CATEGORY	POLLUTANT	MAXIMUM DAILY		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD
		Conc.	Units	Conc.	Units	No. of Samples	
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	BOD5	17	Mg/L	5	Mg/L	88	SM5210 B.
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	FECAL COLIFORM	110	Mg/l	3	Mg/l	88	SM9222 D.
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	TOTAL SUSPENED SOLIDS (TSS)	15	Mg/L	5	Mg/L	211	SM2540 D.
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	AMMONIA (as N)	3	Mg/l	1.5	Mg/l	8	
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	DISSOLVED OXYGEN	7.8	Mg/l	3.73	Mg/l	290	SM4500-O G.
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	COPPER	0.011	mg/L	0.004	mg/L	3	200.8
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	ZINC	0.023	mg/L	0.038	mg/L	3	200.8
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	TOTAL PHENOLIC COMPOUNDS	0.002	mg/l	0	mg/L	3	420.1
VOLATILE ORGANIC COMPOUNDS	CHOLOROFORM	1.9	ug/L	0.63	ug/L	3	624
BASE-NEUTRAL COMPOUNDS	DI-N-BUTYL PHTHALATE	1.1	ug/L	0.6	ug/L	3	625

Table III: Expanded Effluent Testing - Summary of EPA Form 2A

CATEGORY	POLLUTANT	MAXIMUM DAILY		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD
		Conc.	Units	Conc.	Units	Number of Samples	
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	BOD5	17	Mg/L	5	Mg/L	88	SM5210 B.
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	CBOD5						
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	FECAL COLIFORM	110	Mg/l	3	Mg/l	88	SM9222 D.
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	TOTAL SUSPENED SOLIDS (TSS)	15	Mg/L	5	Mg/L	211	SM2540 D.
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	AMMONIA (as N)	3	Mg/l	1.5	Mg/l	8	
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	CHLORINE (TOTAL RESIDUAL, TRC)						
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	DISSOLVED OXYGEN	7.8	Mg/l	3.73	Mg/l	290	SM4500-O G.
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	TOTAL KJELDAHL NITROGEN (TKN)						
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	NITRATE PLUS NITRITE NITROGEN						
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	OIL and GREASE	ND		ND		3	1664
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	PHOSPHORUS (Total)						
CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS	TOTAL DISSOLVED SOLIDS (TDS)						
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	ANTIMONY	ND	mg/L	ND	mg/L	3	200.8
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	ARSENIC	ND	mg/L	ND	mg/L	3	200.8
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	BERYLLIUM	ND	mg/L	ND	mg/L	3	200.8
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	CADMIUM	ND	mg/L	ND	mg/L	3	200.8
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	CHROMIUM	ND	mg/L	ND	mg/L	3	200.8

Table III: Expanded Effluent Testing - Summary of EPA Form 2A

CATEGORY	POLLUTANT	MAXIMUM DAILY Conc.	MAXIMUM DAILY Units	AVERAGE DAILY DISCHARGE Conc.	AVERAGE DAILY DISCHARGE Units	Number of Samples	ANALYTICAL METHOD
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	COPPER	0.011	mg/L	0.004	mg/L	3	200.8
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	LEAD	ND	mg/L	ND	mg/L	3	200.8
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	MERCURY	ND	mg/L	ND	mg/L	3	245.1
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	NICKEL	ND	mg/L	ND	mg/L	3	200.8
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	SELENIUM	ND	mg/L	ND	mg/L	3	200.8
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	SILVER	ND	mg/L	ND	mg/L	3	200.8
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	THALLIUM	ND	mg/L	ND	mg/L	3	200.8
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	ZINC	0.023	mg/L	0.038	mg/L	3	200.8
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	CYANIDE	ND	mg/L	ND	mg/L	3	SM 4500-CN
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	TOTAL PHENOLIC COMPOUNDS	0.002	mg/l	0	mg/L	3	420.1
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.	HARDNESS (AS CaCO3)						
VOLATILE ORGANIC COMPOUNDS	ACROLEIN	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	ACRYLONITRILE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	BENZENE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	BROMOFORM	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	CARBON TETRACHLORIDE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	COLORBENZEN	ND	ug/L	ND	ug/L	3	624

