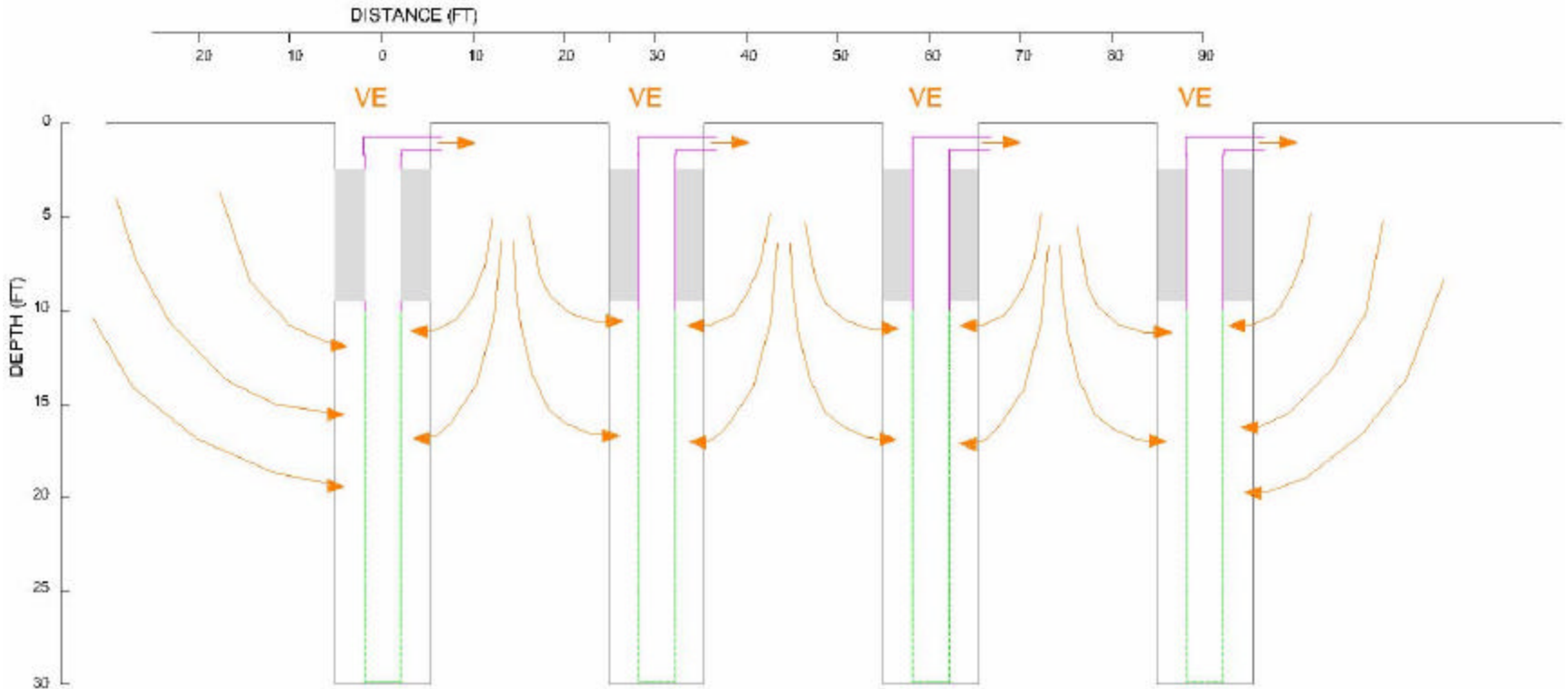
