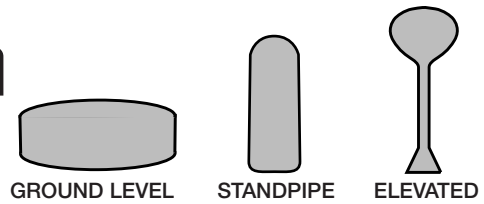


Tideflex® Mixing System

FOR FINISHED WATER STORAGE FACILITIES

DESIGN DATA SHEET



I. GENERAL INFORMATION		TIDEFLEX REPRESENTATIVE:	
RESERVOIR/TANK NAME:		PROJECT LOCATION:	
OWNER COMPANY NAME:		OWNER COMPANY ADDRESS:	
PHONE:	FAX:		
OWNER CONTACT:	E-MAIL:		
CONSULTING ENGINEERING FIRM:		CONSULTANT'S ADDRESS:	
PHONE:	FAX:		
ENGINEER CONTACT:	E-MAIL:		

COMPLETE WITH AS MUCH INFORMATION KNOWN OR APPLICABLE

II. SYSTEM INFORMATION

INSTALLATION:			
NEW TANK	EXISTING TANK	TANK ON SCADA?	Yes No
WATER SOURCE:			
SURFACE WATER	RECLAIMED WATER		
GROUND WATER			
TYPE OF DISINFECTION:			
CHLORINE	CHLORAMINE		
CHLORINE DIOXIDE	OZONE		
OPERATION:		MODE:	
DISTRIBUTION SYSTEM RESERVOIR		FILL & DRAW	
CLEARWELL		FLOW THRU	
COMBINATION			
HIGH WATER LEVEL SHUT-OFF CONTROL:			
BY ALTITUDE VALVE		NONE, FLOATS ON SYSTEM	
BY PRESSURE SWITCH			

III. RESERVOIR/TANK DATA

TYPE OF RESERVOIR/TANK:			
GROUND LEVEL			
CIRCULAR	}	AT GRADE	
RECTANGULAR		BURIED	
IRREGULAR		SEMI-BURIED	
STANDPIPE			
ELEVATED TANK	DRY RISER	WET RISER	
SPHEROID	TOROPILLAR		
TOROSPHERICAL	DOUBLE ELLIPSOIDAL		
HYDROPILLAR	OTHER		
TANK MANUFACTURER:			
SHELL DIMENSIONS:			
			ft m
(LxWxH) or (Dia.xH)			

III. RESERVOIR/TANK DATA (CONT'D)

VOLUME OF TANK:	gallons	m ³
BOTTOM ELEVATION:	ft	m (above m.s.l.)
OVERFLOW ELEVATION:	ft	m (above m.s.l.)
WATER DEPTH or HEAD RANGE:	ft	m
TYPE OF ROOF/COVER:		
FIXED ROOF		
INTERNAL COLUMN SUPPORTS		Yes No
FLOATING COVER		
NONE, OPEN RESERVOIR		
MATERIALS OF CONSTRUCTION:		
WELDED STEEL	COMPOSITE	
BOLTED STEEL	EARTHEN LINED	
RIVETED STEEL		
REINFORCED CONCRETE	OTHER	

IV. HYDRAULIC DATA

FILL RATE:	MIN	gpm	l/s
	MAX	gpm	l/s
PUMPED		BY GRAVITY	
DRAW RATE:	MAX or FIRE FLOW		gpm l/s
PUMPED		BY GRAVITY	
DIST. SYSTEM LINE PRESSURE AT RESERVOIR DURING FILLING			
	MIN	psi	kN/m ²
	MAX	psi	kN/m ²

V. CATHODIC PROTECTION SYSTEM

PASSIVE SACRIFICIAL	NONE
IMPRESSED CURRENT	

VI. INLET/OUTLET PIPING (NEW OR EXISTING TANK):**NEW TANK**

PIPE DIA. SUPPLYING RESERVIOR		in	mm
PIPE MATERIAL			

TANK PENETRATION	FLOOR	SIDE WALL
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EXISTING TANK

COMMON INLET/OUTLET

PIPE DIA.		in	mm
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IS PIPE LOCATED IN A SUMP?	Yes	No
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PIPE MATERIAL

