IP - CULLENDALE
DMR DATA

DATE	FLOW	BOD5	TSS	BODult
4/5/1997	0.0193	8	29	
4/6/1997	0.0193	12	35	23.1
6/17/1997	0.0505	28	12	
8/6/1998	0.0193	8	5	31.3
9/12/1998	0.1011	3	3	
9/13/1998	0.0098	3	4	
9/15/1998	0.0193	3	2	
MEAN	0.034	9.3	12.9	27.2
MIN	0.010	3.0	2.0	23.1
MAX	0.101	28.0	35.0	31.3
STDEV	0.032	8.9	13.6	5.8
n	7.000	7.0	7.0	2.0
CV	0.945	1.0	1.1	0.2

DATE	POND # (001/002)	BOD5	TSS
1/18/1993		28	130
1/18/1993		88	180
1/25/1993		62	4
1/25/1993		102	221
2/1/1993			
2/1/1993			
2/8/1993		4	11
2/15/1993		28	272
2/15/1993		30	1030
2/22/1993		5	1
2/25/1993		36	23
3/1/1993		5	4
3/1/1993		14	196
3/8/1993		5	4
3/8/1993		11	10
3/15/1993		5	1
3/16/1993		16	21
3/22/1993		8	35
3/22/1993		7	33
3/29/1993		5	10
4/5/1993		5	7
4/8/1993		65	207
4/12/1993		5	8
4/15/1993		61	114
4/19/1993		9	41
4/20/1993		47	106
4/26/1993		375	1693
4/26/1993		4	13
5/3/1993		7	14
5/10/1993		23	90
5/10/1993		18	79
5/17/1993		7	30
5/24/1993			6
6/1/1993		5	6
6/21/1993		63	334
6/21/1993		138	150
6/28/1993		4	9
8/4/1993		46	82
8/4/1993		212	52
10/18/1993		32	105
10/18/1993		56	85
11/15/1993		29	33
11/15/1993		58	35
12/3/1993		14	88
12/3/1993		62	432
12/6/1993		9	7
12/13/1993		17	131
12/13/1993		21	31
12/20/1993		3	2
12/28/1993		6	19
1/11/1994		71	100
1/11/1994		23	22
1/17/1994		7	39
1/17/1994		29	31
1/24/1994		4	1
1/26/1994		58	110
1/31/1994		7	9
2/1/1994		9	4
2/7/1994		13	2
2/9/1994		47	64
2/16/1994		6	1
2/21/1994		5	5
2/21/1994		53	23
2/28/1994			7
3/1/1994		31	17
3/1/1994		126	113
3/8/1994		17	17
3/9/1994			60
3/14/1994		11	29
3/21/1994		14	79
3/28/1994		11	11
3/28/1994		74	68
4/4/1994		17	32
4/12/1994		13	42
4/12/1994		24	89
4/18/1994		5	14
MEAN		36	97
MIN		3	1
MAX		375	1693
STDEV		55	233
n		71	74
95%CONF		13	53

RATIO OF MEAN TSS/BOD5 = 2.7

PB-WWTP

Ammonia

DISCHG. CONC	DISCHG. FLOW	U/S CONC.	U/S FLOW	TOTAL FLOW	IWC
15	18.7	0.1	1100	1118.7	0.35
15	14	0.1	1100	1114	0.29
15	12	0.1	1100	1112	0.26
15	10	0.1	1100	1110	0.23
15	30	0.1	1100	1130	0.50
15	15.1	0.1	891	906.1	0.35
15	14	0.1	891	905	0.33
15	10	0.1	891	901	0.27
15	8	0.1	891	899	0.23
15	30	0.1	891	921	0.59
				0	#DIV/0!
				0	#DIV/0!

DISCHG. CONC	DISCHG. FLOW	U/S CONC.	U/S FLOW	TOTAL FLOW	IWC
6.4	0.07	5.5	0.45	0.52	5.62
6.4	0.07	5.5	0.45	0.52	5.62
5.5	0.07	4.7	0.45	0.52	4.81
6.4	0.14	5.5	0.45	0.59	5.71
6.4	0.14	5.5	0.45	0.59	5.71
5.5	0.14	4.7	0.45	0.59	4.89
2.9	0.07	2.3	0.45	0.52	2.38
2.9	0.02	2.3	0.63	0.65	2.32
6.4	0.02	5.5	0.63	0.65	5.53

Culvert/Pipe Flow

CALC. I.D.	Diameter (ft)	Theta (radians)	DEPTH (ft)	d (ft)	WIDTH (ft)	CX area (sq ft)	wet perim. (ft)	HYDR. RADIUS (ft)	SLOPE (ft/ft)	S1/2	ROUGHNESS COEF.	VELOCITY (fps)	FLOW (cfs)	FLOW (MGD)
CHB-3-5	1	1.804	0.19	0.31	0.78	0.104	0.902	0.115	0.00003	0.00548	0.02	0.10	0.01	0.01
CHB-6-7	1	1.219	0.09	0.41	0.57	0.035	0.609	0.057	0.00003	0.00548	0.02	0.06	0.00	0.00
GB-2-3	1	1.904	0.21	0.29	0.81	0.120	0.952	0.126	0.00003	0.00548	0.02	0.10	0.01	0.01
CHB-3-5	1	2.094	0.25	0.25	0.87	0.154	1.047	0.147	0.00005	0.00707	0.02	0.15	0.02	0.01
CHB-6-7	1	1.700	0.17	0.33	0.75	0.089	0.850	0.104	0.00005	0.00707	0.02	0.12	0.01	0.01
GB-2-3	1	1.753	0.18	0.32	0.77	0.096	0.876	0.110	0.00005	0.00707	0.02	0.12	0.01	0.01
		3.142		0	0.00	0.000	0.000	0.000	0.0019	0.04359	0.02	0.00	0.00	0.00
		3.142		0	0.00	0.000	0.000	0.000	0.0019	0.04359	0.02	0.00	0.00	0.00
		3.142		0	0.00	0.000	0.000	0.000	0.0019	0.04359	0.02	0.00	0.00	0.00