Table III: Expanded Effluent Testing - Summary of EPA Form 2A

CATEGORY	POLLUTANT	MAXIMUM DAILY Conc.	MAXIMUM DAILY Units	AVERAGE DAILY DISCHARGE Conc.	AVERAGE DAILY DISCHARGE Units	Number of Samples	ANALYTICAL METHOD
VOLATILE ORGANIC COMPOUNDS	CHLOROBIDBROMO-METHANE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	CHLOROETHANE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	2-CHLORO-ETHYLVINYL ETHER	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	CHOLOROFORM	1.9	ug/L	0.63	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	DICHLOROBROMO-METHANE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	1,1-DICHLOROETHANE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	TRANS-1,2-DICHLORO-ETHYLENE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	1,1-DICHLOROPROPANE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	ETHYLBENZEN	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	METHYL BROMIDE						
VOLATILE ORGANIC COMPOUNDS	METHYL CHLORIDE						
VOLATILE ORGANIC COMPOUNDS	METHYLENE CHLORIDE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	1,1,2,2-TETRACHLORO ETHANE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	TETRACHLORO-ETHYLENE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	TOLUNE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	1,1,1-TRICHLOROETHANE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	1,1,2-TRICHLOROETHANE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	TRICH LORETHYLENE	ND	ug/L	ND	ug/L	3	624
VOLATILE ORGANIC COMPOUNDS	VINYL CHLORIDE	ND	ug/L	ND	ug/L	3	624
ACID-EXTRACTABLE COMPOUNDS	P-CHLORO-M-CRESOL	ND	ug/L	ND	ug/L	3	625
ACID-EXTRACTABLE COMPOUNDS	2-CHLOROPHENOL	ND	ug/L	ND	ug/L	3	625
ACID-EXTRACTABLE COMPOUNDS	2,4-DIMETHYLPHENOL	ND	ug/L	ND	ug/L	3	625
ACID-EXTRACTABLE COMPOUNDS	4,6-DINITRO-O-CRESOL	ND	ug/L	ND	ug/L	3	625
ACID-EXTRACTABLE COMPOUNDS	2-NITROPHENOL	ND	ug/L	ND	ug/L	3	625
ACID-EXTRACTABLE COMPOUNDS	4-NITROPHENOL	ND	ug/L	ND	ug/L	3	625
ACID-EXTRACTABLE COMPOUNDS	PENTA CHLOROPHENOL	ND	ug/L	ND	ug/L	3	625
ACID-EXTRACTABLE COMPOUNDS	PHENOL	ND	ug/L	ND	ug/L	3	625

Table III: Expanded Effluent Testing - Summary of EPA Form 2A

CATEGORY	POLLUTANT	MAXIMUM DAILY Conc.	MAXIMUM DAILY Units	AVERAGE DAILY DISCHARGE Conc.	AVERAGE DAILY DISCHARGE Units	Number of Samples	ANALYTICAL METHOD
ACID-EXTRACTABLE COMPOUNDS	2,4,6-TRICHLORO	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	ACENAPHTHENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	ACENAPHTYLENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	ANTHRACENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	BENZIDINE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	BENZO(A) ANTHRACENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	BENZO(A)PYRENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	3.4 BENZO-FLUORANTHENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	BENZO(GHI)PERYLENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	BENZO(K)FLOURANTHENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	BIS (2-CHLORO ETHOXY) METHANE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	BIS (2-CHLOROETHYL) ETHER	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	BIS (2-CHLOROISO-PROPYL) ETHER	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	BIS (2-ETHYLHEXYL) PHTHALATE						
BASE-NEUTRAL COMPOUNDS	4-BROMOPHENYL PHENYL ETHER	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	BUTYL BENZYL PHTHALATE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	2-CHLORO NAPHTHALENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	4-CHLORPHENYL PHENYL ETHER	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	CHRYSENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	DI-N-BUTYL PHTHALATE	1.1	ug/L	0.6	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	DI-N-OCTYL PHTHALATE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	DIBENZO(A,H) ANTHRACENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	1,2-DICHLORO BENZENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	1,3-DICHLORO BENZENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	1,4-DICHLORO BENZENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	3,3-DICHLORO BENZIDINE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	DIETHYL PHTHALATE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	DIMETHYL PHTHALATE	ND	ug/L	ND	ug/L	3	625

