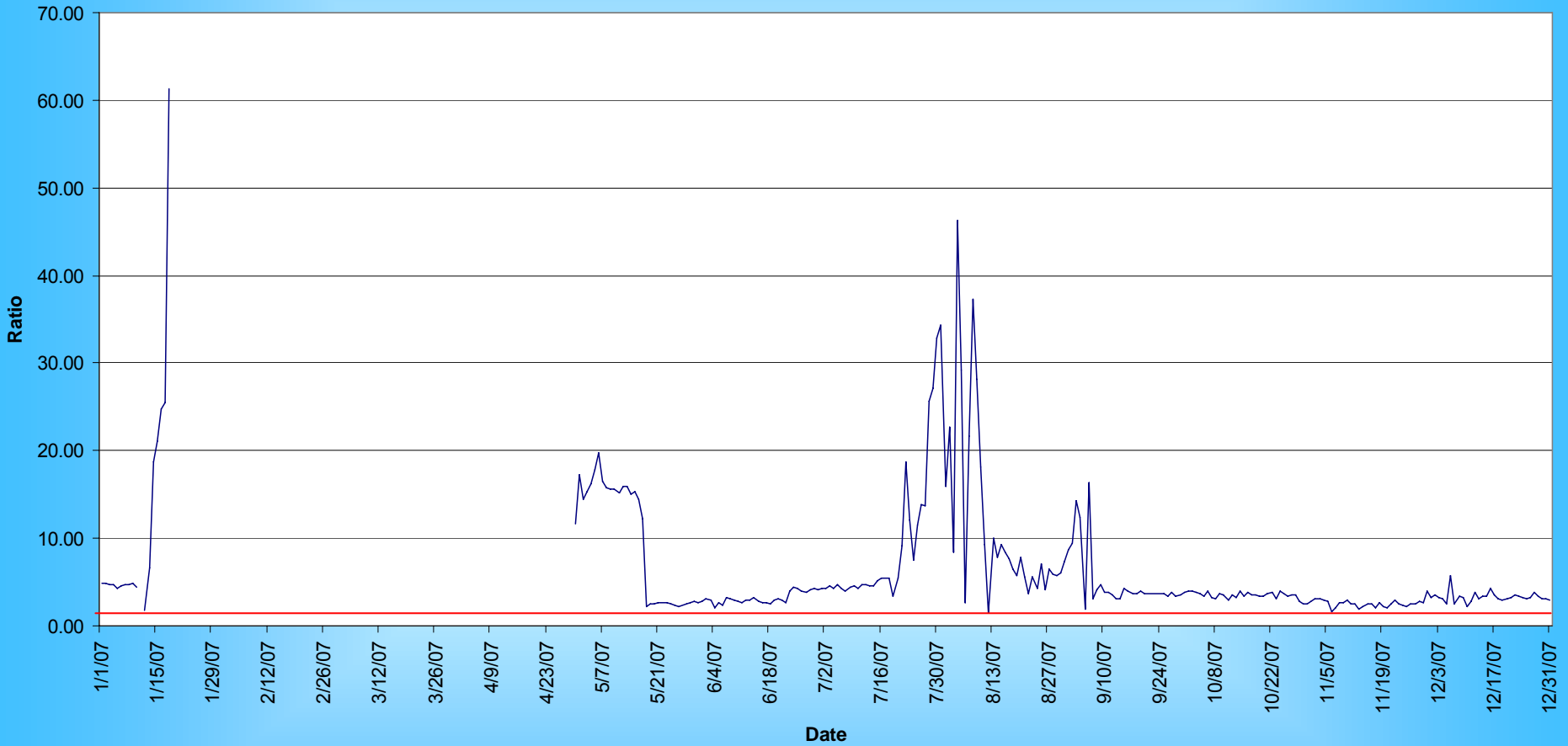
2007 DATA

Chlorine Dosage at Piiholo Plant



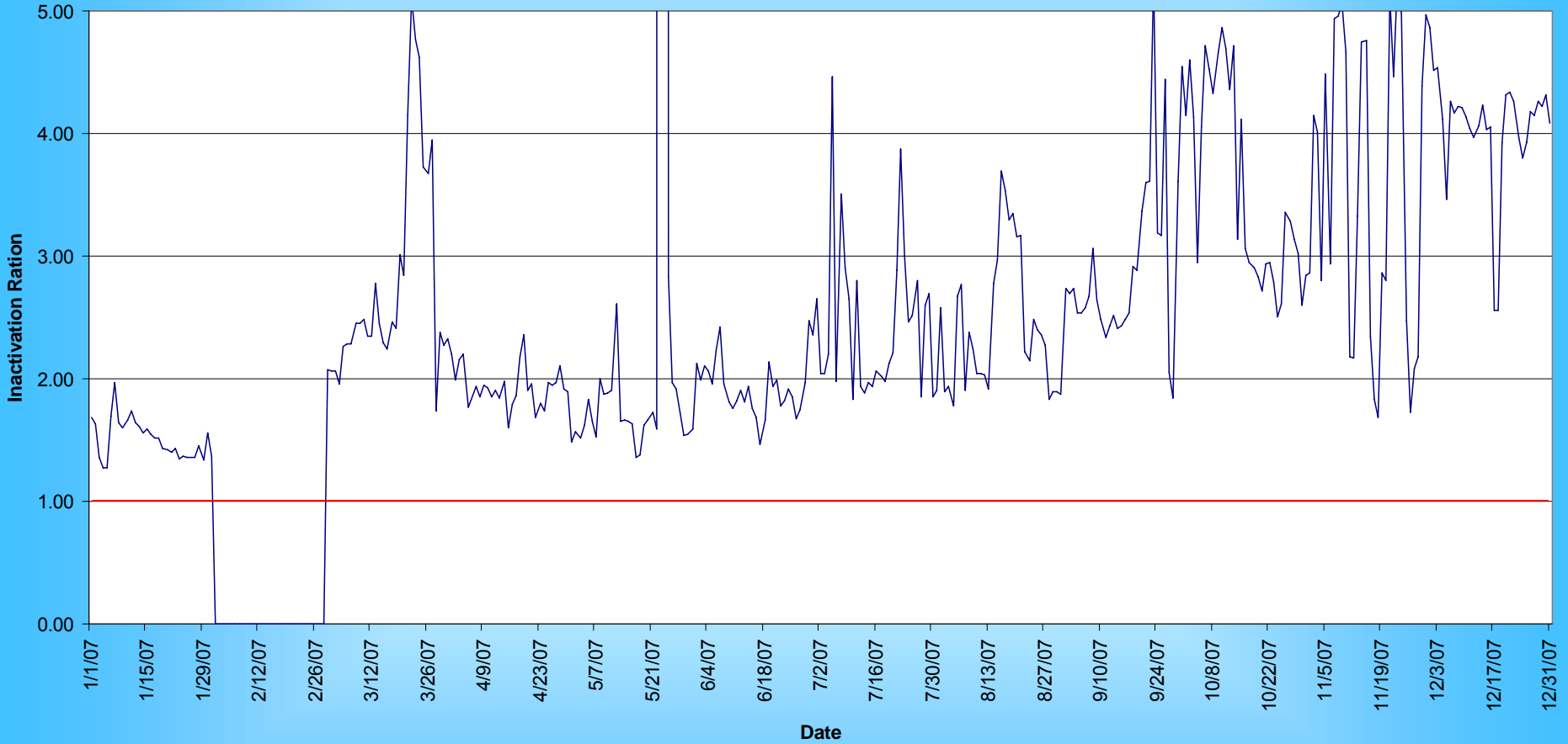
2007 DATA

Inactivation Ratio at Olinda Plant



2007 DATA

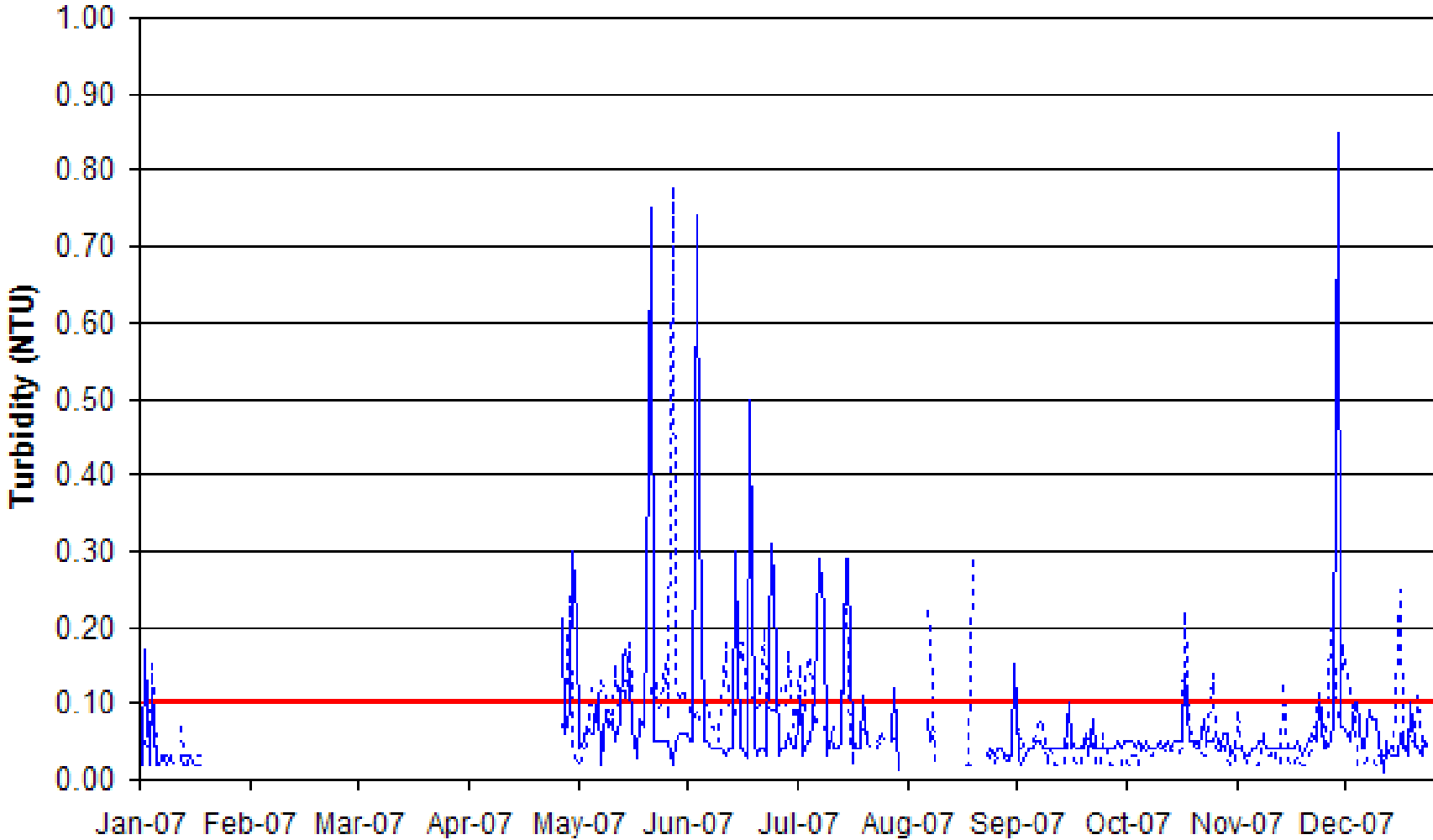
Inactivation Ratios at Kamole Plant



Turbidity

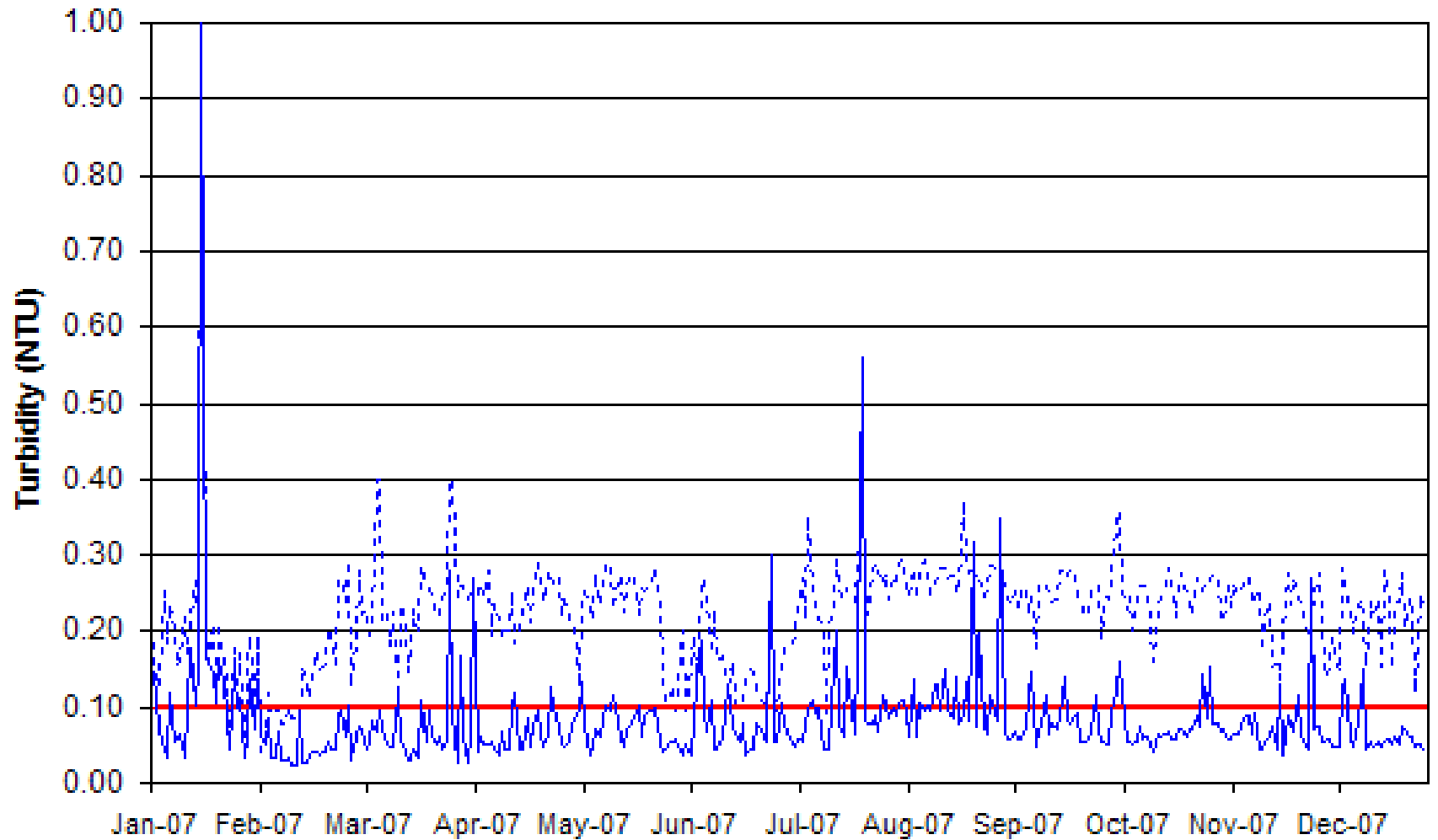
Maximum Daily Filtered Water Turbidity - Olinda WTP

--- Max Filter — Goal — Combined



Maximum Daily Filtered Water Turbidity - Pi'iholo WTP

--- Max Filter — Goal — Combined

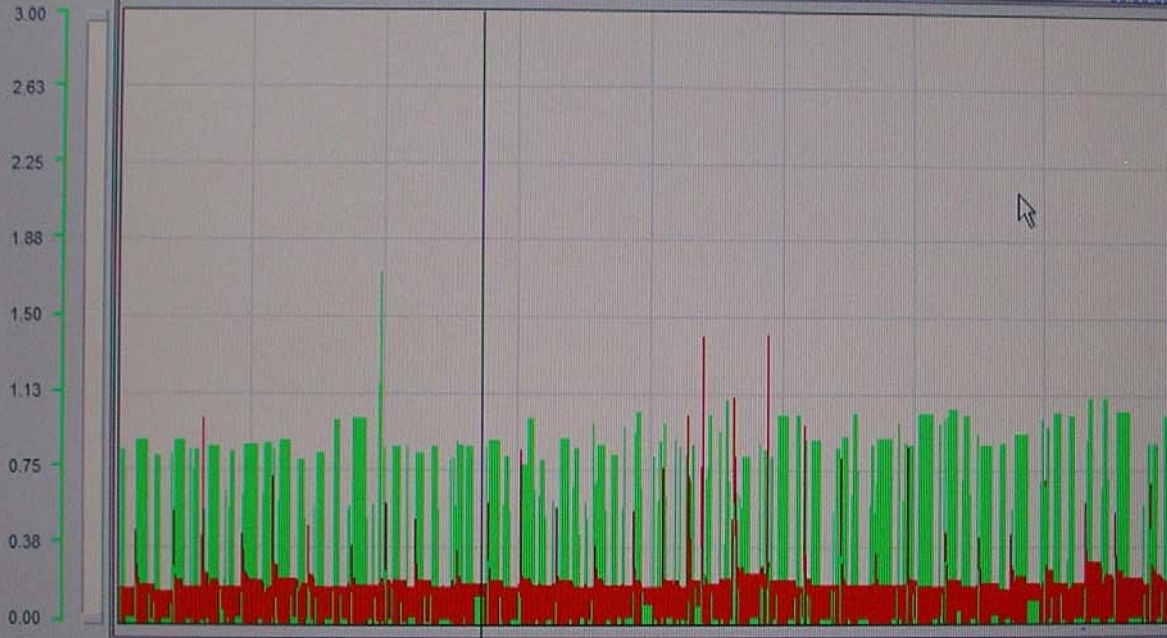


1/18/2008

PIIHOLO WATER TREATMENT FACILITY

10:20:34 AM

Dec 17 00:00:00 Dec 24 12:00:00 Jan 01 00:00:00 Jan 08 12:00:00 Jan 15 00:00:00



FILTERED WATER

0.130 0.020

TURBIDITY

0.066 0.069

05:52:48 00:00:00

Update

HEAD DIFFERENTIAL

