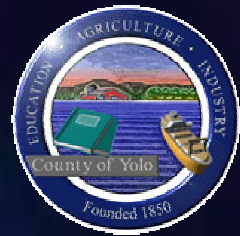
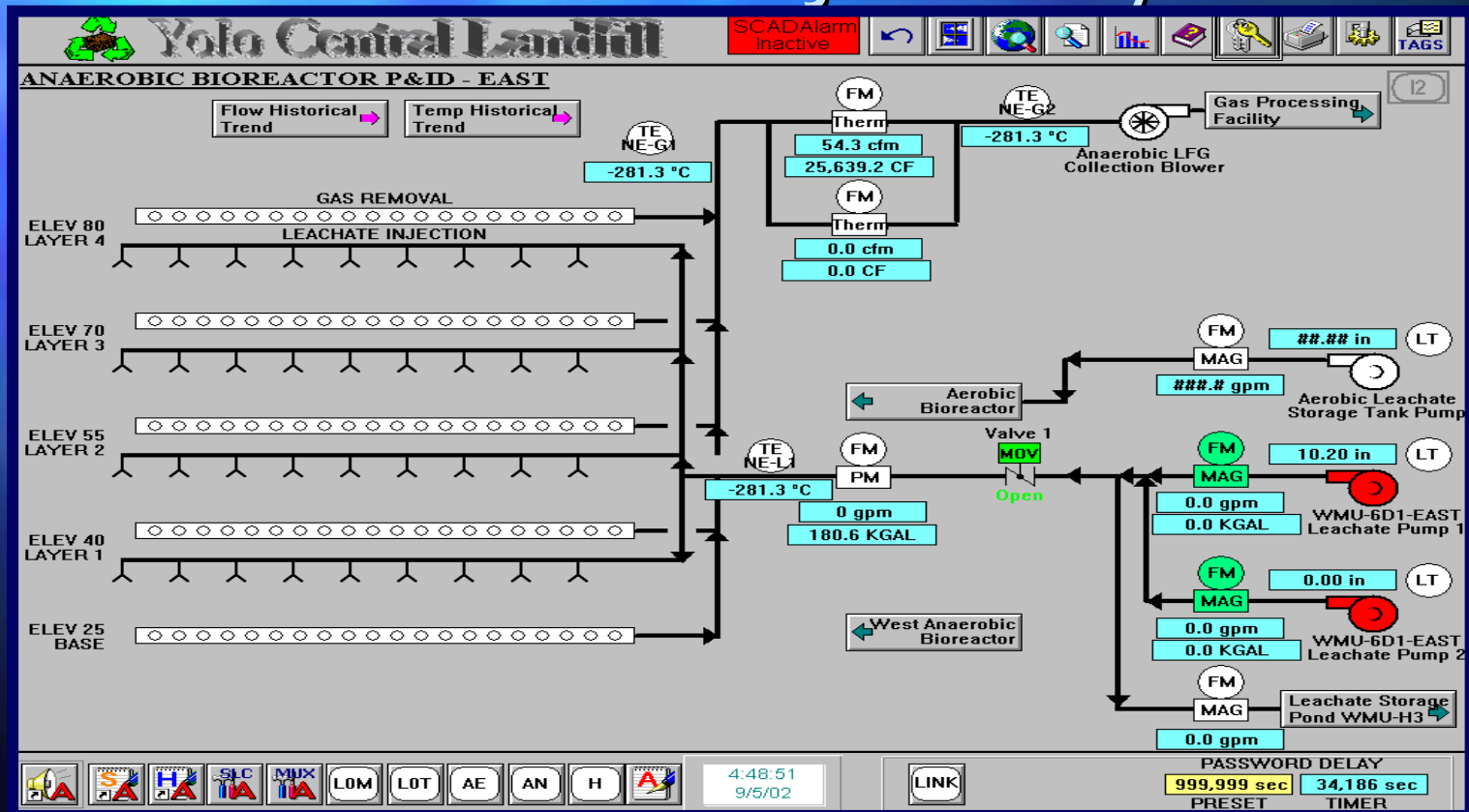


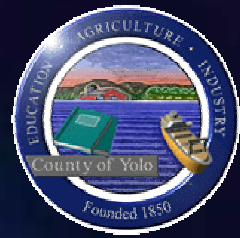
US EPA ARCHIVE DOCUMENT



Achievements to Date

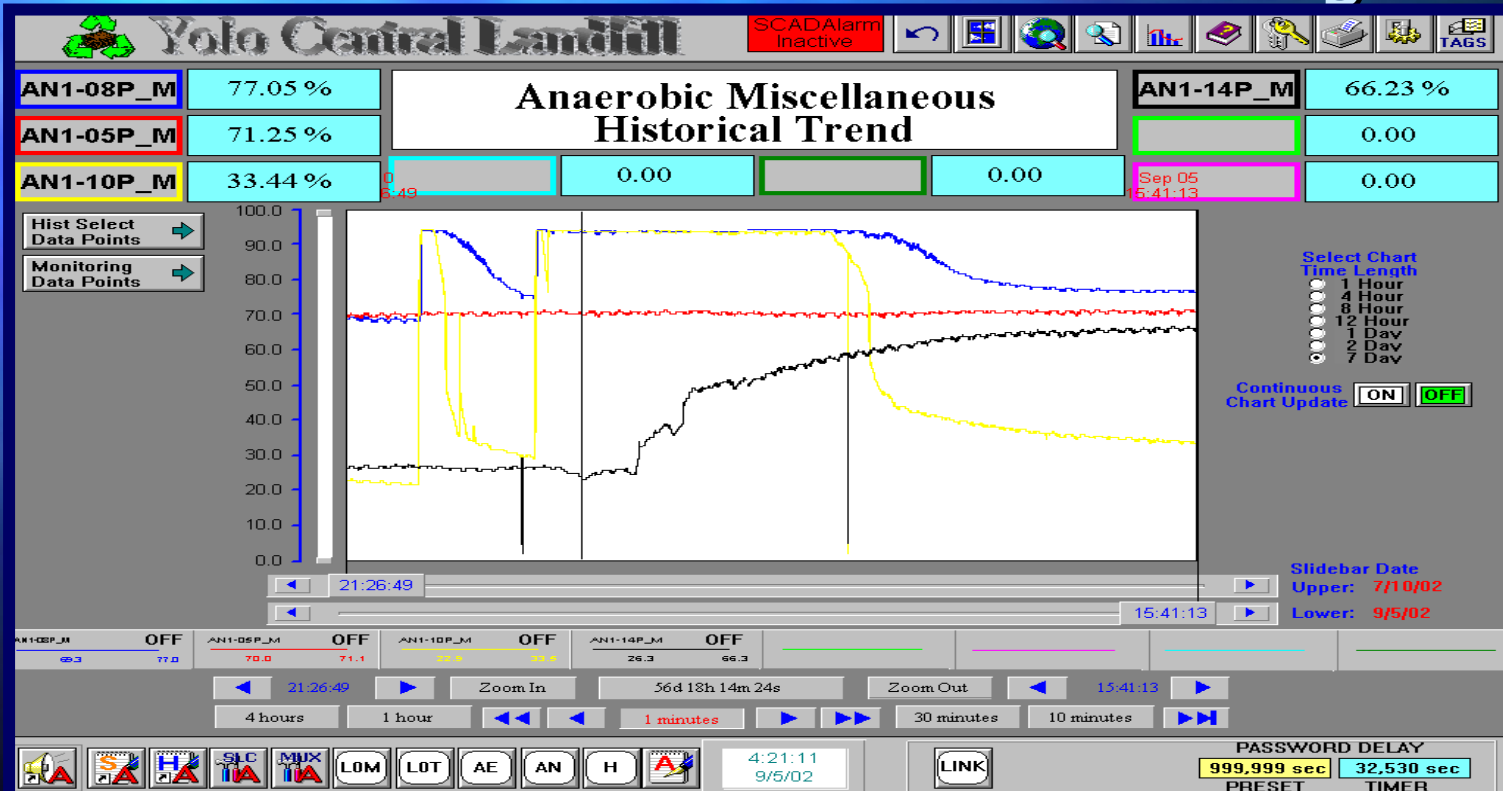
■ SCADA- Leachate Injection System

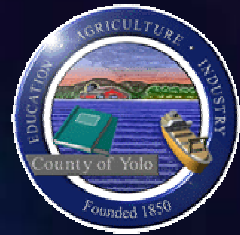




Achievements to Date

■ SCADA- Real time data monitoring





Achievements to Date

■ SCADA- Leachate Injection System Control

Yolo Central Landfill SCADA Alarm Inactive

ANAEROBIC LEACHATE INJECTION CONTROL A Layer 3 & 4 Control Max # of Solenoid Valves Open at any Time 1

LAYER 1					
	Call	Enable/Disable	Schedule A Start Time	Schedule B Start Time	Schedule A&B Duration
Valve 1	Close	En Dis	0:00	0:00	0 min
Valve 2	Close	En Dis	0:00	0:00	0 min
Valve 3	Close	En Dis	0:00	0:00	0 min
Valve 4	Close	En Dis	0:00	0:00	0 min
Valve 5	Close	En Dis	0:00	0:00	0 min
Valve 6	Close	En Dis	0:00	0:00	0 min
Valve 7	Close	En Dis	0:00	0:00	0 min
Valve 8	Close	En Dis	0:00	0:00	0 min

LAYER 2					
	Call	Enable/Disable	Schedule A Start Time	Schedule B Start Time	Schedule A&B Duration
Valve 1	Close	En Dis	0:00	0:00	0 min
Valve 2	Close	En Dis	0:00	0:00	0 min
Valve 3	Close	En Dis	0:00	0:00	0 min
Valve 4	Close	En Dis	0:00	0:00	0 min
Valve 5	Close	En Dis	0:00	0:00	0 min
Valve 6	Close	En Dis	0:00	0:00	0 min
Valve 7	Close	En Dis	0:00	0:00	0 min

Central Control

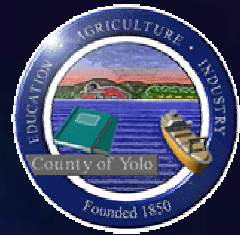
Auto/Manual	Manual On/Off
Auto	ON OFF
Auto	ON OFF
Auto	ON OFF
Auto	ON OFF
Auto	ON OFF
Auto	ON OFF
Auto	ON OFF
Auto	ON OFF

SLC Time 0:00

4:47:01 9/5/02

LINK

PASSWORD DELAY
999,999 sec PRESET 34,077 sec TIMER



Achievements to Date

■ SCADA- Data export to database

Yolo Central Landfill SCADA Alarm Inactive

HISTORICAL DATA EXPORT B - ANAEROBIC TEMP

Base Layer Historical Dump Anaerobic Moist Historical Dump

Press Button to Select Tagnames

1 Start Date
Year has to be between 1997 and 2030!
Month: 09 Day: 04 Year: 2002
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6 7 8 9

2 Duration Time
5
Seconds Minutes Hours Days Weeks
[ex. 31 days for January]

3 Interval Time
1
Seconds Minutes Hours Days Weeks
Max 4 Weeks
[ex. every 5 minutes]

4 Start Time
5:00 p.m.

5 Filename (8 Letter Max)
C:\TEMP\ZTEMP.CSV
Setup Summary
Start Date: 09/04/02 Start Time: 17:00:00 Duration: 5m Interval: 1m

tags selected 0
"SDATE,STIME"
...

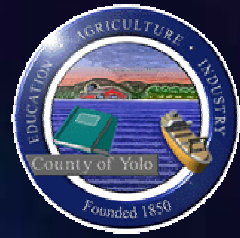
6 Tagnames:
AN1-01T °C AN1-11T °C AN2-01T °C AN2-11T °C AN3-01T °C AN3-11T °C
AN1-02T °C AN1-12T °C AN2-02T °C AN2-12AT °C AN3-02T °C AN3-12T °C
AN1-03T °C AN1-13T °C AN2-03T °C AN2-12BT °C AN3-03T °C AN3-13T °C
AN1-04T °C AN1-14T °C AN2-04T °C AN2-13T °C AN3-04T °C
AN1-05T °C AN1-15T °C AN2-05T °C AN2-14T °C AN3-05T °C
AN1-06T °C AN1-16T °C AN2-06T °C AN2-15T °C AN3-06T °C
AN1-07T °C AN1-17T °C AN2-07T °C AN3-07T °C
AN1-08T °C AN1-18T °C AN2-08T °C AN3-08T °C
AN1-09T °C AN2-09T °C AN3-09T °C
AN1-10T °C AN2-10T °C AN3-10T °C

7 EXPORT **8** RESET

EXPORT HISTORICAL FILES
1. SELECT START DATE (MONTH, DATE, YEAR).
2. SELECT DURATION TIME UNITS, THEN TIME.
3. SELECT INTERVAL TIME UNITS, THEN TIME.
4. SELECT START TIME.
5. SELECT DIRECTORY & FILENAME TO SAVE TO.
6. SELECT TAGNAMES TO EXPORT. (8 MAX).
7. PRESS "EXPORT" BUTTON.
8. TO CLEAR SELECTED TAGS, PRESS "RESET".

4:49:54 9/5/02 LINK

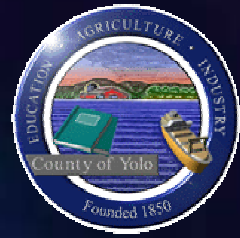
PASSWORD DELAY
999,999 sec PRESET 34,249 sec TIMER



Achievements to Date

- First waste sampling and BMP testing





Achievements to Date

- First & second waste settlement survey



Achievements to Date

- Fugitive methane emissions monitoring using FID/PID Vapor Analyzer (FOXBORO TVA-1000)

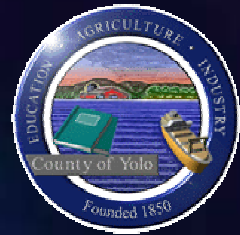




Achievements to Date

- Landfill gas sampling (LANDTECH GEM-500) and laboratory testing
- Leachate sampling and laboratory testing





Full-scale project results

