



Date:

Leachate Pumping System Application

Client:

Project:

Plant:

Location:

DESIGN CONDITIONS

Power Supply: Voltage ____ 1Ø ____ 3Ø ____

PUMPS:

Submersible Pumps: Horizontal or Vertical

Pump 1 Pump 2 Pump 3

Flow Rate:

Head (TDH):

FLOW METER:

Required: Y or N

Preferred Make/Model:

Temp Rate Requirement:

Horizontal or Vertical Mount:

Voltage of Flow Meter:

BREAK OUT BOXES:

Breakout (Junction) Box Needed:

	Pump 1	Pump 2	Pump 3
Level:	Y or N	Y or N	Y or N
Flow:	Y or N	Y or N	Y or N
Power:	Y or N	Y or N	Y or N
Desicant Required:	Y or N	Y or N	Y or N

Location in relation to top of riser and Control panel location

SIDE SLOPE RISER:

Slope: ____ :1

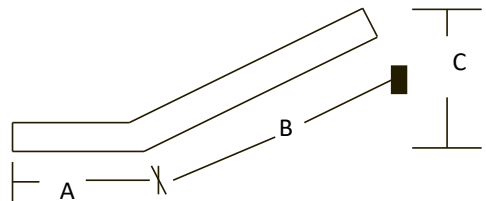
Length of Riser Pipe (A + B): ____ feet

Vertical Distance = Sump to Top of Riser Pipe (C): ____ feet

Riser Pipe ID: ____ inches SDR ____

Distance From Top of Riser Pipe to Controller: ____ feet

Gravel type:



VERTICAL RISER:

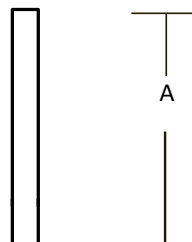
Vertical Distance = Sump to Top of Riser Pipe (A): ____ feet

Riser Pipe ID: ____ inches SDR ____

Distance From Top of Riser Pipe to Controller: ____ feet

Guide Rail Required?

Concrete or HDPE Manhole?



CONTROLLER:

Existing control system or new?

Relay Logic, Programmable Logic Controllers (PLCs) or computer based controller?

Pump Control: Simple or Duplex
Digital Display required? Y or N
Enclosure Type (circle one): NEMA 3R, 4 4X-SS, 12 NEMA 7, & 7/4 explosion-proof
Duplex GFCI Outlet: Y or N
Storage Tank Full Shutdown Circuit: Y or N
Elapsed Time Meters: Y or N
Run Cycle Counters: Y or N
Top Mounted Alarm Light: Y or N
Flow Sensor: Y or N
Telemetry Options (circle one): RS 232 RS422 RS485 direct phone connection cellular phone FM radio
Modbus Mapping Required?: Y or N
Enclosure Heater? Y or N

SHUT DOWN CONTROLS:

Low Low Level: Generator Failure:
High Level: Generator Fuel Level:
Level Switch Failure:

SHUT DOWN ALARMS: Audible: Visual: Auto dialer:

GENERATOR:

Power by Generator: Y or N
Generator Required: Y or N Supplied by Whom:
Power to be used for pumps alone or will it power other equipment (describe):

Power Output Required (cold weather start): Redundancy required (i.e.: trickle battery): Y or N
Gas / Diesel / Natural Gas (circle one):

Shelter Required?	Y or N	Provided by Whom?	
Insulated	Y or N	Heater	Y or N Gas/electric (circle one)
Exhaust fan	Y or N	Windows	Y or N
Doors	Y or N	Gas Monitoring	Y or N
Lights	Y or N		

Other performance or operation requirements, if any: