

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 METER:

Required: Y or N

Flow Rate:

Preferred Make/Model:

Head (TDH):

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

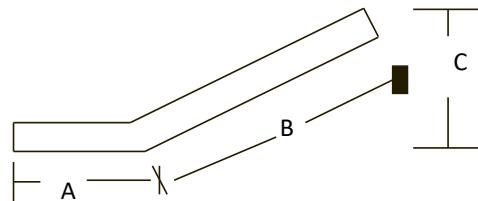
Length of Riser Pipe (A + B): _____ feet

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:

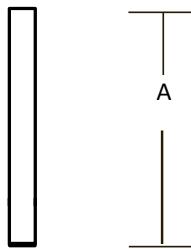
Vertical Distance = Sump to Top of Riser Pipe (A): _____ feet

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:
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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
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: