

Table A-19

AGGREGATE DEMAND SCHEDULE FOR PUN 7 OF THE MOHAWK PERMIT SYSTEM SIMULATION

PRICE OF PERMIT	DEMAND, LBS/DAY	PRICE OF PERMIT	DEMAND, LBS/DAY
0.0	12510.00	589.75	5479.02
128.33	11318.00	594.38	5293.86
128.71	11316.40	612.10	4586.68
140.89	11111.41	634.46	4136.69
149.76	10889.00	656.82	3686.69
162.96	10438.48	722.81	2700.76
178.25	10108.34	737.21	2616.91
189.90	9951.88	806.31	2205.68
216.18	9833.58	830.26	2063.15
229.96	9758.35	870.73	1953.31
251.66	9607.91	959.24	1713.08
323.16	9136.57	1034.18	1509.66
326.49	9117.14	1127.98	1250.55
358.51	8756.81	1216.96	1096.04
359.26	8746.00	1222.75	1089.93
456.45	7426.50	1343.90	961.96
484.63	7044.41	1708.29	837.56
524.49	6468.89	1709.11	837.49
524.65	6466.41	2106.47	733.00
574.57	5716.41	2503.83	712.00
		2901.20	691.00

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Table A-20

RESPONSES OF BIDDERS FOR RUN 7 OF THE MCHAWK PERMIT SYSTEM SIMULATION

NUMBER ISSUES= 4000.

TERM= 5 YRS

UNIT=LBS/DAY BCD

MARKET CLEARING PRICE=\$ 641.25

POLLUTER	PERMITS FOUGHT	CCST	TREATMENT	CCST	TOTAL COST
	LBS/DAY	\$	LBS/DAY	\$	\$
ILION	552.33	354181.44	4447.67	543372.56	897554.00
FT PLAIN	265.91	170512.31	4914.09	393752.69	564305.00
CANAJOHARIE	559.22	358670.81	5440.67	622113.81	980784.63
HERKIMER	276.94	177588.63	1933.06	36314.36	213902.94
LITTLE FALLS	127.76	81929.00	4202.23	987541.94	1069470.00
ROME	751.80	482091.94	7038.20	867348.13	1349440.00
ST JOHNSVILLE	434.58	278675.44	3845.42	461758.75	740434.19
UTICA	1031.35	661351.88	27798.65	1627520.00	2288871.00
TOTALS	4000.00	2564999.00	59619.99	5539760.00	8104760.00

  

	LBS/DAY	\$/YR	LBS/DAY	\$/YR	\$/YR
ILION	552.33	93432.75	4447.67	143341.25	236774.00
FT PLAIN	265.91	44981.01	4914.09	103882.19	148863.19
CANAJOHARIE	559.22	94617.06	5440.67	164113.13	258730.19
HERKIMER	276.94	46847.74	1933.06	9579.70	56427.43
LITTLE FALLS	127.76	21612.80	4202.23	260512.75	282125.50
ROME	751.80	127175.44	7038.20	228805.69	355981.13
ST JOHNSVILLE	434.58	73514.31	3845.42	121811.56	195325.88
UTICA	1031.35	174464.06	27798.65	429338.44	603802.50
TOTALS	4000.00	676644.69	59619.99	1461384.00	2138028.00

TOTAL NATIONAL INCOME CCST=\$ 5114720.00/YR

Table A-21

RESPONSES OF BIDDERS FOR RUN 7 OF THE MOHAWK PERMIT SYSTEM SIMULATION

NUMBER ISSUED= 2000.

TERM= 5 YRS

UNIT=LBS/DAY BCD

MARKET CLEARING PRICE=\$ 357.57

POLLUTER	PERMITS BOUGHT LBS/DAY	CCST \$	TREATMENT LBS/DAY	CCST \$	TOTAL COST \$
ILION	400.57	341899.44	4599.43	656794.13	998693.56
FT PLAIN	256.77	219161.88	4923.23	400618.50	619780.38
CANAJOHARIE	341.56	291531.44	5658.44	784871.69	1076403.00
HERKIMER	235.89	201340.63	1974.11	67695.00	269035.63
A-31 LITTLE FALLS	47.00	40115.67	4283.00	1039961.56	1080077.00
ROME	140.00	119493.44	7650.00	1317482.00	1436975.00
ST JOHNSVILLE	290.20	247692.25	3989.80	569668.13	817360.38
UTICA	288.00	245815.13	28542.00	2134507.00	2380322.00
TOTALS	2000.00	1707048.00	61620.00	6971596.00	8678645.00