TANK PENETRATION	FLOOR	SIDE WALL
------------------	-------	-----------

SEPARATE INLET/OUTLET

INLET PIPE DIA.		in	mm
-----------------	--	----	----

IS PIPE LOCATED IN A SUMP?	Yes	No
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PIPE MATERIAL

TANK PENETRATION	FLOOR	SIDE WALL
------------------	-------	-----------

OUTLET PIPE DIA.

IS PIPE LOCATED IN A SUMP?	Yes	No
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PIPE MATERIAL

TANK PENETRATION	FLOOR	SIDE WALL
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FINAL TANK DRAIN THRU:

COMMON INLET/OUTLET PIPE	SEPARATE DRAIN PIPE
OUTLET PIPE ONLY	

VII. OVERFLOW PIPE PROTECTION

Check method used to prevent birds, rodents, ect.
from entering tank through overflow pipe

TIDEFLEX VALVE
FLAP VALVE
SCREEN
NONE

VIII. RETROFIT INFORMATION (In addition to III.)

YEAR TANK CONSTRUCTED
DATE OF LAST INSPECTION
DATE OF LAST REHAB./REPAINT
DESCRIBE WORK DONE

NEXT SCHEDULED REHAB:

INTERNAL BAFFLES:	Yes	No
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ICE FORMATION:	Yes	No
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AVERAGE DRAWDOWN:		ft	m
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WATER TEMPERATURE RANGE	MIN	°F	°C
	MAX	°F	°C

SIZE OF LARGEST ROOF HATCH (DIA. SQ.)		in	mm
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SIZE OF LARGEST SHELL HATCH (DIA. SQ.)		in	mm
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SILT STOP	Yes	No
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FIXED PIPE EXTENSION	REMOVABLE
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RECHLORINATION/RECIRCULATION SYSTEMS	Yes	No
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ARE SAMPLING TAPS INSTALLED?	Yes	No
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HAS WATER QUALITY BEEN MONITORED AT THE TANK?	Yes	No
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HAS A TRACER STUDY OR CFD MODEL BEEN DONE?	Yes	No
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VIII. RETROFIT INFORMATION (CONT'D)**IDENTIFY WATER QUALITY ISSUES ASSOCIATED WITH RESERVOIR**

- LOSS OF DISINFECTANT RESIDUAL
- COLIFORM BACTERIA
- ELEVATED HPC BACTERIA
- NITRIFICATION
- ALGAE GROWTH
- BIOFILM GROWTH
- DISINFECTION BY PRODUCTS (DBP)
 - THM'S
 - HAA'S
- TASTE & ODOR
- INCREASED pH
- IRON & MANGANESE BUILD-UP
- LEAD/COPPER
- HYDROGEN SULFIDE
- LEACHATE FROM COATINGS
- SEDIMENT BUILD-UP
- COLOR
- TURBIDITY

IDENTIFY POSSIBLE CAUSATIVE FACTORS TO THE ABOVE

- POOR MIXING
- SHORT-CIRCUITING/STAGNANT ZONES
- POOR TURNOVER
- THERMAL STRATIFICATION
- LONG DETENTION TIME
- ELEVATED TEMPERATURE
- INCREASE IN pH
- LEACHING OF COATINGS
- EXPOSURE TO UV
- HIGH LEVEL ORGANICS

IX. COMMENTS

**PLEASE MAIL, FAX OR E-MAIL COPIES OF PLANS,
DETAILS AND SHOP DRAWINGS OF TANK,
INLET/OUTLET PIPING, ETC. TO:**

TIDEFLEX TECHNOLOGIES, INC.
300 BILMAR DRIVE • PITTSBURGH, PA 15205 USA

PHONE: 412-919-0919 • **FAX:** 412-919-0918

E-MAIL: mduer@tideflex.com
or
info@tideflex.com