

Exhibit BCH2

# Back Creek HEC-2 Output

Study Contractor : Hayes, Seay, Mattern & Mattern  
Contract Number : EMW-90-C-3101  
HSMM Number : 2373

Multiple Output

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*****  
* HEC-2 WATER SURFACE PROFILES *  
* *  
* Version 4.6.2; May 1991 *  
* *  
* RUN DATE 17OCT91 TIME 09:38:29 *  
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* U.S. ARMY CORPS OF ENGINEERS *  
* HYDROLOGIC ENGINEERING CENTER *  
* 609 SECOND STREET, SUITE D *  
* DAVIS, CALIFORNIA 95616-4687 *  
* (916) 756-1104 *  
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HAYES, SEAY, MATTERN & MATTER, INC.  
ROANOKE, VIRGINIA - GREENSBORO, NORTH CAROLINA  
COMMISSION NUMBER: 2373  
INPUT FILE NAME: BC\_MULT.HEC  
OUTPUT FILE NAME: BC\_MULT.OUT

THIS RUN EXECUTED 17OCT91 09:38:29

\*\*\*\*\*  
 HEC-2 WATER SURFACE PROFILES  
 Version 4.6.2; May 1991  
 \*\*\*\*\*

T1 Hayes, Seay, Mattern & Mattern Cabarrus County, NC FIS  
 T2 Proj. No. EMW-90-C-3101 Eng: LJM/EKL ET:TFH Comm. No. 2373  
 T3 Back Creek (BC.1N) Date: 10/17/91 10-Year Event

J1 ICHECK INQ NINW IDIR STRT METRIC HVINS Q WSEL FQ  
 2.0 0.00231 530.0  
 J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE  
 1. -1.0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

101. 150.

J5 LPRNT NUMSEC \*\*\*\*\*REQUESTED SECTION NUMBERS\*\*\*\*\*

-10.

NC	0.18	0.18	0.05	0.1	0.3						
NH	7.	1.	4467.	0.32	4648.	0.18	4915.	0.058	5055.	0.14	
NH	5162.	0.32	5428.	1.	5603.	0.	0.	0.	0.	0.	
QT	8.	4457.	8626.	7547.	10210.	7547.	2280.	3510.	5628.		
ET	0.00	0.00	0.00	0.00	0.00	7.11	4840.00	5090.00	0.00	0.0	

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 HEC-2 Input file created with CodeH2  
 Version: 3.79  
 CodeH2 Copyrighted 1986 - 1991  
 Run Date: Thursday October 17, 1991  
 Run Time: 09:38:07  
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 The Following Options Have Been Activated :  
 1. MULTIPLE Option.  
 2. HEC1 Option.  
 3. SUMMARY\_150 Option.  
 4. HSMN\_XSECTS Option.  
 =====

Cross Section BACK 100  
Cross Section A (HSMH Draft)

X1	210.	24.	4915.	5055.	210.	210.	210.	0.	4394.
GR	555.	4087.	550.	4179.	545.	4262.	540.	535.	4976.
GR	530.	4450.	529.82	4467.	527.87	4648.	525.	520.	5014.
GR	517.63	4985.	517.53	4993.	515.9	5000.	514.73	520.	5443.
GR	525.	5055.	525.66	5182.	530.	5378.	533.85	535.	0.
GR	540.	5472.	545.	5513.	550.	5552.	555.	0.	0.14
NH	7.	1.	4790.	0.32	4681.	0.18	4947.	5035.	0.
NH	3340.	0.32	5644.	1.	5947.	0.	0.	0.	0.00
ET	0.00	0.00	0.00	0.00	0.00	10.41	0.00	0.00	0.00

Cross Section BACK 101  
Cross Section B (HSMH Draft)

X1	1145.	25.	4947.	5035.	935.	935.	935.	0.	4790.
GR	555.	4593.	550.	4646.	545.	4699.	540.	539.	4976.
GR	535.	4838.	530.94	4881.	530.	4891.	525.	520.	5018.
GR	519.79	4835.	519.69	4993.	518.06	5000.	516.89	520.	5667.
GR	525.	5035.	527.75	5340.	530.	5589.	533.53	535.	5947.
GR	540.	5751.	545.	5774.	550.	5792.	555.	560.	0.15
NH	7.	1.	4786.	0.32	4914.	0.18	4969.	5032.	0.
NH	5323.	0.32	5532.	1.	5691.	0.	0.	0.	0.

Cross Section BACK 102  
Cross Section C (HSMH Draft)

X1	1910.	23.	4969.	5032.	765.	765.	765.	0.	4756.
GR	560.	4494.	555.	4583.	550.	4638.	545.	540.	4969.
GR	537.79	4786.	535.	4824.	530.67	4914.	530.	525.	5005.
GR	520.	4984.9	521.56	4985.	521.46	4993.	519.83	518.66	5536.
GR	520.	5015.	525.	5032.	527.89	5323.	529.96	530.	0.
GR	540.	5584.	550.	5632.	560.	5691.	0.	0.	0.15
NH	7.	1.	4483.	0.32	4787.	0.18	4979.	5028.	0.
NH	5180.	0.32	5267.	1.	5563.	0.	0.	0.	0.00
ET	0.00	0.00	0.00	0.00	0.00	9.41	0.00	0.00	0.00

Cross Section BACK 103  
Cross Section D (HSMH Draft)

X1	2904.	22.	4979.	5028.	994.	994.	994.	0.	4609.
GR	550.	4271.	545.	4350.	540.	4460.	539.23	535.	4993.
GR	530.39	4787.	530.	4802.	525.	4979.	524.18	524.08	5180.
GR	522.45	5000.	521.28	5605.	524.08	5018.	525.	528.92	5479.
GR	530.	5222.	531.48	5267.	535.	5374.	545.	550.	0.
GR	555.	1513.	550.	5563.	0.	0.	0.	0.	0.

NH	7.	1.	4587.	0.32	4788.	0.18	4958.	0.063	5033.	0.15
NH	5100.	0.32	5141.	1.	5222.	0.	0.	0.	0.	0.
Cross Section BACK 104										
Cross Section E (HSMM Draft)										
XI	3673.	20.	4958.	5033.	769.	769.	769.	0.	0.	4587.
GR	560.	3843.	555.	4053.	550.	4167.	545.	4428.	541.63	4587.
GR	540.	4664.	535.	4733.	533.78	4788.	530.	4958.	525.	4983.
GR	524.08	5000.	523.65	5008.	5010.	5010.	530.	5033.	535.	5100.
GR	540.	5125.	543.2	5141.	545.	5150.	550.	5175.	560.	5222.
NH	7.	1.	4565.	0.32	4788.	0.19	4935.5	0.063	5060.5	0.15
NH	5085.4	0.32	5160.	1.	5321.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4675.00	5050.00	0.00	0.00
XI	4168.5	54.	4935.5	5060.5	495.5	495.5	495.5	0.	0.	0.
GR	559.26	4144.	554.26	4224.	550.43	4247.	549.26	4254.	544.94	4401.
GR	543.26	4424.	539.26	4488.	537.45	4522.	535.16	4565	534.26	4582.
GR	534.09	4619.	533.34	4788.	532.79	4910.4	532.79	4910.5	532.69	4935.4
GR	532.69	4935.5	531.59	4960.4	531.59	4960.5	526.83	4984.99	526.81	4985.1
GR	526.79	4985.2	526.75	4985.31	526.71	4985.41	526.67	4985.5	525.89	4987.5
GR	525.19	4995.5	525.29	5004.5	525.44	5095.24	525.44	5005.35	525.45	5005.44
GR	525.46	5005.56	525.89	5012.5	530.51	5024.99	530.55	5025.09	530.53	5025.2
GR	530.6	5025.3	530.61	5025.41	530.62	5025.5	530.91	5028.	534.58	5060.4
GR	534.59	5060.5	536.88	5085.4	536.89	5085.5	537.29	5110.4	537.29	5110.5
GR	538.49	5135.4	538.49	5135.5	541.47	5160.	541.96	5164.	549.26	5224.
GR	549.83	5232.	552.83	5274.	554.26	5294.	554.26	5321.	0.	0.
HC										
NH	7.	1.	4565.	0.3	4788.	0.19	4985.5	0.063	5025.5	0.15
NH	5085.4	0.32	5160.	1.	5321.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4675.00	5050.00	0.00	0.00
XI	4403.5	54.	4985.5	5025.5	240.	240.	240.	0.	0.	0.
X3	10.									
GR	560.	4144.	555.	4224.	551.17	4247.	550.	533.91	535.	4401.
GR	545	4424.	540.	4488.	538.19	4522.	535.9	4254.	545.68	4582.
GR	534.83	4519.	534.08	4788.	533.53	4910.4	533.53	4565.	535.	4582.
GR	533.43	4935.5	532.33	4960.4	532.33	4960.5	527.57	4910.5	533.43	4935.4
GR	527.53	4985.2	527.49	4985.31	527.45	4985.41	527.41	4984.99	527.55	4985.1
GR	525.93	4995.5	526.13	5004.5	526.18	5005.24	526.18	4985.5	526.63	4987.5
GR	526.2	5005.56	526.63	5012.5	531.25	5024.99	531.29	5005.35	526.19	5005.44
GR	531.34	5025.3	531.35	5025.41	531.36	5025.5	531.65	5025.09	531.33	5025.2
GR	535.33	5060.5	537.62	5085.4	537.63	5085.5	538.03	5028.	535.32	5060.4
CR	539.23	5135.4	539.23	5135.5	542.21	5160.	542.7	5110.4	538.03	5110.5
GR	550.57	5232.	553.57	5274.	555.	5294.	555.	5164.	550.	5224.
SB	1.25	2.06	2.60	0.00	28.00	0.09	252.90	0.21	525.93	525.93
NH	7.	1.	4565.	0.32	4788.	0.19	4985.5	0.063	5025.5	0.15
NH	5085.4	0.32	5160.	1.	5321.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4675.00	5050.00	0.00	0.00



NC	5.	1.	457.	0.1	0.3	0.16	4584.	0.053	5033.	0.18
NH	5192.	0.	0.	0.32	4860.	0.	0.	0.	0.	0.
NH	0.00	0.00	0.00	0.00	0.00	7.11	4440.00	5079.00	0.00	0.00

Cross Section BACK 104.5  
Cross Section F (HSMK Draft)

X1	5343.	17.	4984.	5033.	851.5	851.5	851.5	0.	0.	0.
GR	550.	4041.	545.	4306.	540.	4371.	535.	4484.	533.27	4657.
GR	531.24	4860.	530.	4984.	527.15	4987.	525.15	4989.	525.03	5000.
GR	527.15	5014.	530.	5033.	535.	5122.	540.	5154.	545.	5161.
GR	550.	5177.	555.	5192.	0.	0.	0.	0.	0.	0.
NH	7.	1.	4557.	0.32	4860.	0.16	4988.	0.053	5022.	0.18
NH	5477.	0.32	5641.	1.	5861.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	10.41	0.00	0.00	0.00	0.00

Cross Section BACK 105  
Cross Section G (HSMK Draft)

X1	5873.	21.	4988.	5022.	530.	530.	530.	0.	0.	0.
GR	560.	4272.	555.	4363.	550.	4368.	545.	4512.	540.	4606.
GR	539.24	4657.	536.23	4860.	535.	4943.	530.	4988.	527.32	4989.
GR	528.2	5000.	529.32	5014.	530.	5022.	533.73	5477.	535.	5632.
GR	535.8	5641.	540.	5688.	545.	5742.	550.	5798.	555.	5839.
GR	560.	5861.	0.	0.	0.	0.	0.	0.	0.	0.
NH	7.	1.	4827.	0.32	4886.	0.16	4982.	0.063	5024.	0.18
NH	5399.	0.32	5705.	1.	5943.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4960.00	5520.00	0.00	0.00

Cross Section BACK 106  
Cross Section H (HSMK Draft)

X1	6685.	19.	4982.	5024.	812.	812.	812.	0.	0.	0.
GR	560.	4489.	555.	4674.	550.	4737.	545.	4789.	543.04	4827.
GR	540.	4886.	535.	4982.	532.41	4987.	530.41	4989.	531.29	5000.
GR	532.41	5014.	535.	5024.	537.77	5399.	540.	5701.	540.29	5705.
GR	545.	5770.	550.	5801.	555.	5839.	565.	5943.	0.	0.
NH	7.	1.	4827.	0.32	4886.	0.16	4973.	0.063	5008.5	0.18
NH	5399.	0.32	5705.	1.	5949.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4937.00	5320.00	0.00	0.00

Cross Section BACK 107  
Cross Section I (HSMK Draft)

X1	7435.	22.	4973.	5008.5	750.	750.	750.	0.	0.	0.
GR	555.	4734.	550.	4799.	515.	4824.	544.32	4827.	540.	4846.
GR	538.43	4886.	535.	4973.	533.37	4924.5	532.37	4995.5	533.12	5000.
GR	533.37	5001.5	535.17	5008.5	535.	5014.	538.21	5399.	540.	5614.
GR	543.45	5705.	545.	5746.	550.	5785.	555.	5826.	570.	5886.



GR 575.	5897.	585.	5949.	0.	0.	0.	0.	0.	0.
NH 7.	1.	4205.	0.32	4470.	0.16	4963.	0.063	5060.	0.18
NH 5087.	0.32	5609.	1.	5037.	0.	0.	0.	0.	0.00
ET 0.00	0.00	0.00	0.00	0.00	7.11	4575.00	5060.00	0.00	0.00

Cross Section BACK 108  
Cross Section J (HSMH Draft)

X1 8364.	25.	4963.	5060.	929.	929.	929.	0.	0.	0.
GR 575.	3787.	570.	3972.	555.	3921.	560.	3949.	555.	4009.
GR 550.	4063.	545.	4132.	544.55	4208.	542.97	4470.	540.	4963.
GR 535.	4985.	535.79	4992.5	534.79	4955.5	535.54	5000.	535.79	5001.5
GR 537.59	5008.5	535.	5022.	545.	5060.	550.	5087.	554.53	5609.
GR 553.	5663.	560.	5795.	565.	5916.	570.	5968.	575.	6037.
NH 7.	1.	4535.	0.32	4621.	0.16	4973.	0.063	5019.	0.18
NH 5253.	0.32	5401.	1.	5775.	0.	0.	0.	0.	0.00
ET 0.00	0.00	0.00	0.00	0.00	7.11	4875.00	5260.00	0.00	0.00

Cross Section BACK 109  
Cross Section K (HSMH Draft)

X1 9234.	23.	4973.	5019.	870.	870.	870.	0.	0.	0.
GR 575.	4197.	570.	4245.	565.	4278.	560.	4338.	555.	4401.
GR 550.	4429.	545.	4477.	544.42	4535.	541.53	4821.	540.	4973.
GR 538.98	4981.	535.98	4996.	535.65	5000.	538.98	5014.	540.	5019.
GR 544.08	5253.	545.	5306.	550.	5342.	555.	5399.	555.24	5401.
GR 560.	5440.	565.	5540.	570.	5775.	0.	0.	0.	0.
NH 7.	1.	4650.	0.32	4745.	0.16	4976.	0.063	5014.	0.18
NH 5095.	0.32	5158.	1.	5232.	0.	0.	0.	0.	0.00
ET 0.00	0.00	0.00	0.00	0.00	7.11	4759.00	5080.00	0.00	0.00

Cross Section BACK 110  
Cross Section L (HSMH Draft)

X1 9967.	19.	4978.	5014.	753.	753.	753.	0.	0.	0.
GR 585.	4341.	560.	4458.	555.	4531.	550.	4581.	547.03	4650.
GR 545.	4697.	544.15	4745.	540.	4978.	539.91	4981.	536.91	4996.
GR 537.58	5000.	539.91	5014.	540.	5035.	545.	5053.	550.	5095.
GR 554.7	5158.	555.	5162.	560.	5197.	565.	5232.	0.	0.
NH 7.	1.	4596.	0.32	4755.	0.16	4979.	0.063	5018.	0.18
NH 5100.	0.32	5288.	1.	5903.	0.	0.	0.	0.	0.00
ET 0.00	0.00	0.00	0.00	0.00	10.41	0.00	0.30	0.00	0.00

Cross Section BACK 111  
Cross Section M (HSMH Draft)



MH	7.	1.	4941.	0.24	4956.	0.18	4986.	0.047	5016.1	0.16
NH	5065.	0.23	5098.	1.	7038.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4925.00	5075.00	0.00	0.00
X1	14205.	51.	4986.	5016.1	1.	1.	1.	0.	0.	0.
X3	10.									
BT	-51.	3504.	575.02	575.	3761.	570.02	570.	551.43	551.53	569.98
BT		4033.	565.41	565.	4057.	565.	564.72	4465.	570.	560.
BT		4519.	560.	559.09	4762.	555.31	555.	4778.	560.58	554.44
BT		4904.	552.13	550.	4934.99	551.43	550.33	4935.	551.43	550.33
BT		4941.	551.44	550.32	4956.	551.47	550.29	4984.98	551.53	550.23
BT		4984.99	551.53	550.23	4985.	554.43	550.18	4985.01	554.43	550.12
BT		4985.99	554.43	549.53	4986.	554.43	549.53	4986.01	554.43	549.53
BT		4986.1	554.43	549.53	4989.	554.43	549.53	4993.	554.43	549.53
BT		4997.	554.43	549.53	4998.99	554.43	549.53	5002.	554.43	549.53
BT		5005.	554.43	549.53	5010.5	554.43	549.53	5015.91	554.43	549.53
BT		5015.99	554.43	549.53	5016.	554.43	547.34	5016.01	554.43	545.15
BT		5015.1	554.43	545.37	5017.48	554.43	548.71	5017.49	554.43	548.73
BT		5017.5	554.43	548.73	5017.51	551.53	548.73	5068.99	551.53	551.13
BT		5069.	551.53	551.13	5098.	551.89	551.42	5350.	555.	553.95
BT		5455.	555.39	555.	5574.	555.84	555.	6082.	557.74	555.
BT		5335.	560.02	560.	6632.	565.02	565.	6633.	570.02	570.
BT		6637.	570.02	570.	7037.	570.02	570.	7038.	570.32	570.
GR	575.	3504.	570.	3761.	569.98	3762.	565.	4033.	564.72	4057.
GR	560.	4465.	570.	4519.	555.	4762.	554.44	4778.	550.	4904.
GR	550.35	4934.99	550.33	4935.	550.32	4941.	550.29	4956.	550.23	4984.98
GR	550.23	4984.99	550.18	4985.	550.12	4985.01	549.53	4985.99	549.08	4986.
GR	548.64	4986.01	544.61	4986.1	543.83	4989.	543.33	4993.	543.73	4937.
GR	543.73	4999.99	543.73	5002.	542.13	5005.	543.73	5010.5	545.11	5015.91
GR	549.53	5015.99	545.13	5016.	545.15	5016.01	545.37	5016.1	548.71	5017.48
GR	548.73	5017.49	548.73	5017.5	548.73	5017.51	551.13	5068.99	551.13	5069.
GR	551.42	5098.	551.42	5350.	555.	5455.	555.	5574.	555.	6082.
GR	560.	5335.	565.	6632.	570.	6633.	570.	6687.	570.	7037.
GR	570.	7038.	0.	0.	0.	0.	0.	0.	0.	0.

MH	7.	1.	4941.	0.24	4956.	0.18	4986.	0.047	5016.1	0.16
NH	5065.	0.23	5098.	1.	7038.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4925.00	5075.00	0.00	0.00

Stalling Road (SR 1161)

X1	14225.	51.	4986.	5016.1	20.	20.	20.	551.43	551.53	569.98
X3	10.							3762.	570.	560.
BT	-51.	3504.	575.02	575.	3761.	570.02	570.	4465.	560.58	554.44
BT		4033.	565.41	565.	4057.	565.	564.72	4778.	555.	550.33
BT		4519.	560.	553.09	4762.	555.31	555.	4935.	551.43	550.23
BT		4904.	552.13	550.	4934.99	551.43	550.33	4984.98	551.53	550.12
BT		4941.	551.44	550.32	4956.	551.47	550.29	4985.01	554.43	549.53
BT		4984.99	551.53	550.23	4985.	554.43	550.18	4986.01	554.43	549.53
BT		4985.99	554.43	549.53	4986.	554.43	549.53	4993.	554.43	549.53
BT		4986.1	554.43	549.53	4989.	554.43	549.53	5002.	554.43	549.53
BT		4997.	554.43	549.53	4998.99	554.43	549.53	5015.91	554.43	549.53
BT		5005.	554.43	549.53	5010.5	554.43	547.34	5016.01	554.43	545.15





MH	7.	1.	4878.	0.21	4935.	0.15	4989.	0.056	5028.	0.17
MH	5050.	0.24	5077.	1.	5485.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	10.41	0.00	0.00	0.00	0.00

Cross Section B (HSMH Draft)

XI	18349.	23.	4989.	5028.	857.	857.	560.96	4878.	0.	4935.
GR	575.	4257.	570.	4503.	4588.	4588.	555.	4990.	560.17	4935.
GR	560.	4947.	560.	4954.	4989.	4989.	555.	4990.	554.32	4997.
GR	554.01	4999.9	554.02	5000.	5005.	5005.	555.32	5020.	560.6	5028.
GR	560.56	5038.	561.2	5050.	5077.	5077.	565.	5121.	570.	5151.
GR	575.	5198.	580.	5313.	5485.	5485.	0.	0.	0.	0.
MH	7.	1.	4881.	0.23	4930.	0.17	4974.5	0.056	5014.	0.18
MH	5052.	0.25	5109.	1.	5340.	0.	0.	0.	0.	0.

Cross Section C  
Cross Section T (HSMH Draft)

XI	20417.	19.	4974.5	5014.	2068.	2068.	2068.	4843.	0.	4861.
GR	580.	4560.	575.	4654.	4785.	4785.	565.	4993.	564.14	4999.9
GR	563.02	4930.	562.17	4967.5	5014.5	5014.5	555.87	5052.	555.08	5109.
GR	555.09	5000.	555.83	5007.5	5014.	5014.	562.62	5340.	563.31	0.
GR	565.	5166.	570.	5245.	5283.	5283.	580.	0.	0.	0.
MH	7.	1.	4876.	0.23	4920.	0.11	4974.	0.055	5008.5	0.11
MH	5064.	0.2	5090.	1.	5350.	0.	0.	0.	0.	0.

Cross Section D  
Cross Section U (HSMH Draft)

XI	2360.	21.	4974.	5008.5	2243.	2243.	2243.	4677.	0.	4876.
GR	585.	4516.	580.	4561.	4623.	4623.	570.	4990.	566.65	4994.
GR	565.91	4920.	565.	4974.	4983.	4983.	559.36	5008.5	558.92	5017.
GR	558.24	4999.9	558.26	5000.	5004.	5004.	563.45	5201.	565.	5265.
GR	570	5046.	570.58	5064.	5090.	5090.	575.	0.	580.	0.
GR	585.	5350.	0.	0.	0.	0.	0.	0.	0.	0.
MH	7.	1.	4876.	0.23	4920.	0.11	4989.9	0.055	5014.	0.11
MH	5064.	0.2	5090.	1.	5589.	0.	0.	0.	0.	0.

Cross Section D-1A  
Cross Section V (HSMH Draft)

XI	23344.	22.	4989.9	5014.	684.	684.	684.	4672.	0.	4822.
GR	595.	4230.	590.	4442.	4572.	4572.	580.	4990.	575.	4994.
GR	573.39	4676.	572.08	4920.	4989.9	4989.9	569.8	5008.5	561.64	5014.
GR	560.97	4599.9	560.96	5000.	5004.	5004.	566.17	5396.	570.	5469.
GR	570.9	5064.	571.37	5090.	5291.	5291.	580.	0.	585.	0.
GR	590.	5539.	595.	5589.	0.	0.	0.	0.	0.	0.

NH	7.	1.	4893.	0.23	4944.	0.16	4972.8	0.059	5013.6	0.16
NH	5079.	0.23	5132.	1.	5645.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4970.00	5100.00	0.00	0.00

Cross Section D-1  
Cross Section V (HSHM Draft)

X1	24024.	20.	4972.8	5013.6	680.	680.	680.	0.	0.	4908.
GR	595.	4211.	590.	4598.	585.	4874.	583.69	4883.	580.	4990.4
GR	575.54	4944.	575.	4950.	569.46	4972.8	564.79	4984.	564.35	5132.
GR	563.67	5003.	564.37	5006.4	568.88	5013.6	570.88	5079.	572.5	5645.
GR	575.	5214.	580.	5395.	585.	5531.	590.	5582.	595.	
NH	7.	1.	4892.	0.23	4925.	0.16	4978.	0.059	5026.	0.16
NH	5047.9	0.24	5072.	1.	5718.	0.	0.	0.	0.	0.
QT	8.	2706.	4088.	4669.	6357.	4669.	1340.	2109.	3454.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4840.00	5050.00	0.00	0.00
X1	24703.	43.	4978.	5026.	679.7	679.7	679.7	0.	0.	4301.
GR	589.31	3714.	589.31	3741.	584.31	3915.	584.31	4111.	584.31	4912.9
GR	583.66	4325.	579.31	4486.	578.46	4602.	576.33	4892.	576.18	4982.7
GR	576.18	4913.	576.12	4925.	575.88	4978.	571.29	4952.59	571.18	4986.5
GR	571.07	4982.81	570.97	4982.91	570.88	4983.	570.78	4983.1	570.78	5020.
GR	566.38	4993.	567.38	4999.9	566.28	5008.	567.98	5015.	574.48	5028.4
GR	576.64	5025.79	576.68	5025.9	576.69	5026.	577.03	5028.29	577.04	5062.9
GR	577.06	5026.51	578.43	5038.	579.87	5047.9	579.86	5043.	581.48	5326.
GR	581.51	5063.	584.31	5072.	583.31	5091.	590.07	5166.	391.7	0.
GR	594.15	5566.	594.31	5582.	599.31	5718.	0.	0.	0.	0.

HC	7.	1.	4892.	0.3	0.5	0.16	4978.	0.059	5026.	0.16
K1	5047.9	0.24	5072.	1.	5718.	0.	0.	0.	0.	0.
NH	0.00	0.00	0.00	0.00	0.00	7.11	4840.00	5050.00	0.00	0.00
ET	24376.	43.	4978.	5026.	172.8	172.8	172.8	0.	0.	0.00
X1	590.	3714.	590.	3741.	585.	3915.	585.	577.9	579.3	4301.
GR	524.35	4325.	580.	4486.	579.15	4602.	577.02	4111.	585.	4912.9
GR	576.87	4913.	576.81	4925.	576.57	4978.	571.98	4892.59	576.57	4982.7
GR	571.76	4982.81	571.66	4982.91	571.57	4983.	571.47	4983.1	571.47	4986.5
GR	567.07	4993.	568.07	4999.9	567.57	5008.	568.67	5015.	575.17	5020.
GR	577.33	5025.79	577.37	5025.9	577.38	5026.	577.72	5028.29	577.73	5028.4
GR	577.75	5026.51	579.12	5038.	580.56	5047.9	580.57	5048.	582.17	5062.9
GR	582.2	5063.	585.	5072.	590.	5091.	590.76	5166.	592.39	5326.
GR	594.84	5566.	595.	5562.	630.	5718.	0.	0.	0.	0.
S8	1.25	1.81	2.00	0.00	30.10	0.00	303.11	0.01	567.07	567.07
NH	7.	1.	4892.	0.23	4925.	0.16	4983.	0.059	5026.	0.16
NH	5047.9	0.24	5072.	1.	5718.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4840.00	5050.00	0.00	0.00

Hickory Ridge Road (SR 1138)

X1	24898.	43.	4983.	5026.	22.	22.	22.	22.	0.00	0.00
X2	0.00	0.00	1.00	577.12	578.77	0.00	0.00	0.00	0.00	0.00
X3	10.									
BT	-43.	3714.	590.02	590.	3741.	590.02	590.	590.	578.77	585.
BT		4111.	586.75	585.	4301.	585.2	585.	585.	3915.	584.35
BT		4486.	582.09	580.	4602.	580.	580.	580.	4325.	577.02
BT		4912.9	578.77	576.87	4913.	578.77	576.87	576.87	4892.	576.81
BT		4978.	578.86	576.57	4982.59	578.87	571.98	571.98	4982.7	571.87
BT		4982.81	581.87	576.27	4982.91	581.87	576.27	576.27	4983.	576.27
BT		4983.1	581.87	576.27	4986.5	581.94	576.34	576.34	4993.	576.47
BT		4999.9	582.21	576.61	5808.	582.37	576.77	576.77	5015.	582.07
BT		5020.	582.61	5025.79	5025.79	582.72	577.12	577.12	5025.9	576.91
BT		5026.	582.72	577.39	5028.29	582.77	577.72	577.72	5028.4	577.37
BT		5028.51	579.77	577.75	5038.	580.	579.12	579.12	5047.9	580.56
BT		5048.	580.59	580.57	5062.9	582.19	582.17	582.17	5063.	582.22
BT		5072.	585.02	595.	5051.	590.02	590.	590.	5166.	590.76
BT		5326.	592.41	592.39	5566.	595.	594.84	594.84	5582.	595.
BT		5719.	600.02	600.	0.	0.	0.	0.	0.	0.
GR	590.	3714.	590.	3741.	595.	3915.	585.	4111.	0.	4301.
GR	534.35	4325.	580.	4486.	579.15	4602.	577.02	4892.	585.	4301.
GR	576.87	4913.	576.81	4925.	576.57	4978.	571.98	4982.59	0.	4912.9
GR	576.27	4982.81	571.86	4982.91	571.57	4983.	571.47	4983.1	0.	4982.7
GR	567.07	4993.	568.07	4995.9	567.57	5008.	568.67	5015.	0.	4986.5
GR	577.12	5025.79	577.37	5025.9	577.39	5026.	568.67	5015.	0.	5020
GR	577.75	5028.51	579.12	5038.	580.56	5047.9	577.72	5028.29	0.	5028.4
GR	532.2	5063.	585.	5072.	590.	5051.	580.57	5048.	0.	5062.9
GR	594.84	5566.	595.	5582.	600.	5718.	590.76	5166.	0.	5326.
NH	7.	1.	4892.	0.23	4925.	0.16	4978.	5026.	0.16	0.16
NH	5047.9	0.24	5072.	1.	5718.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	4.00	7.11	4840.00	5050.00	0.00	0.00
X1	24942.	43.	4978.	5026.	44.2	44.2	44.2	0.	0.	0.00
CR	590.11	3714.	590.11	3741.	585.11	3915.	585.11	4111.	0.	4301.
GR	584.46	4325.	580.11	4486.	579.26	4602.	577.13	4892.	0.	4912.9
GR	576.98	4913.	576.92	4925.	576.58	4978.	572.09	4982.59	0.	4982.7
GR	571.87	4982.81	571.77	4982.91	571.68	4983.	571.58	4986.5	0.	4986.5
GR	567.18	4993.	563.18	4999.9	567.58	5008.	568.78	5015.	0.	5020.
GR	577.44	5025.79	577.48	5025.9	577.43	5026.	577.83	5028.29	0.	5028.4
GR	577.86	5028.51	579.23	5038.	580.67	5047.9	580.68	5048.	0.	5062.9
GR	582.31	5063.	585.11	5072.	590.11	5091.	580.87	5166.	0.	5326.
GR	594.95	5566.	595.11	5582.	600.11	5716.	0.	0.	0.	0.
NC										
NH	7.	1.	4854.	0.1	0.3	0.15	4988.5	5025.5	0.15	0.15
NH	5076.	0.23	5127.	1.	5329.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	10.41	0.00	0.00	0.00	0.00



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Cross Section D-2  
Cross Section X (HSMM Draft)

X1	26263.	21.	4988.5	5025.5	1320.3	1320.3	1320.3		0.	
GR	595.	4334.	590.	4169.	585.	4567.	580.	4615.	579.57	4854.
GR	579.45	4973.	579.33	4938.5	571.05	4998.5	570.38	5000.	571.06	5005.5
GR	578.58	5025.5	580.	5062.	580.49	5076.	582.27	5127.	585.	5205.
GR	590.	5236.	595.	5262.	500.	5280.	605.	5302.	610.	5315.
GR	615.	5329.	0.	0.	0.	0.	0.	0.	0.	0.
NH	7.	1.	4893.	0.23	4930.	0.15	4975.6	0.058	5030.6	0.15
NH	5074.	0.23	5131.	1.	5861.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4925.00	5125.00	0.00	0.00
X1	26817.	50.	4975.6	5030.6	554.7	554.7	554.7		0.	
GR	559.47	4411.	599.47	4618.	599.47	4685.	594.47	4741.	593.56	4749.
GR	589.47	4785.	584.47	4832.	582.24	4893.	581.23	4920.4	581.23	4920.5
GR	590.87	4930.	579.15	4975.09	579.15	4975.2	579.14	4975.31	579.14	4975.41
GR	579.13	4975.5	579.13	4975.6	577.23	4985.5	575.72	4990.39	575.68	4990.5
GR	575.53	4991.	575.26	4991.39	575.18	4991.51	572.43	4995.5	571.73	4999.9
GR	572.43	5003.5	573.8	5009.89	573.82	5010.	573.93	5010.5	573.92	5010.89
GR	573.92	5011.01	573.73	5020.5	575.76	5030.09	575.79	5030.19	575.81	5030.3
GR	575.83	5030.4	575.83	5030.51	575.83	5030.6	576.5	5074.	577.38	5131.
GR	577.63	5147.4	577.63	5147.5	579.47	5201.	584.17	5560.	584.47	5583.
GR	589.47	5677.	594.47	5712.	599.47	5769.	599.47	5780.	599.47	5861.
HC				0.3	0.5					
NH	7.	1.	4893.	0.23	4930.	0.15	4975.5	0.058	5030.6	0.15
NH	5074.	0.23	5131.	1.	5861.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4925.00	5125.00	0.00	0.00
X1	27036.	50.	4975.5	5030.6	218.8	218.8	218.8		0.	
X3	10.							585.35	584.25	
GR	600.	4411.	600.	4613.	600.	4685.	595.	4741.	594.09	4749.
GR	590.	4785.	585.	4832.	582.77	4693.	581.76	4920.4	581.76	4920.5
GR	581.4	4930.	575.68	4975.09	579.68	4975.2	579.67	4975.31	579.67	4975.41
GR	579.66	4975.5	579.66	4975.6	577.76	4985.5	576.25	4990.39	576.21	4990.5
GR	576.06	4991.	575.79	4991.39	575.71	4991.51	572.96	4995.5	572.26	4999.9
GR	572.96	5003.5	574.33	5009.89	574.35	5010.	574.46	5010.5	574.45	5010.89
GR	574.45	5011.01	574.26	5020.5	576.29	5030.09	576.32	5030.19	576.34	5030.3
GR	576.30	5030.4	576.36	5030.51	576.36	5030.6	577.03	5074.	577.91	5131.
GR	578.16	5147.4	578.16	5147.5	580.	5201.	584.7	5560.	585.	5583.
GR	590.	5677.	595.	5712.	600.	5769.	600.	5780.	600.	5861.
SB	1.25	1.84	2.60	0.00	39.57	1.78	453.78	0.20	572.26	572.26
NH	7.	1.	4893.	0.23	4930.	0.15	4975.5	0.058	5030.6	0.15
NH	5074.	0.23	5131.	1.	5861.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4925.00	5125.00	0.00	0.00

Robinson Church Road (SR 1166)



Cross Section D-3  
Cross Section Y (HSM Draft)

X1	27957.	18.	4965.	5015.	844.8	844.8	844.8		0.	
GR	600.	4165.	595.	4283.	590.	4335.	585.	4450.	580.55	4908.
GR	580.27	4937.	580.	4965.	573.67	4998.5	573.04	4999.9	573.	5000.
GR	573.68	5005.5	590.	5015.	582.56	5061.	584.83	5102.	585.	5105.
GR	590.	5155.	595.	5210.	600.	5280.	0.	0.	0.	0.
NH	7.	1.	4908.	0.21	4937.	0.13	4988.5	0.06	5025.5	0.14
NH	5061.	0.22	5102.	1.	5359.	0.	0.	0.	0.	0.

