

Table 2. Site Screening Matrix

Criteria Weight	3	3	4	4	4	3	2	4	4	4	3	3	2	1	Total Score for Alternative	
Alternative No.	Location or Address	Land Use of Site	Land Use of Adjacent Area	Major Road Access	Pipe Size	Proximity to Unsewered Areas	Parkland/Historic Resource Impacts	Wetland, Stream, and Floodplain Proximity	Odor Impacts	Traffic Impacts	Impacts on Haulers	Feasibility of Pretreatment on Site	Ability to Provide Security, Tracking, and Monitoring	Utility Accessibility (Electrical, water)	Ability to Accommodate Semi-trailers and Class A RVs	
1	Existing Colvin Run Site 9950 Colvin Run Rd Great Falls, VA 22066 Treatment Area: Blue Plains Supervisor District: Dranesville	Site is on an easement on FCPA property; entrance road is County property	Colvin Run Mill Park, Residential, VDOT Right-of-way	Near Route 7	Direct connection to 33-inch pipe	Convenient to Great Falls and Hunter Mill areas	Considerable impacts to pedestrian and vehicular use of park and trails	Within floodplain of Difficult Run, has experienced flooding	Odor is an issue for residents, especially in summer, trucks track septage onto road	Traffic backups and unsafe left turns onto Colvin Run Rd., access road in poor condition	Haulers prefer site due to convenient location, fast unload times	Limited area available for treatment	Unmanned, potential for remote monitoring through pump station SCADA	Existing services	Turning around (K-turn) is difficult and impedes park access	95
	Rating	2	1	4	4	4	0	0	0	0	4	1	3	4	2	
	Score	6	3	16	16	16	0	0	0	0	16	3	9	8	2	
2	I-66 Transfer Station 4618 West Ox Rd. Fairfax, VA 22030 Treatment Area: UOSA Supervisor District: Springfield	Fire and rescue training facility	Solid waste facilities, bus garage, animal shelter, potential conflict with helipad approach	On West Ox Road	Indirect connection to 12-inch pipe	Not convenient to unsewered areas	None known	Stormwater system impacts	Potential for impacts to nearby employees and at manholes in downstream residential area	Coordination with other County agencies and VDOT required	12.6 road miles from Colvin Run	Potentially feasible depending on land availability	Existing security in place, County-manned facility, multiple locations for gates	Available near site	Potentially feasible if land is available for a drive-through design or expansion of existing parking area	88
	Rating	3	3	4	0	0	4	2	0	2	1	3	4	1	3	
	Score	9	9	16	0	0	12	4	0	8	4	9	12	2	3	
3	Scott's Run Meter Vault 7400 Georgetown Pike McLean, VA 22102 Treatment Area: Blue Plains Supervisor District: Dranesville	Parkland (FCPA)	Parkland, residential	On Georgetown Pike	Direct connection to 33-inch pipe	Somewhat convenient to Great Falls area	Impacts to pedestrian and vehicular use of park	Partially within floodplain of Scott's Run	Potential for odor impacts to adjacent residents	Potential for noise impacts to adjacent residents	6.9 road miles from Colvin Run	Limited area available for treatment	Limited ability due to isolated location, park impacts	Power available near site, no water	Bordered by river and steep incline; narrow road leading to site	81
	Rating	2	1	3	4	2	1	1	2	2	2	1	1	0	1	
	Score	6	3	12	16	8	3	2	8	8	8	3	3	0	1	
4	Dead Run Pump Station 6925 Georgetown Pike McLean, VA 22101 Treatment Area: Blue Plains Supervisor District: Dranesville	Wastewater Pump Station	Church, residential	On Georgetown Pike	Direct connection to pump station with 14- and 18-inch forcemains	Somewhat convenient to Great Falls area	Impacts to pedestrian trail use	Partially within floodplain of Dead Run	Potential for odor impacts to adjacent residents	Potential for noise and traffic issues, limited sight distance when exiting	8.4 road miles from Colvin Run	Limited area available for treatment	Existing gate; potential for remote monitoring through pump station SCADA	Available on site	Adequate area not available; insufficient space to expand road	87
	Rating	4	1	3	1	2	2	1	2	1	2	1	3	4	0	
	Score	12	3	12	4	8	6	2	8	4	8	3	9	8	0	
5	Tyson's Pump Station 8608 Leesburg Pike Vienna, VA 22182 Treatment Area: Blue Plains Supervisor District: Providence	Commercial	Commercial/Industrial	Near Route 7	Indirect connection to pump station with 10-inch forcemain	Somewhat convenient to Great Falls area	None known	Partially within floodplain	Potential for odor impacts to adjacent businesses	Potential for traffic and noise impacts to adjacent businesses	4.2 road miles from Colvin Run	Limited area available for treatment; existing pump station basket screen would be inadequate to handle septage	Busy industrial area; surrounding area is gated; one entrance/exit	Available near site	Adequate area not available; narrow ingress/egress	88
	Rating	3	3	3	0	2	4	1	2	2	3	0	2	1	0	
	Score	9	9	12	0	8	12	2	8	8	12	0	6	2	0	
6	Lake Fairfax Park Maintenance Facility 1420 Hunter Mill Road Vienna, VA 22182 Treatment Area: Blue Plains Supervisor District: Hunter Mill	Park maintenance yard (FCPA)	Parkland, residential	On Hunter Mill Road	Indirect connection to 30-inch pipe	Convenient to Great Falls and Hunter Mill areas	Impacts to park maintenance staff, noise and odor	Site is outside floodplain	Potential for odor impacts to park employees and patrons	Increased truck traffic on Hunter Mill Road	2.9 road miles from Colvin Run	Feasible pending land availability	Existing fencing, feasible to add security features	Existing services on site	Adequate area potentially available with modifications to existing layout	134
	Rating	3	2	3	3	4	1	4	2	2	4	4	4	4	4	
	Score	9	6	12	12	16	3	8	8	8	16	12	12	8	4	

Criteria Weighting System	
Weighting	Description
1	Optional
2	Secondary importance
3	Primary importance
4	Critical

Site Rating System	
Rating	Description
0	Considerable drawbacks to meeting criteria
1	Minimal criteria adherence
2	Drawbacks and criteria adherence about equal
3	Some drawbacks but substantially meets criteria
4	Best meets criteria

Score = rating * weight for each criterion
Total score = sum of scores