  

	LBS/DAY	\$/YR	LBS/DAY	\$/YR	\$/YR
ILION	400.57	90192.75	4599.43	173261.75	263454.50
FT PLAIN	256.77	57814.73	4923.23	105682.81	163497.50
CANAJOHARIE	341.56	76905.75	5658.44	207048.50	283954.25
HERKIMER	235.89	53113.50	1974.11	17857.89	70971.38
LITTLE FALLS	47.00	10582.48	4283.00	274341.00	284923.44
ROME	140.00	31522.27	7650.00	347550.69	379072.94
ST JOHNSVILLE	290.20	65341.02	3989.80	150278.00	215619.00
UTICA	288.00	64845.83	28542.00	563081.25	627927.06
TOTALS	2000.00	450317.88	61620.00	1839101.00	2289418.00

TOTAL NATIONAL INCOME COST=\$ 6449418.00/YR

The following three pages contain Tables A-22, A-23, and A-24 of the Meta Systems Inc report, "Marketable Effluent Permit Systems." Table A-22 gives the aggregate demand schedule for permits from computer run 8. Tables A-23 and A-24 give the market-clearing results for computer run 8 when the supply of permits is set at 4,000 and 2,000 pounds per day of BOD respectively. The contents of all three tables are described in more detail in Section 6 of this report.

Table A-22

AGGREGATE DEMAND SCHEDULE FOR RUN 8 OF THE MOHAWK PERMIT SYSTEM SIMULATION

PRICE OF PERMIT	DEMAND, LBS/DAY	PRICE OF PERMIT	DEMAND, LBS/DAY
0.0	13624.00	780.36	5172.98
144.45	12835.71	811.70	4738.66
165.93	11677.28	850.42	4187.98
190.63	11536.60	852.91	4151.59
195.74	11481.13	898.61	3483.37
210.77	11341.47	1020.61	2639.83
217.89	11251.70	1087.58	2353.25
270.06	10396.26	1152.14	2237.47
298.70	10070.32	1205.02	2138.53
308.45	9990.84	1324.70	1914.63
337.37	9861.31	1392.40	1787.96
353.96	9776.67	1672.50	1263.93
424.19	9383.26	1674.49	1261.61
430.03	9251.57	1837.70	1067.22
473.15	8941.52	1880.09	1036.19
517.53	8419.64	1934.38	996.45
619.31	7213.04	2608.03	845.17
664.32	6700.50	2729.67	838.16
685.22	6462.51	3340.15	733.00
737.54	5766.49	3950.64	712.00
		4561.12	691.00

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Table A-23

RESPONSE OF BIDDERS FOR RUN 8 OF THE MOHAWK PERMIT SYSTEM SIMULATION

NUMBER ISSUED= 4000.

TERM= 5 YRS

UNIT=LBS/DAY BOD

MARKET CLEARING PRICE=\$ 863.28

POLLUTER	PERMITS BOUGHT	CCST	TREATMENT	CCST	TOTAL CCST
	LBS/DAY	\$	LBS/DAY	\$	\$
ILION	593.48	512336.44	4406.52	638299.63	1150636.00
FT PLAIN	274.65	237096.38	4905.35	492513.88	729610.25
CANAJOHARIE	631.24	544936.28	5368.76	734456.13	1279392.00
HERKIMER	290.86	251093.25	1919.14	49023.45	300116.69
LITTLE FALLS	461.68	398555.94	3868.32	981702.38	1380258.00
ROME	697.44	602085.63	7092.56	1106675.00	1708760.00
ST JOHNSVILLE	490.22	423285.25	3789.68	542592.63	965877.88
UTICA	560.24	483729.56	28269.66	2524863.00	3008592.00
TOTALS	4000.00	3453116.00	59619.98	7070124.00	10523241.00

  