Table III: Expanded Effluent Testing - Summary of EPA Form 2A

CATEGORY	POLLUTANT	MAXIMUM DAILY		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD
		Conc.	Units	Conc.	Units	Number of Samples	
BASE-NEUTRAL COMPOUNDS	2,4-DINITROTOLUENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	2,6-DINITROTOLUENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	1,2-DIPHENYLHYDRAZINE						
BASE-NEUTRAL COMPOUNDS	FLUORANTHENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	FLUORENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	HEXACHLORO BENZENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	HEXACHLOROBUTADIENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	HEXACHLOROCYCLO-PENTADIENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	HEXA CHLOROETHANE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	INDENO(1,2,3-CD) PYRENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	ISOPHORONE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	NAPHTHALENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	NITROBENZENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	N-NITROSODI-N-PROPYLAMINE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	N-NITROSODI-METHYLAMINE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	N-NITROSODI-PHENYLAMINE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	PHENANTHRENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	PYRENE	ND	ug/L	ND	ug/L	3	625
BASE-NEUTRAL COMPOUNDS	1,2,4-TRICHLOROBENZENE	ND	ug/L	ND	ug/L	3	625

Appendix C:

Table I: Sedro-Woolley Effluent DMR Data

Analysis	BOD, 5-DAY (20 DEG. C)	BOD, 5-DAY (20 DEG. C)	BOD, 5-DAY (20 DEG. C)	BOD, 5-DAY (20 DEG. C)	BOD, 5-DAY PERCENT REMOVAL	COLIFORM, FECAL	COLIFORM, FECAL	PH	PH	SOLIDS, SUSPENDED, % REMOVAL	SOLIDS, TOTAL SUSPENDED	SOLIDS, TOTAL SUSPENDED	SOLIDS, TOTAL SUSPENDED	SOLIDS, TOTAL SUSPENDED
Units	AVG	AVG	AVW	AVW	AVG	AVG	MAX	MAX	MIN	AVG	AVG	AVG	AVW	MAX
	LBS/DAY	MG/L	LBS/DAY	MG/L	PERCENT	#/100 ML	#/100 ML	S.U.	S.U.	PERCENT	LBS/DAY	MG/L	MG/L	LBS/DAY
Design Criteria														
Limit	518	30	777	45	85	200	400	9.0	6.0	85	518	30.0	45	777
1-Feb-00	9.9	2.8	13.0	3.5	98.4	16.0	245.0	7.0	6.5	98.1	10.0	2.7	3.6	14.0
1-Mar-00	21.0	3.8	47.5	6.0	97.9	21.6	381.0	6.8	6.2	97.3	20.1	3.6	6.0	44.0
1-Apr-00	27.1	3.4	44.5	4.0	97.5	4.0	41.0	6.8	6.2	97.7	18.5	2.7	3.8	25.6
1-May-00	28.3	3.3	53.0	4.5	98.6	4.1	14.1	7.0	6.5	97.2	33.6	4.0	5.8	61.8
