



**CITY OF REDMOND**  
Wastewater Division

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**City of Redmond**  
**Irrigation Site Notice and Access Agreement**

The City of Redmond operates a level II Reclaim water program and Class B biosolids application program at the Irrigation Site located at T14S, R13E, Section 19,29,30 and T14S, R12E Sec 24. Federal and state law restricts access of this site to the public based on the level of treatment the water and solids receive prior to application. Members of the East Cascades Bird Conservancy ECBC are granted access through a Access Agreement approved by both agencies. This agreement requires that all members of ECBC that enter the Irrigation Site, be informed about the quality of the water and solids and any potential hazards that may be present at the site. Direct contact with biosolids or irrigation water is strictly prohibited. ECBC is responsible solely for the safety of its members that enter the irrigation site, the City of Redmond shall not be held liable for any activity that might occur.

The City of Redmond operates a Water Pollution Control Facility (WPCF) which treats City of Redmond domestic, commercial and industrial wastewater. Water is treated using physical and biological processes which removes solids and some organic pollutants from the water and then disinfected. This water is then conveyed to the Irrigation Site, and applied to 148 acres to grow an orchard grass crop in the summer or infiltrated to the ground in the winter. Table 1 below summarizes the reclaimed water characteristics for 2004. All water quality is monitored regularly as required by the City Wastewater permit with the Department of Environmental Quality.

**Table 1. 2004 Reclaimed Water Characteristics**

Month	BOD <sub>5</sub>	TSS	Total-N	NO <sub>3</sub> + NO <sub>2</sub> -N	NH <sub>3</sub> -N	TKN	Cl <sub>2</sub>	pH
	mg/L							
January	8.21	9.83	6.14	2.88	1.96	3.25	2.19	7.29
February	12.28	8.09	5.66	2.31	4.40	4.20	0.35	7.36
March	7.68	6.06	9.30	1.05	6.02	8.26	0.66	7.32
April	9.82	10.3	5.94	1.32	3.29	0.67	0.34	7.28
May	4.94	5.26	3.69	2.07	0.22	1.61	0.35	7.22
June	7.26	8.44	4.37	2.17	0.43	2.20	0.40	7.63
July	6.98	7.85	3.82	2.44	0.07	1.57	0.45	7.53
August	4.81	4.30	2.68	1.85	0.04	0.83	0.54	7.47
September	3.97	6.03	3.16	2.10	0.10	1.06	0.83	7.69
October	3.64	6.16	3.90	2.64	0.05	1.27	1.02	7.50
November	4.40	6.00	3.70	2.50	0.03	1.20	1.10	7.66
December	3.39	4.28	3.24	2.27	0.04	0.96	0.99	6.90
Average	6.4	6.9	4.6	2.1	1.4	2.3	0.8	7.4

Treated solids removed from the wastewater are dewatered and disinfected by the addition of lime. The addition of lime raises the pH of the solids above 12, making it very caustic. The solids are dried on an asphalt pad and applied to City agricultural fields as a soil amendment. The application and testing of biosolids is a highly regulated process. Table 2 below summarizes the characteristics of biosolids applied in 2004.

**Table 3. 2004 Redmond WPCF Biosolids Characteristics**

Parameter	2004					503 PC Limits <sup>1</sup> (metals, mg/kg)
	1 <sup>st</sup> quarter	2 <sup>nd</sup> quarter	3 <sup>rd</sup> quarter	4 <sup>th</sup> quarter	Mean	
Total solids, percent	18	16	17	15	17	
Volatile solids, percent	50	59	45	61	54	
Organic nitrogen, percent	3.2	4.8	3.9	5.1	4.25	
TKN, percent	3.80	5.2	4.2	5.5	4.68	
NH <sub>4</sub> -N, percent	0.13	0.12	0.059	0.23	0.13	
NO <sub>3</sub> -N, percent	0.0023	0.00088	0.012	0.0020	0.0043	
K, percent	0.65	0.70	0.44	0.54	0.58	
pH	12	12	12	12	12	
As, mg/kg	0.56	1.8	1.4	4.6	2.1	41
Cd, mg/kg	0.073	0.079	1.2	0.67	0.51	39
Cr, mg/kg	12	0.2	21	16	12	
Cu, mg/kg	71	95	100	95	90	1,500
Pb, mg/kg	16	21	28	27	23	300
Hg, mg/kg	0.51	1.4	0.86	0.36	0.78	17
Mo, mg/kg	0.14	22	4.1	5.5	7.9	75
Ni, mg/kg	4.1	0.79	7.2	7.1	4.8	420
Se, mg/kg	0.83	11	3.0	3.4	4.6	100
Zn, mg/kg	120	210	250	190	193	2,800

<sup>1</sup>PC Limits refers to Pollutant Concentration Limits (503.13, Table 3)

All members entering the City of Redmond Irrigation Site are required to sign this Access Agreement to acknowledge that they understand the nature of materials which are being applied at the irrigation site and potential hazards associated with this Irrigation Site. Access shall not be granted without signature of members below. Records of this agreement shall be maintained by ECBC and The City of Redmond.

\_\_\_\_\_  
ECBC Member Printed Name

\_\_\_\_\_  
ECBC President Printed Name

\_\_\_\_\_  
ECBC Member Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
ECBC President Signature

\_\_\_\_\_  
Date