Citizens Advisory Panel Meeting No. 1

6:30 p.m. March 5, 2012 Street's East Lunch Room 4602 Sycamore Avenue





Discussion of VOC Stripper Design/Construction Opportunities

- Construct Facility on the Existing Site
- Construct Facility on top of Existing Reservoir
- Update Motor Control Center for more efficient Operation

Discussion of VOC Stripper Design/Construction Challenges

The Site

- Small Site (110' x 60')
- Existing Structure (35' by 66')
- Engine Generator Set
- Overhead Utility Relocation
- Construction Space Needs
- Maintaining Operation During Construction
- Bike Path
- Working Around Existing Facility



Discussion of VOC Stripper Design/Construction Challenges

- Structural Capacity of Existing Reservoir
 - Preliminary analysis suggests the structure is capable of supporting a facility being built on it.
 - Geotechnical analysis is needed to verify that existing soil conditions can handle additional load.
- DNR Concerns
 - Current DNR code discourages below grade construction of reservoirs
 - Occupied spaces and uses above reservoir may require special considerations.
- Noise Considerations
 - VFD drives create more motor noise
 - Blower for air stripper
- Perception of Air Stripper Discharge
- Site Security

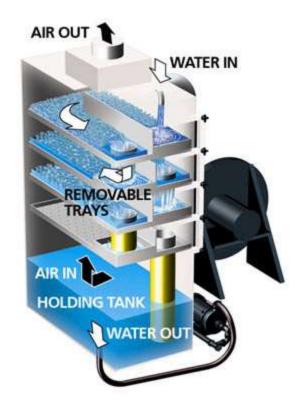
Discussion of VOC Stripper Design/Construction Design Criteria

- Well Pump Capacity 2200 gpm
- Capacity will be variable speed controlled
- Assumed Maximum Contaminate Level 20 ppb (> 5 times actual)
- Target Finished Water Contaminate Level < 0.5 ppb</p>
- Noise to be limited to 45 dB at the property line

Discussion of VOC Stripper Design/Construction Preliminary Information/Assumptions

Review of Low Profile Air Stripping Equipment

- Two Units 1,100 gpm each
- Two Blowers 5,200 cfm of air each
- The operating weight is 25,000 pounds each
- Operation and Maintenance
 - Trays require occasional cleaning
 - Design requires space for cleaning, storage of spare trays, and cleaning chemicals.
 - Weak acid may be required for cleaning trays
 - Flow needs to be split between units
 - Air flow to also vary with well flow



Discussion of VOC Stripper Design/Construction Approval Schedules

- City Planning Process Tentative Timeline
 - Urban Design Commission March through May 2012
 - Informational Meeting
 - Initial Approval
 - Final Approval
 - Conditional Use April Through June 2012
 - Plan Commission
 - Common Council
 - Final Plan Submission July 2012
- DNR and PSC Approval July 2012
- Bidding Approval July 2012
 - Board of Public Works
 - City Council
- Start Construction September 2012
- Complete Construction July 2013

Discussion of VOC Stripper Design/Construction Anticipated CAP Schedule/Activities

- CAP Meeting No. 1 Introduction (Today)
- CAP Meeting No. 2 Conceptual Design and Exterior Appearance (end of March)
- Public Meeting Present and Receive Comments on Conceptual Design and Exterior Appearance (End of April)
- CAP Meeting No. 3 Review Comments from Public Meeting Modify and Prepare for Water Utility Board Approval (Early May)
- Water Utility Board Public Hearing and Approval (End of May)

Questions and Discussion



Thank You!