	LBS/DAY	\$/YR	LPS/DAY	\$/YR	\$/YR
ILION	593.48	171315.13	4406.52	213434.75	384749.88
FT PLAIN	274.65	79280.31	4905.35	164686.88	243967.19
CANAJOHARIE	631.24	182215.94	5368.76	245587.56	427803.50
HERKIMER	290.86	83960.56	1919.14	16392.47	100353.00
LITTLE FALLS	461.68	133269.19	3868.32	328261.88	461531.06
ROME	697.44	201325.50	7092.56	370050.25	571375.75
ST JOHNSVILLE	490.22	141538.19	3789.68	181432.25	322970.44
UTICA	560.24	161749.56	28269.66	844264.31	1006013.88
TOTALS	4000.00	1154653.00	59619.98	2364109.00	3518762.00

TOTAL NATIONAL INCOME CCST=\$ 5133823.00/YR

Table A-24

RESPONSES OF RIDGERS FOR RUN 8 OF THE MCFAWK PERMIT SYSTEM SIMULATION

NUMBER ISSUED= 2000.

TERM= 5 YRS

UNIT=LBS/DAY BCD

MARKET CLEARING PRICE=\$1279.07

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POLLUTER	PERMITS BOUGHT LBS/DAY	COST \$	TREATMENT LBS/DAY	COST \$	TOTAL COST \$
ILION	382.51	489251.25	4617.49	864287.19	1353538.00
FT PLAIN	261.50	334477.25	4918.50	506593.56	841070.81
CANAJOHARIE	337.73	431979.00	5662.27	1048857.00	1480836.00
HERKIMER	243.81	311855.50	1966.19	100835.25	412690.75
LITTLE FALLS	47.00	60116.15	4283.00	1372304.00	1432420.00
ROME	140.00	179069.38	7650.00	1650420.00	1829489.00
ST JOHNSVILLE	299.45	383014.38	3980.55	747052.06	1130066.00
UTICA	238.00	368371.31	28542.00	2764779.00	3133150.00
TOTALS	2000.00	2558132.00	61619.99	9055127.00	11613259.00

  

	LBS/DAY	\$/YR	LBS/DAY	\$/YR	\$/YR
ILION	382.51	163595.94	4617.49	289000.56	452596.50
FT PLAIN	261.50	111842.56	4918.50	169394.88	281237.44
CANAJOHARIE	337.73	144445.19	5662.27	350717.06	495162.25
HERKIMER	243.81	104278.31	1966.19	33717.31	137995.63
LITTLE FALLS	47.00	20101.65	4283.00	458871.31	478972.94
ROME	140.00	59877.26	7650.00	551867.81	611745.06
ST JOHNSVILLE	299.45	128072.44	3980.55	249799.44	377871.88
UTICA	238.00	123176.06	28542.00	924487.44	1047663.50
TOTALS	2000.00	855338.81	61619.99	3027855.00	3883243.00

TOTAL NATIONAL INCOME COST=\$ 6448779.00/YR

The following three pages contain Tables A-25, A-26, and A-27 of the Meta Systems Inc report, "Marketable Effluent Permit Systems." Table A-25 gives the aggregate demand schedule for permits from computer run 9. Tables A-26 and A-27 give the market-clearing results for computer run 9 when the supply of permits is set at 4,000 and 2,000 pounds per day of BOD respectively. The contents of all three tables are described in more detail in Section 6 of this report.



Table A-25

AGGREGATE DEMAND SCHEDULE FOR RUN 9 OF THE MCHAWK PERMIT SYSTEM SIMULATION

PRICE OF PERMIT	DEMAND, LRS/DAY	PRICE OF PERMIT	DEMAND, LBS/DAY
1.00	213619.50	880.07	5403.68
158.90	14170.64	957.83	4404.52
195.66	12763.52	983.68	4065.26
222.45	12511.96	992.19	3953.61
230.14	12414.32	996.06	3901.44
246.59	12225.05	1167.62	2811.44
253.06	12136.13	1222.27	2597.29
323.90	11008.79	1362.84	2362.88
359.16	10608.81	1409.44	2282.91
368.23	10530.16	1556.50	2032.40
392.70	10390.44	1616.14	1931.50
423.36	10206.41	1952.21	1368.39
485.45	9822.91	1997.57	1320.51
510.71	9579.95	2155.18	1151.59
537.87	9274.65	2214.97	1111.30
615.78	8452.59	2240.10	1094.41
740.76	7046.79	3067.10	912.23
749.31	6951.22	3245.83	899.95
799.73	6408.32	3964.91	783.44
866.67	5576.14	4683.98	754.70
		5402.06	728.02

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Table A-26

RESPONSES OF BIDDERS FOR RUN 9 OF THE MCHAWK PERMIT SYSTEM SIMULATION

NUMBER ISSUED= 4000.

