



King County

Department of Natural Resources and Parks
Wastewater Treatment Division

Murray Basin CAG

Meeting # 7.5

Monday, September 27, 2010

Remaining Alternatives – CAG comments

CAG2 – Storage near Colman Pool

- (County) Moving the problem from one park to another (Initiative 42, etc.); Lincoln = Lowman
- Lincoln Park should not be considered
- Seal pup
- Road access is already there
- Not preferable given another viable site
- Shares burden between Murray and Barton
- If it can be left better than before, it provides an opportunity
- (County) Many of the same disadvantages as Lowman without the technical advantages

CAG2a – Storage under Lincoln Park south parking lot

- (County) In a park
 - Is there a distinction, re: I-42
 - Park mitigation may be less
- Least environmental damage
- Leaves existing private residences alone
- Access to site is easy
- Highly used parking lot
- Safety issues already exist – need additional parking anyway
- If pump station needed it would be additional \$8 million and many increased impacts
- (County) If motorized valves work, it is a promising alternative with minimal long-term impacts on Lincoln Park
- (County) Technical issues with motorized valve box that have not been thoroughly vetted yet



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CAG8 – Distributed storage at four locations up-basin

- Drycleaner site – ideal spot for mitigating environmental issues for work done lower in basin
- (County) Intersection of Holly and Murray is promising location
- Drycleaner and Holly/Murray storage useable to reduce size of “triangle” storage (.5:1 ratio of size reduction)
- May not be reliable enough
- County doesn’t see it as viable
- Worthwhile add-on to other alternative?
- Neighborhood opposition to activity within the area of the drycleaner
- Leverages community assets
 - Enhances what’s already there

KC1B – Storage in Pelley Creek parcel (Murray triangle)

- +/- increased Barton storage
- + GSI pilot
- (County) Possibility for mitigation win-win
- May need additional storage elsewhere
- (County) Pump station in park (Initiative 42)
- Many parts and pieces is a concern – collective impacts may be great
- Consider pump station in Murray Ave ROW across/adjacent to Beach Drive
- (County) Hard to defend potential impact to environment, i.e. wetlands, riparian corridor versus impacts to Lowman Park

KC1F – Storage in private property across from Lowman Park and tunnel under Beach Drive

- If owners want to sell, great - If not, this is not a good alternative
- Problem with eminent domain
- Concerns about retaining character of neighborhood
- Steep slopes and retaining walls needed to hold up Lincoln Park Way
- Renters/affordable housing lost
- (County) Reservations about site but need to consider due to limitations in other alternatives



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**PRELIMINARY PLANNING LEVEL COMPARITIVE ESTIMATED COSTS
"ABOVE-THE-LINE ALTERNATIVES"
MURRAY BASIN**

Alternative	Description	Total Construction Cost	Land Acquisition Cost	Permit Cost	Project Total Cost	Relative Cost
COMMUNITY SUGGESTED ALTERNATIVES						
CAG #2	Storage in Lincoln Park-Colman Pool	\$21,067,000	\$8,000,000	\$300,000	\$29,367,000	1.2
CAG #2a	Storage in Lincoln Park-Lower Parking Lot	\$22,548,000	\$1,000,000	\$590,000	\$24,138,000	1.0
CAG #2b	Storage in Lincoln Park - Tunnel	\$45,896,000	\$1,000,000	\$590,000	\$47,486,000	2.0
CAG #8	Upper Basin Storage for Murray Peak Flows	\$30,323,000	\$4,000,000	\$500,000	\$34,823,000	1.4
CAG #9	Combined Storage, Pumping & Disconnect Improvements	\$35,300,000	\$2,000,000	\$420,000	\$37,720,000	1.6
PROJECT TEAM ALTERNATIVES						
1B-b	Rectangular Storage in Vicinity Murray Avenue and Lincoln Park Way	\$30,993,000	\$2,000,000	\$500,000	\$33,493,000	1.4
1F	Combined Pipe / Rectangular Storage at Bottom of Basin	\$27,060,000	\$3,000,000	\$50,000	\$30,110,000	1.2

Notes:

Total construction cost includes total direct costs plus 30% allied costs and 50% contingency cost
Project total cost range is the sum of total construction cost plus permit and land acquisition cost

- Green = 1.0 - 1.5
- Yellow = 1.5 - 3.0
- Red > 3.0

Cost for CAG #2a includes diversion vault with mortized valves. No pump station costs are included.
If pump station is required total construction cost would increase by approximately \$10M.