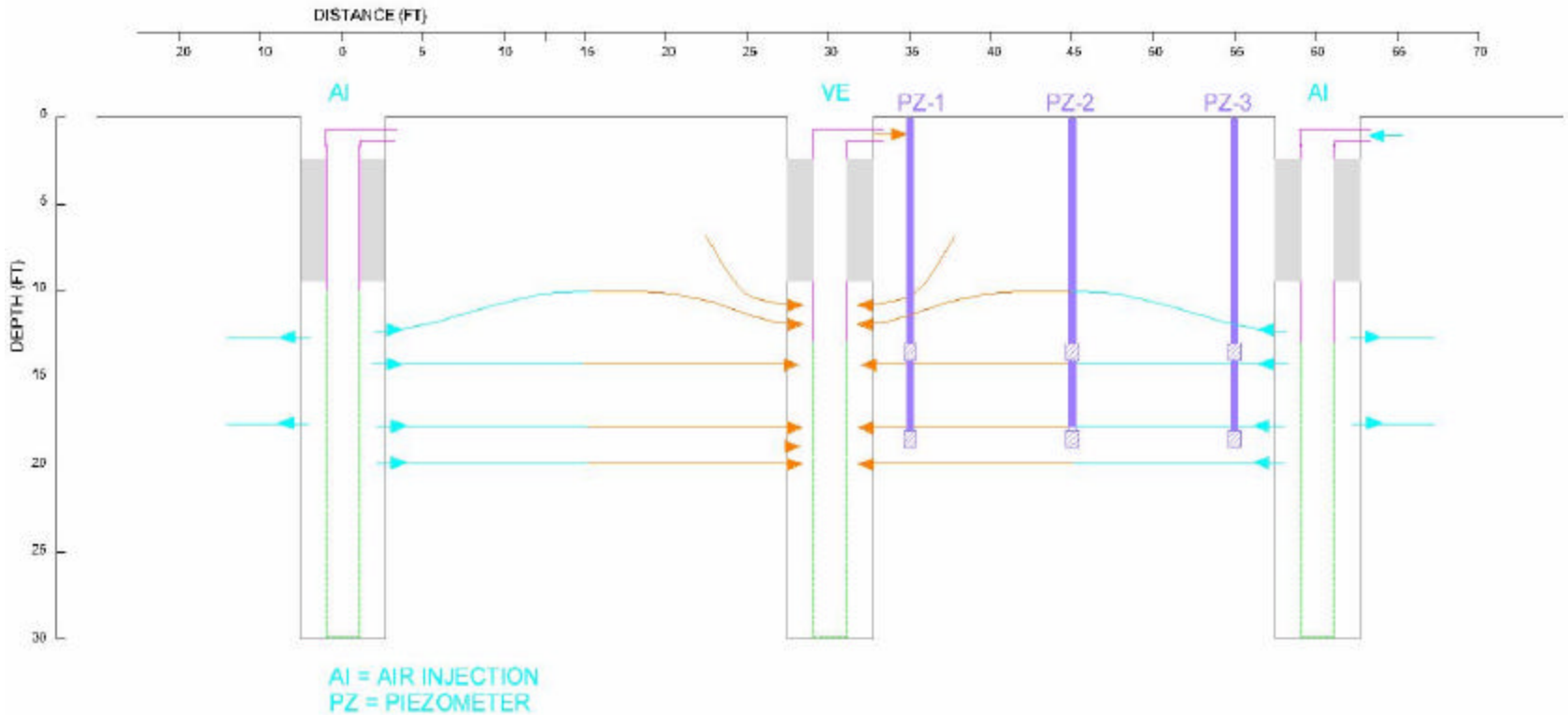