1.19 FT

FILTERED WATER FLOWRATE

0.92 MGD

TURBIDITY

0.08 NTU

FILTER 1 HISTORICAL TRENDING

NEXT

- FCP-1 FCP-2 FCP-3 FCP-4 MAIN ELEC. ROOM CHLOR. BLD PUMP STA. LAGOON

- HOW IT WORKS TRENDING **Current Alarms** Acknowledge Summary

SITE LAYOUT

Kahakapao Reservoir

Update Successful Default Query

1/18/2008

PIIHOLO WATER TREATMENT FACILITY

10:16:56 AM



FILTERED WATER
 1.049 0.020

TURBIDITY
 0.134 0.071

08:31:55 00:00:00

Update

HEAD DIFFERENTIAL

1.17 FT

FILTERED WATER FLOW RATE

0.90 MGD

FILTER 1 HISTORICAL TRENDING

TURBIDITY

0.08 NTU

NEXT

- FCP-1
- FCP-2
- FCP-3
- FCP-4
- MAIN
- ELEC. ROOM
- CHLOR. BLD
- PUMP STA.
- LAGOON

- HOW IT WORKS
- TRENDING
- SITE LAYOUT

Current Alarms Acknowledge Summary

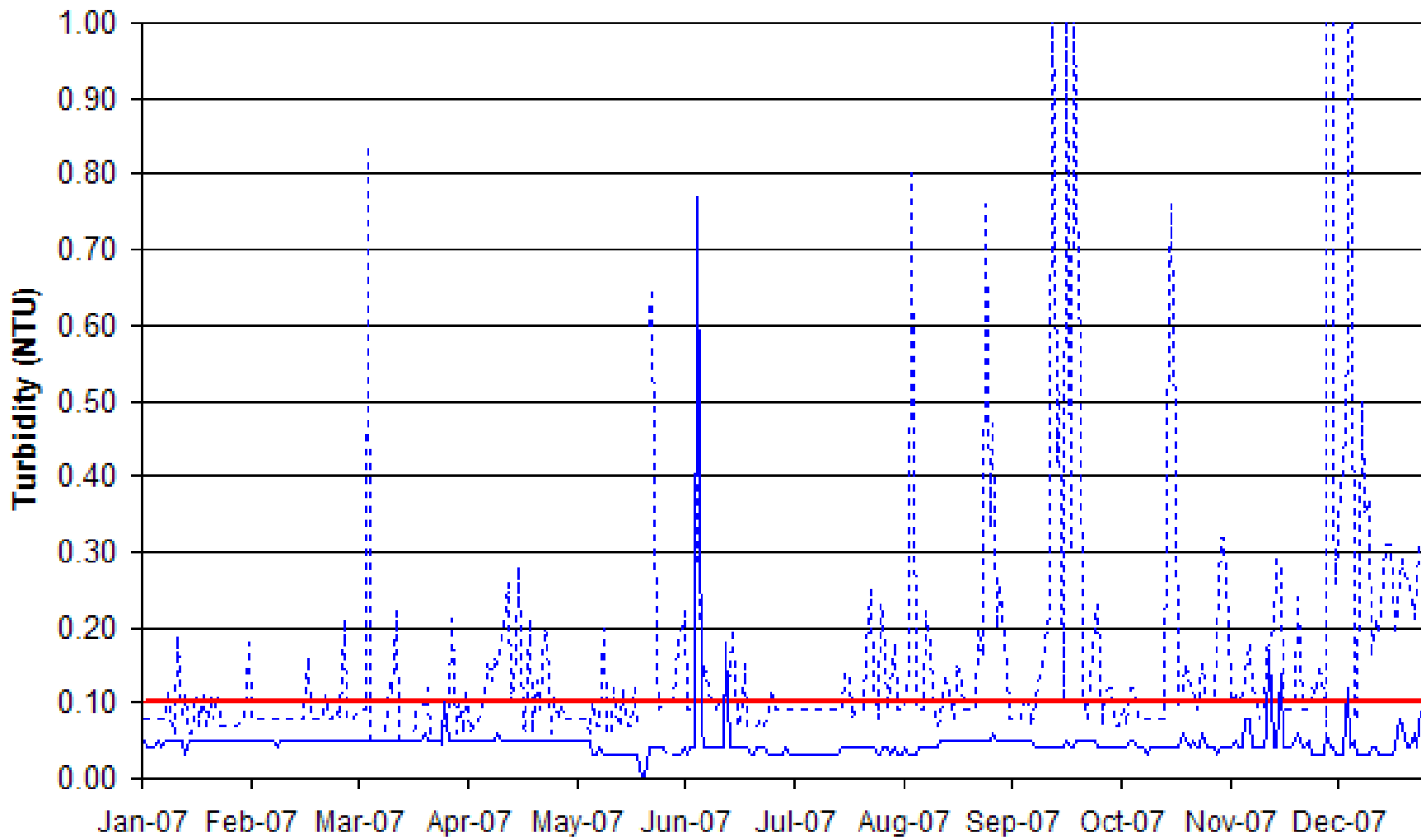
Kahakapao Reservoir