Cross Section F  
Cross Section Z (HSM Draft)

X1	22765.	23.	4988.5	5025.5	808.	808.	808.		0.	
GR	600.	4188.	595.	4393.	590.	4556.	585.	4713.	582.76	4908.
GR	582.43	4937.	582.	4974.5	582.61	4988.5	574.33	4998.5	573.66	4999.9
GR	573.67	5000.	574.34	5005.5	581.66	5025.5	581.71	5035.5	582.37	5061.
GR	583.43	5102.	585.	5163.	590.	5192.	595.	5208.	600.	5237.
GR	605.	5272.	610.	5312.	615.	5359.	0.	0.	0.	0.
NH	7.	1.	4908.	0.21	4937.	0.13	4981.	0.06	5027.	0.14
NH	5061.	0.22	5102.	1.	5389.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	8.41	0.00	0.00	0.00	0.00

Cross Section F-1  
Cross Section AA (HSM Draft)

X1	22677.	20.	4981.	5027.	912.	912.	912.		0.	
GR	605.	4374.	600.	4494.	595.	4600.	590.48	4908.	590.06	4937.
GR	590.	4941.	585.	4981.	583.35	4988.5	575.07	4998.5	574.44	4999.9
GR	574.4	5000.	575.08	5005.5	582.6	5025.5	585.	5027.	585.61	5061.
GR	535.35	5102.	590.	5304.	595.	5340.	600.	5377.	605.	5389.
NH	7.	1.	4943.	0.24	4965.	0.18	4990.	0.06	5034.	0.18
NH	5063.	0.25	5106.	1.	5612.	0.	0.	0.	0.	0.

Cross Section G  
Cross Section AB (HSM Draft)

X1	30480.	23.	4990.	5034.	803.	803.	803.		0.	
GR	620.	4702.	615.	4839.	610.	4870.	605.	4897.	600.	4938.
GR	597.22	4943.	595.	4947.	589.18	4965.	585.13	4977.5	583.47	4990.
GR	578.01	4990.1	575.28	4999.5	575.08	5000.	577.97	5016.	583.32	5034.
GR	584.27	5044.	585.55	5063.	588.45	5106.	590.	5129.	595.	5379.
GR	600.	5480.	505.	5548.	610.	5612.	0.	0.	0.	0.

NH	7.	1.	4304.	0.22	4939.	0.13	4974.	0.059	5037.	0.13
NH	5050.	0.25	5141.	1.	5444.	0.	0.	0.	0.	0.

Cross Section G-1  
Cross Section AC (HSMH Draft)

X1	31354.	26.	4974.	5037.	874.	874.	874.	0.	0.	0.
GR	625.	4262.	620.	4327.	4378.	4378.	4378.	4438.	0.	4492.
GR	600.	4570.	595.	4636.	4904.	4904.	4904.	4939.	590.	4974.
GR	588.02	4930.	582.56	4990.1	4999.9	4999.9	4999.9	5000.	582.52	5016.
GR	587.87	5334.	590.	5037.	5075.	5075.	5075.	5090.	593.03	5141.
GR	670.	5194.	605.	5254.	5297.	5297.	5297.	5333.	620.	5405.
GR	625.	5144.	0.	0.	0.	0.	0.	0.	0.	0.
NH	7.	1.	4399.	0.22	4932.	0.13	4909.	0.059	5011.	0.13
NH	5054.	0.22	5110.	1.	5639.	0.	0.	0.	0.	0.
X1	32163.	35.	4589.	5011.	815.1	815.1	815.1	0.	0.	0.
GR	609.54	4647.	604.54	4694.	4759.	4759.	4759.	4892.	594.2	4899.
GR	593.63	4911.	592.62	4932.	4988.91	4988.91	4988.91	4981.9	590.65	4988.7
GR	590.65	4988.8	590.47	4988.91	4989.	4989.	4989.	4990.	584.15	4993.
GR	523.85	4999.9	594.15	5006.	5010.	5010.	5010.	5010.69	590.45	5010.8
GR	590.45	5016.3	590.45	5011.	5029.	5029.	5029.	5054.	594.54	5081.9
GR	594.54	5062.	585.28	5110.	599.54	5271.	600.64	5287.	604.17	5420.
GR	604.54	5432.	608.44	5496.	609.54	5514.	614.1	5628.	614.54	5639.

NC	7.	1.	4899.	0.3	0.5	0.13	4989.	0.059	3011.	0.13
NH	5054.	0.22	5110.	1.	5639.	0.	0.	0.	0.	0.
X1	32257.	35.	4929.	5011.	88.4	88.4	88.4	0.	0.	0.
X3	10.									
GR	609.99	4647.	604.99	4694.	4759.	4759.	4759.	4892.	590.92	4899.
GR	594.02	4911.	593.07	4932.	4948.	4948.	4948.	4981.9	594.65	4988.7
GR	591.1	4988.8	590.92	4988.91	4989.	4989.	4989.	4990.	591.1	4993.
GR	584.3	4999.9	584.6	5006.	5010.	5010.	5010.	5010.69	524.6	5010.8
GR	590.9	5010.0	590.9	5011.	5025.	5025.	5025.	5054.	594.99	5081.9
GR	594.99	5082.	595.73	5110.	599.99	5271.	600.49	5287.	604.62	5420.
GR	604.99	5432.	608.65	5496.	609.99	5514.	614.55	5628.	614.99	5639.
SB	1.25	1.90	2.60	0.00	13.20	0.00	90.52	0.12	584.31	584.31
NH	7.	1.	4399.	0.22	4932.	0.13	4989.	0.059	5011.	0.13
NH	5054.	0.22	5110.	1.	5639.	0.	0.	0.	0.	0.

Farm Bridge

X1	32271.	35.	4989.	5011.	14.	14.	14.	0.00	0.00	0.00
X2	0.00	0.00	1.00	590.78	0.00	0.00	0.00	0.00	0.00	0.00
X3	10.									
BT	-35.									
BT	4647.	610.02	610.02	610.	4594.	4594.	605.	4759.	590.92	600.
BT	492.	595.82	595.82	595.	4899.	4899.	594.66	4911.	595.	594.09
BT	4932.	593.52	593.52	593.08	4948.	4948.	592.31	4981.9	591.33	591.31
BT	4937.	591.13	591.13	591.11	4988.9	4988.9	591.11	4988.91	591.11	589.91
BT	4989.	591.11	591.11	590.78	4930.	4930.	589.9	4933.	591.07	589.87
BT	4939.3	591.01	591.01	580.81	5005.	5005.	589.75	5010.	590.92	589.72

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BT	5010.89	500.91	599.71	5010.8	550.93	590.91	5010.9	590.93	590.91
BT	5011.	590.93	590.91	5029.	591.95	591.11	5054.	593.39	590.91
BT	5081.9	595.02	535.	5082.	595.02	595.	5110.	595.76	595.74
BT	5271.	600.02	609.	5287.	600.52	600.5	5420.	605.	604.63
BT	5432.	605.79	605.	5496.	610.	608.9	5514.	610.68	610.
BT	5628.	515.	614.55	5839.	615.02	615.	0.	0.	0.
GR	5647.	605.	4694.	600.	4758.	595.	4882.	594.66	4099.
GR	594.03	593.06	4932.	592.31	4946.	591.31	4981.5	591.11	4988.7
GR	591.11	4988.8	589.91	590.78	4989.	589.11	4990.	584.61	4993.
GR	584.31	4999.9	5006.	589.21	5010.	589.71	5010.69	590.91	5010.8
GR	520.91	590.91	5011.	591.11	5029.	590.91	5054.	595.	5081.9
GR	595.	595.74	5110.	600.	5271.	600.5	5287.	604.63	5420.
GR	605.	608.9	5496.	610.	5514.	614.56	5828.	615.	5639.
MH	7.	4899.	0.22	4932.	0.13	4989.	0.059	5011.	0.13
NH	5054.	5110.	1.	5639.	0.	0.	0.	0.	0.
X1	32284.	35.	5011.	23.1	23.1	23.1	0.	0.	0.
GR	610.22	4647.	4694.	600.22	4758.	595.22	4892.	594.88	4899.
GR	534.31	4511.	4932.	392.53	4940.	591.53	4981.9	591.33	4988.7
GR	591.33	4988.8	4988.91	591.15	4989.	589.33	4990.	584.83	4993.
GR	584.53	4999.9	5006.	589.43	5010.	590.9	5010.69	591.13	5010.8
GR	591.13	5010.9	5011.	591.33	5029.	591.13	5054.	595.22	5081.9
GR	595.22	5082.	5110.	600.22	5271.	600.72	5287.	604.85	5420.
GR	505.22	5432.	5495.	610.22	5514.	614.78	5828.	615.22	5639.

MC	7.	0.1	0.22	0.3	0.13	4991.	0.061	5029.5	0.13
NH	4920.	4950.	5592.	0.	0.	0.	0.	0.	0.
NH	5057.	5097.	1.	5592.	0.	0.	0.	0.	0.

Cross Section I  
Cross Section AD (HSHM Draft)

X1	33082.	29.	4991.	5029.5	787.4	787.4	787.4	0.	4828.
GR	640.	4581.	635.	4687.	630.	625.	4795.	620.	4936.
GR	615.	4858.	510.	4882.	605.	602.76	4920.	600.	4999.9
GR	598.79	4950.	4961.	597.42	4991.	592.77	4994.5	592.08	5034.5
GR	592.07	5030.	5007.	595.	5029.	598.37	5029.5	597.82	5437.
GR	598.12	5057.	5097.	600.	5269.	605.	5387.	610.	0.
GR	615.	5472.	5507.	625.	5557.	630.	5892.	0.	0.
NH	7.	1.	4913.	0.22	0.13	4991.	0.061	5029.5	0.14
NH	5064.	0.22	5113.	5375.	0.	0.	0.	0.	0.

Cross Section I-1  
Cross Section RE (HSHM Draft)

X1	33836.	21.	4991.	5029.5	748.	748.	748.	0.	4628.
GR	625.	4373.	620.	4453.	615.	610.	4539.	605.	4994.5
GR	592.78	4950.	4913.	599.23	598.76	596.13	4991.	593.48	5113.
GR	600.	5000.	5007.	593.58	599.08	599.25	5064.	599.5	5345.
GR	600.	5213.	5268.	610.	610.	615.	5321.	620.	0.
GR	625.	5375.	5375.	0.	0.	0.	0.	0.	0.



BT	4974.5	607.3	603.81	4975.	607.3	604.01	4975.75	607.3	604.32
BT	4977.	607.3	604.48	4978.25	607.31	604.32	4979.5	607.31	603.81
BT	4980.75	607.31	602.79	4982.	607.31	599.48	4984.	607.31	594.88
BT	4986.	607.32	599.48	4987.25	607.33	602.79	4988.5	607.33	603.81
BT	4989.75	607.34	604.32	4991.	607.35	604.48	4992.25	607.35	604.32
BT	4993.5	607.36	603.81	4994.75	607.37	602.79	4995.	607.37	602.13
BT	4996.	607.37	599.48	4999.	607.39	599.48	4999.9	607.39	601.86
BT	5000.25	607.39	602.79	5001.5	607.4	603.81	5002.75	607.41	604.32
BT	5003.9	607.41	604.48	5004.01	607.41	604.47	5005.25	607.42	604.32
BT	5006.5	607.43	603.81	5007.75	607.43	602.79	5008.8	607.44	600.01
BT	5008.9	607.44	599.74	5009.	607.44	599.48	5014.	607.44	598.88
BT	5018.	607.45	600.38	5040.	607.46	600.78	5060.9	607.48	600.98
BT	5061.	607.48	600.98	5087.	608.21	601.74	5134.	609.52	603.12
BT	5151.	610.	603.62	5205.	611.78	605.2	5287.	614.47	610.2
BT	5303.	615.	611.41	5353.	617.1	615.2	5392.	620.22	620.2
BT	5422.	622.46	622.44	5459.	625.22	625.2	5312.	625.22	625.2
GR	625.2	4001.	625.2	622.41	4167.	620.2	4239.	617.3	4344.
GR	615.2	4420.	4514.	610.2	4559.	605.2	4638.	600.9	4916.
GR	600.78	4923.9	4924.	598.88	4949.	597.98	4960.9	597.96	4961.
GR	595.33	4971.5	4972.	596.17	4973.25	595.15	4974.5	594.95	4975.
GR	594.64	4975.75	4977.	594.64	4978.25	595.15	4979.5	596.17	4980.75
GR	599.48	4982.	4984.	599.48	4986.	596.17	4987.25	595.15	4988.5
GR	594.64	4989.75	4991.	594.64	4992.25	595.15	4993.5	596.17	4994.75
GR	596.83	4995.	4996.	595.48	4999.	597.1	4999.9	596.17	5000.25
GR	595.15	5001.5	5002.75	594.48	5003.9	594.49	5004.01	594.64	5005.25
GR	598.88	5014.	5018.	598.95	5008.8	599.22	5008.9	599.48	5009.
GR	601.74	5087.	603.12	600.78	5040.	600.98	5060.9	600.98	5061.
GR	611.41	5303.	5353.	620.2	5151.	605.2	5205.	610.2	5287.
GR	625.2	5512.	0.	620.2	5392.	622.44	5422.	625.2	5459.
NH	6.	4916.	0.12	4924.	0.058	5018.	0.14	5087.	0.22
NH	5134.	5512.	0.	0.	0.	0.	0.	0.	0.
X1	34814.	4924.	5018.	81.	81.	81.	81.	0.	0.
GR	624.55	4001.	4076.	621.76	-167.	619.55	4239.	616.65	4344.
GR	614.55	4420.	4514.	609.55	4559.	604.55	4638.	600.25	4916.
GR	600.13	4923.9	4924.	598.23	4949.	597.33	4960.9	597.31	4961.
GR	594.73	4971.5	4972.	594.48	4973.25	594.3	4974.5	594.25	4975.
GR	594.23	4975.75	4977.	594.23	4978.25	594.23	4979.5	594.23	4980.75
GR	594.23	4982.	4984.	594.23	4986.	594.23	4987.25	594.23	4988.5
GR	594.23	4989.75	4991.	594.23	4992.25	594.23	4993.5	594.23	4994.75
GR	594.23	4995.	4996.	593.99	4999.	593.93	4999.9	593.97	5000.25
GR	594.12	5001.5	5002.75	594.42	5003.9	594.43	5004.01	594.56	5005.25
GR	594.69	5006.5	5007.75	594.93	5009.8	594.99	5009.9	595.06	5009.
GR	598.23	5014.	5018.	600.13	5040.	600.33	5060.9	600.33	5061.
GR	601.09	5087.	602.47	602.97	5151.	604.55	5205.	609.55	5287.
GR	610.76	5303.	5353.	619.55	5392.	621.79	5422.	624.55	5459.
GR	624.55	5512.	0.	0.	0.	0.	0.	0.	0.



HC	8.	65.	4754.	0.1	J.3	4944.	0.072	4974.	0.05
NH	5004.2	0.072	5027.	0.65	5073.	5082.	0.	0.	0.
NH	8.	1920.	3020.	0.156	4720.	959.	1531.	2555.	0.
OT	0.00	0.00	0.00	3450.	0.00	4750.00	5008.00	0.00	0.00
ET	0.00	0.00	0.00	0.00	7.11				

Cross Section J

Cross Section AF (HSMH Draft)

XI	35794.	25.	4974.	5004.2	979.3	979.3	0.	0.	4531.
GR	630.	4295.	625.	4367.	620.	4394.	4444.	610.	4947.
GR	605.	4619.	603.37	4754.	602.25	4846.	4944.	601.03	5004.
GR	601.46	4974.	598.32	4976.	596.52	4995.	5000.	595.72	5027.
GR	596.52	5004.1	599.52	5004.2	601.12	5014.	5020.	612.5	5082.
GR	615.	5034.	620.	5046.	625.	5064.	5073.	630.	
NH	7.	0.65	4873.	0.156	4914.	0.117	0.054	5004.2	0.117
NH	5052.	0.156	5108.	0.65	5488.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	9.41	0.00	0.00	0.00
XI	36401.	32.	4974.	5004.2	607.	607.	0.	0.	4468.
GR	550.	4279.	645.	4338.	640.	4401.	4443.	630.	4873.
GR	605.65	4914.	620.	4492.	615.	4559.	4612.	606.24	4995.
GR	598.09	4999.9	598.08	4959.	603.62	4974.	4976.	598.68	5004.2
GR	604.13	5052.	605.	5053.	597.88	5004.	5004.1	601.68	5244.
GR	620.	5287.	625.	5069.	606.34	5108.	5214.	615.	5423.
GR	645.	5461.	650.	5326.	630.	5363.	5391.	640.	0.
				5488.	0.	0.	0.	0.	
NH	7.	0.65	4873.	0.156	4914.	0.117	0.054	5004.2	0.117
NH	5052.	0.156	5108.	0.65	5237.	0.	0.	0.	0.

Cross Section J-1

Cross Section AG (HSMH Draft)

XI	36964.	24.	4974.	5004.2	563.	563.	0.	0.	4654.
CR	635.	4366.	630.	4421.	625.	4482.	4534.	615.	4976.
GR	610.	4738.	607.5	4873.	606.74	4914.	4974.	602.49	5004.2
GR	600.69	4995.	600.09	5000.	599.89	5004.	5034.1	603.69	5106.
GR	605.	5013.	610.	5031.	612.92	5052.	5067.	620.	0.
GR	620.29	5108.	625.	5141.	630.	5191.	5237.	0.	0.
NH	7.	1.1	4922.	0.264	4956.	0.198	0.066	5010.	0.198
NH	5043.	0.254	5089.	1.1	5373.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	10.41	0.00	0.00	0.00

Cross Section K

Cross Section AH (HSMH Draft)

XI	37676.	30.	4982.	5010.	712.	712.	0.	0.	4855.
GR	650.	4751.	645.	4791.	640.	4812.	4847.	630.	4953.
GR	625.	4897.	620.	4909.	615.94	4922.	4925.	610.	4992.
GR	609.5	4956.	605.17	4982.	605.	4933.	4885.	602.63	5010.
GR	602.43	4956.	602.73	4999.9	602.74	5000.	5007.	604.73	

GR 605.	5024.	606.	5045.	5089.	610.	5119.	615.	5176.
GR 620.	5222.	625.	5258.	5287.	635.	5338.	640.	5373.
NH 7.	1.1	4922.	0.264	0.198	4982.	0.066	5010.	0.198
NH 5045.	0.264	5089.	1.1	0.	0.	0.	0.	0.
ET 0.00	0.00	0.00	0.00	10.41	0.00	0.00	0.00	0.00

Cross Section K-1  
Above County Line  
Cross Section AI (HSHW Draft)

XI 37915.	50.	4982.	5010.	239.	239.	4676.	0.	4714.
GR 655.	4574.	650.	4634.	4661.	640.	4816.	635.	4865.
GR 630.	4738.	625.	4703.	4788.	615.	4985.	610.	4992.
GR 508.63	4922.	608.13	4956.	4982.	605.29	5007.	605.19	5010.
SR 604.99	4996.	605.28	4999.5	5000.	606.19	5140.	607.29	5179.
GR 610.	5045.	613.86	5089.	5102.	620.	5140.	625.	5179.
GR 630.	5225.	635.	5259.	5303.	645.	5353.	650.	5399.

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T1 Hayes, Seay, Mattern & Mattern Cabarrus County, NC FIS  
 T2 Proj. No. EM-90-C-3101 Eng: LJM/EKL ET:TFH Comm. No. 2373  
 T3 Back Creek (BC.IN) Date: 10/17/91 50-Year Event

J1 ICHECK -INQ HINW IOIR STR7 METRIC HWINS Q WSEL FQ  
 3.0 0.00231 530.0

J2 NPROF IPLOT PFEVS XSECV XSECH FN ALLOC IBW CHRIM ITRACE

2. -1.0



T1	Hayes, Seay, Mattern & Mattern	Cabarrus County, NC FIS
T2	Proj. No. LW-90-C-3101 Eng:LJM/EKL ET:TFH	Comm. No. 2373
T3	Back Creek (BC.IN) Date: 10/17/91	500-Year Event

J1	ICHECK	INQ	RIHV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	5.0			0.00231					530.0	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
15.		-1.0								

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THIS RUN EXECUTED 17OCT91 09:38:54

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HEC-2 WATER SURFACE PROFILES  
Version 4.6.2; May 1991  
\*\*\*\*\*

NOTE--ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

Pack Creek (2C.IN)

SUMMARY PRINTOUT TABLE 101

SECHO	EGOC	ELLC	EGIC	ELTRD	QCULV	QWEIR	CLASS	H4	DEPTH	CWSEL	VCH	EG
34733.000	609.27	604.28	606.42	607.15	2303.30	419.84	17.00	2.90	13.57	608.05	2.63	608.10
34733.000	616.43	604.28	612.77	607.15	2035.13	2089.94	17.00	2.18	14.62	609.10	3.47	609.16
34733.000	620.00	604.28	616.25	607.15	1877.10	2792.60	17.00	1.81	14.88	609.36	3.83	609.46
34733.000	632.37	604.28	628.95	607.15	1373.74	4961.46	17.00	.82	15.52	610.00	4.85	610.16

Hack Creek (BC.IN)

## SUMMARY PRINTOUT TABLE 150

SEENO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRISW	EG	10*KS	VCH	AREA	.OIK
210.000	.00	.00	.00	514.73	4457.00	527.87	.00	528.13	22.68	4.31	1594.39	935.79
210.000	.00	.00	.00	514.73	6626.00	529.21	.00	529.53	22.99	4.90	2533.90	1381.89
210.000	.00	.00	.00	514.73	7547.00	529.71	.00	530.04	23.02	5.10	2950.16	1572.87
210.000	.00	.00	.00	514.73	10210.00	530.94	.00	531.31	23.14	5.59	4099.50	2122.68
1145.000	935.00	.00	.00	516.89	4457.00	529.68	.00	529.91	16.10	4.35	2119.58	1110.85
1145.000	935.00	.00	.00	516.89	6626.00	531.11	.00	531.38	17.10	4.95	3128.52	1602.32
1145.000	935.00	.00	.00	516.89	7547.00	531.63	.00	531.91	17.46	5.17	3509.18	1806.15
1145.000	935.00	.00	.00	516.89	10210.00	532.93	.00	533.25	18.54	5.74	4492.69	2371.13
1910.000	765.00	.00	.00	519.66	4457.00	530.97	.00	531.17	16.81	4.57	2502.00	1086.99
1910.000	765.00	.00	.00	518.66	6626.00	532.48	.00	532.71	17.82	5.19	3488.58	1569.52
1910.000	765.00	.00	.00	518.66	7547.00	533.03	.00	533.28	18.25	5.43	3861.16	1766.40
1910.000	765.00	.00	.00	518.66	10210.00	534.41	.00	534.70	19.48	6.04	4836.74	2313.28
2904.000	994.00	.00	.00	521.28	4457.00	532.73	.00	532.91	18.19	4.75	2649.85	1044.90
2904.000	994.00	.00	.00	521.28	6626.00	534.34	.00	534.55	19.00	5.41	3715.13	1520.21
2904.000	994.00	.00	.00	521.28	7547.00	534.93	.00	535.15	19.32	5.65	4150.29	1716.83
2904.000	994.00	.00	.00	521.28	10210.00	536.42	.00	536.67	20.09	6.25	5331.73	2278.49
3673.000	769.00	.00	.00	523.65	4457.00	534.60	.00	535.12	45.84	6.29	1219.74	658.26
3673.000	769.00	.00	.00	523.65	6626.00	536.21	.00	536.81	45.08	7.05	1821.54	986.84
3673.000	769.00	.00	.00	523.65	7547.00	536.81	.00	537.44	44.86	7.32	2057.00	1126.83
3673.000	769.00	.00	.00	523.65	10210.00	538.32	.00	539.03	44.87	8.02	2684.84	1524.18
4168.500	495.50	.00	.00	525.19	4457.00	536.61	.00	536.85	26.71	4.32	2030.36	862.46
4168.500	495.50	.00	.00	525.19	6626.00	538.20	.00	538.48	25.27	4.84	2961.07	1318.11
4168.500	495.50	.00	.00	525.19	7547.00	538.80	.00	539.09	24.93	5.03	3335.54	1511.57
4168.500	495.50	.00	.00	525.19	10210.00	540.32	.00	540.66	24.38	5.52	4344.73	2367.93
4408.500	240.00	.00	.00	525.93	4457.00	537.28	.00	537.75	40.57	6.90	1891.86	699.78
4408.500	240.00	.00	.00	525.93	6626.00	538.95	.00	539.36	41.06	7.65	2907.04	1034.05
4408.500	240.00	.00	.00	525.93	7547.00	539.44	.00	539.95	41.04	7.90	3277.71	1178.05
4408.500	240.00	.00	.00	525.93	10210.00	540.97	.00	541.51	40.88	8.53	4281.93	1596.90
4430.500	22.00	533.91	534.45	525.93	4457.00	537.32	.00	537.75	48.02	6.79	1992.75	843.17
4430.500	22.00	533.91	534.45	525.93	6626.00	538.91	.00	539.36	46.45	7.40	2923.67	972.23
4430.500	22.00	533.91	534.45	525.93	7547.00	539.51	.00	539.95	45.90	7.61	3298.86	1113.95
4430.500	22.00	533.91	534.45	525.93	10210.00	541.05	.00	541.51	44.73	8.15	4313.14	1526.56
4491.500	61.00	.00	.00	525.87	4457.00	537.81	.00	538.00	19.83	3.91	2318.95	1000.86
4491.500	61.00	.00	.00	525.87	6626.00	538.36	.00	539.60	20.22	4.49	3262.68	1473.38
4491.500	61.00	.00	.00	525.87	7547.00	539.94	.00	540.19	20.38	4.70	3635.57	1671.59
4491.500	61.00	.00	.00	525.87	10210.00	541.43	.00	541.74	20.80	5.24	4636.07	2238.79



SECR0	XLCH	ELTRD	ELLC	ELMTH	Q	CMSEL	CRIVS	EG	10*KS	VCH	AREA	.0IK
5343.000	851.50	.00	.00	525.15	4457.00	538.99	.00	539.08	8.62	3.47	4630.03	1517.79
5343.000	851.50	.00	.00	525.15	6826.00	540.69	.00	540.81	10.38	4.17	5949.34	2056.86
5343.000	851.50	.00	.00	525.15	7547.00	541.32	.00	541.45	10.99	4.43	6450.87	2276.16
5343.000	851.50	.00	.00	525.15	10210.00	542.94	.00	543.10	12.53	5.08	7764.16	2883.81
5873.000	530.00	.00	.00	527.32	4457.00	539.43	.00	539.46	6.03	2.72	5579.08	1815.15
5873.000	530.00	.00	.00	527.32	6826.00	541.20	.00	541.24	6.32	3.09	7603.29	2634.87
5873.000	530.00	.00	.00	527.32	7547.00	541.86	.00	541.90	6.44	3.22	8341.40	2973.69
5873.000	530.00	.00	.00	527.32	10210.00	543.55	.00	543.59	6.74	3.57	10304.54	3931.71
6685.000	812.00	.00	.00	530.41	4457.00	540.30	.00	540.56	41.90	5.97	2506.00	688.55
6685.000	812.00	.00	.00	530.41	6826.00	542.05	.00	542.26	30.38	5.79	4003.69	1202.18
6685.000	812.00	.00	.00	530.41	7547.00	542.70	.00	542.90	27.96	5.80	4584.78	1427.28
6685.000	812.00	.00	.00	530.41	10210.00	544.39	.00	544.56	23.80	5.91	6152.67	2092.76
7435.000	750.00	.00	.00	532.37	4457.00	542.34	.00	542.41	15.90	3.87	3939.05	1117.89
7435.000	750.00	.00	.00	532.37	6826.00	543.82	.00	543.90	16.36	4.37	5216.73	1638.38
7435.000	750.00	.00	.00	532.37	7547.00	544.40	.00	544.48	16.35	4.54	5733.09	1866.19
7435.000	750.00	.00	.00	532.37	10210.00	545.93	.00	546.03	16.20	4.94	7151.95	2537.03
8364.000	929.00	.00	.00	534.79	4457.00	544.30	.00	544.53	33.63	4.73	2152.55	768.57
8364.000	929.00	.00	.00	534.79	6826.00	545.70	.00	545.92	28.84	4.90	3422.38	1233.83
8364.000	929.00	.00	.00	534.79	7547.00	546.24	.00	546.45	27.27	4.98	3928.38	1445.28
8364.000	929.00	.00	.00	534.79	10210.00	547.57	.00	547.88	23.95	5.19	5308.49	2086.34
9234.000	870.00	.00	.00	535.98	4457.00	546.50	.00	546.71	19.21	4.28	3621.00	1016.91
9234.000	870.00	.00	.00	535.98	6826.00	547.91	.00	548.05	20.93	4.91	4762.64	1448.49
9234.000	870.00	.00	.00	535.98	7547.00	548.41	.00	548.56	21.48	5.14	5200.41	1628.51
9234.000	870.00	.00	.00	535.98	10210.00	549.73	.00	519.90	22.49	5.70	6387.82	2152.88
9887.000	753.00	.00	.00	536.91	4457.00	548.15	.00	548.33	23.60	5.13	2362.69	917.40
9887.000	753.00	.00	.00	536.91	6826.00	549.63	.00	549.86	27.04	6.04	3073.20	1274.22
9887.000	753.00	.00	.00	536.91	7547.00	550.18	.00	550.43	28.21	6.37	3354.01	1420.84
9887.000	753.00	.00	.00	536.91	10210.00	551.61	.00	551.91	30.63	7.19	4117.83	1838.88
10922.000	935.00	.00	.00	538.07	4457.00	548.80	.00	549.91	12.59	4.07	3070.32	1256.21
10922.000	935.00	.00	.00	538.07	6826.00	551.51	.00	551.65	14.10	4.75	4061.17	1764.45
10922.000	935.00	.00	.00	538.07	7547.00	552.14	.00	552.29	14.63	5.00	4445.46	1973.15
10922.000	935.00	.00	.00	538.07	10210.00	553.76	.00	553.94	15.90	5.63	5480.01	2560.66
13158.000	2236.00	.00	.00	540.83	4457.00	553.27	.00	553.48	20.50	5.59	2289.69	984.29
13158.000	2236.00	.00	.00	540.83	6826.00	555.13	.00	555.35	19.38	6.05	3519.46	1505.25
13158.000	2236.00	.00	.00	540.83	7547.00	555.81	.00	556.02	18.97	6.21	4043.02	1732.31
13158.000	2236.00	.00	.00	540.83	10210.00	557.54	.00	557.76	18.29	6.62	5490.58	2387.57
13964.000	806.00	.00	.00	541.83	4457.00	556.56	.00	557.65	210.35	9.01	4749.72	307.30
13964.000	806.00	.00	.00	541.83	6826.00	557.22	.00	558.46	295.32	10.52	5789.84	385.57
13964.000	806.00	.00	.00	541.83	7547.00	557.71	.00	560.56	67.89	3.94	11593.99	915.27
13964.000	806.00	.00	.00	541.83	10210.00	561.85	.00	563.85	70.85	13.93	14441.17	1213.03



SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CMSL	CRWS	EG	10*KS	VCH	AREA	.01K
* 14204.000	240.00	.00	.00	542.13	4457.00	559.63	.00	559.79	39.60	3.91	9500.33	708.24
* 14204.000	240.00	.00	.00	542.13	6626.00	561.01	.00	561.12	47.43	4.21	12052.95	962.15
* 14204.000	240.00	.00	.00	542.13	7547.00	561.82	.00	561.87	44.00	3.17	13735.54	1137.77
* 14204.000	240.00	.00	.00	542.13	10210.00	564.71	.00	565.31	29.13	8.35	20487.68	1891.70
14205.000	1.00	551.43	549.53	542.13	4457.00	559.73	.00	559.81	34.72	4.07	7273.13	756.38
14205.000	1.00	551.43	549.53	542.13	6626.00	561.02	.00	561.12	42.31	4.83	9703.76	1018.65
14205.000	1.00	551.43	549.53	542.13	7547.00	561.80	.00	561.90	39.72	4.87	11279.90	1197.55
14205.000	1.00	551.43	549.53	542.13	10210.00	565.42	.00	565.48	20.53	4.12	19831.45	2253.17
14225.000	1.00	551.43	549.53	542.13	4457.00	559.80	.00	559.88	33.50	4.01	7405.19	770.01
14225.000	20.00	551.43	549.53	542.13	6626.00	561.11	.00	561.20	40.81	4.76	9869.44	1037.17
14225.000	20.00	551.43	549.53	542.13	7547.00	561.88	.00	561.98	38.41	4.81	11454.93	1217.76
14225.000	20.00	551.43	549.53	542.13	10210.00	565.45	.00	565.52	20.23	4.09	19958.31	2270.17
14226.000	1.00	.00	.00	542.13	4457.00	559.77	.00	559.91	38.03	4.27	9652.72	722.75
14226.000	1.00	.00	.00	542.13	6626.00	561.07	.00	561.25	46.24	5.07	12171.80	974.37
14226.000	1.00	.00	.00	542.13	7547.00	561.85	.00	562.02	43.51	5.12	13795.56	1144.13
14226.000	1.00	.00	.00	542.13	10210.00	565.45	.00	565.54	23.01	4.37	22449.81	2128.37
14286.000	60.00	.00	.00	542.31	4457.00	560.00	.00	560.14	37.25	4.23	9731.18	730.25
14286.000	60.00	.00	.00	542.31	6626.00	561.32	.00	561.52	44.23	4.96	12384.70	996.32
14286.000	60.00	.00	.00	542.31	7547.00	562.12	.00	562.28	42.05	5.03	13980.66	1163.81
14286.000	60.00	.00	.00	542.31	10210.00	565.59	.00	565.68	23.43	4.41	22293.58	2109.09
14990.000	704.00	.00	.00	544.43	4457.00	560.94	.00	561.05	6.50	3.78	5919.52	1747.61
14990.000	704.00	.00	.00	544.43	6626.00	562.55	.00	562.72	8.95	4.77	7401.35	2214.81
14990.000	704.00	.00	.00	544.43	7547.00	563.32	.00	563.51	9.44	5.05	8227.57	2456.95
14990.000	704.00	.00	.00	544.43	10210.00	566.43	.00	566.62	8.17	5.27	12076.12	3571.06
15740.000	750.00	.00	.00	546.68	4457.00	561.72	.00	561.91	23.34	5.61	6485.84	922.48
15740.000	750.00	.00	.00	546.68	6626.00	563.55	.00	563.75	22.97	6.13	9545.53	1382.47
15740.000	750.00	.00	.00	546.68	7547.00	564.35	.00	564.54	21.80	6.21	11041.80	1615.53
15740.000	750.00	.00	.00	546.68	10210.00	567.25	.00	567.43	14.88	5.81	17027.16	2646.38
16542.000	802.00	.00	.00	549.09	2917.00	563.12	.00	563.29	11.51	3.99	4374.35	859.75
16542.000	802.00	.00	.00	549.09	4382.00	564.93	.00	565.11	11.46	4.41	7271.91	1294.41
16542.000	802.00	.00	.00	549.09	5020.00	563.56	.00	565.84	11.13	4.51	8597.25	1506.64
16542.000	802.00	.00	.00	549.09	6883.00	568.22	.00	568.36	8.39	4.41	13422.53	2376.77
17492.000	950.00	.00	.00	551.98	2917.00	564.22	.00	564.26	9.03	3.61	5003.60	970.86
17492.000	950.00	.00	.00	551.98	4382.00	566.08	.00	566.13	0.01	4.22	8924.30	1385.12
17492.000	950.00	.00	.00	551.98	5020.00	566.81	.00	566.86	13.27	4.43	7710.75	1566.76
17492.000	950.00	.00	.00	551.98	6883.00	569.15	.00	569.22	9.57	4.76	10376.92	2225.22
18349.000	857.00	.00	.00	554.01	2917.00	565.21	.00	565.52	23.11	5.30	1514.31	606.78
18349.000	857.00	.00	.00	554.01	4382.00	567.12	.00	567.46	22.89	5.94	2884.57	915.97
18349.000	857.00	.00	.00	554.01	5020.00	567.85	.00	568.21	22.80	6.17	3318.61	1051.28
18349.000	857.00	.00	.00	554.01	6883.00	570.10	.00	570.47	20.55	6.54	4721.74	1518.28

SENO	XLCH	ELTRD	ELLC	ELMIN	Q	CMSEL	CRWS	EG	10*KS	VCH	AREA	.DJK
20417.000	2068.00	.00	.00	555.08	2917.00	568.75	.00	568.95	12.43	4.40	2129.81	827.30
20417.000	2068.00	.00	.00	555.08	4382.00	570.78	.00	571.02	13.42	5.11	3055.48	1196.33
20417.000	2068.00	.00	.00	555.08	5020.00	571.56	.00	571.83	15.75	5.38	3442.30	1353.82
20417.000	2068.00	.00	.00	555.08	6883.00	573.66	.00	573.98	14.19	6.00	4595.99	1827.36
22660.000	2243.00	.00	.00	558.24	2917.00	571.77	.00	571.98	14.73	4.70	1888.79	760.02
22660.000	2243.00	.00	.00	558.24	4382.00	573.90	.00	574.12	14.10	5.19	2919.19	1165.86
22660.000	2243.00	.00	.00	558.24	5020.00	574.70	.00	574.93	13.92	5.37	3361.80	1345.53
22660.000	2243.00	.00	.00	558.24	6883.00	576.83	.00	577.08	13.42	5.81	4633.60	1879.13
* 23344.000	684.00	.00	.00	560.96	2917.00	573.28	.00	574.30	95.58	9.49	699.98	298.36
* 23344.000	684.00	.00	.00	560.96	4382.00	575.36	.00	576.03	62.95	8.82	1545.09	552.32
* 23344.000	684.00	.00	.00	560.96	5020.00	576.13	.00	576.74	55.61	8.67	1942.22	673.20
* 23344.000	684.00	.00	.00	560.96	6883.00	578.17	.00	578.66	43.31	8.49	3122.25	1045.83
* 24024.000	680.00	.00	.00	563.67	2917.00	576.32	.00	576.58	16.09	4.79	1410.69	727.18
* 24024.000	680.00	.00	.00	563.67	4382.00	577.93	.00	578.29	20.04	5.86	1981.83	978.75
* 24024.000	680.00	.00	.00	563.67	5020.00	578.56	.00	578.97	21.28	6.24	2238.25	1088.23
* 24024.000	680.00	.00	.00	563.67	6883.00	580.29	.00	580.79	23.48	7.12	3032.70	1420.40
* 24703.000	679.70	.00	.00	566.38	2706.00	577.77	.00	578.39	46.63	6.44	690.43	396.29
* 24703.000	679.70	.00	.00	566.38	4088.00	579.62	.00	580.33	45.25	7.26	1559.09	607.71
* 24703.000	679.70	.00	.00	566.38	4669.00	580.32	.00	581.05	43.94	7.48	1967.98	704.32
* 24703.000	679.70	.00	.00	566.38	6357.00	582.15	.00	582.90	40.43	7.95	3143.31	999.78
24876.000	172.80	.00	.00	567.07	2706.00	578.59	.00	579.18	43.96	6.32	728.99	405.15
24876.000	172.80	.00	.00	567.07	4088.00	580.42	.00	581.11	43.30	7.15	1617.45	621.24
24876.000	172.80	.00	.00	567.07	4669.00	581.09	.00	581.80	42.55	7.39	2015.36	715.76
24876.000	172.80	.00	.00	567.07	6357.00	582.85	.00	583.59	40.31	7.94	3148.74	1001.20
24898.000	22.00	578.77	577.12	567.07	2706.00	579.49	.00	579.95	28.94	5.77	1095.22	502.99
24898.000	22.00	578.77	577.12	567.07	4088.00	580.34	.00	581.11	45.15	7.62	1572.16	608.36
24898.000	22.00	578.77	577.12	567.07	4669.00	581.01	.00	581.80	44.54	7.88	1967.91	699.58
24898.000	22.00	578.77	577.12	567.07	6357.00	582.76	.00	583.59	42.56	8.47	3089.73	974.23
24942.000	44.20	.00	.00	567.18	2706.00	579.69	.00	580.10	27.59	5.39	1156.28	515.16
24942.000	44.20	.00	.00	567.18	4088.00	580.69	.00	581.34	40.45	6.98	1709.62	642.79
24942.000	44.20	.00	.00	567.18	4669.00	581.35	.00	582.02	40.05	7.24	2106.99	738.00
24942.000	44.20	.00	.00	567.18	6357.00	583.09	.00	583.81	38.41	7.61	3242.34	1025.74
26263.000	1320.30	.00	.00	570.38	2706.00	583.30	.00	583.57	25.01	5.19	2051.08	541.14
26263.000	1320.30	.00	.00	570.38	4088.00	585.07	.00	585.35	23.34	5.64	3128.29	846.12
26263.000	1320.30	.00	.00	570.38	4669.00	585.71	.00	586.00	23.05	5.82	3556.38	972.56
26263.000	1320.30	.00	.00	570.38	6357.00	587.36	.00	587.66	22.51	5.23	4825.66	1339.95
* 26817.000	554.70	.00	.00	571.73	2706.00	584.23	.00	584.34	8.38	3.25	2914.92	934.92
* 26817.000	554.70	.00	.00	571.73	4088.00	585.01	.00	586.15	9.37	3.85	4279.53	1335.45
* 26817.000	554.70	.00	.00	571.73	4669.00	586.65	.00	586.80	9.72	4.08	4796.72	1487.60
* 26817.000	554.70	.00	.00	571.73	6357.00	588.32	.00	588.50	10.55	4.63	6187.61	1956.74

SECHO	XLCH	ELTRD	ELLC	ELM1W	Q	CWSEL	CR1WS	EG	10*KS	VCH	AREA	.01K
27036.000	218.80	.00	.00	572.26	2706.00	584.42	.00	584.57	11.04	3.65	2375.49	814.36
27036.000	218.80	.00	.00	572.26	4088.00	586.22	.00	586.37	10.53	4.01	4030.62	1259.55
27036.000	218.80	.00	.00	572.26	4669.00	586.87	.00	587.03	10.83	4.23	4547.05	1419.00
27036.000	218.80	.00	.00	572.26	6357.00	588.55	.00	588.75	11.53	4.77	5536.73	1872.19
27056.000	20.00	585.16	583.86	572.26	2706.00	585.34	.00	585.44	9.39	3.07	2921.09	883.46
27056.000	20.00	585.16	583.86	572.26	4088.00	587.21	.00	587.30	8.80	3.32	4815.30	1378.29
27056.000	20.00	585.16	583.86	572.26	4669.00	587.87	.00	587.77	9.80	3.60	5192.82	1491.77
27056.000	20.00	585.16	583.86	572.26	6357.00	588.74	.00	588.90	12.85	4.35	6098.94	1773.43
27112.000	55.70	.00	.00	572.31	2706.00	585.39	.00	585.48	6.52	2.99	3355.85	1059.77
27112.000	55.70	.00	.00	572.31	4088.00	587.24	.00	587.35	7.40	3.56	4811.81	1502.41
27112.000	55.70	.00	.00	572.31	4669.00	587.70	.00	587.84	8.26	3.86	5192.13	1624.90
27112.000	55.70	.00	.00	572.31	6357.00	588.79	.00	588.98	10.89	4.68	6098.23	1926.33
27957.000	844.80	.00	.00	573.00	2706.00	586.09	.00	586.25	12.74	3.89	2670.62	758.18
27957.000	844.80	.00	.00	573.00	4088.00	588.00	.00	588.19	13.00	4.43	4056.13	1133.66
27957.000	844.80	.00	.00	573.00	4669.00	588.53	.00	588.75	13.90	4.72	4467.06	1252.14
27957.000	844.80	.00	.00	573.00	6357.00	589.85	.00	590.13	16.52	5.51	5508.50	1563.94
28765.000	808.00	.00	.00	573.66	2706.00	587.30	.00	587.50	18.78	4.57	2004.88	624.42
28765.000	808.00	.00	.00	573.66	4088.00	589.22	.00	589.45	18.62	5.13	3182.46	947.41
28765.000	808.00	.00	.00	573.66	4669.00	589.83	.00	590.97	19.29	5.40	3559.05	1063.09
28765.000	808.00	.00	.00	573.66	6357.00	591.35	.00	591.64	21.21	6.11	4554.85	1380.37
29677.000	912.00	.00	.00	574.40	2706.00	569.15	.00	589.52	24.93	5.22	996.85	541.91
29677.000	912.00	.00	.00	574.40	4088.00	591.06	.00	591.51	26.03	6.01	1711.34	801.19
29677.000	912.00	.00	.00	574.40	4669.00	591.72	.00	592.19	26.48	6.29	2018.98	907.29
29677.000	912.00	.00	.00	574.40	6357.00	593.37	.00	593.91	27.63	6.98	2936.30	1209.28
30480.000	803.00	.00	.00	575.06	2706.00	590.66	.00	590.91	12.54	4.28	1053.26	764.00
30480.000	803.00	.00	.00	575.06	4088.00	592.74	.00	593.09	15.33	5.24	1587.85	1044.13
30480.000	803.00	.00	.00	575.06	4669.00	593.46	.00	595.85	16.44	5.61	1824.14	1151.53
30480.000	803.00	.00	.00	575.06	6357.00	595.24	.00	595.75	19.31	6.54	2531.33	1446.62
31354.000	874.00	.00	.00	579.61	2706.00	592.26	.00	592.69	35.65	5.39	670.91	453.21
31354.000	874.00	.00	.00	579.61	4088.00	594.47	.00	594.94	29.63	5.83	1370.98	751.02
31354.000	874.00	.00	.00	579.61	4669.00	595.25	.00	595.73	23.31	5.99	1701.23	877.45
31354.000	874.00	.00	.00	579.61	6357.00	597.19	.00	597.69	25.70	6.39	2634.64	1254.02
32169.000	815.10	.00	.00	583.85	2706.00	595.00	.00	596.05	48.06	5.95	978.63	350.32
32169.000	815.10	.00	.00	583.85	4088.00	597.43	.00	597.89	45.02	7.51	1460.03	603.26
32169.000	815.10	.00	.00	583.85	4669.00	598.12	.00	598.57	43.78	7.68	1735.05	795.67
32169.000	815.10	.00	.00	583.85	6357.00	599.87	.00	600.32	41.55	8.15	2573.20	986.17
32257.000	88.40	.00	.00	584.30	2706.00	596.02	.00	596.48	48.64	6.98	872.94	388.02
32257.000	88.40	.00	.00	584.30	4088.00	597.83	.00	598.29	45.92	7.56	1443.22	603.25
32257.000	88.40	.00	.00	584.30	4669.00	598.50	.00	598.96	44.93	7.75	1708.62	636.54
32257.000	88.40	.00	.00	584.30	6357.00	600.24	.00	600.70	42.61	8.24	2529.32	971.57

SECNO	XLCH	ELTRD	ELLC	ELHIR	Q	CWSEL	CRIMS	EG	10*KS	VCH	AREA	.01K
32271.000	14.00	590.91	590.78	584.31	2706.00	596.02	.00	596.48	48.99	6.98	871.02	386.59
32271.000	14.00	590.91	590.78	584.31	4088.00	597.83	.00	598.29	46.24	7.56	1440.02	601.16
32271.000	14.00	590.91	590.78	584.31	4669.00	598.50	.00	598.96	45.23	7.75	1704.99	654.21
32271.000	14.00	590.91	590.78	584.31	6357.00	600.24	.00	600.70	43.07	8.23	2524.92	988.66
32294.000	23.10	.00	.00	584.53	2706.00	596.12	.00	596.61	51.98	7.16	841.85	375.34
32294.000	23.10	.00	.00	584.53	4088.00	597.93	.00	598.41	48.52	7.72	1397.51	586.85
32294.000	23.10	.00	.00	584.53	4669.00	598.60	.00	599.08	47.35	7.91	1655.67	678.51
32294.000	23.10	.00	.00	584.53	6357.00	600.33	.00	600.81	44.87	8.39	2461.45	949.60
33082.000	787.40	.00	.00	592.07	2706.00	601.00	.00	601.74	81.14	7.64	782.43	300.40
33082.000	787.40	.00	.00	592.07	4088.00	602.50	.00	603.32	79.15	8.53	1290.39	459.51
33082.000	787.40	.00	.00	592.07	4669.00	603.06	.00	603.90	78.11	8.82	1504.23	528.27
33082.000	787.40	.00	.00	592.07	6357.00	604.53	.00	605.44	75.09	9.53	2132.72	733.61
* 33830.000	748.00	.00	.00	592.78	2706.00	604.22	.00	604.39	19.18	4.38	2401.08	617.93
* 33830.000	748.00	.00	.00	592.78	4088.00	605.88	.00	606.08	20.57	5.07	3448.87	901.30
* 33830.000	748.00	.00	.00	592.78	4669.00	606.48	.00	606.70	21.07	5.33	3848.27	1017.23
* 33830.000	748.00	.00	.00	592.78	6357.00	608.63	.00	608.29	22.28	5.97	4920.03	1346.80
* 34352.000	523.30	.00	.00	593.28	2706.00	604.83	.00	604.92	6.04	2.68	2419.66	1100.69
* 34353.000	523.30	.00	.00	593.28	4088.00	606.54	.00	606.67	6.93	3.22	3491.77	1552.94
* 34353.000	523.30	.00	.00	593.28	4669.00	607.17	.00	607.31	7.25	3.42	3904.12	1734.41
* 34353.000	523.30	.00	.00	593.28	6357.00	608.78	.00	608.96	8.04	3.94	5021.94	242.25
34573.000	320.00	.00	.00	593.79	2706.00	605.04	.00	605.21	10.73	4.12	2246.02	826.04
34573.000	320.00	.00	.00	593.79	4088.00	606.79	.00	607.00	12.23	4.85	3322.88	1168.76
34573.000	320.00	.00	.00	593.79	4669.00	607.43	.00	607.65	12.75	5.12	3737.79	1307.57
34573.000	320.00	.00	.00	593.79	6357.00	609.07	.00	609.33	13.97	5.79	4570.40	1700.92
34733.000	60.40	607.15	604.28	594.48	2706.00	608.05	.00	608.10	7.35	2.63	3572.73	998.18
34733.000	60.40	607.15	604.28	594.48	4088.00	609.10	.00	609.18	11.41	3.47	4279.95	1210.04
34733.000	60.40	607.15	604.28	594.48	4669.00	609.36	.00	609.46	13.60	3.83	4461.90	1265.85
34733.000	60.40	607.15	604.28	594.48	6357.00	610.00	.00	610.16	20.38	4.85	4918.82	1408.11
* 34814.000	81.00	.00	.00	593.93	2706.00	608.09	.00	608.13	2.22	1.92	4088.64	1816.74
* 34814.000	81.00	.00	.00	593.93	4088.00	609.15	.00	609.23	3.61	2.60	4628.77	2153.03
* 34814.000	81.00	.00	.00	593.93	4669.00	609.42	.00	609.52	4.33	2.89	5022.50	2242.50
* 34814.000	81.00	.00	.00	593.93	6357.00	610.09	.00	610.25	6.61	3.70	5515.18	2472.64
* 35794.000	979.30	.00	.00	595.72	1920.00	608.35	.00	608.40	3.79	2.59	2474.61	586.03
* 35794.000	979.30	.00	.00	595.72	3020.00	609.57	.00	609.66	5.92	3.47	3049.19	1240.87
* 35794.000	979.30	.00	.00	595.72	3450.00	609.92	.00	610.03	6.85	3.80	3218.19	1318.14
* 35794.000	979.30	.00	.00	595.72	4720.00	510.64	.00	611.00	9.49	4.69	3675.55	1532.21
* 36401.000	607.00	.00	.00	597.88	1920.00	608.67	.00	608.80	11.99	3.78	1357.53	554.40
* 36401.000	607.00	.00	.00	597.88	3020.00	610.05	.00	610.22	14.35	4.54	2101.66	797.31
* 36401.000	607.00	.00	.00	597.88	3450.00	610.47	.00	610.65	15.30	4.81	2354.24	862.06
* 36401.000	607.00	.00	.00	597.88	4720.00	611.57	.00	611.78	17.57	5.48	3033.26	1126.08

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SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CVSEL	CRWS	EG	10*KS	VCH	AREA	.01K
* 36964.000	563.00	.00	.00	599.89	1920.00	609.54	.00	609.88	29.99	5.49	744.29	350.59
* 36964.000	563.00	.00	.00	599.89	3020.00	611.05	.00	611.45	32.30	6.37	1193.46	531.38
* 36964.000	563.00	.00	.00	599.89	3450.00	611.52	.00	611.95	33.44	6.69	1345.55	596.57
* 36964.000	563.00	.00	.00	599.89	4720.00	612.74	.00	613.24	36.18	7.50	1765.56	784.91
37676.000	712.00	.00	.00	602.43	1920.00	611.80	.00	612.08	31.66	5.20	898.31	341.25
37676.000	712.00	.00	.00	602.43	3020.00	613.53	.00	613.92	37.33	6.36	1261.93	494.27
37676.000	712.00	.00	.00	602.43	3450.00	614.09	.00	614.53	39.28	6.76	1392.46	550.47
37676.000	712.00	.00	.00	602.43	4720.00	615.54	.00	616.10	44.33	7.81	1751.96	708.91
37915.000	239.00	.00	.00	604.99	1920.00	612.72	.00	613.14	60.59	6.32	880.03	246.66
37915.000	239.00	.00	.00	604.99	3020.00	614.56	.00	615.04	57.19	7.16	1351.57	399.35
37915.000	239.00	.00	.00	604.99	3450.00	615.16	.00	615.67	56.81	7.45	1521.84	457.73
37915.000	239.00	.00	.00	604.99	4720.00	616.72	.00	617.30	56.82	8.24	1986.43	626.14

Back Creek (EC.IN)

SUMMARY PRINTOUT TABLE 150

SECNO	Q	QWSEL	QIFWSP	QIFWSX	QIFKWS	TOPWJD	XLCH
210.000	4457.00	527.87	.00	.00	-2.13	591.90	.00
210.000	6626.00	529.21	1.35	.00	.79	803.91	.00
210.000	7547.00	529.71	.49	.00	-.29	881.69	.00
210.000	10210.00	530.94	1.23	.00	.94	950.79	.00
1145.000	4457.00	529.68	.00	1.82	.00	659.41	935.00
1145.000	6626.00	531.11	1.43	1.90	.00	727.21	935.00
1145.000	7547.00	531.63	.52	1.93	.00	740.78	935.00
1145.000	10210.00	532.93	1.30	1.99	.00	774.75	935.00
1910.000	4457.00	530.97	.00	1.28	.00	632.76	765.00
1910.000	6626.00	532.48	1.51	1.36	.00	671.47	765.00
1910.000	7547.00	533.03	.55	1.39	.00	685.52	765.00
1910.000	10210.00	534.41	1.39	1.48	.00	721.01	765.00
2904.000	4457.00	532.73	.00	1.77	.00	608.57	994.00
2904.000	6626.00	534.34	1.60	1.86	.00	719.30	994.00
2904.000	7547.00	534.93	.59	1.90	.00	759.90	994.00
2904.000	10210.00	536.42	1.49	2.01	.00	818.41	994.00
3673.000	4457.00	534.60	.00	1.66	.00	343.52	769.00
3673.000	6626.00	536.21	1.62	1.87	.00	389.81	769.00
3673.000	7547.00	536.81	.60	1.88	.00	401.01	769.00
3673.000	10210.00	538.32	1.51	1.90	.00	429.43	769.00
4168.500	4457.00	536.61	.00	2.02	.00	544.73	495.50
4168.500	6626.00	538.20	1.59	1.99	.00	621.53	495.50
4168.500	7547.00	538.80	.59	1.99	.00	641.24	495.50
4168.500	10210.00	540.32	1.53	2.00	.00	676.19	495.50
4408.500	4457.00	537.28	.00	.67	.00	542.63	240.00
4408.500	6626.00	538.85	1.57	.65	.00	518.08	240.00
4408.500	7547.00	535.44	.59	.65	.00	638.80	240.00
4408.500	10210.00	540.97	1.53	.65	.00	674.23	240.00
4430.500	4457.00	537.32	.00	.04	.00	513.81	22.00
4430.500	6626.00	538.91	1.59	.06	.00	620.47	22.00
4430.500	7547.00	539.51	.59	.07	.00	640.57	22.00
4430.500	10210.00	541.05	1.54	.08	.00	675.85	22.00
4491.500	4457.00	537.61	.00	.49	.00	572.51	61.00
4491.500	6626.00	539.36	1.55	.44	.00	618.16	61.00
4491.500	7547.00	539.74	.58	.43	.00	663.75	61.00
4491.500	10210.00	541.43	1.50	.39	.00	685.24	61.00

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SECH0	Q	CWSEL	DIFWSP	DIFWSX	DIFRWS	TOPWID	XLCH
* 5343.000	4457.00	538.99	.00	1.18	.00	753.74	851.50
5343.000	6826.00	540.69	1.70	1.33	.00	792.94	851.50
5343.000	7547.00	541.32	.63	1.38	.00	802.80	851.50
5343.000	10210.00	542.94	1.62	1.51	.00	825.24	851.50
5873.000	4457.00	539.43	.00	.44	.00	1037.48	530.00
5873.000	5626.00	541.20	1.77	.51	.00	1117.57	530.00
5873.000	7547.00	541.86	.65	.54	.00	1136.95	530.00
5873.000	10210.00	543.55	1.69	.60	.00	1186.56	530.00
* 6885.000	4457.00	540.30	.00	.87	.00	825.01	812.00
* 6885.000	6826.00	542.05	1.76	.85	.00	883.24	812.00
* 6885.000	7547.00	542.70	.65	.95	.00	904.63	812.00
* 6885.000	10210.00	544.39	1.68	.84	.00	960.62	812.00
* 7435.000	4457.00	542.34	.00	2.04	.00	839.88	750.00
7435.000	6826.00	543.82	1.48	1.76	.00	835.48	750.00
7435.000	7547.00	544.40	.58	1.69	.00	903.30	750.00
7435.000	10210.00	545.93	1.54	1.53	.00	933.94	750.00
* 8384.000	4457.00	544.30	.00	1.96	.00	808.29	929.00
8384.000	6826.00	545.70	1.41	1.88	.00	941.46	929.00
8384.000	7547.00	546.24	.53	1.84	.00	951.72	929.00
8384.000	10210.00	547.67	1.43	1.73	.00	979.17	929.00
9234.000	4457.00	546.60	.00	2.30	.00	855.81	870.00
9234.000	6826.00	547.91	1.32	2.21	.00	877.94	870.00
9234.000	7547.00	548.41	.50	2.17	.00	896.28	870.00
9234.000	10210.00	549.73	1.32	2.07	.00	908.51	870.00
9987.000	4457.00	548.15	.00	1.55	.00	455.43	753.00
9987.000	6826.00	549.63	1.48	1.72	.00	502.36	753.00
9987.000	7547.00	550.18	.55	1.77	.00	518.25	753.00
9987.000	10210.00	551.61	1.43	1.88	.00	551.67	753.00
10922.000	4457.00	549.80	.00	1.65	.00	551.65	935.00
10922.000	6826.00	551.51	1.71	1.88	.00	601.23	935.00
10922.000	7547.00	552.14	.63	1.96	.00	618.02	935.00
10922.000	10210.00	553.76	1.62	2.15	.00	661.05	935.00
13158.000	4457.00	553.27	.00	3.47	.00	573.47	2236.00
13158.000	6826.00	555.13	1.66	3.62	.00	745.98	2236.00
13158.000	7547.00	555.81	.67	3.56	.00	785.25	2236.00
13158.000	10210.00	557.54	1.73	3.78	.00	684.76	2236.00
* 13964.000	4457.00	556.56	.00	3.29	.00	1524.29	806.00
* 13964.000	6826.00	557.22	.67	2.09	.00	1597.53	806.00
* 13964.000	7547.00	560.46	3.26	4.68	.00	1984.28	806.00
* 13964.000	10210.00	561.05	1.37	4.31	.00	2183.54	806.00

17OCT91 09:39:29

SECHD	Q	CMSEL	DIFVSP	DIFVXS	SIFKWS	TOPWID	XLCH
* 14204.000	4457.00	559.68	.00	3.13	.00	1835.37	240.00
* 14204.000	6626.00	561.01	1.33	3.79	.00	2017.73	240.00
* 14204.000	7547.00	561.82	.81	1.34	.00	2135.89	240.00
* 14204.000	10210.00	564.71	2.98	2.80	.00	2555.68	240.00
14205.000	4457.00	559.73	.00	.04	.00	1835.81	1.00
14205.000	6626.00	561.02	1.29	.01	.00	2019.38	1.00
14205.000	7547.00	561.80	.78	-.02	.00	2132.65	1.00
14205.000	10210.00	565.42	3.62	.71	.00	2622.10	1.00
14225.000	4457.00	559.80	.00	.07	.00	1847.99	20.00
14225.000	6626.00	561.11	1.31	.09	.00	2031.61	20.00
14225.000	7547.00	561.88	.78	.08	.00	2144.83	20.00
14225.000	10210.00	565.46	3.58	.04	.00	2624.76	20.00
14226.000	4457.00	559.77	.00	-.03	.00	1844.47	1.00
14226.000	6626.00	561.07	1.30	-.03	.00	2026.30	1.00
14226.000	7547.00	561.85	.78	-.03	.00	2139.98	1.00
14226.000	10210.00	565.45	3.60	-.02	.00	2623.95	1.00
14286.000	4457.00	560.00	.00	.23	.00	1849.14	60.00
14286.000	6626.00	561.35	1.36	.28	.00	2041.56	60.00
14286.000	7547.00	562.12	.76	.27	.00	2152.56	60.00
14286.000	10210.00	565.59	3.47	.14	.00	2620.70	60.00
14990.000	4457.00	560.94	.00	.94	.00	917.02	704.00
14990.000	6626.00	562.55	1.61	1.20	.00	1044.14	704.00
14990.000	7547.00	563.32	.77	1.20	.00	1104.73	704.00
14990.000	10210.00	566.43	3.11	.84	.00	1399.03	704.00
15740.000	4457.00	561.72	.00	.78	.00	1557.11	750.00
15740.000	6626.00	563.55	1.83	1.00	.00	1801.72	750.00
15740.000	7547.00	564.35	.80	1.03	.00	1909.82	750.00
15740.000	10210.00	567.29	2.54	.86	.00	2117.14	750.00
16542.000	2917.00	562.12	.00	1.40	.00	1428.55	802.00
16542.000	4382.00	564.93	1.81	1.38	.00	1775.13	802.00
16542.000	5020.00	565.66	.73	1.31	.00	1823.05	802.00
16542.000	6883.00	568.22	2.56	.93	.00	1954.37	802.00
17492.000	2917.00	564.22	.00	1.10	.00	972.05	950.00
17492.000	4382.00	566.08	1.86	1.15	.00	1371.14	950.00
17492.000	5020.00	566.61	.73	1.14	.00	1094.82	950.00
17492.000	6883.00	569.16	2.35	.94	.00	1171.52	950.00
18349.000	2917.00	565.21	.00	.99	.00	537.81	857.00
18349.000	4382.00	567.12	1.91	1.04	.00	581.78	857.00
18349.000	5020.00	567.86	.74	1.05	.00	598.70	857.00
18349.000	6883.00	570.10	2.25	.95	.00	654.02	857.00



SECNO	Q	CASEL	DIFVSP	DIFVSK	DIFVWS	TOPWID	XLCH
20417.000	2917.00	568.75	.00	3.54	.00	425.58	2068.00
20417.000	4382.00	570.78	2.04	3.66	.00	486.49	2068.00
20417.000	5020.00	571.56	.77	3.70	.00	512.65	2068.00
20417.000	6883.00	573.66	2.10	3.56	.00	583.78	2068.00
22660.000	2917.00	571.77	.00	3.03	.00	443.14	2243.00
22660.000	4382.00	573.90	2.12	3.11	.00	531.50	2243.00
22660.000	5020.00	574.70	.81	3.14	.00	565.24	2243.00
22660.000	6883.00	576.83	2.13	3.17	.00	624.01	2243.00
* 23344.000	2917.00	573.28	.00	1.51	.00	316.04	684.00
* 23344.000	4382.00	575.36	2.07	1.46	.00	487.12	684.00
* 23344.000	5020.00	576.13	.78	1.43	.00	527.06	684.00
* 23344.000	6883.00	578.17	2.04	1.34	.00	631.00	684.00
* 24024.000	2917.00	576.32	.00	3.03	.00	314.84	680.00
* 24024.000	4382.00	577.93	1.61	2.57	.00	390.33	680.00
* 24024.000	5020.00	578.56	.63	2.43	.00	419.83	680.00
* 24024.000	6883.00	580.29	1.73	2.11	.00	496.74	680.00
* 24703.000	2706.00	577.77	.00	1.46	.00	337.81	679.70
* 24703.000	4088.00	579.62	1.85	1.70	.00	572.03	679.70
* 24703.000	4669.00	580.32	.70	1.76	.00	603.68	679.70
* 24703.000	6357.00	582.15	1.82	1.86	.00	684.01	679.70
24876.000	2706.00	578.59	.00	.82	.00	347.47	172.80
24876.000	4088.00	580.42	1.83	.80	.00	576.49	172.80
24876.000	4669.00	581.09	.57	.77	.00	607.30	172.80
24876.000	6357.00	582.85	1.75	.70	.00	684.33	172.80
24898.000	2706.00	579.49	.00	.90	.00	469.59	22.00
24898.000	4088.00	580.34	.85	-.08	.00	573.02	22.00
24898.000	4669.00	581.01	.67	-.09	.00	603.66	22.00
24898.000	6357.00	582.76	1.75	-.09	.00	680.85	22.00
24942.000	2706.00	579.69	.00	.20	.00	497.52	44.20
24942.000	4088.00	580.69	1.00	.35	.00	583.52	44.20
24942.000	4669.00	581.35	.66	.34	.00	614.25	44.20
24942.000	6357.00	583.09	1.74	.33	.00	689.81	44.20
26263.000	2706.00	583.30	.00	3.61	.00	573.12	1320.30
26263.000	4088.00	585.07	1.77	4.39	.00	644.41	1320.30
26263.000	4669.00	585.71	.64	4.36	.00	690.09	1320.30
26263.000	6357.00	587.36	1.65	4.27	.00	840.55	1320.30
* 26817.000	2706.00	584.23	.00	.93	.00	726.08	554.70
* 26817.000	4088.00	586.01	1.78	.94	.00	794.35	554.70
* 26817.000	4669.00	586.65	.64	.94	.00	812.50	554.70
* 26817.000	6357.00	588.32	1.66	.96	.00	859.42	554.70