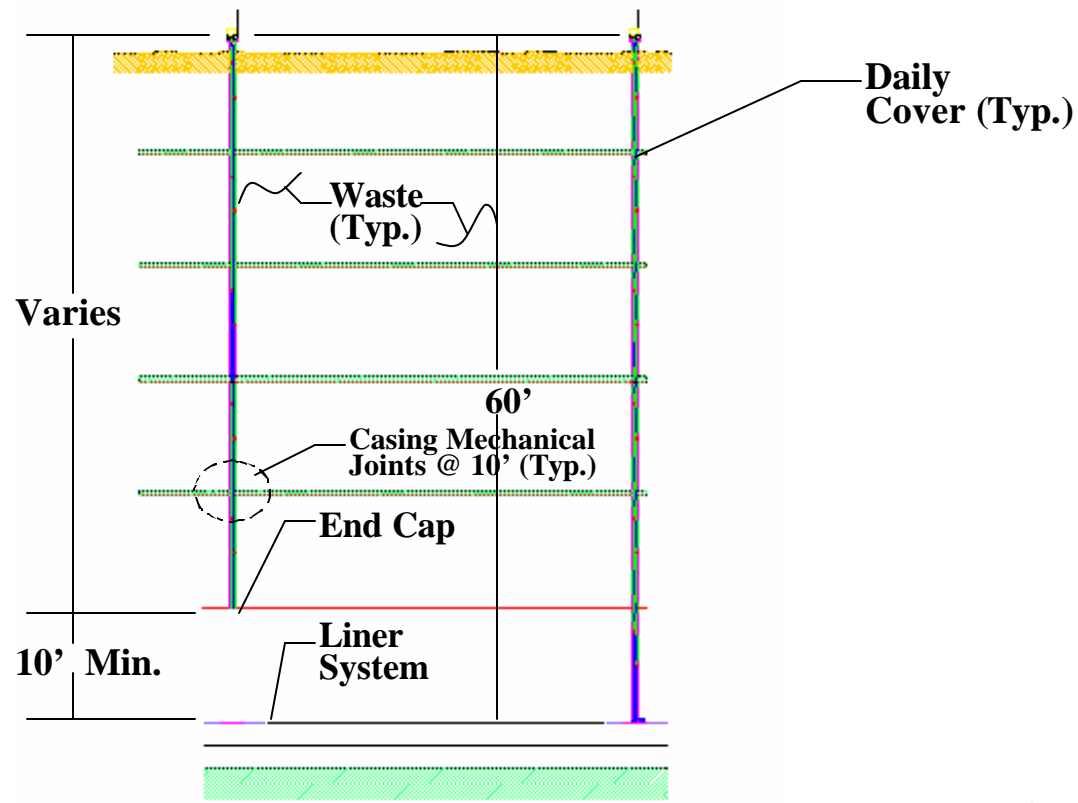
Vapor Extraction



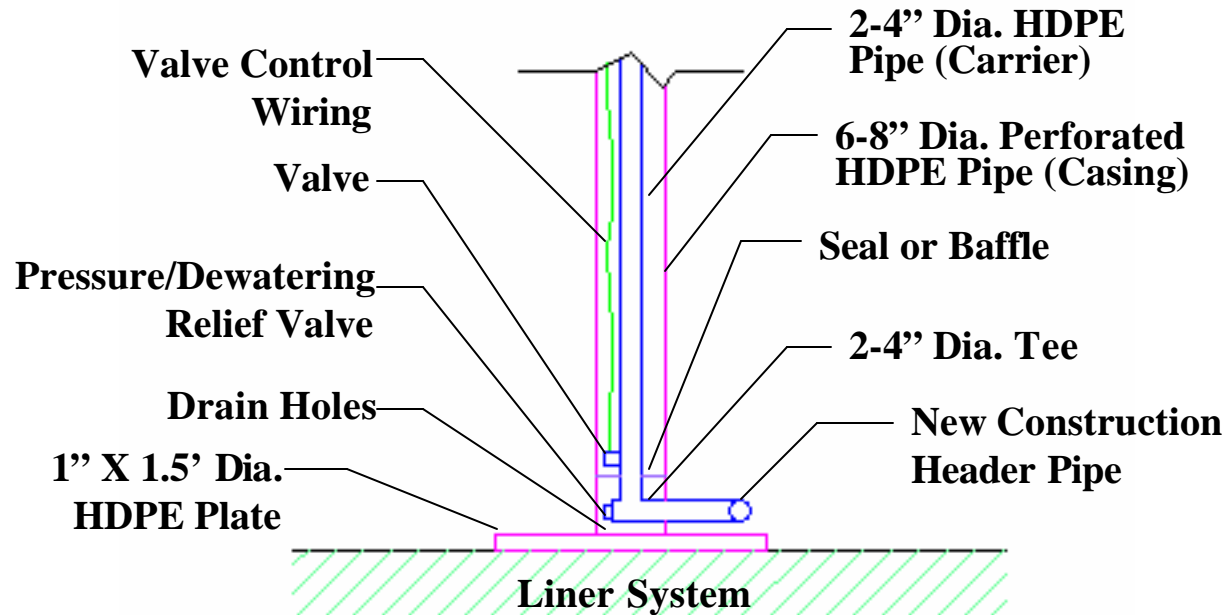
Vapor Extraction with Air Injection



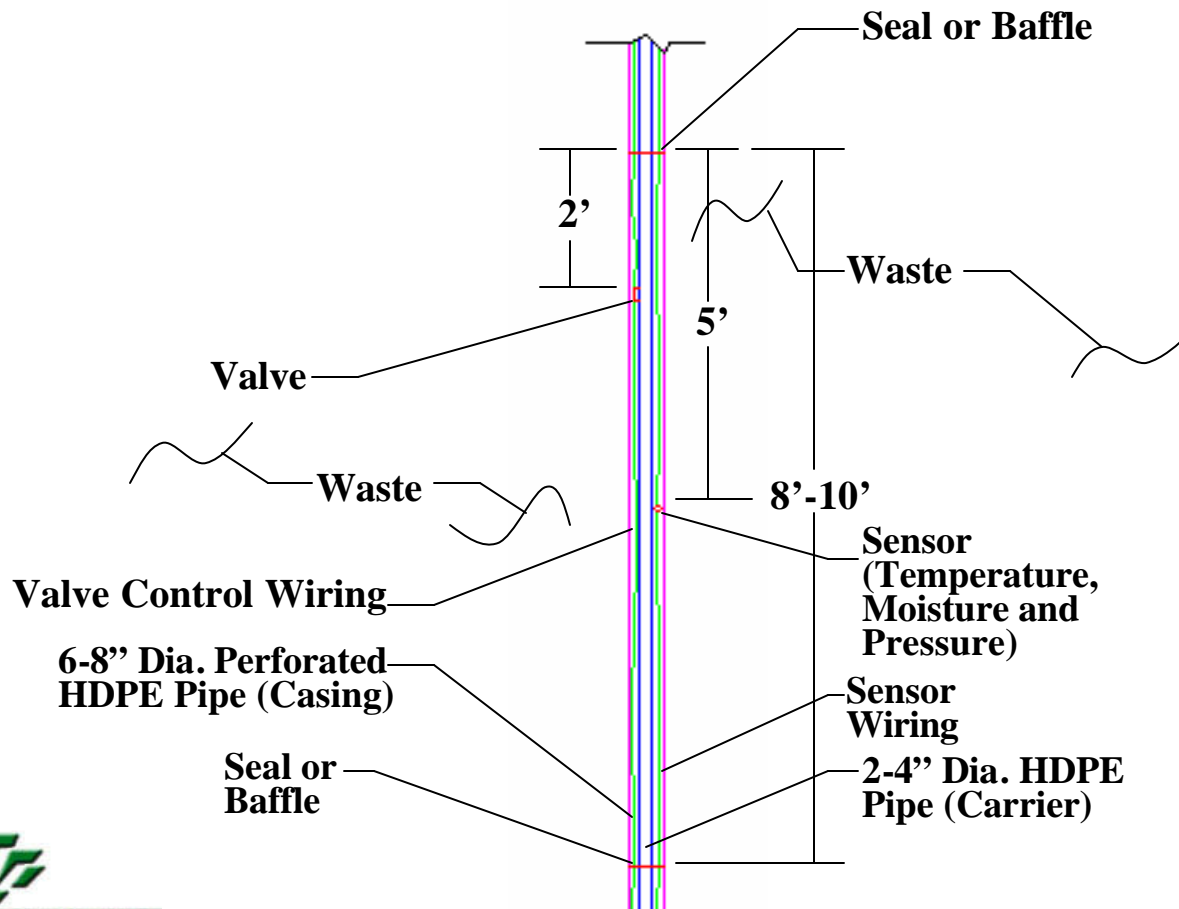
Vertical Well Schematic



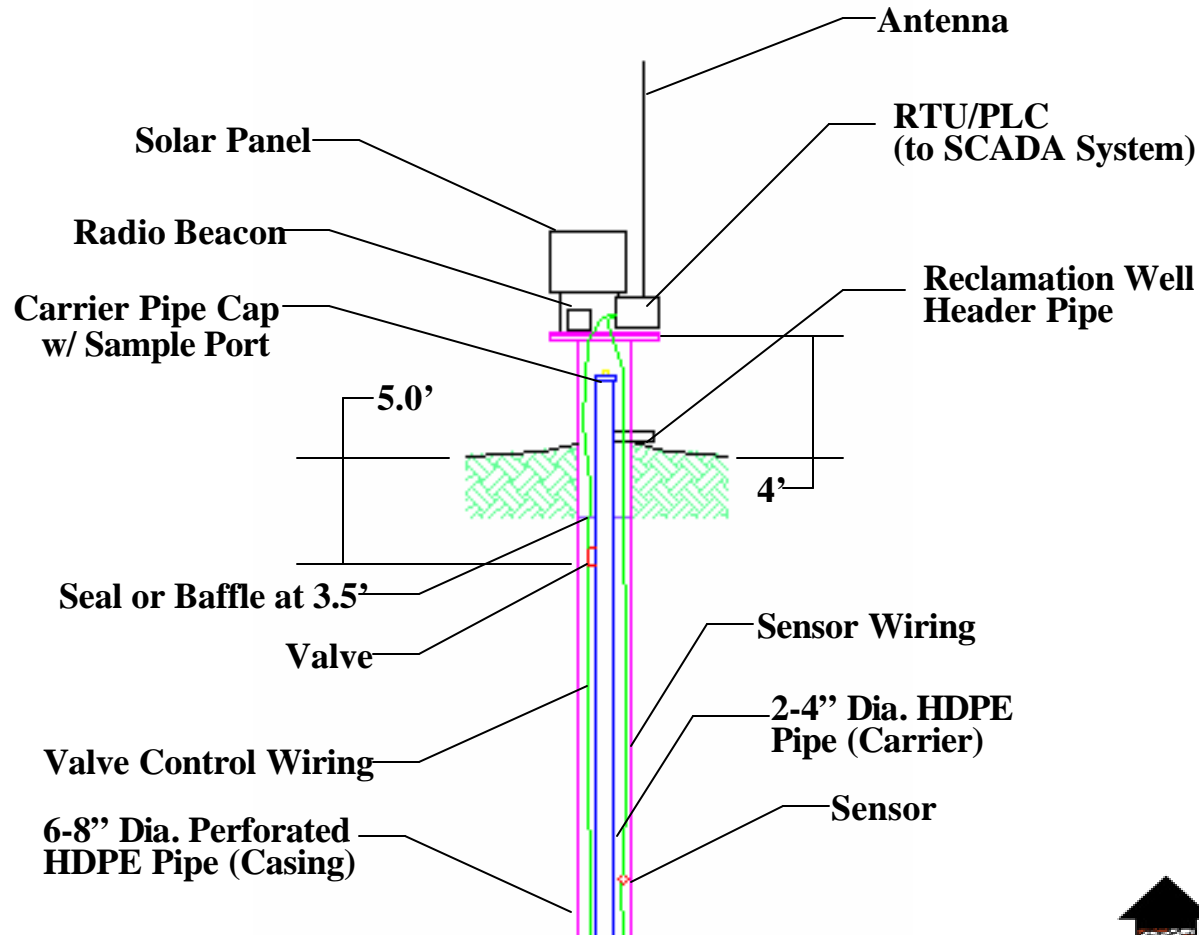
