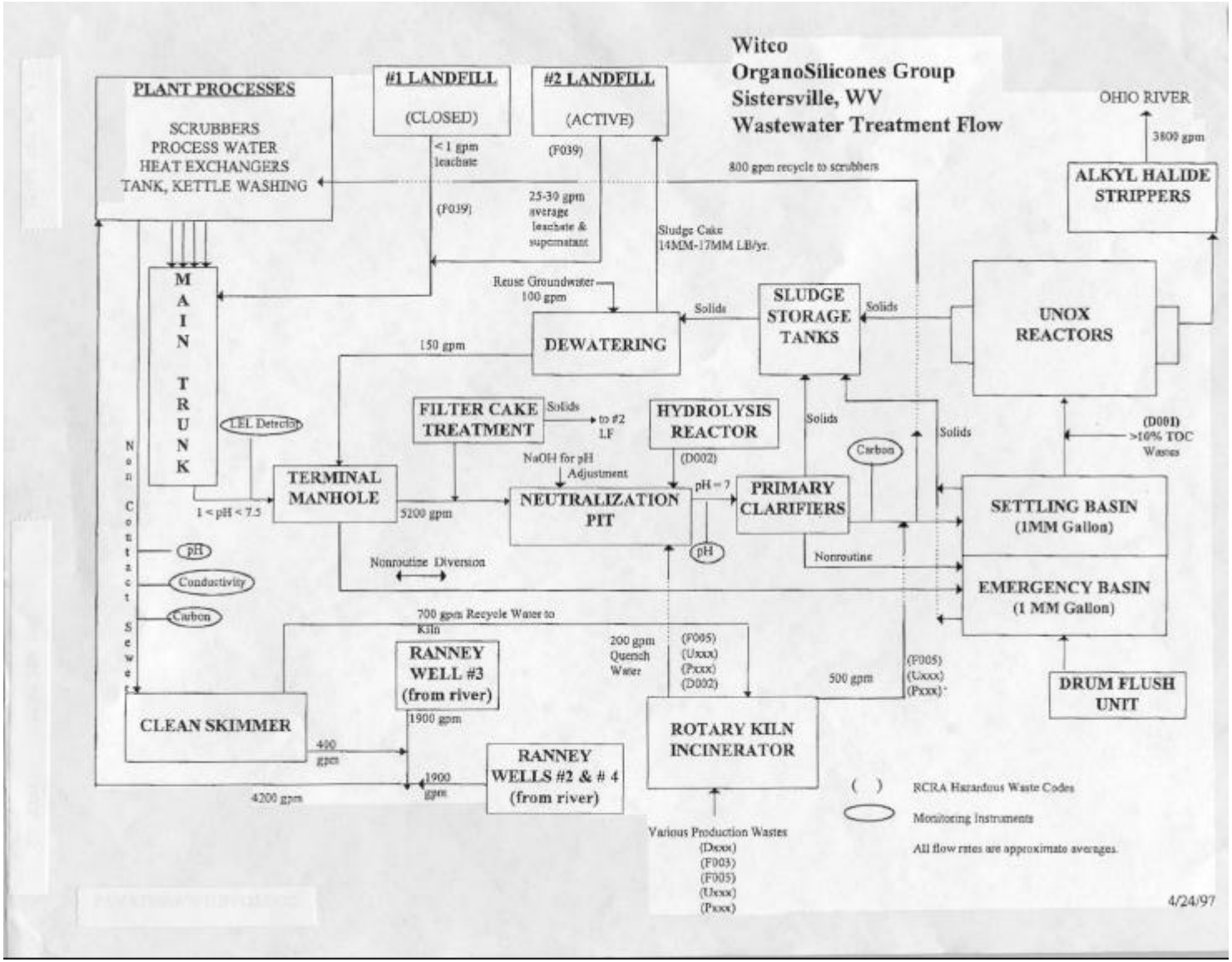
Appendix A


Witco
OrganoSilicones Group
Sistersville, WV
Wastewater Treatment Flow
PLANT PROCESSES
SCRUBBERS
PROCESS WATER
HEAT EXCHANGERS
TANK, KETTLE WASHING
#1 LANDFILL
(CLOSED)
#2 LANDFILL
(ACTIVE)
< 1 gpm leachate
(F039)
(F039)
25-30 gpm average leachate & supernatant
800 gpm recycle to scrubbers
OHIO RIVER
3800 gpm
ALKYL HALIDE STRIPPERS
Sludge Cake 14MM-17MM LB/yr.
Reuse Groundwater 100 gpm
MAIN TRUNK
Solids
SLUDGE STORAGE TANKS
Solids
UNOX REACTORS
150 gpm
DEWATERING
FILTER CAKE TREATMENT
Solids
to #2 LF
HYDROLYSIS REACTOR
(D002)
Solids
Solids
(D001) >10% TOC Wastes
Carbon
LEL Detector
NaOH for pH Adjustment
TERMINAL MANHOLE
NEUTRALIZATION PIT
pH = 7
PRIMARY CLARIFIERS
SETTLING BASIN (1MM Gallon)
1 < pH < 7.5
5200 gpm
pH
pH
Nonroutine
Nonroutine Diversion
EMERGENCY BASIN (1 MM Gallon)
Non Contact Sewer
Conductivity
Carbon
700 gpm Recycle Water to Kiln
200 gpm Quench Water
(F005) (Uxxx) (Pxxx) (D002)
500 gpm
(F005) (Uxxx) (Pxxx)
DRUM FLUSH UNIT
RANNEY WELL #3 (from river)
CLEAN SKIMMER
1900 gpm
400 gpm
ROTARY KILN INCINERATOR
RANNEY WELLS #2 & # 4 (from river)
1900 gpm
4200 gpm
( ) RCRA Hazardous Waste Codes
Monitoring Instruments
All flow rates are approximate averages.
Various Production Wastes
(Dxxx)
(F003)
(F005)
(Uxxx)
(Pxxx)
4/24/97