1-Jun-00	18.8	3.2	24.5	5.0	98.2	8.5	40.0	6.8	6.3	96.0	38.8	7.1	18.6	93.4
1-Jul-00	12.5	2.9	16.0	3.5	98.8	18.0	42.7	6.9	6.5	98.6	11.6	2.7	3.4	14.4
1-Aug-00	14.4	3.4	17.0	4.0	98.4	5.3	18.2	6.5	6.4	98.3	13.2	3.1	5.0	22.5
1-Sep-00	13.1	3.0	20.0	4.5	98.8	16.5	66.9	6.7	6.2	99.0	8.6	2.1	2.6	9.2
1-Oct-00	13.0	2.8	15.5	3.0	98.9	5.4	7.8	6.9	6.1	98.6	13.8	2.8	3.8	17.0
1-Nov-00	18.0	3.8	98.5	5.0	98.4	3.1	17.0	6.7	6.0	97.6	19.4	4.0	5.0	27.5
1-Dec-00	25.6	5.8	33.0	7.5	97.8	7.5	25.3	6.8	6.1	95.5	39.7	8.8	12.0	53.4
1-Jan-01	22.0	4.2	31.0	6.0	98.1	6.0	12.0	6.5	6.0	95.4	35.8	6.6	7.8	44.0
1-Feb-01	35.5	5.4	49.0	8.5	97.4	13.3	50.2	7.9	6.4	96.8	40.8	5.9	8.4	47.0
1-Mar-01	30.9	5.3	35.5	6.5	97.9	7.7	18.8	7.1	6.0	96.5	31.1	5.2	6.0	37.8
1-Apr-01	27.6	4.4	33.5	6.0	98.0	4.6	9.4	7.0	6.6	96.7	30.7	4.7	5.2	35.2
1-May-01	29.3	4.5	43.5	6.0	97.6	8.8	132.0	7.1	6.7	97.3	32.0	4.7	6.7	41.8
1-Jun-01	22.9	3.6	28.0	5.0	98.3	4.3	10.0	7.2	6.7	97.4	32.3	4.3	10.0	44.2
1-Jul-01	14.0	3.0	16.0	3.0	99.0	5.1	10.9	6.9	6.3	98.0	19.0	4.0	5.0	27.0
1-Aug-01	23.8	4.5	25.0	5.0	98.5	15.2	14.7	6.9	6.4	97.5	26.3	5.1	10.6	54.0
1-Sep-01	29.0	6.0	37.0	8.0	98.0	16.0	37.0	6.7	6.2	95.0	49.0	9.0	17.0	86.0
1-Oct-01	34.3	5.4	65.5	8.5	97.7	18.9	58.0	7.1	6.0	93.0	74.7	12.0	14.2	104.0
1-Nov-01	26.0	4.0	39.0	7.0	98.0	4.1	5.4	7.3	6.8	96.0	36.0	5.0	12.0	75.0
1-Dec-01	27.0	3.0	38.0	4.0	98.0	7.0	11.5	7.1	6.6	96.0	39.0	5.0	5.0	48.0
1-Jan-02	24.0	3.0	38.0	4.0	98.0	2.0	4.0	6.9	6.5	97.0	31.0	4.0	5.0	37.0
1-Feb-02	38.0	5.0	56.0	7.0	97.0	5.0	7.0	7.1	6.4	94.0	58.0	6.0	8.0	68.0
1-Mar-02	31.0	4.0	40.0	4.0	98.0	6.0	18.0	7.0	6.6	97.0	33.0	4.0	6.0	59.0
1-Apr-02	29.0	3.0	37.0	4.0	98.0	46.0	67.0	7.1	6.6	95.0	46.0	5.0	8.0	67.0
1-May-02	27.0	4.0	33.0	5.0	98.0	3.0	5.0	7.1	6.8	96.0	42.0	6.0	8.0	55.0
1-Jun-02	30.0	5.0	34.0	6.0	97.0	2.0	6.0	7.1	6.8	97.0	33.0	6.0	7.0	39.0
1-Jul-02	31.0	6.0	47.0	9.0	98.0	1.0	2.0	7.0	6.7	99.0	15.0	3.0	3.0	20.0
1-Aug-02	15.0	3.0	24.0	5.0	99.0	1.0	3.0	7.2	6.6	98.0	14.0	3.0	7.0	36.0
1-Sep-02	20.0	4.0	24.0	5.0	99.0	1.0	2.0	7.2	6.5	97.0	36.0	7.0	10.0	58.0
1-Oct-02	26.0	5.0	56.0	12.0	98.0	1.0	3.0	7.2	6.8	98.0	24.0	5.0	7.0	34.0
1-Nov-02	25.0	5.0	36.0	6.0	98.0	1.0	3.0	6.9	6.2	93.0	79.0	13.0	33.0	211.0
Maximum	38.0	6.0	98.5	12.0	99.0	46.0	381.0	7.9	6.8	99.0	79.0	13.0	33.0	211.0
Minimum	9.9	2.8	13.0	3.0	97.0	1.0	2.0	6.5	6.0	93.0	8.6	2.1	2.6	9.2
Average	24.1	4.1	36.7	5.6	98.1	8.5	40.8	7.0	6.4	96.8	31.9	5.2	8.2	50.3