Typical Vertical Well Base



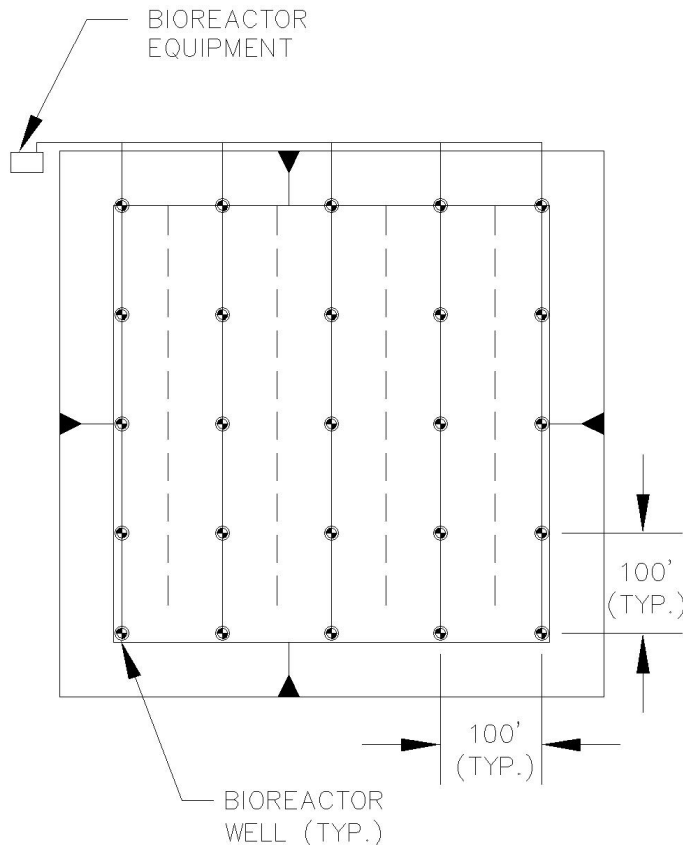
Typical Vertical Well Chamber



Typical Vertical Well Head



Process Design Features



- **Piping manifold**
- **Valving system**
- **Blowers**
- **Pumps**
- **Condensation tank**
- **Sensor Control**