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SECD	Q	CMSEL	DIFVSP	DIFVXS	DIFKMS	TOPWID	XLCH
27036.000	2706.00	584.42	.00	.19	.00	563.40	218.80
27036.000	4088.00	586.22	1.80	.21	.00	785.46	218.80
27036.000	4669.00	586.87	.65	.22	.00	803.79	218.80
27036.000	6357.00	588.55	1.68	.23	.00	851.15	218.80
27056.000	2706.00	585.34	.00	.92	.00	613.94	20.00
27056.000	4088.00	587.21	1.86	.98	.00	813.19	20.00
27056.000	4669.00	587.67	.46	.79	.00	826.17	20.00
27056.000	6357.00	588.74	1.08	.19	.00	856.54	20.00
27112.000	2706.00	585.39	.00	.05	.00	760.85	55.70
27112.000	4088.00	587.24	1.85	.03	.00	813.02	55.70
27112.000	4669.00	587.70	.46	.04	.00	826.11	55.70
27112.000	6357.00	588.79	1.09	.05	.00	856.48	55.70
27957.000	2706.00	586.09	.00	.69	.00	690.55	644.80
27957.000	4088.00	588.00	1.91	.76	.00	753.85	644.80
27957.000	4669.00	588.53	.54	.83	.00	771.63	644.80
27957.000	6357.00	589.85	1.31	1.06	.00	814.96	644.80
28765.000	2706.00	587.30	.00	1.21	.00	535.51	808.00
28765.000	4088.00	589.22	1.92	1.22	.00	606.98	808.00
28765.000	4669.00	589.83	.61	1.30	.00	629.64	808.00
28765.000	6357.00	591.35	1.52	1.50	.00	684.14	808.00
29677.000	2706.00	589.15	.00	1.85	.00	308.85	912.00
29677.000	4088.00	591.06	1.91	1.84	.00	443.15	912.00
29677.000	4669.00	591.72	.66	1.89	.00	492.69	912.00
29677.000	6357.00	593.37	1.65	2.03	.00	617.23	912.00
30480.000	2706.00	590.66	.00	1.51	.00	201.57	803.00
30480.000	4088.00	592.74	2.08	1.68	.00	312.08	803.00
30480.000	4669.00	593.46	.71	1.74	.00	349.98	803.00
30480.000	6357.00	595.24	1.78	1.87	.00	436.28	803.00
31354.000	2706.00	592.26	.00	1.60	.00	232.66	874.00
31354.000	4088.00	594.47	2.22	1.73	.00	399.41	874.00
31354.000	4669.00	595.25	.77	1.79	.00	447.65	874.00
31354.000	6357.00	597.19	1.94	1.95	.00	515.46	874.00
32169.000	2706.00	595.60	.00	3.34	.00	258.07	815.10
32169.000	4088.00	597.43	1.84	2.96	.00	376.44	815.10
32169.000	4669.00	598.12	.68	2.87	.00	421.00	815.10
32169.000	6357.00	599.87	1.76	2.69	.00	527.89	815.10
32257.000	2706.00	596.02	.00	.42	.00	256.64	88.40
32257.000	4088.00	597.83	1.81	.39	.00	378.55	88.40
32257.000	4669.00	598.59	.67	.39	.00	416.92	88.40
32257.000	6357.00	600.24	1.74	.37	.00	524.75	88.40

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SECNO	Q	CWSEL	DIFVSP	DIFMSX	DIFKWS	TOP#ID	XLCH
32271.000	2706.00	596.02	.00	.00	.00	256.03	14.00
32271.000	4088.00	597.83	1.81	.00	.00	372.91	14.00
32271.000	4669.00	598.50	.67	.00	.00	416.28	14.00
32271.000	6357.00	600.24	1.74	.00	.00	523.74	14.00
32294.000	2706.00	596.12	.00	.10	.00	248.69	23.10
32294.000	4088.00	597.93	1.81	.10	.00	365.56	23.10
32294.000	4669.00	598.60	.67	.10	.00	408.80	23.10
32294.000	6357.00	600.35	1.73	.09	.00	518.32	23.10
33082.000	2706.00	601.00	.60	4.88	.00	307.47	787.40
33082.000	4088.00	602.50	1.50	4.57	.00	372.05	787.40
33082.000	4669.00	603.06	.56	4.46	.00	396.10	787.40
33082.000	6357.00	604.53	1.47	4.20	.00	459.57	787.40
* 33830.000	2706.00	604.22	.00	3.22	.00	595.91	748.00
* 33830.000	4088.00	605.88	1.65	3.37	.00	658.95	748.00
* 33830.000	4669.00	606.48	.60	3.42	.00	671.92	748.00
* 33830.000	6357.00	608.03	1.56	3.51	.00	705.53	748.00
* 34353.000	2706.00	604.63	.00	.60	.00	596.84	523.30
* 34353.000	4088.00	606.54	1.72	.67	.00	652.12	523.30
* 34353.000	4669.00	607.17	.62	.69	.00	672.17	523.30
* 34353.000	6357.00	608.78	1.61	.74	.00	723.74	523.30
34673.000	2706.00	605.04	.00	.22	.00	587.40	320.00
34673.000	4088.00	606.79	1.75	.25	.00	643.73	320.00
34673.000	4669.00	607.43	.63	.26	.00	664.16	320.00
34673.000	6357.00	609.07	1.64	.29	.00	716.97	320.00
34733.000	2706.00	608.05	.00	3.01	.00	658.90	60.40
34733.000	4088.00	609.10	1.05	2.31	.00	692.60	60.40
34733.000	4669.00	609.36	.25	1.93	.00	701.01	60.40
34733.000	6357.00	610.00	.64	.94	.00	721.69	60.40
* 34814.000	2706.00	608.09	.00	.03	.00	680.96	81.00
* 34814.000	4088.00	609.15	1.06	.05	.00	715.10	81.00
* 34814.000	4669.00	609.42	.27	.05	.00	723.77	81.00
* 34814.000	6357.00	610.09	.67	.08	.00	750.04	81.00
* 35794.000	1920.00	608.35	.00	.26	.00	458.87	979.30
* 35794.000	3023.00	609.57	1.22	.42	.00	481.21	979.30
* 35794.000	4150.00	609.92	.35	.51	.00	487.58	979.30
* 35794.000	4720.00	610.84	.92	.76	.00	506.03	979.30
* 36401.000	1920.00	608.67	.00	.32	.00	471.56	607.00
* 36401.000	3023.00	610.05	1.38	.48	.00	482.89	607.00
* 36401.000	4150.00	610.47	.42	.55	.00	489.81	607.00
* 36401.000	4720.00	611.57	1.10	.72	.00	528.02	607.00

SECNO	Q	CMSEL	DIRVSP	DIRVSW	JIFRJS	TOPWID	XLCH
* 38964.000	1920.00	609.54	.00	.87	.00	266.71	563.00
* 38964.000	3020.00	611.05	1.51	1.00	.00	318.23	563.00
* 38964.000	3450.00	611.52	.47	1.05	.00	239.50	563.00
* 38964.000	4720.00	612.74	1.22	1.17	.00	358.78	563.00
37676.000	1920.00	611.80	.00	2.26	.00	196.54	712.00
37676.000	3020.00	612.53	1.73	2.48	.00	225.82	712.00
37676.000	3450.00	614.09	.56	2.57	.00	235.44	712.00
37676.000	4720.00	615.54	1.45	2.80	.00	257.67	712.00
37915.000	1920.00	612.72	.60	.93	.00	237.77	239.00
37915.000	3020.00	614.56	1.83	1.03	.09	276.54	239.00
37915.000	3450.00	615.16	.60	1.07	.00	288.12	239.00
37915.000	4720.00	616.72	1.56	1.18	.00	308.67	239.00

## SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO=	4430.500	PROFILE=	4	HYDRAULIC JUMP D.S.
CAUTION SECNO=	13964.000	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	13964.000	PROFILE=	1	MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	13964.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	13964.000	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=	13964.000	PROFILE=	3	WSEL ASSUMED BASED ON MIN DIFF
CAUTION SECNO=	13964.000	PROFILE=	3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=	13964.000	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	13964.000	PROFILE=	4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	13964.000	PROFILE=	4	20 TRIALS ATTEMPTED TO BALANCE WSEL

Floodway Output

# Back Creek HEC-2 Output Floodway

Study Contractor : Hayes, Seay, Mattern & Mattern  
Contract Number : EMW-90-C-3101  
HSMM Number : 2373

\*\*\*\*\*  
\* HEC-2 WATER SURFACE PROFILES  
\*\*\*\*\*

\* Version 4.6.2; May 1991  
\*\*\*\*\*

\* RUN DATE 17OCT91 TIME 09:39:57  
\*\*\*\*\*

\*\*\*\*\*  
\* U.S. ARMY CORPS OF ENGINEERS  
\* HYDROLOGIC ENGINEERING CENTER  
\* 609 SECOND STREET, SUITE D  
\* DAVIS, CALIFORNIA 95616-4687  
\* (916) 756-1104  
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HAYES, SEAY, MATTERN & MATTEK, INC.  
ROANOKE, VIRGINIA - GREENSBORO, NORTH CAROLINA  
COMMISSION NUMBER: 2373  
INPUT FILE NAME: BC\_FV.HEC  
OUTPUT FILE NAME: BC\_FV.OUT



THIS RUN EXECUTED 17OCT91 09:39:57

\*\*\*\*\*  
 HEC-2 WATER SURFACE PROFILES  
 Version 4.6.2: May 1991  
 \*\*\*\*\*

T1 Hayes, Seay, Hattern & Hattern Cabarrus County, NC FIS  
 T2 Proj. No. EMW-90-C-3101 Eng: LJM/EKL ET:TFH Comm. No. 2373  
 T3 Back Creek (BC.IN) Date: 10/17/91 100-Year Event

J1 ICHECK INQ P:NV IDIR STRT METRIC HVINS Q WSEL FQ  
 4.0 0.00231 530.0  
 J2 HPROF IPLOT PREVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE  
 1 -1.0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

-10 200:

J5 LPRNT RUNSEC \*\*\*\*\*REQUESTED SECTION NUMBERS\*\*\*\*\*

-10.

NC	0.10	0.18	0.05	0.1	0.3					
NH	7.	1.	4467.	0.32	4648.	0.18	4915.	0.058	5055.	0.14
NH	5162.	0.12	5428.	1.	5603.	0.	0.	0.	0.	0.
QT	8.	4457.	6525.	7547.	10210.	7547.	2280.	3510.	5628.	
ET	0.00	0.00	0.00	0.00	0.00	7.11	4840.00	5096.00	0.00	0.06

\*\*\*\*\*  
 HEC-2 Input file created with Codeh2  
 Version: 3.79  
 Codeh2 Copyrighted 1986 - 1991  
 Run Date: Thursday, October 17, 1991  
 Run Time: 09:39:40  
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\*\*\*\*\*  
 The Following Options Have Been Activated :  
 1. FLOODWAY Option.  
 2. HEC1 Option.  
 3. SUMMARY\_150 Option.  
 4. HSMN\_XSECTS Option.  
 \*\*\*\*\*



Cross Section BACK 100  
Cross Section A (HSMW Draft)

X1	210.	24.	4915.	5055.	210.	210.	210.	0.	4394.
GR	555.	4097.	550.	4179.	545.	4262.	540.	535.	4976.
GR	530.	4450.	529.82	4467.	527.87	4648.	525.	520.	5014.
GR	517.63	4985.	517.53	4993.	515.9	5000.	514.73	520.	5443.
GR	525.	5055.	526.66	5162.	530.	5378.	533.85	535.	0.
GR	540.	5472.	545.	5513.	550.	5552.	555.	0.	0.14
NH	7.	1.	4790.	0.32	4881.	0.18	4947.	5035.	0.
NH	5340.	0.32	5644.	1.	5947.	0.	0.	0.	0.00
ET	0.00	0.00	0.00	0.00	0.00	10.41	0.00	0.00	0.00

Cross Section BACK 101  
Cross Section B (HSMW Draft)

X1	1145.	25.	4947.	5035.	935.	935.	935.	0.	4790.
GR	555.	4593.	550.	4646.	545.	4699.	540.	539.	4976.
GR	535.	4838.	532.94	4881.	530.	4891.	525.	520.	5018.
GR	519.79	4985.	519.69	4993.	518.06	5000.	516.89	520.	5567.
GR	525.	5035.	527.75	5340.	530.	5589.	533.53	535.	5947.
GR	540.	5751.	545.	5774.	550.	5792.	555.	560.	0.15
NH	7.	1.	4786.	0.32	4914.	0.18	4969.	5032.	0.
NH	5323.	0.32	5532.	1.	5691.	0.	0.	0.	0.00

Cross Section BACK 102  
Cross Section C (HSMW Draft)

X1	1910.	23.	4969.	5032.	765.	765.	765.	0.	4756.
GR	560.	4494.	555.	4583.	550.	4638.	545.	540.	4969.
GR	537.79	4786.	535.	4824.	530.67	4914.	520.	525.	5005.
GR	520.	4984.9	521.56	4985.	521.46	4993.	519.83	518.66	5536.
GR	520.	5015.	525.	5032.	527.69	5323.	529.96	530.	0.
GR	540.	5584.	550.	5632.	560.	5691.	0.	0.	0.15
NH	7.	1.	4483.	0.32	4787.	0.18	4979.	5026.	0.
NH	5180.	0.32	5267.	1.	5563.	0.	0.	0.	0.00
ET	0.00	0.00	0.00	0.00	0.00	9.41	0.00	0.00	0.00

Cross Section BACK 103  
Cross Section D (HSMW Draft)

X1	2304.	22.	4979.	5028.	994.	994.	994.	0.	4609.
GR	550.	4271.	545.	4350.	540.	4460.	539.23	535.	4993.
GR	530.59	4787.	530.	4802.	525.	4979.	524.18	524.08	5180.
GR	526.45	5009.	521.28	5005.	525.	5018.	525.	528.92	550.
GR	530.	5222.	531.48	5267.	535.	5374.	545.	550.	5470.
GR	555.	5513.	560.	5563.	0.	0.	0.	0.	0.

NH	7.	1.	4587.	0.32	4788.	0.16	4958.	0.063	5033.	0.15
NH	5100.	0.32	5141.	1.	5222.	0.	0.	0.	0.	0.
Cross Section BACK 104										
Cross Section E (HSMW Draft)										
XI	3673.	20.	4958.	5033.	769.	769.	769.	4428.	0.	4587.
GR	580.	3843.	555.	4053.	350.	4167.	545.	4958.	541.63	4983.
GR	540.	4864.	535.	4733.	530.	4788.	530.	5033.	525.	5100.
GR	524.08	5000.	523.65	5008.	526.25	5010.	530.	5175.	560.	5222.
GR	540.	5125.	543.2	5141.	545.	5150.	550.	0.	0.	0.
NH	7.	1.	4565.	0.32	4788.	0.19	4935.5	0.063	5060.5	0.15
NH	5085.4	0.32	5160.	1.	5321.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4675.00	5050.00	0.00	0.00
X1	4168.5	54.	4935.5	5060.5	495.5	495.5	495.5	4254.	0.	4401.
GR	529.26	4144.	554.26	4224.	550.43	4247.	549.26	4565.	544.94	4582.
GR	544.26	4424.	539.26	4488.	537.45	4522.	535.16	4910.5	534.26	4935.4
GR	534.09	4619.	533.34	4788.	532.79	4910.4	532.79	4984.99	526.81	4985.1
GR	532.69	4935.5	531.59	4960.4	531.59	4960.5	526.83	4984.99	525.89	5005.44
GR	526.79	4985.2	525.75	4985.31	526.71	4985.41	526.67	4985.5	525.45	5025.2
GR	525.19	4995.5	525.39	5004.5	525.44	5005.24	525.44	5005.35	530.59	5060.4
GR	525.46	5025.56	525.89	5012.5	530.51	5024.99	530.55	5025.09	534.58	5110.5
GR	530.6	5025.3	530.61	5025.41	530.62	5025.5	530.91	5029.	537.29	5224.
GR	534.59	5060.5	536.88	5085.4	536.89	5085.5	537.29	5110.4	549.26	0.
GR	538.49	5135.4	538.49	5135.5	541.47	5160.	541.96	5164.	0.	0.
GR	549.83	5232.	552.83	5274.	554.26	5294.	554.26	5321.	0.	0.
NC	7.	1.	4565.	0.3	4788.	0.19	4965.5	0.063	5025.5	0.15
NH	5085.4	0.32	5160.	1.	5321.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4675.00	5050.00	0.00	0.00
X1	4408.5	54.	4885.5	5025.5	240.	240.	240.	533.91	535.	4401.
X3	10.	4144.	555.	4224.	551.17	4247.	550.	4254.	543.68	4582.
GR	560.	4424.	540.	4488.	538.19	4522.	535.9	4565.	535.	4935.4
GR	545.	4819.	534.08	4788.	533.53	4910.4	533.53	4910.5	533.43	4985.1
GR	534.83	4935.5	532.33	4960.4	532.33	4960.5	527.57	4984.99	526.63	4987.5
GR	533.43	4985.2	527.49	4985.31	527.45	4985.41	527.41	4985.5	526.18	5005.44
GR	527.53	4995.5	526.13	5034.5	526.18	5005.24	526.18	5005.35	531.33	5025.2
GR	525.93	4995.5	526.63	5012.5	531.25	5024.99	531.29	5025.09	535.32	5060.4
GR	526.2	5095.56	526.63	5025.41	531.36	5025.5	531.35	5028.	550.	5110.5
GR	531.34	5025.3	531.35	5025.41	531.35	5085.5	538.03	5110.4	550.	5224.
GR	535.33	5060.5	537.62	5085.4	537.63	5085.5	538.03	5164.	0.	0.
GR	539.23	5135.4	539.23	5135.5	542.21	5150.	542.7	5321.	0.	0.
GR	550.57	5232.	553.57	5274.	555.	5294.	555.	0.	0.	0.
SD	1.25	2.06	2.60	0.00	28.00	0.09	252.90	0.21	525.93	525.93
NH	7.	1.	4565.	0.32	4788.	0.19	4985.5	0.063	5025.5	0.15
NH	5085.4	0.32	5160.	1.	5321.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4675.00	5050.00	0.00	0.00



MC	5	1.	4657.	0.1	0.3	0.16	4984.	0.063	5033.	0.18
NH	5192.	0.	0.	0.	4360.	0.	0.	0.	0.	0.
NH	0.00	0.00	0.00	0.00	0.00	7.11	4440.00	5079.00	0.00	0.00
ET										