TERM= 5 YRS

UNIT=LBS/DAY BOD

MARKET CLEARING PRICE=\$ 938.65

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POLLUTER	PERMITS BOUGHT LBS/DAY	COST \$	TREATMENT LBS/DAY	COST \$	TOTAL COST \$
ILION	600.35	593539.00	4399.64	698508.81	1292047.00
FT PLAIN	276.78	273642.21	4902.21	547021.56	820663.88
CANAJOHARIE	645.84	628506.38	5354.16	805042.00	1443548.00
HERKIMER	294.13	290798.25	1915.87	56150.47	346938.69
LITTLE FALLS	477.05	471622.54	3852.95	1086378.00	1558010.00
ROME	661.24	653733.44	7128.76	1257750.00	1911483.00
ST JOHNSVILLE	501.88	496180.19	3778.12	593528.94	1089709.00
UTICA	340.44	336573.62	28489.56	3053027.00	3389600.00
S.C.U.M.	202.30	199999.94	0.0	0.0	199999.94
TOTALS	4000.00	3994593.00	59822.28	8097405.00	12051997.00

  

	LBS/DAY	\$/YR	LBS/DAY	\$/YR	\$/YR
ILION	600.35	156575.06	4399.64	184266.06	340841.13
FT PLAIN	276.78	72186.63	4902.21	144303.81	216490.44
CANAJOHARIE	645.84	168427.56	5354.16	212369.44	380807.00
HERKIMER	294.13	76709.69	1915.87	14812.45	91522.13
LITTLE FALLS	477.05	124416.28	3852.95	286585.62	411002.00
ROME	661.24	172454.31	7128.76	331793.44	504247.75
ST JOHNSVILLE	501.88	130891.94	3778.12	156572.44	287464.38
UTICA	340.44	98787.21	28489.56	805386.06	894173.88
S.C.U.M.	202.30	52759.82	0.0	0.0	52759.82
TOTALS	4000.00	1043218.50	59822.28	2136089.00	3179307.00

TOTAL NATIONAL INCOME COST=\$ 5269251.00/YR

Table A-27

RESPONSES OF BIDDERS FOR RUN 9 OF THE MOHAWK PERMIT SYSTEM SIMULATION

NUMBER ISSUED= 2000.

TERM= 5 YRS

UNIT=LBS/DAY BCD

MARKET CLEARING PRICE=\$1575.65

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POLLUTER	PERMITS BOUGHT LBS/DAY	COST \$	TREATMENT LBS/DAY	COST \$	TOTAL COST \$
ILION	342.85	540205.56	4657.15	1029023.06	1569228.00
FT PLAIN	260.62	410645.00	4919.38	567746.13	978391.13
CANAJOHARIE	238.94	455272.25	5711.05	1262632.00	1717904.00
HERKIMER	224.66	369737.13	1975.24	134978.19	504715.31
LITTLE FALLS	47.00	74055.69	4283.00	1550027.00	1624082.00
ROME	140.00	220591.44	7650.00	1833961.00	2054552.00
ST JOHNSVILLE	270.97	426950.06	4009.03	889590.19	1316540.00
UTICA	283.00	453788.13	28542.00	3105067.00	3558855.00
S.C.U.M.	126.93	199999.94	0.0	0.0	199999.94
TOTALS	1999.96	3151242.00	61746.96	10373024.00	13524266.00

  