Update Successful Default Query

DELL

Maximum Daily Filtered Water Turbidity - Kamole WTP

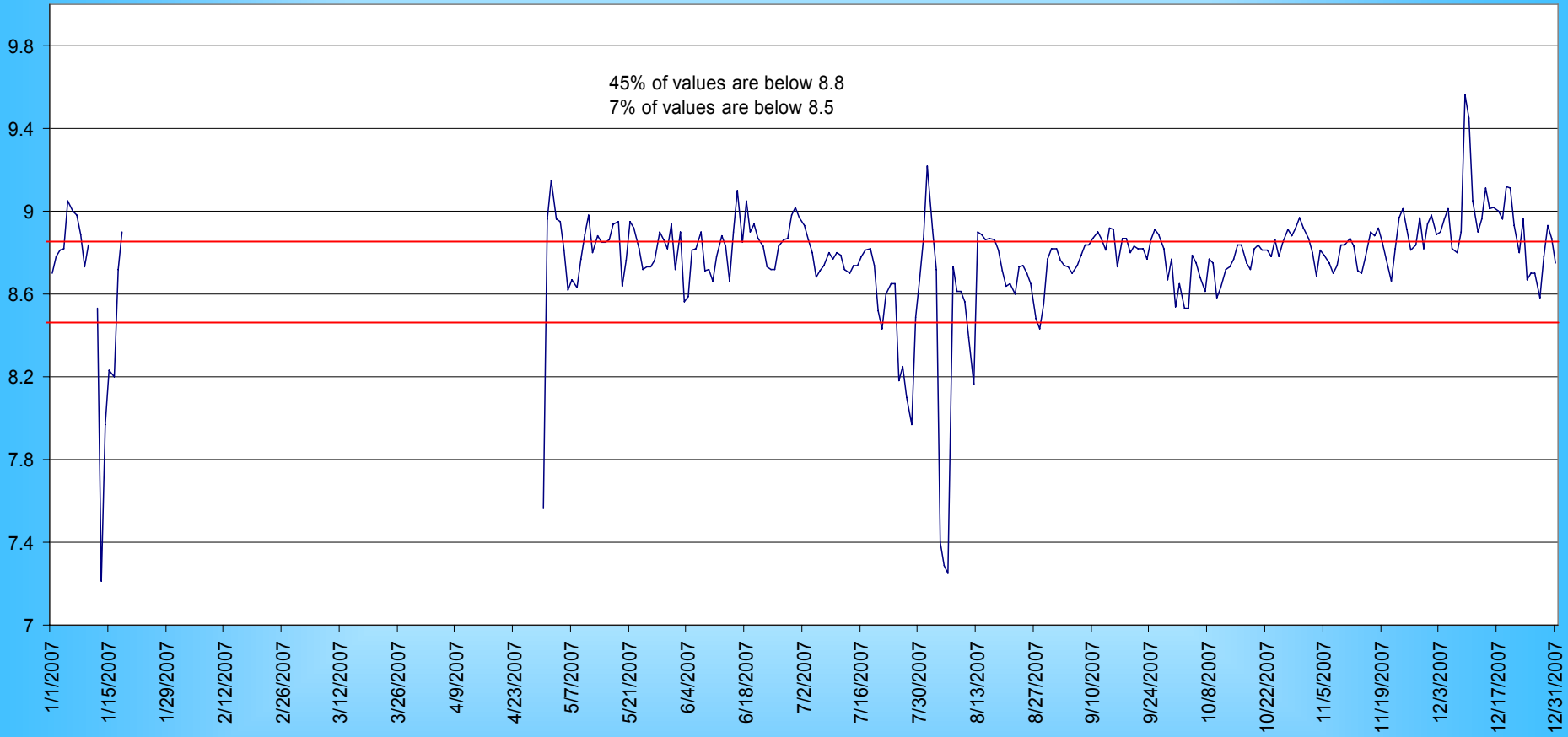
--- Max Filter — Goal — Combined



Stability

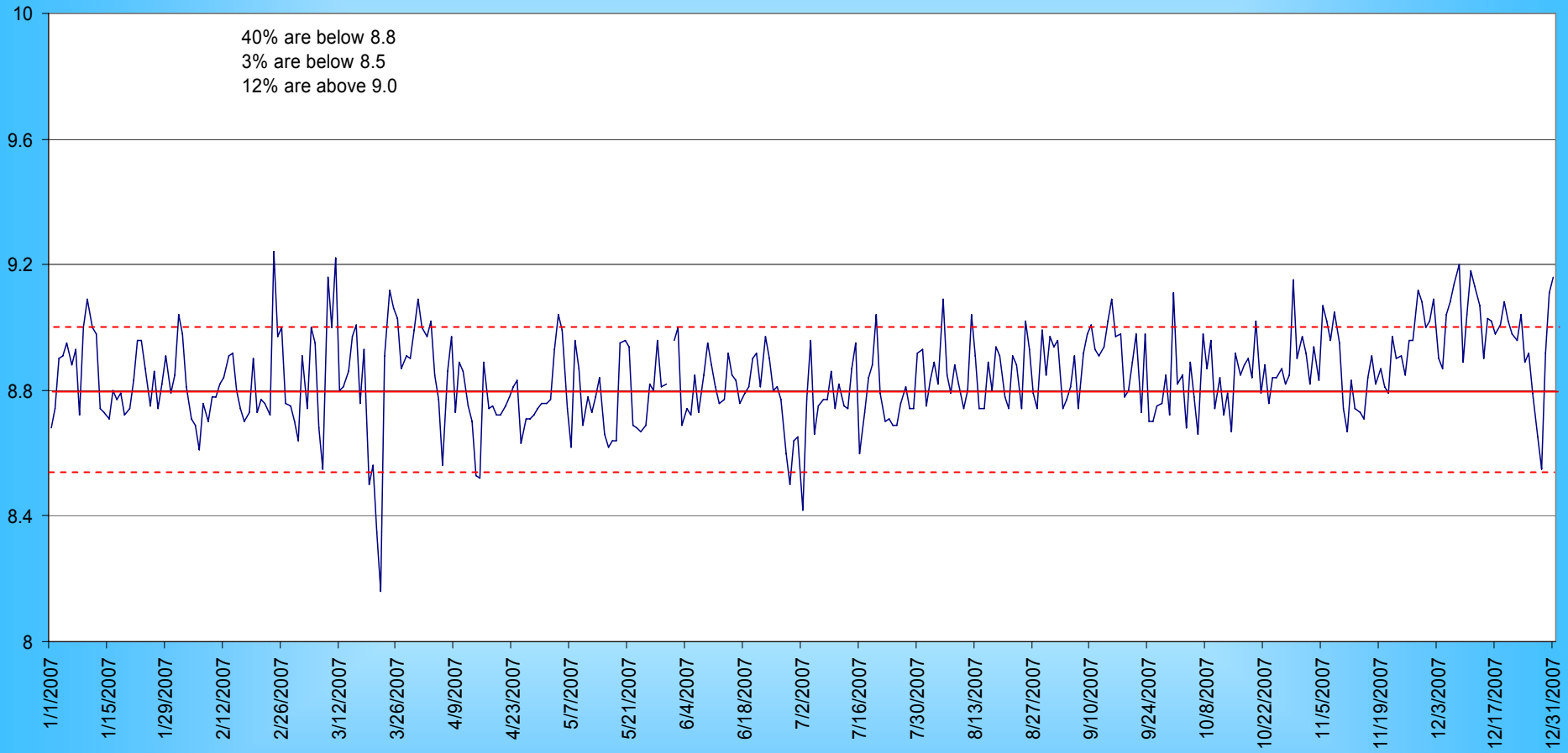
2007 DATA

pH at Olinda plant



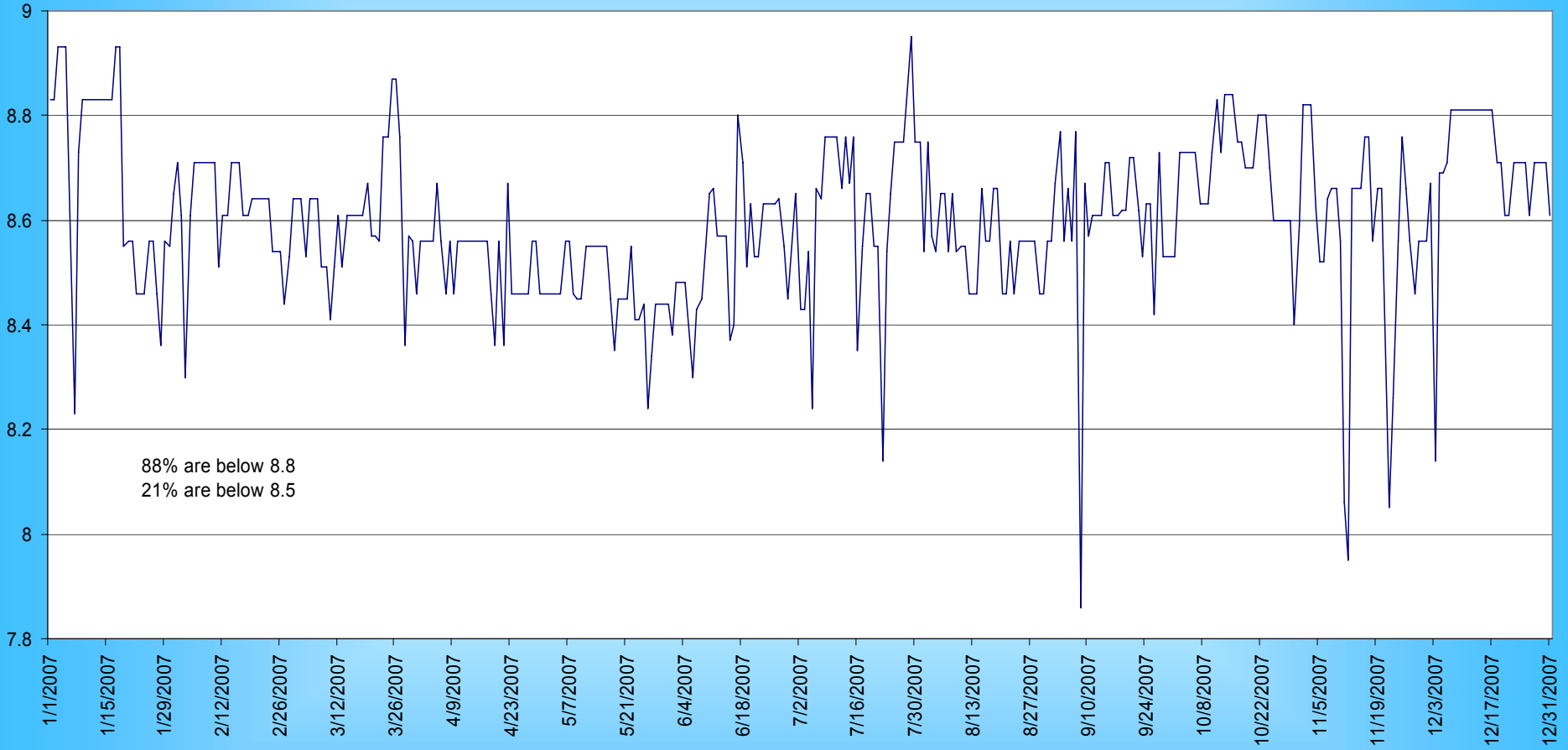
2007 DATA

pH at Piiholo plant



2007 DATA

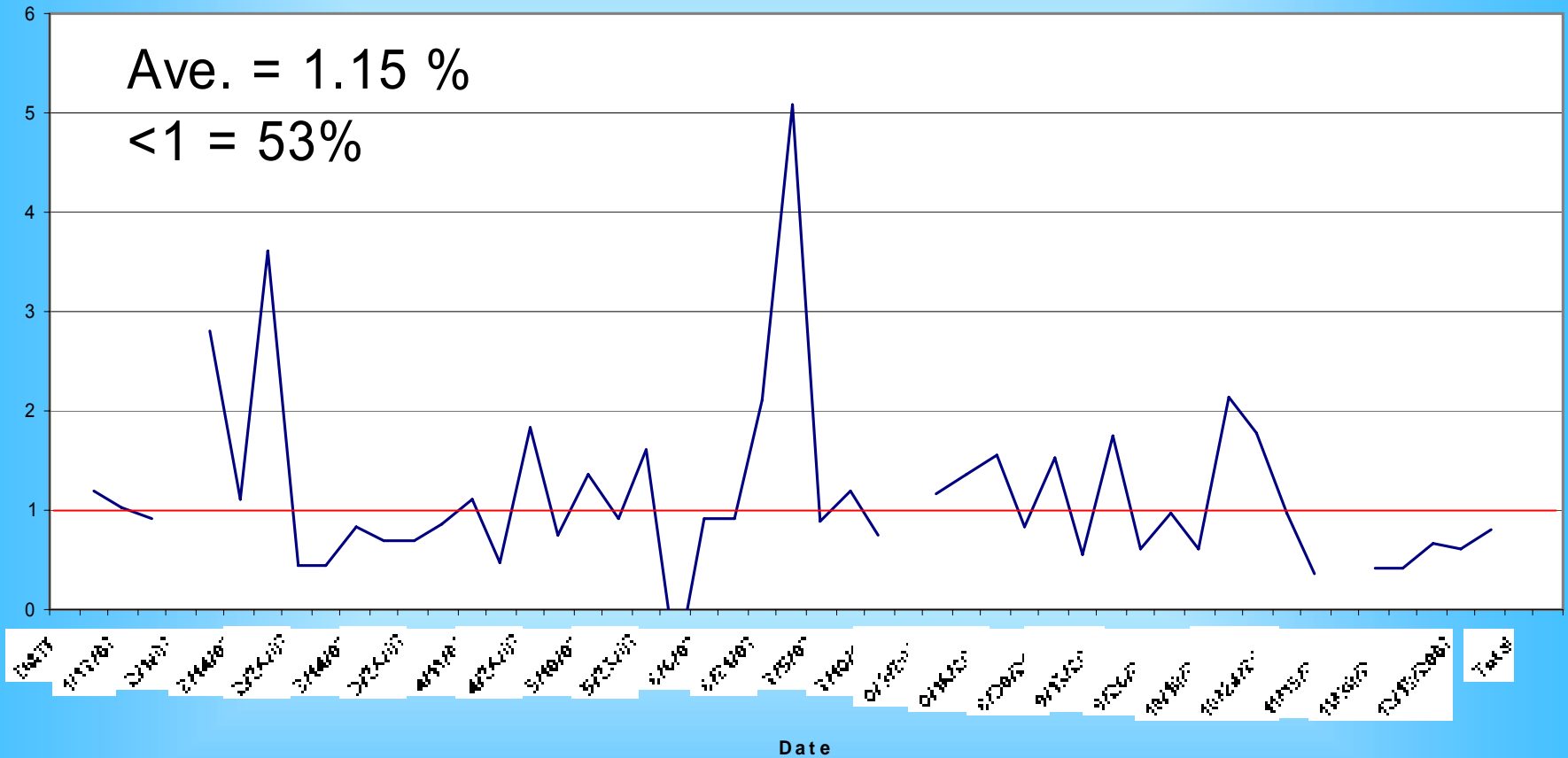
pH at Kamole plant



Disinfection Byproducts

