

**B&L Woodwaste Site
Pierce County, Washington**

Engineering Design Report (EDR)

Tables

FINAL

Table 5.1
Interim Compliance Monitoring Well Information

Monitoring Well	Installed By	Date Installed	Total Depth Drilled (feet bgs)	Total Depth Cased (feet bgs)	Screened Interval (feet bgs)	Casing Size (ID; in.)	Approximate Ground Surface Elevation ¹ (feet NAVD 88)	Measuring Point Elevation ¹ (feet NAVD 88)	Northing ¹ (feet NAD 83/98)	Easting ¹ (feet NAD 83/98)
Upper Sand Aquifer										
D-1U	AGI	9/19/1989	15	13.1	8.1–13.1	2	13.764	15.154	702581.1467	1186263.53
D-5U	AGI	7/25/1990	16.5	13.5	8.5–13.5	2	13.339	17.364	702321.4743	1185708.41
D-6A	Hydrometrics	10/26/1993	15	15	10–15	2	13.094	14.128	702465.581	1185996.46
D-7A	Hydrometrics	10/25/1993	14.5	14.5	9.5–14.5	2	15.269	15.854	702190.9768	1185698.42
D-8A	Hydrometrics	11/10/1993	17	15	10–15	2	14.954	16.174	701886.3802	1185691.53
D-9A	Hydrometrics	11/11/1993	16	13.5	8.5–13.5	2	15.514	17.164	701581.3487	1186172.04
D-10A	Hydrometrics	11/9/1993	15	15	10–15	2	19.501	21.534	701754.648	1186794.84
D-11A	Hydrometrics	11/9/1993	15	15	10–15	2	17.925	19.89	702114.962	1186710.32
MW-23	Hydrometrics	4/1/2002	20.5	17.28	7.28–17.28	2	17.264	20.474	701768.884	1186707.69
MW-30	Floyd Snider	9/14/2006	21	21	16–21	3/4	18.516	18.516	702394.4934	1186126.76
MW-13	Hydrometrics	9/16/1998	15	14.5	9.5–14.5	2	13.304	15.434	702573.9139	1186104.44
MW-14	Hydrometrics	9/16/1998	15	15	10–15	2	12.746	15.201	702656.6904	1185883.56
MW-15	Hydrometrics	9/17/1998	15	15	10–15	2	12.754	15.319	702717.8081	1186011.71
MW-16	Hydrometrics	9/17/1998	15	15	10–15	2	13.364	15.799	702799.199	1186173.74
MW-17	Hydrometrics	9/17/1998	15	15	10–15	2	12.472	15.197	702857.742	1185983.46
MW-31A	Floyd Snider	3/23/2007	22	22	17–22	2	14.057	16.482	702917.222	1185835.9
Lower Sand Aquifer										
D-1L	AGI	9/18/1989	30.3	30.3	25.3–30.3	2	13.514	15.084	702586.7477	1186260.33
D-5L	AGI	7/24/1990	30.75	30.3	25.3–30.3	2	13.589	17.189	702330.3977	1185711
D-6B	Hydrometrics	10/26/1993	33	33	28–33	2	13.044	14.541	702460.2	1185997.9
D-7B	Hydrometrics	10/25/1993	34	33	28–33	2	15.169	16.429	702196.2509	1185699.32
D-8B	Hydrometrics	11/11/1993	35	33	28–33	2	14.784	16.179	701881.042	1185691.09
D-11B	Hydrometrics	11/10/1993	34	30	25–30	2	17.985	19.934	702110.806	1186706.36
MW-31B	Floyd Snider	3/23/2007	40	40	35–40	2	14.057	16.322	702916.222	1185840.57

Notes:

¹ Survey information from November–December 2008 survey.

Abbreviations:

bgs Below ground surface
in Inches
ID Internal diameter

NAD 83/98 North American Vertical Datum of 1983/1998
NAVD 88 North American Vertical Datum of 1988

Table 7.1
Permitting and Substantive Requirements Documentation

Activity	Regulating Agency	Code/Citation	Permit Required?	Comments
Construction Stormwater Management—Erosion and Sediment Control	Ecology	Stormwater Management Manual for Western Washington	NPDES Construction Stormwater General Permit	Follow Ecology's Stormwater Management Manual for the Puget Sound Basin and Pierce County Stormwater Management Plan.
	Pierce County	Title 17A—Construction and Infrastructure Regulations—Site Development and Stormwater Drainage	MTCA Exemption Title 17A.10.050(l)	
Grading and clearing	Pierce County	Chapter 8—Pierce County Stormwater Management and Site Development Manual	No permit, but must meet substantive requirement	This manual is incorporated by reference in Title 17A and by ordinance. Provides best management practices for grading and sediment control.
Drainage from Interceptor Trench				
Discharge to Privately Owned Property	Pierce County	Title 17A.40.080	Permission needed	Obtain written permission/easements from the owners of record for both the closed depression and potential overflow routes receiving the runoff.
Infiltration Trench	Ecology	Underground Injection Control (UIC)	The trench is not regulated as a underground injection control (UIC) well if it does not meet Class V requirements	If an infiltration trench is "deeper than its widest surface dimension," or includes an assemblage of perforated pipes, drain tiles, or other similar mechanisms intended to distribute fluids below the surface of the ground, it would probably be considered a Class V injection well.
Overflow into Ditches				
Discharge to Privately owned Property	Pierce County	Stormwater Drainage Title 17A.40.080	Written permission/easement with owners recorded with Pierce County Auditor	Because stormwater cannot be controlled by shutting off pumps, to maintain capacity it may be necessary for clean cap stormwater to flow into both the ditches and the wetland north of the Interurban Trail. In this case, these requirements would apply.
	Pierce County Drainage District #23		Permission needed	
End-of-Plume Injection				
Underground Injection Control (UIC)	Ecology	WAC 173-218	Registration Required	Registered for UIC. Rule Authorized.
Washington Water Wells	Ecology	WAC 173-160	Start Card Required	Standard well installation procedures followed.