	LBS/DAY	\$/YR	LBS/DAY	\$/YR	\$/YR
ILION	342.85	142505.75	4657.15	271455.44	413961.19
FT PLAIN	260.62	108327.81	4919.38	149770.94	258098.75
CANAJOHARIE	238.94	120100.44	5711.05	333081.31	453181.75
HERKIMER	224.66	97526.21	1975.24	35607.14	133143.44
LITTLE FALLS	47.00	19535.83	4283.00	408895.88	428431.69
ROME	140.00	58191.84	7650.00	483797.44	541989.25
ST JOHNSVILLE	270.97	112629.06	4009.03	234673.13	347302.19
UTICA	283.00	119708.94	28542.00	819114.19	938823.13
S.C.U.M.	126.93	52759.82	0.0	C.C	52759.82
TOTALS	1999.96	831295.13	61746.96	2736395.00	3567690.00

TOTAL NATIONAL INCOME COST=\$ 6555287.00/YR

The following three pages contain Tables A-28, A-29, and A-30 of the Meta Systems Inc report, "Marketable Effluent Permit Systems." Table A-28 gives the aggregate demand schedule for permits from computer run 10. Tables A-29 and A-30 give the market-clearing results for computer run 10 when the supply of permits is set at 4,000 and 2,000 pounds per day of BOD respectively. The contents of all three tables are described in more detail in Section 6 of this report.

Table A-28

AGGREGATE DEMAND SCHEDULE FOR RUN 10 OF THE MCHAWK PERMIT SYSTEM SIMULATION

PRICE OF PERMIT	DEMAND, LBS/DAY	PRICE OF PERMIT	DEMAND, LBS/DAY
1.00	1013619.50	880.07	6312.70
158.90	19205.18	957.83	5239.73
195.66	16852.15	983.68	4878.54
222.45	16108.29	992.19	4759.91
230.14	15890.41	996.06	4704.60
246.59	15469.29	1167.62	3496.60
253.06	15297.43	1222.27	3251.81
323.90	13478.66	1362.84	2949.89
359.16	12836.25	1409.44	2850.51
368.23	12707.72	1556.50	2546.37
392.70	12427.64	1616.14	2426.51
423.36	12096.07	1952.21	1778.18
485.45	11470.86	1997.57	1720.99
510.71	11146.39	2155.18	1522.79
537.87	10812.01	2214.97	1472.48
615.78	9751.75	2240.10	1451.54
740.76	8126.76	3067.10	1173.06
749.31	8018.87	3245.83	1146.42
799.73	7408.66	3964.91	985.21
866.67	6499.22	4683.98	925.49
		5403.06	876.08

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Table A-29

RESPONSES OF BIDDERS FOR RUN 10 OF THE MOHAWK PERMIT SYSTEM SIMULATION

NUMBER ISSUED= 4000.

TERM= 5 YRS

UNIT=LBS/DAY BOD

MARKET CLEARING PRICE=\$1096.13

POLLUTER	PERMITS BOUGHT	CCST	TREATMENT	CCST	TOTAL COST
	LBS/DAY	\$	LBS/DAY	\$	\$
ILION	554.19	607462.13	4445.81	746691.50	1354153.00
FT PLAIN	273.82	300146.55	4906.18	550107.81	850254.38
CANAJOHARIE	580.49	636292.50	5419.51	873159.50	1509452.00
HERKIMER	295.76	313230.50	1924.24	64871.10	378101.56
LITTLE FALLS	218.79	239820.38	4111.21	1355583.00	1595403.00
ROME	421.44	461950.50	7368.56	1507715.00	1969665.00
ST JOHNSVILLE	459.60	503778.12	3820.40	637600.19	1141378.00
UTICA	288.00	315685.00	28542.00	3105067.00	2420752.00
S.C.U.M.	912.30	999999.81	0.0	0.0	999999.81
TOTALS	3994.39	4278763.00	60537.90	8840794.00	13219157.00

  

	LBS/DAY	\$/YR	LBS/DAY	\$/YR	\$/YR
ILION	554.19	150243.00	4445.31	196976.63	357224.63
FT PLAIN	273.82	79179.38	4906.18	145118.00	224296.38
CANAJOHARIE	580.49	167853.44	5419.51	230338.75	398192.19
HERKIMER	295.76	82629.94	1924.24	17112.94	99742.88
LITTLE FALLS	218.79	63264.42	4111.21	357601.69	420866.06
ROME	421.44	121862.13	7368.56	397734.00	519596.13
ST JOHNSVILLE	459.60	132896.25	3820.40	168198.38	301094.63
UTICA	288.00	33277.44	28542.00	819114.19	902391.63
S.C.U.M.	912.30	263799.13	0.0	0.0	263799.13
TOTALS	3994.39	1155008.00	60537.90	2332194.00	3487202.00

TOTAL NATIONAL INCOME COST=\$ 5700798.00/YR

Table A-30

RESPONSES OF BIDDERS FOR RUN 10 OF THE MCHAWK PERMIT SYSTEM SIMULATION

NUMBER ISSUED= 3000.

TERM= 5 YRS

UNIT=LBS/DAY BOD

MARKET CLEARING PRICE=\$1827.23

POLLUTER	PERMITS BOUGHT	COST	TREATMENT	COST	TOTAL COST
	LBS/DAY	\$	LBS/DAY	\$	\$
ILION	227.56	418081.06	4772.44	1225748.00	1643829.00
FT PLAIN	253.42	465581.81	4926.58	580037.56	1045619.38
CANAJOHARIE	129.91	238668.94	5870.09	1534016.00	1772684.00
HERKIMER	197.36	362595.69	2012.64	198621.38	561217.06
LITTLE FALLS	47.00	86249.63	4283.00	1550027.00	1636376.00
ROMF	140.00	257211.63	7650.00	1833961.00	2091172.00
ST JOHNSVILLE	168.07	308786.75	4111.93	1065170.00	1373956.00
UTICA	288.00	529121.06	28542.00	3105067.00	3634188.00
S.C.U.M.	544.30	999999.94	0.0	0.0	999999.94
TOTALS	1995.62	3666292.00	62168.67	11092647.00	14759040.00

  

	LBS/DAY	\$/YR	LBS/DAY	\$/YR	\$/YR
ILION	227.56	110289.44	4772.44	323351.31	433640.75
FT PLAIN	253.42	122820.06	4926.58	153013.44	275833.50
CANAJOHARIE	129.91	62560.68	5870.09	404672.19	467632.81
HERKIMER	197.36	95652.44	2012.64	52396.16	148048.56
LITTLE FALLS	47.00	22778.56	4283.00	408895.88	431674.81
ROMF	140.00	67852.19	7650.00	483797.44	551649.63
ST JOHNSVILLE	168.07	31457.69	4111.93	280991.00	362448.69
UTICA	288.00	139581.69	28542.00	819114.19	958695.88
S.C.U.M.	544.30	263799.19	0.0	0.0	263799.19
TOTALS	1995.62	967191.25	62168.67	2926231.00	3893422.00

TOTAL NATIONAL INCOME COST=\$ 6940253.00/YR

The following three pages contain Tables A-31, A-32, and A-33 of the Meta Systems Inc report, "Marketable Effluent Permit Systems." Table A-31 gives the aggregate demand schedule for permits from computer run 11. Tables A-32 and A-33 give the market-clearing results for computer run 11 when the supply of permits is set at 1,000 and 500 pounds per day of BOD respectively. The contents of all three tables are described in more detail in Section 6 of this report.



Table A-31

AGGREGATE DEMAND SCHEDULE FOR RUN 11 OF THE MOHAWK PERMIT SYSTEM SIMULATION

PRICE OF PERMIT	DEMAND,LBS/DAY
0.0	10180.00
97.40	5225.42
137.89	4554.70
253.06	1987.76
368.23	1262.74
423.36	1071.82
749.31	907.64
992.19	876.69
1616.14	584.50
1997.57	405.89
2240.10	287.21
3245.83	238.33
3964.91	133.00
4683.98	112.00
5403.06	91.00

Table A-32

RESPONSES OF BIDDERS FOR RUN 11 OF THE MCFAWK PERMIT SYSTEM SIMULATION

NUMBER ISSUED= 1000.

TERM= 5 YRS

UNIT=LBS/DAY BOD

MARKET CLEARING PRICE=\$ 565.94

A-46	POLLUTER	PERMITS BOUGHT	CCST	TREATMENT	CCST	TOTAL COST
		LBS/DAY	\$	LBS/DAY	\$	\$
	ILION	642.58	363662.00	4357.42	665689.13	1029351.13
	FT PLAIN	357.42	202280.06	4822.58	492599.69	694879.75
	TOTALS	1000.00	565942.06	9180.00	1158288.00	1724230.00
		LBS/DAY	\$/YR	LBS/DAY	\$/YR	\$/YR
	ILION	642.58	95933.69	4357.42	175608.25	271541.94
	FT PLAIN	357.42	53361.32	4822.58	125547.38	183308.69
	TOTALS	1000.00	149295.06	9180.00	305555.44	454850.50

TOTAL NATIONAL INCOME COST=\$ 786952.63/YR

Table A-33

RESPONSES OF BIDDERS FOR RUN 11 OF THE MCHAWK PERMIT SYSTEM SIMULATION

NUMBER ISSUED= 500.

TERM= 5 YRS

UNIT=LBS/DAY BOD

MARKET CLEARING PRICE=\$1796.60

POLLUTER	PERMITS FOUGHT	COST	TREATMENT	COST	TOTAL COST
	LBS/DAY	\$	LBS/DAY	\$	\$
ILICN	245.47	441004.00	4754.53	1193214.00	1634218.00
FT PLAIN	254.53	457296.81	4925.46	578006.69	1035303.50
TOTALS	500.00	898300.81	9680.00	1771220.00	2669521.00
	LBS/DAY	\$/YR	LBS/DAY	\$/YR	\$/YR
ILICN	245.47	116336.50	4754.53	314768.88	431105.38
FT PLAIN	254.53	120634.50	4925.46	152477.69	273112.19
TOTALS	500.00	236971.00	9680.00	467246.38	704217.38

TOTAL NATIONAL INCOME COST=\$ 1118521.00/YR

The following three pages contain Tables A-34, A-35, and A-36 of the Meta Systems Inc report, "Marketable Effluent Permit Systems." Table A-34 gives the aggregate demand schedule for permits from computer run 12. Tables A-35 and A-36 give the market-clearing results for computer run 12 when the supply of permits is set at 70,000 and 35,000 pounds per day of BP respectively. The contents of all three tables are described in more detail in Section 6 of this report.

Table A-34

AGGREGATE DEMAND SCHEDULE FOR RUN 12 OF THE MCHAWK PERMIT SYSTEM SIMULATION

PRICE OF PERMIT	DEMAND, LBS/DAY	PRICE OF PERMIT	DEMAND, LBS/DAY
0.0	117802.00	239.68	22548.64
50.25	94177.31	241.26	22437.91
60.26	90223.25	266.95	20637.44
68.41	86483.50	268.97	20495.52
71.41	84324.13	276.57	19985.09
74.12	80625.75	281.76	19638.47
75.53	78071.81	289.58	19375.35
80.10	68926.44	294.21	19223.25
83.09	61857.46	316.70	18978.22
83.36	61336.45	378.55	18327.80
89.77	44989.68	417.26	17915.22
89.79	44952.24	448.15	17690.39
91.20	42355.76	470.06	17537.18
95.08	39313.80	489.38	17402.08
100.85	36866.91	535.79	17077.54
105.26	34513.70	538.32	17059.83
124.45	33429.91	663.55	16184.09
127.01	29032.05	677.36	16115.95
129.58	28469.30	689.18	16057.35
130.06	28441.09	693.03	16045.94
151.81	27458.90	704.46	16025.89
160.27	27157.79	707.21	15902.20
175.44	26566.35	709.97	15799.87
200.77	25205.71	712.73	15657.54
212.42	24466.49	759.94	15614.91
221.31	23772.27	906.58	15545.50
		1135.79	15437.00

A-49

Table A-35

RESPONSES OF BIDDERS FOR RUN 12 OF THE MCHAWK PERMIT SYSTEM SIMULATION

NUMBER ISSUED= 70000.