 - **Temperature**
 - **Moisture**
 - **Gas Composition**
- **SCADA System**

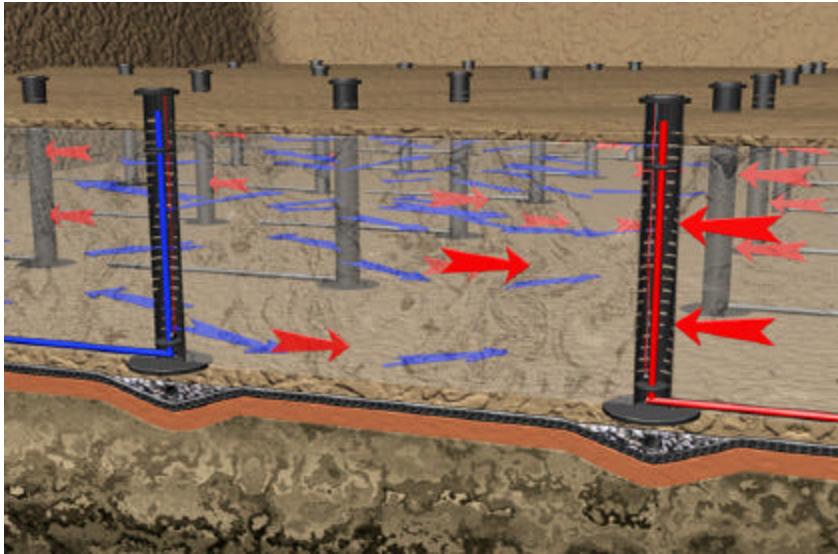
Conceptual Field Operation

Treatment Process

- Controlled monitoring through SCADA
- Fewer wells
- Reuse landfill footprint
- Access to wells for maintenance and upgrade

Safety through zone control

- Landfill fires
- Slope stability



Rapid Stabilization

- Initiated during first lift placement
- Greater waste matrix exposure
- Dead zone minimization
- Shorter environmental liability
- More Sustainable