Pi`iholo TOC Removal Ratio

TOC removal ratio

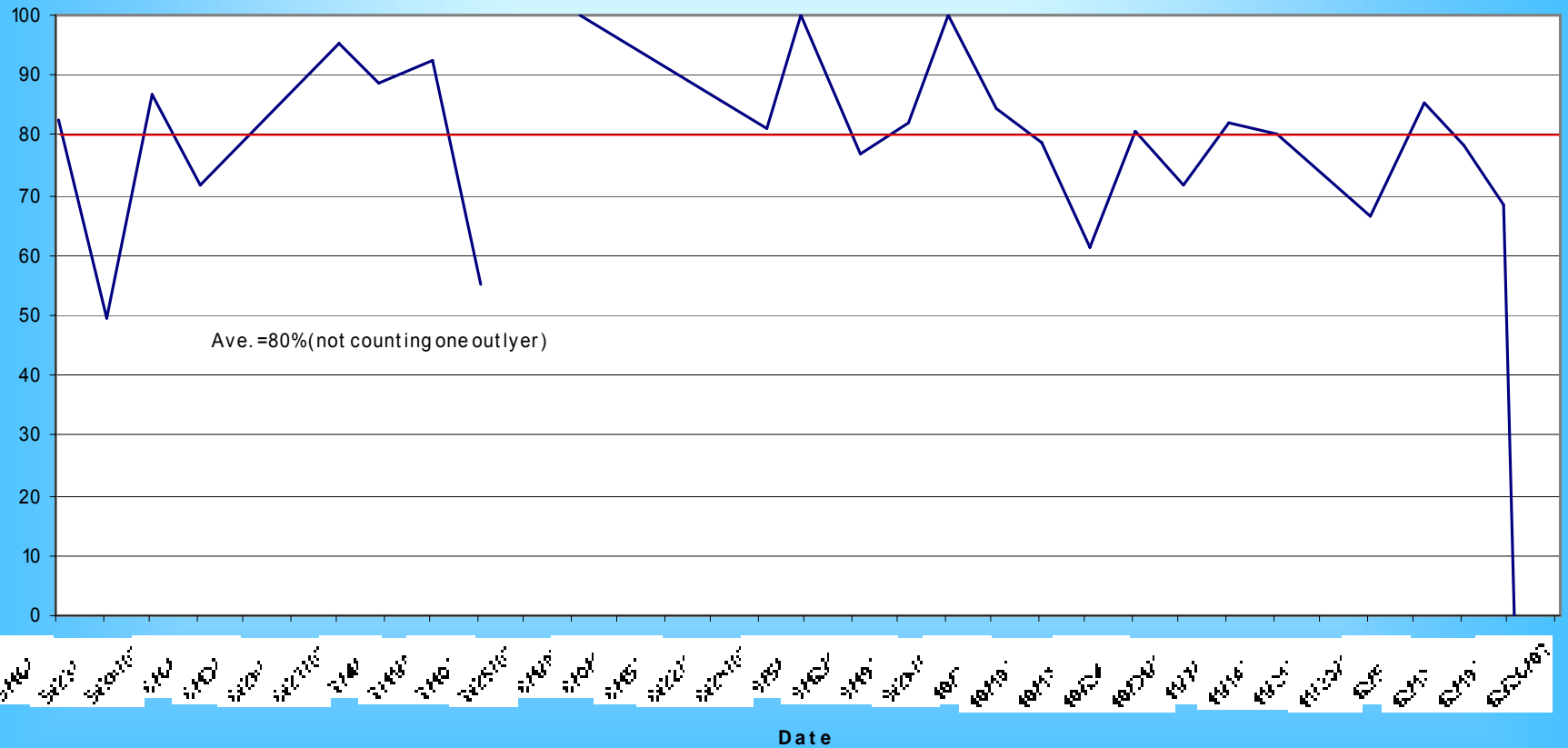


2007 DATA

2007 DATA

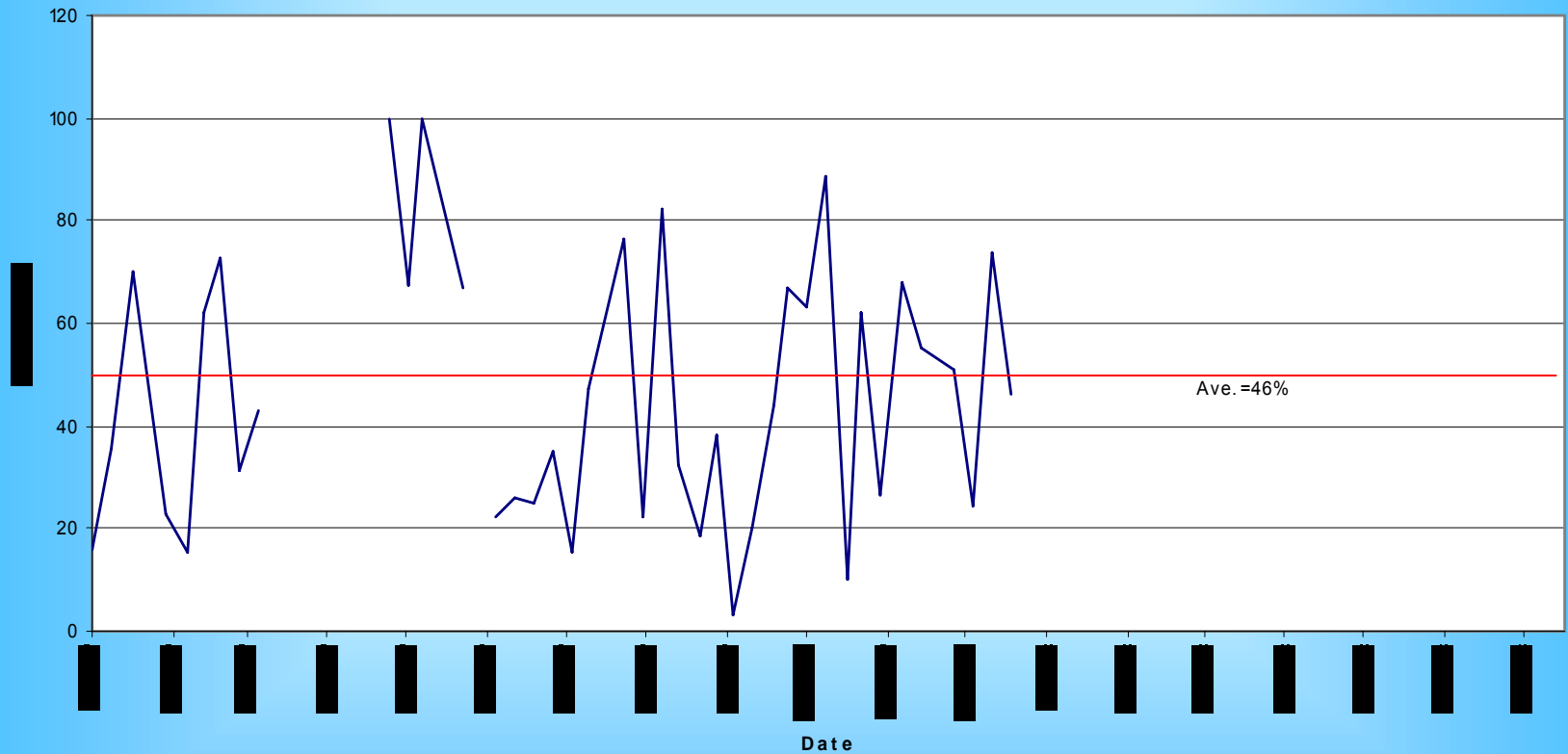
Olinda TOC Removal Ratio

Olinda TOC removal



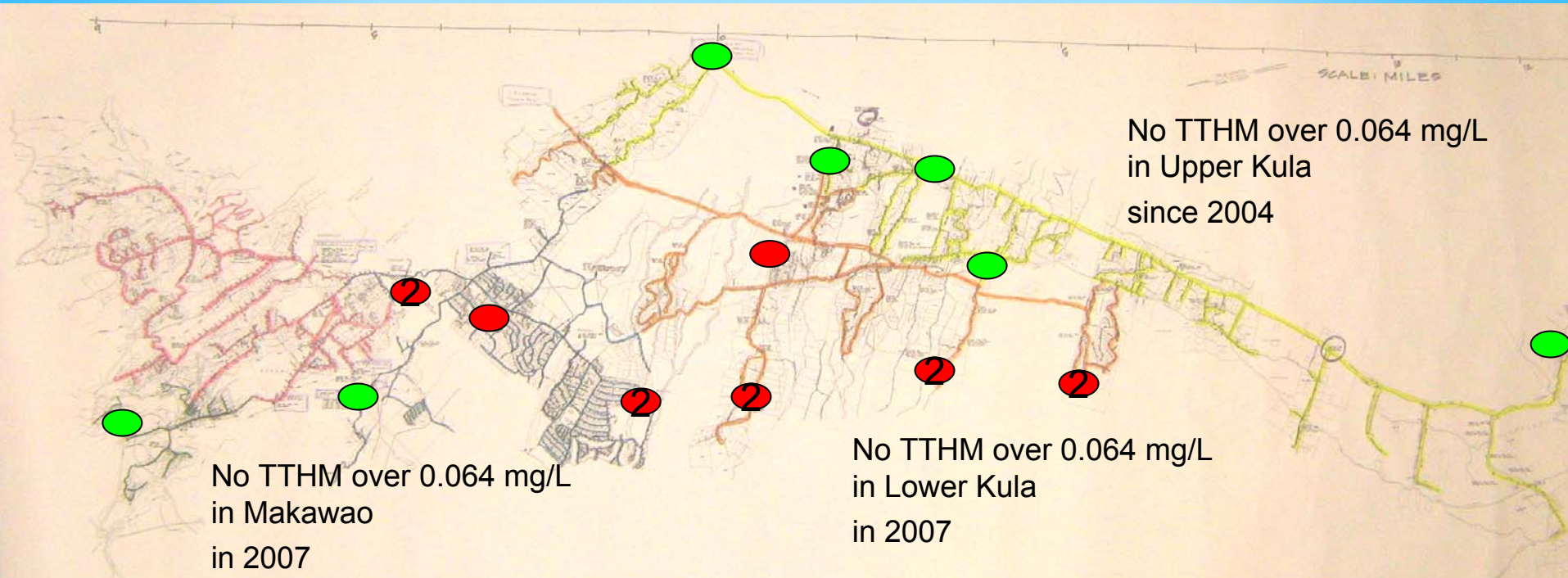
Kamole TOC Removal

Kamole TOC Removal



2007 DATA

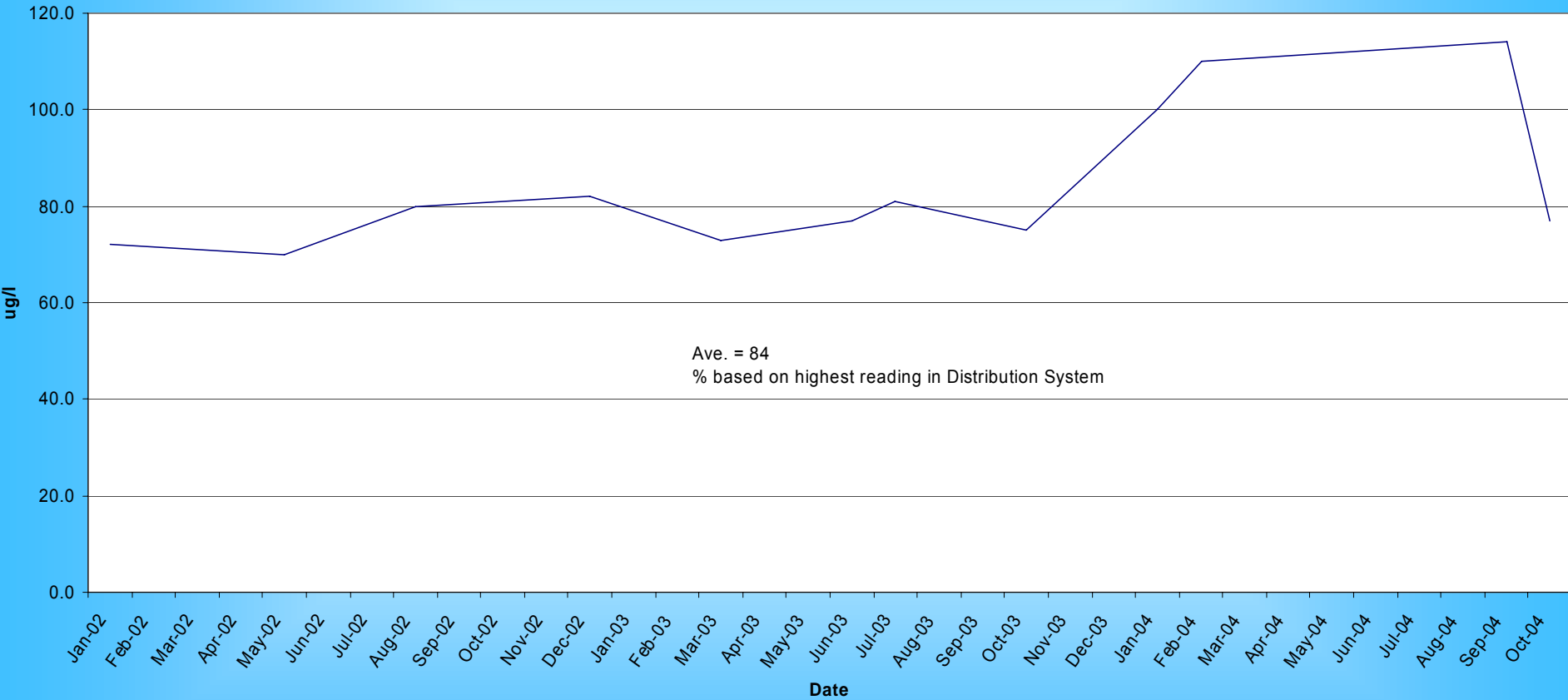
Historical Disinfection Byproducts TTHM 2005 & Later



