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1315 West 4th Avenue
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Addressees:

TRANSMITTAL OF FISCAL YEAR 2001 ANNUAL SUMMARY REPORT FOR THE 200-UP-1 AND 200-ZP-1 OPERABLE UNITS PUMP-AND-TREAT OPERATIONS, DOE/RL-2001-53, REV.0

Attached is the subject document for your information. The purpose of this report is to evaluate the effectiveness and efficiency of the pump and treat systems, the impacts on the aquifer, and general aquifer conditions in response to ongoing interim remedial actions. The reporting period for this document is from October 1, 2000 to September 30, 2001.

Also included are two tables with 200-ZP-1 pump-and-treat information summarizing average monthly flow rates, design flow rates, total run time and system availability. Flow and run-time information for the 200-UP-1 pump-and-treat system is collected by the Effluent Treatment Facility and is included in Appendix A and in the body of the attached report.

If you have any questions, please contact me at (509) 373-9631.

Sincerely,

Arlene C. Tortoso

Arlene C. Tortoso, Project Manager
Waste Management Division

WMD:ACT

Attachments

cc w/attachs:
D. A. Faulk, EPA
M. Harmon, EM-40
Z. Jackson, Ecology
J. Price, Ecology
Admin Record

cc w/o attachs:
J. V. Borghese, BHI
L. R. Curry, BHI

Table 1 - Average Extraction Rates FY 1998 to 2001 (gpm). (2 Pages)

Extraction Well	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Flow (Gallons)	Design Flow Rate (gpm)	Average Monthly Flow Rate (gpm)	Total Run Time (%)
FY 1998																
299-W15-32	23.7	12.2	12.3	21.7	22.0	9.0	17.2	21.4	22.1	23.8	11.8	13.7	8,947,790	50.0	17.6	12.4%
299-W15-33	19.1	16.1	11.3	13.6	12.7	12.5	15.4	15.9	17.2	16.4	15.6	13.2	7,290,430	50.0	14.9	85.4%
299-W15-34	30.0	27.2	18.4	22.0	22.9	21.1	25.0	26.0	25.8	23.9	20.5	14.1	11,737,884	50.0	23.1	86.2%
299-W15-35	82.9	75.3	42.8	60.9	63.8	61.2	65.5	79.4	81.6	76.3	76.5	82.8	35,463,630	50.0	70.8	85.7%
299-W15-36	23.8	18.9	15.7	19.9	24.5	25.5	26.0	30.7	33.0	28.6	29.4	31.2	12,974,062	50.0	25.6	86.0%
299-W15-37	17.4	15.6	10.5	13.0	14.1	13.4	9.3	16.4	14.7	16.4	11.0	11.7	6,904,385	50.0	13.6	82.3%
FY 1999																
299-W15-32	6.8	10.5	11.5	2.3	4.8	12.2	9.0	11.7	11.2	--	--	--	3,476,948	50.0	8.9	42.7%
299-W15-33	12.5	12.4	11.2	11.0	13.1	13.3	12.5	13.0	16.1	16.5	15.9	15.2	6,973,919	50.0	13.6	88.8%
299-W15-34	16.1	19.9	21.7	17.7	22.5	21.6	21.7	23.9	23.6	23.3	23.2	18.8	10,830,492	50.0	21.2	89.3%
299-W15-35	83.7	74.9	78.7	67.6	86.7	80.1	80.2	86.3	82.5	75.7	76.3	77.5	40,662,160	50.0	79.2	92.3%
299-W15-36	26.8	20.4	15.7	18.3	20.8	15.7	14.1	23.8	37.5	29.8	32.6	33.8	12,377,714	50.0	24.1	89.3%
299-W15-37	7.9	12.6	6.5	8.3	7.9	12.0	16.1	19.2	21.0	19.0	19.5	19.9	7,228,318	50.0	14.2	83.6%
FY 2000																
299-W15-32	1.4	--	0.7	4.5	19.2	17.7	14.6	14.6	14.3	14.3	15.4	10.0	5,185,628	50.0	11.5	56.7%
299-W15-33	13.0	8.9	7.8	15.1	12.3	14.9	--	--	11.8	12.5	7.8	11.9	4,700,507	50.0	11.6	54.1%
299-W15-34	21.9	12.7	11.5	25.8	23.7	26.0	23.7	24.7	21.6	21.7	23.4	23.2	10,569,103	50.0	21.7	83.0%
299-W15-35	62.7	30.9	35.0	53.6	56.9	84.8	72.9	76.2	73.8	73.8	81.1	81.6	32,016,613	50.0	65.3	83.6%
299-W15-36	33.6	18.0	13.8	32.9	31.1	33.8	4.5	--	23.7	32.2	35.3	35.5	11,866,265	50.0	26.8	66.9%
299-W15-37	19.6	8.6	6.9	14.6	14.8	17.5	15.8	16.6	15.1	14.8	16.5	16.4	7,242,513	50.0	14.8	83.0%

Table 1 - Average Extraction Rates FY 1998 to 2001 (gpm). (2 Pages)

Extraction Well	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total Flow (Gallons)	Design Flow Rate (gpm)	Average Monthly Flow Rate (gpm)	Total Run Time (%)
FY 2001																
299-W15-32	15.2	13.9	11.6	10.5	11.5	12.0	9.2	7.4	7.3	7.2	7.0	14.4	5,177,634	50.0	10.6	95.8%
299-W15-33	15.7	16.2	16.1	15.4	13.8	13.1	13.9	13.3	14.8	13.2	13.5	13.2	6,043,773	50.0	14.4	79.0%
299-W15-34	22.7	21.8	21.5	21.5	21.0	21.3	19.7	20.0	20.9	20.2	20.1	66.8	10,574,895	50.0	24.8	91.6%
299-W15-35	81.6	81.1	81.3	81.5	81.5	81.8	80.8	80.4	81.6	79.8	78.9	83.3	41,023,040	50.0	81.1	96.5%
299-W15-36	35.3	35.0	34.7	35.0	35.3	34.6	34.2	33.9	34.3	33.9	33.7	36.4	16,492,751	50.0	34.7	91.0%
299-W15-37	16.6	16.7	16.6	16.6	--	--	--	18.7	--	--	--	--	2,439,870	50.0	17.0	28.0%

-- indicates well not operating

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Table 2 - Summary of System Availability 1998 - 2001

Year	Total Time Online (hours)	Total Possible Run Time (hours)	Scheduled Downtime (hours)	Unscheduled Down Time (hours)	Total Availability (%)	Scheduled Availability (%)
1998	7,322	8,760	406	1,032	83.6%	87.6%
1999	8,068	8,760	0	692	92.1%	92.1%
2000	7,089	8,784	1,216	480	80.7%	93.7%
2001	8,508	8,760	77	175	97.1%	98.0%

Total Availability = (Total Possible Run Time - Scheduled and Unscheduled Downtime) / Total Possible Run Time.
Scheduled Availability = Total Time Online / (Total Possible Run Time - Scheduled Downtime).