Appendix C

Table II: Sedro-Woolley Influent DMR Data

Analysis	BOD, 5-DAY (20 DEG. C)	BOD, 5-DAY (20 DEG. C)	BOD, 5-DAY (20 DEG. C)	BOD, 5-DAY (20 DEG. C)	FLOW, IN CONDUIT OR THRU TREATMENT PLANT	FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SOLIDS, TOTAL SUSPENDED	SOLIDS, TOTAL SUSPENDED	SOLIDS, TOTAL SUSPENDED	SOLIDS, TOTAL SUSPENDED
Units	AVG	AVG	MAX	MAX	AVG	MAX	AVG	AVG	MAX	MAX
	LBS/DAY	MG/L	LBS/DAY	MG/L	MGD	MGD	LBS/DAY	MG/L	LBS/DAY	MG/L
Design Criteria	4160		4160				4750		4160	
Limit	3536	na	3536	na	2.07	2.07	4037.5	na	3536	na
1-Feb-00	616	173	881	252	0.431	0.51	519	140.5	1048	274
1-Mar-00	933	180	1507	224	0.667	1.221	700	131	1335	214
1-Apr-00	972	135	1233	207	0.877	1.972	873	118.3	2664	178
1-May-00	1810	226	2688	327	0.893	1.488	1075	139.9	2349	225
1-Jun-00	1038	174	1635	239	0.694	1.071	1054	178.3	1657	248
1-Jul-00	866	234	1203	300	0.527	0.651	814	186.2	1072	248
1-Aug-00	915	219	1113	267	0.519	0.641	768	176.5	1495	348
1-Sep-00	1115	258	1384	316	0.524	0.585	982	221	4229	964
1-Oct-00	1178	248	1553	297	0.597	0.87	1002	203.1	2156	504
1-Nov-00	1116	234	1505	273	0.571	0.737	805	166.1	1544	336
1-Dec-00	1184	264	2153	254	0.56	0.765	880	196.4	1392	308
1-Jan-01	1151	218	1574	306	0.639	0.924	778	143.5	1600	260
1-Feb-01	1454	209	2428	305	0.888	1.364	1301	181.9	2685	286
1-Mar-01	1508	259	1771	303	0.705	0.909	891	148.8	1651	228
1-Apr-01	1371	224	1544	280	0.764	0.987	917	143.7	1788	254
1-May-01	1181	187	1491	270	0.76	1.066	1135	179	3145	592
1-Jun-01	1320	213	1484	266	0.742	1.545	1207	187.8	2835	308
1-Jul-01	1349	264	1678	332	0.614	0.699	1058	204	1773	352
1-Aug-01	1594	302	2419	370	0.604	0.786	1070	207.1	1717	290
1-Sep-01	1358	271	1590	327	0.591	0.749	1050	206	2096	426
1-Oct-01	1334	234	1704	265	0.708	1.031	1014	172.5	1120	192
1-Nov-01	1343	204	1794	273	**0.792**	**1.205**	1026	151	1207	185
1-Dec-01	1539	202	2103	316	0.995	1.934	964	120	1402	216
1-Jan-02	1324	178	1695	241	0.928	1.491	952	131	1977	302
1-Feb-02	1251	159	1465	199	1.091	2.102	942	113	2293	228
1-Mar-02	1496	172	1702	201	1.009	1.283	945	110	1805	234
1-Apr-02	1198	138	1540	168	1.043	1.36	956	110	1525	164
1-May-02	1540	236	1848	285	0.777	0.978	1201	179	2177	300
1-Jun-02	1010	173	1254	224	0.698	0.885	1178	202	2052	370
1-Jul-02	1420	265	1912	360	0.654	0.809	1405	252	3339	602
1-Aug-02	1311	253	2352	449	0.62	0.807	963	179	1412	222
1-Sep-02	1485	293	1690	328	0.626	0.768	1374	255	2799	552
1-Oct-02	1159	233	1719	359	0.609	0.715	1330	258	2713	556
1-Nov-02	1399	261	1801	357	0.629	0.979	1032	189	1848	324
Maximum	1810.0	302.0	2688.0	449.0	1.1	2.1	1405.0	258.0	4229.0	964.0
Minimum	616.0	135.0	881.0	168.0	0.4	0.5	519.0	110.0	1048.0	164.0
Average	1259.9	220.4	1688.6	286.5	0.7	1.1	1004.7	173.0	1997.1	332.1
% below design	70%		59%		65%	49%	79%		52%	