TERM= 5 YRS

UNIT=LBS/DAY BP

MARKET CLEARING PRICE=\$ 79.56

A-50

POLLUTER	PERMITS BOUGHT LBS/DAY	CCST \$	TREATMENT LBS/DAY	CCST \$	TOTAL COST \$
FT PLAIN	4517.88	359449.63	12771.13	678679.94	1038129.56
ILION	4576.03	364076.31	14471.97	946879.81	1310956.00
CANAJOHARIE	7126.72	567013.56	12432.28	772901.69	1339915.00
HERKIMER	2585.73	205724.69	5127.27	52243.09	257967.75
LITTLE FALLS	7667.00	609999.25	6951.00	536981.25	1146980.00
ROME	16171.13	1286601.00	14880.88	414734.75	1701335.00
ST JOHNSVILLE	7164.00	569979.69	7047.00	458897.88	1028877.56
UTICA	20191.59	1606476.00	85197.38	1292902.00	2899378.00
TOTALS	70000.00	5569318.00	158878.88	5154217.00	10723537.00

  

	LBS/DAY	\$/YR	LBS/DAY	\$/YR	\$/YR
FT PLAIN	4517.88	94822.50	12771.13	179035.19	273857.69
ILION	4576.03	96043.00	14471.97	249786.13	345829.13
CANAJOHARIE	7126.72	149577.69	12432.28	203890.81	353468.50
HERKIMER	2585.73	54270.01	5127.27	13781.68	68051.69
LITTLE FALLS	7667.00	160917.31	6951.00	141655.19	302572.50
ROME	16171.13	339404.31	14880.88	109406.69	448811.00
ST JOHNSVILLE	7164.00	150360.19	7047.00	121056.88	271417.06
UTICA	20191.59	423787.06	85197.38	341066.50	764853.56
TOTALS	70000.00	1469181.00	158878.88	1359678.00	2828859.00

TOTAL NATIONAL INCOME CCST=\$ 3580758.00/YR

Table A-36

RESPONSES OF BIDDERS FOR RUN 12 OF THE MCFAWK PERMIT SYSTEM SIMULATION

NUMBER ISSUED= 35000.

TERM= 5 YRS

UNIT=LBS/DAY BP

MARKET CLEARING PRICE=\$ 105.07

A-51

POLLUTER	PERMITS BOUGHT LBS/DAY	CCST \$	TREATMENT LBS/DAY	CCST \$	TOTAL COST \$
FT PLAIN	1802.01	189230.69	15486.99	909371.75	1098702.00
ILION	2258.55	237297.81	16789.45	1136005.00	1373302.00
CANAJOHARIE	2387.51	250847.75	17171.48	1174709.00	1425556.00
HERKIMER	2164.73	227441.00	5548.26	91106.38	318547.38
LITTLE FALLS	7584.70	796897.50	7033.30	545454.88	1342352.00
ROME	6549.25	688106.50	24502.75	1251872.00	1939978.00
ST JOHNSVILLE	1716.52	190348.75	12494.48	936236.25	1116585.00
UTICA	10536.73	1107057.00	94852.25	2184182.00	3291239.00
TOTALS	35000.01	2677325.00	193878.88	8228935.00	11906261.00

  

	LBS/DAY	\$/YR	LBS/DAY	\$/YR	\$/YR
FT PLAIN	1802.01	49945.29	15486.99	239891.50	289836.75
ILION	2258.55	62598.97	16789.45	299677.19	362276.13
CANAJOHARIE	2387.51	56173.44	17171.48	309887.25	376060.69
HERKIMER	2164.73	59598.75	5548.26	24033.79	84032.50
LITTLE FALLS	7584.70	210220.88	7033.30	143890.56	354111.44
ROME	6549.25	181521.94	24502.75	330242.81	511764.75
ST JOHNSVILLE	1716.52	47575.86	12494.48	246978.38	294554.19
UTICA	10536.73	292040.75	94852.25	576185.44	868226.19
TOTALS	35000.01	970075.38	193878.88	2170786.00	3140861.00

TOTAL NATIONAL INCOME COST=\$ 5040118.00/YR

The following three pages contain Tables A-37, A-38, and A-39 of the Meta Systems Inc report, "Marketable Effluent Permit Systems." Table A-37 gives the aggregate demand schedule for permits in computer run 13. Tables A-38 and A-39 give the market-clearing results for computer run 13 when the supply of permits is set at 70,000 and 35,000 pounds per day of BP respectively. The contents of all three tables are described in more detail in Section 6 of this report.