- No sample 2005-Present over 0.064 (80% of MCL)
- One sample 2005-Present over 0.064 (80% of MCL)
- ② Two or more samples 2005-Present over 0.064 (80% of MCL)

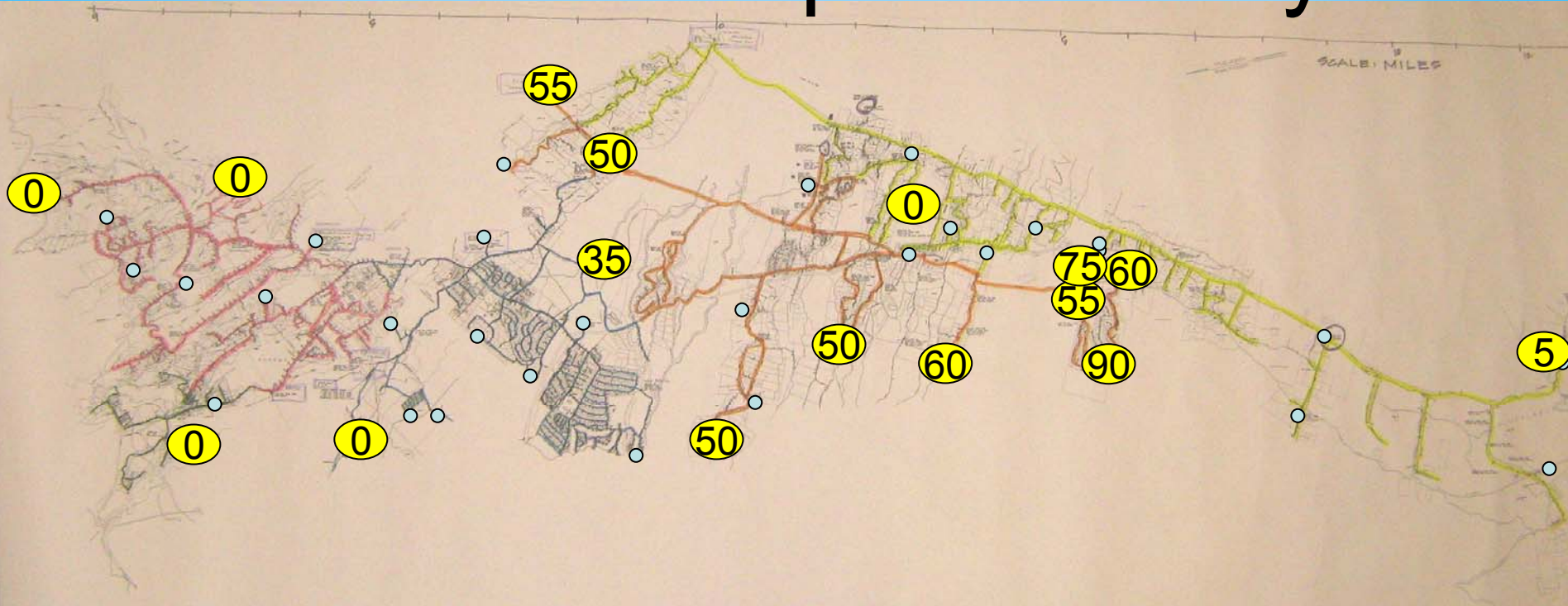
Plant THM as % of Highest Distribution THM

% TTHMs Created at Piihola plant

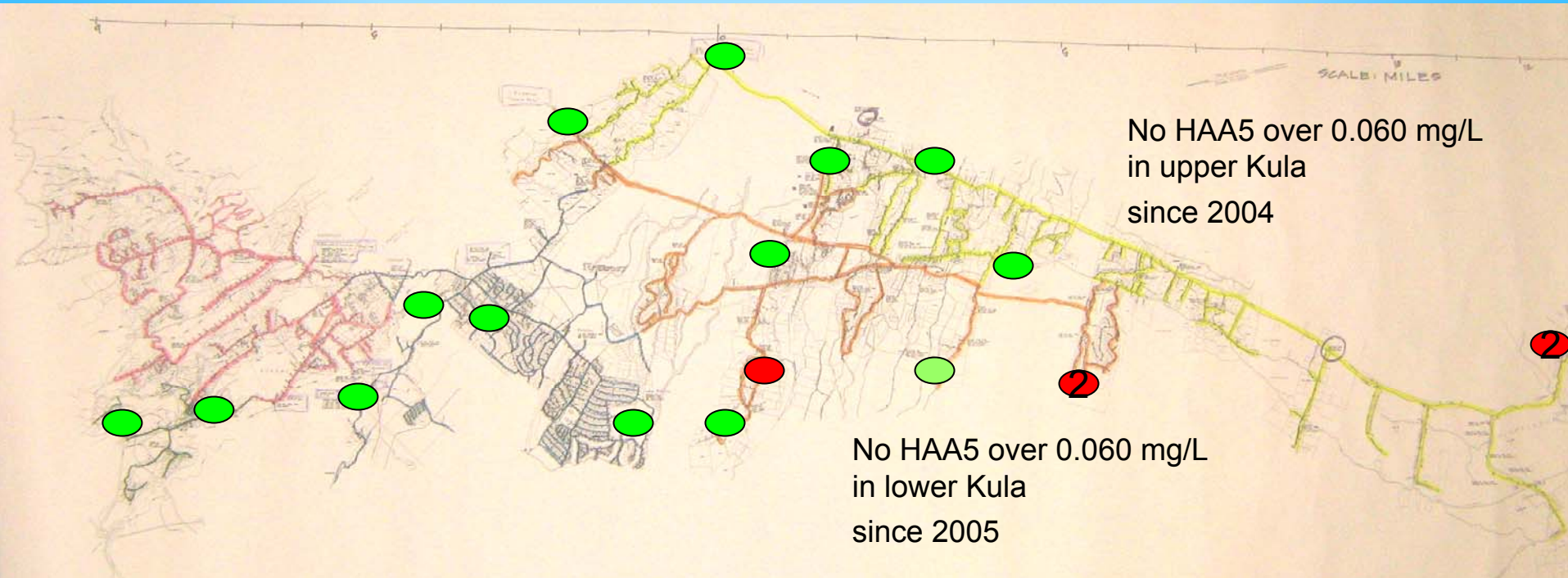


2007 DATA

TTHM Plus Special Study



Historical Disinfection Byproducts HAA5



- No sample since 2002 over 0.060
- One sample since 2002 over 0.060
- Two or more samples since 2002 over 0.060