Green shaded area indicates the critical period for purposes for determining the dilution zone.

Appendix C
Table IV: Toxic Pollutant in Effluent

FACILITY: Sedro-Woolley

RUN DATE: 3/4/2004
PREPARED BY: Karen Burgess

WATER QUALITY CRITERIA (in ug/L unless otherwise noted)

						Water Quality Criteria				Human Health Criteria		Organoleptic Effects	Metals Translators				
						Fresh		Marine		Fresh	Marine		Fresh		Marine		
Pollutant	CAS. No.	Application Ref. No.	Based on Hardness	Priority Pollutant	Carcinogen	WQ-F-acute	WQ-M-chronic	WQ-M-acute	WQ-M-chronic	HH-F	0.000023	OE	MT-F-acute	MT-F-Chronic	MT-M-acute	MT-M-chronic	Source and Comments
AMMONIA unionized -see seperate spreadsheets for FW criteria				N	N			233	35								WAC 173-201A
CHLOROFORM	67663	11V		Y	Y	28900	1240			5.70	470						Gold Book, NTR - HH
COPPER	744058	6M	50.0	Y	N	8.86	6.28	4.80	3.10			1000.00	0.996	0.996	0.83	0.83	WAC 173-201A
DIBUTYLPHTHALATE	84742			Y	N	940	3	2944	3.40	2700	12000						Gold Book, NTR - HH
PHENOL	108952	10A		Y	N	10200	2560	5800		21000	4600000	300					Gold Book, NTR - HH
ZINC	7440666	13M	50.0	Y	N	63.61	58.09	90.00	81.00			5000.00	0.996	0.996	0.946	0.946	WAC 173-201A,

Appendix C
Table V: Resonable Potential Calculation

This spreadsheet calculates the reasonable potential to exceed state water quality standards for a small number of samples. The procedure and calculations are done per the procedure in Technical Support Document for Water Quality-based Toxics Control U.S. EPA, March, 1991 (EPA/505/2-90-001) on page 56. User input columns are shown with red headings. Corrected formulas in col G and H on 5/98 (GB)

CALCULATIONS

	Metal Criteria Translator as decimal		Ambient Concentration	State Water Quality Standard		Max concentration at edge of Mixing Zone					Max effluent conc. Measured					Dilution Factor		
	Acute	Chronic	(metals as dissolved)	Acute	Chronic	Acute	Chronic	LIMIT REQ'D?	Effluent percentile value		(metals as total recoverable)	Coeff Variation		# of samples	Multiplier	Acute	Chronic	
Parameter	25.00	250.00	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*			*Pn*	*ug/L*	*CV*	*s*	*n*				COMMENTS
AMMONIA (total)				17400.00	1500.00	189.82	21.90	NO	0.95	0.688	3000.00	0.60	0.55	8	1.90	30	260	
CHLOROFORM				28900	1240	0.19	0.02	NO	0.95	0.368	1.90000	0.60	0.55	3	3.00	30	260	
COPPER	0.996	0.996		8.86	6.28	0.00	0.00	NO	0.95	0.368	0.000011	0.60	0.55	3	3.00	30	260	
DIBUTYLPHTHALATE				940	3	0.11	0.01	NO	0.95	0.368	1.100000	0.60	0.55	3	3.00	30	260	
PHENOL				10200	2560	0.00	0.00	NO	0.95	0.368	0.000002	0.60	0.55	3	3.00	30	260	
ZINC	0.996	0.996		63.61	58.09	0.00	0.00	NO	0.95	0.368	0.000057	0.60	0.55	3	3.00	30	260	

Appendix C
Table VI: Ammonia Criteria

Calculation Of Ammonia Concentration and Criteria for fresh water. Based on EPA Quality Criteria for Water (EPA 400/5-86-001) and WAC 173-201A. Revised 1-5-94 (corrected total ammonia criterion). Revised 3/10/95 to calculate chronic criteria in accordance with EPA Memorandum from Heber to WQ Stds Coordinators dated July 30, 1992.

INPUT				
1. Ambient Temperature (deg C; 0<T<30)	14.1	22.2	22.2	14.1
2. Ambient pH (6.5<pH<9.0)	6.50	7.18	6.50	7.18
3. Acute TCAP (Salmonids present- 20; absent- 25)	20	20	20	20
4. Chronic TCAP (Salmonids present- 15; absent- 20)	15	15	15	15
OUTPUT				
1. Intermediate Calculations:				
Acute FT	1.50	1.00	1.00	1.50
Chronic FT	1.50	1.41	1.41	1.50
FPH	7.15	2.13	7.15	2.13
RATIO	36	25	36	25
pKa	9.59	9.33	9.33	9.59
Fraction Of Total Ammonia Present As Un-ionized	0.0808%	0.7004%	0.1471%	0.3856%
2. Un-ionized Ammonia Criteria				
Acute (1-hour) Un-ionized Ammonia Criterion (ug NH3/L)	24.2	122.2	36.3	81.3
Chronic (4-day) Un-ionized Ammonia Criterion (ug NH3/L)	2.1	10.6	2.2	9.9
3. Total Ammonia Criteria:				
Acute Total Ammonia Criterion (mg NH3+ NH4/L)	29.9	17.4	24.7	21.1
Chronic Total Ammonia Criterion (mg NH3+ NH4/L)	2.6	1.5	1.5	2.6
4. Total Ammonia Criteria expressed as Nitrogen:				
Acute Ammonia Criterion as mg N	24.6	14.3	20.3	17.3
Chronic Ammonia Criterion as N	2.11	1.24	1.23	2.11

Note that high temperature and high pH produce the worst case scenerio.

Appendix C
Table VII: Reasonable Potential Calculation for Human Health

Revised 3/00

Parameter	Ambient Concentration (Geometric Mean)	Water Quality Criteria for Protection of Human Health	Max concentration at edge of chronic mixing zone.	LIMIT REQ'D?	Expected Number of Compliance Samples per Month	AVERAGE MONTHLY EFFLUENT LIMIT	MAXIMUM DAILY EFFLUENT LIMIT	Estimated Percentile at 95% Confidence		Max effluent conc. measured	Coeff Variation		# of samples from which # in col. K was taken	Multiplier	Calculated 50th percentile Effluent Conc. (When n>10)	Dilution Factor
			ug/L		**0.00**	*ug/L*	*ug/L*		*Pn*	*ug/L*	*CV*	**S**	*n*			
CHLOROFORM	0.63	5.70	0.64	**NO**	**0.00**	**NONE**	**NONE**	0.50	0.37	1.900	0.60	0.6	3	1.20	0.00	260.0
DIBUTYLPHTHALATE	0.6000	2700	0.60	**NO**	**0.00**	**NONE**	**NONE**	0.50	0.37	1.100	0.60	0.6	3	1.20	0.00	260.0
PHENOL	0.0000	21000	0.00	**NO**	**0.00**	**NONE**	**NONE**	0.50	0.37	0.000	0.600000	0.6	3	1.20	0.00	260.0