Cross Section BACK 104.8

Cross Section F (HSMH Draft)

X1	5343.	17.	4984.	5033.	851.5	851.5	851.5	0.	0.	0.
GR	550.	4041.	545.	4306.	540.	4371.	535.	4484.	533.27	4657.
GR	531.24	4660.	530.	4284.	527.15	4987.	525.15	4989.	526.03	5000.
GR	527.15	5014.	503.	5033.	535.	5122.	540.	5154.	545.	5161.
GR	550.	5177.	555.	5192.	0.	0.	0.	0.	0.	0.
NH	7.	1.	4557.	0.32	4860.	0.16	4985.	0.063	5022.	0.18
NH	5477.	0.32	5641.	1.	5861.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	10.41	0.00	0.00	0.00	0.00

Cross Section BACK 105

Cross Section G (HSMH Draft)

X1	5873.	21.	4988.	5022.	530.	530.	530.	0.	0.	0.
GR	560.	4273.	555.	4363.	550.	4388.	545.	4512.	540.	4606.
GR	539.24	4657.	536.23	4860.	535.	4943.	530.	4988.	527.32	4989.
GR	528.2	5000.	529.32	5014.	530.	5022.	533.73	5477.	535.	5632.
GR	535.8	5641.	540.	5688.	545.	5742.	550.	5798.	555.	5839.
GR	560.	5861.	0.	0.	0.	0.	0.	0.	0.	0.
NH	7.	1.	4827.	0.32	4886.	0.16	4982.	0.063	5024.	0.18
NH	5399.	0.32	5705.	1.	5943.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4960.00	5520.00	0.00	0.00

Cross Section BACK 106

Cross Section H (HSMH Draft)

X1	6685.	19.	4982.	5024.	812.	812.	812.	0.	0.	0.
GR	560.	4469.	555.	4674.	550.	4737.	545.	4789.	542.04	4827.
GR	540.	4886.	535.	4982.	532.41	4987.	530.41	4989.	531.29	5000.
GR	532.41	5014.	535.	5024.	537.77	5399.	540.	5701.	540.29	5705.
GR	545.	5770.	550.	5801.	555.	5839.	565.	5943.	3.	0.
NH	7.	1.	4827.	0.32	4886.	0.16	4973.	0.063	5008.5	0.18
NH	5399.	0.32	5705.	1.	5949.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4937.00	5320.00	0.00	0.00

Cross Section BACK 107

Cross Section I (HSMH Draft)

X1	7435.	22.	4973.	5008.5	750.	750.	750.	0.	0.	0.
GR	555.	4734.	550.	4799.	545.	4824.	544.32	4827.	540.	4845.
GR	539.43	4886.	535.	4973.	533.37	4992.5	532.37	4989.5	533.12	5000.
GR	533.37	5001.5	535.17	5008.5	535.	5014.	540.	5399.	540.	5614.
GR	545.45	5705.	545.	5746.	550.	5785.	555.	5826.	570.	5886.

GR	575.	5897.	585.	5949.	0.	0.	0.	0.	0.	0.	0.	0.
NH	7.	1.	4206.	0.32	4470.	0.16	4963.	0.063	5060.	0.18	0.18	0.18
NH	5087.	0.32	5609.	1.	6037.	0.	0.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4575.00	5060.00	0.00	0.00	0.00	0.00

Cross Section BACK 108

Cross Section J (HSMW Draft)

X1	8364.	25.	4963.	5060.	929.	929.	929.	0.	0.	0.	0.	0.
GR	575.	3787.	570.	3872.	565.	3921.	560.	3949.	555.	4009.	4009.	4009.
GR	550.	4063.	545.	4132.	544.55	4206.	542.97	4470.	540.	4963.	4963.	4963.
GR	535.	4985.	535.79	4992.5	534.79	4995.5	535.54	5000.	535.79	5001.5	5001.5	5001.5
GR	537.59	5008.5	535.	5022.	545.	5060.	550.	5087.	554.53	5509.	5509.	5509.
GR	555.	5663.	560.	5795.	565.	5916.	570.	5958.	575.	6037.	6037.	6037.
NH	7.	1.	4535.	0.32	4821.	0.16	4973.	0.063	5019.	0.18	0.18	0.18
NH	5253.	0.32	5401.	1.	5775.	0.	0.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4875.00	5260.00	0.00	0.00	0.00	0.00

Cross Section BACK 109

Cross Section K (HSMW Draft)

X1	9234.	23.	4973.	5019.	870.	870.	870.	0.	0.	0.	0.	0.
GR	575.	4197.	570.	4245.	565.	4278.	560.	4338.	555.	4401.	4401.	4401.
GR	550.	4429.	545.	4477.	544.42	4535.	541.53	4921.	540.	4973.	4973.	4973.
GR	538.98	4581.	535.98	4996.	536.65	5000.	538.98	5014.	540.	5019.	5019.	5019.
GR	544.08	5253.	545.	5306.	550.	5342.	555.	5399.	555.24	5401.	5401.	5401.
GR	560.	5440.	565.	5540.	570.	5775.	0.	0.	0.	0.	0.	0.
NH	7.	1.	4550.	0.32	4745.	0.16	4978.	0.063	5014.	0.18	0.18	0.18
NH	5095.	0.32	5159.	1.	5232.	0.	0.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4759.00	5080.00	0.00	0.00	0.00	0.00

Cross Section BACK 110

Cross Section L (HSMW Draft)

X1	9987.	19.	4978.	5014.	753.	753.	753.	0.	0.	0.	0.	0.
GR	565.	4341.	560.	4458.	555.	4531.	550.	4581.	547.03	4650.	4650.	4650.
GR	545.	4637.	544.15	4745.	540.	4978.	539.91	4981.	536.91	4996.	4996.	4996.
GR	537.59	5000.	539.91	5014.	540.	5035.	545.	5053.	550.	5095.	5095.	5095.
GR	554.7	5158.	555.	5162.	560.	5197.	555.	5232.	0.	0.	0.	0.
NH	7.	1.	4596.	0.32	4755.	0.16	4979.	0.063	5018.	0.18	0.18	0.18
NH	5100.	0.32	5288.	1.	5903.	0.	0.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	10.41	0.00	0.00	0.00	0.00	0.00	0.00

Cross Section BACK 111

Cross Section M (HSMW Draft)

X1	10922.	20.	4979.	5018.	935.	935.	0.	4596.
GR	575.	4158.	565.	4361.	560.	555.	553.49	4596.
GR	550.	4661.	545.	4750.	544.89	540.	538.07	4996.
GR	538.42	5000.	540.	5018.	545.	5079.	550.	5222.
GR	555.	5262.	555.53	5288.	560.	565.	575.	5903.
NH	7.	1.	4611.	0.32	4835.	4991.	5021.	0.17
NH	5213.	0.32	5327.	1.	5606.	0.	0.	0.

Cross Section BACK 112  
Cross Section N (HSMW Draft)

X1	13158.	21.	4991.	5021.	2236.	2236.	0.	4611.
GR	570.	3573.	565.	4024.	4392.	555.	554.09	5000.
GR	540.83	4831.	549.83	4835.	4949.	544.03	541.81	5213.
GR	555.	5301.	544.03	5018.	5021.	550.	552.88	5549.
GR	575.	5606.	556.11	5327.	565.	567.	570.	0.
NH	7.	1.	4941.	0.24	4956.	4985.	5017.5	0.16
NH	5065.	0.23	5098.	1.	7038.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	4925.00	0.00	0.00
X1	13984.	51.	4985.	5017.5	806.	806.	0.	0.
GR	574.7	3504.	569.7	3761.	569.68	564.7	564.42	4057.
GR	559.7	4465.	558.79	4519.	554.7	554.14	549.7	4904.
GR	550.03	4934.99	550.03	4935.	550.02	549.99	549.93	4984.98
GR	549.93	4984.99	549.88	4985.	549.82	544.44	544.38	4986.
GR	544.33	4986.01	544.31	4986.1	543.53	543.03	543.43	4997.
GR	543.43	4999.99	543.43	5002.	541.83	543.43	544.81	5015.91
GR	544.83	5015.99	544.83	5016.	544.85	545.07	548.41	5017.48
GR	548.43	5017.49	548.43	5017.5	548.43	550.83	550.83	5069.
GR	551.12	5098.	553.65	5350.	554.7	554.7	554.7	6082.
GR	559.7	6335.	564.7	6632.	569.7	569.7	569.7	7037.
GR	569.7	7038.	0.	0.	0.	0.	0.	0.

NC	7.	1.	4941.	0.3	0.5	4985.	5017.5	0.16
NH	5065.	0.23	5098.	1.	7038.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	4925.00	0.00	0.00
X1	14204.	51.	4985.	5017.5	240.	240.	0.	0.
X3	10.	3504.	570.	3761.	559.98	565.	551.43	4057.
GR	575.	4465.	559.09	4519.	555.	554.44	584.72	4904.
GR	560.	4934.99	550.33	4935.	550.32	550.29	550.23	4984.98
GR	550.33	4984.99	550.18	4985.	550.12	544.74	544.68	4985.
GR	544.63	4986.01	544.61	4986.1	543.83	543.33	543.73	4997.
GR	543.73	4999.99	543.73	5002.	542.13	5010.5	545.11	5015.91
GR	545.13	5015.99	545.13	5016.	545.15	545.37	548.71	5017.48
GR	548.73	5017.49	548.73	5017.5	548.73	5016.1	548.71	5069.
GR	551.12	5098.	553.95	5350.	555.	551.13	551.13	5082.
GR	560.	6335.	565.	6632.	570.	5574.	570.	7037.
GR	570.	7038.	0.	0.	0.	0.	0.	0.

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NH	7.	4941.	0.24	4956.	0.18	4986.	0.047	5016.1	0.16
NH	5065.	5098.	1.	7038.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	7.11	4925.00	5075.00	0.00	0.00
X1	14225.	4986.	5016.1	1.	1.	1.	0.	0.	0.00
X3	10.								
BT	-51.	3504.	575.	3761.	570.02	570.	551.43	551.53	569.98
BT		4033.	565.41	4057.	565.	564.72	4465.	570.	560.
BT		4519.	559.09	4762.	555.31	555.	4778.	560.58	554.44
BT		4904.	550.	4934.99	555.31	550.33	4935.	551.43	550.33
BT		4941.	550.32	4956.	551.47	550.29	4984.98	551.53	550.23
BT		4984.99	551.53	4985.	554.43	550.18	4985.01	554.43	550.12
BT		4985.99	554.43	4986.	554.43	549.53	4986.01	554.43	549.53
BT		4986.1	554.43	4989.	554.43	549.53	4993.	554.43	549.53
BT		4997.	554.43	4999.99	554.43	549.53	5002.	554.43	549.53
BT		5005.	554.43	5010.5	554.43	549.53	5015.91	554.43	549.53
BT		5015.99	554.43	5016.	554.43	547.34	5016.01	554.43	545.15
BT		5016.1	554.43	5017.48	554.43	548.71	5017.49	554.43	548.73
BT		5017.5	554.43	5017.51	551.53	542.73	5068.99	551.53	551.13
BT		5069.	551.13	5098.	551.89	551.42	5350.	555.	553.95
BT		5455.	555.39	5574.	555.84	555.	6082.	557.74	555.
BT		6335.	560.02	6632.	565.02	565.	6633.	570.02	570.
BT		6687.	570.02	7037.	570.02	570.	7038.	570.02	570.
GR	575.	3504.	570.	3761.	3762.	565.	4033.	564.72	4057.
GR	560.	4465.	559.09	4619.	4762.	554.44	4778.	550.	4904.
GR	550.33	4934.99	550.33	4935.	4941.	550.29	4956.	550.23	4984.98
GR	550.23	4964.99	550.18	4985.	4985.01	549.53	4985.99	549.08	4998.
GR	548.64	4986.01	544.73	4989.	4989.	543.33	4993.	543.73	4997.
GR	543.73	4999.99	543.73	5005.	5005.	543.73	5010.5	545.11	5015.91
CR	549.53	5015.99	545.13	5016.	5016.01	545.37	5016.1	548.71	5017.48
CR	548.73	5017.49	548.73	5017.5	5017.51	551.13	5068.99	551.13	5069.
GR	551.42	5098.	553.95	555.	5455.	555.	5574.	555.	6082.
GR	560.	6335.	565.	570.	6633.	570.	6687.	570.	7037.
GR	570.		0.	0.	0.	0.	0.	0.	0.
NH	7.	4941.	0.24	4956.	0.18	4986.	0.047	5016.1	0.16
NH	5065.	5098.	1.	7038.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	7.11	4925.00	5075.00	0.00	0.00

Stalling Road (SR 1161)

X1	14225.	4936.	5016.1	20.	20.	20.	551.43	551.53	569.98
X3	10.								
BT	-51.	3504.	575.	3761.	570.02	570.	3762.	570.	560.
BT		4033.	565.41	4057.	565.	564.72	4465.	560.58	554.44
BT		4519.	559.09	4762.	555.31	555.	4778.	555.	550.33
BT		4904.	550.	4934.99	551.43	550.33	4935.	551.43	550.23
BT		4941.	550.32	4956.	551.47	550.29	4984.98	551.53	550.12
BT		4984.99	551.53	4985.	554.43	550.18	4985.01	554.43	549.53
BT		4985.99	554.43	4986.	554.43	549.53	4986.01	554.43	543.53
BT		4986.1	554.43	4989.	554.43	549.53	4993.	554.43	549.53
BT		4997.	554.43	4999.99	554.43	549.53	5002.	554.43	549.53
BT		5005.	554.43	5010.5	554.43	549.53	5015.91	554.43	545.15
BT		5015.99	554.43	5016.	554.43	547.34	5016.01	554.43	548.73
BT		5016.1	554.43	5017.48	551.53	542.73	5068.99	551.53	551.13
BT		5017.5	551.13	5098.	551.89	551.42	5350.	555.	553.95
BT		5455.	555.39	5574.	555.84	555.	6082.	557.74	555.
BT		6335.	560.02	6632.	565.02	565.	6633.	570.02	570.
BT		6687.	570.02	7037.	570.02	570.	7038.	570.02	570.
GR	575.	3504.	570.	3761.	3762.	565.	4033.	564.72	4057.
GR	560.	4465.	559.09	4619.	4762.	554.44	4778.	550.	4904.
GR	550.33	4934.99	550.33	4935.	4941.	550.29	4956.	550.23	4984.98
GR	550.23	4964.99	550.18	4985.	4985.01	549.53	4985.99	549.08	4998.
GR	548.64	4986.01	544.73	4989.	4989.	543.33	4993.	543.73	4997.
GR	543.73	4999.99	543.73	5005.	5005.	543.73	5010.5	545.11	5015.91
CR	549.53	5015.99	545.13	5016.	5016.01	545.37	5016.1	548.71	5017.48
CR	548.73	5017.49	548.73	5017.5	5017.51	551.13	5068.99	551.13	5069.
GR	551.42	5098.	553.95	555.	5455.	555.	5574.	555.	6082.
GR	560.	6335.	565.	570.	6633.	570.	6687.	570.	7037.
GR	570.		0.	0.	0.	0.	0.	0.	0.





MC	2.	0.1	0.3	0.16	4983.	0.057	5025.	0.16
NH		0.21	4926.	0.	0.	0.	0.	0.
MH	1.	0.22	5082.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	10.41	0.00	0.00	0.00	0.00

## Cross Section 112.7

## Cross Section O (HSMH Draft)

X1	14990.	19.	4563.	5025.	704.	704.	0.	4835.
GR	570.	3969.	565.	4425.	560.	555.	553.98	5000.
GR	552.07	4906.	550.	4983.	547.11	544.46	544.43	5082.
GR	547.09	5016.5	550.34	5025.	550.24	5044.	550.82	0.
GR	555.	5324.	560.	5492.	570.	5773.	0.	0.

NH	7.	1.	4235.	0.21	4906.	4985.5	5012.	0.16
MH	5044.	0.22	5082.	1.	5908.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	4560.00	0.00	0.00

## Cross Section 112.6

## Cross Section P (HSMH Draft)

X1	15740.	17.	4985.5	5012.	750.	750.	0.	4835.
GR	570.	3649.	565.	3783.	560.	555.	555.45	5000.
GR	555.62	4906.	555.82	4985.5	549.36	546.68	546.75	5595.
GR	555.	5012.	555.32	5044.	560.	5516.	560.	0.
GR	565.	5780.	570.	5908.	0.	0.	0.	0.

NH	7.	1.	4635.	0.21	4906.	4985.5	5032.	0.16
MH	5044.	0.22	5082.	1.	5810.	0.	0.	0.
OT	8.	2917.	4392.	5020.	6383.	1467.	3702.	0.00
ET	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## Cross Section A

## Cross Section Q (HSMH Draft)

X1	16542.	19.	4985.5	5032.	802.	802.	0.	4835.
GR	575.	3602.	570.	3689.	565.	560.	559.01	5000.
GR	558.78	4906.	558.55	4975.5	551.77	4990.	549.09	5002.
GR	551.75	5016.5	555.	5025.	559.07	5044.	559.18	0.
GR	560.	5360.	565.	5675.	575.	5810.	0.	0.

NH	7.	1.	4835.	0.21	4906.	4985.5	5005.	0.16
MH	5044.	0.22	5082.	1.	5887.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	4800.00	0.00	0.00

## Cross Section A-1

## Cross Section R (HSMH Draft)

X1	17492.	17.	4989.9	5005.	950.	950.	0.	4835.
GR	575.	4156.	570.	4215.	565.	560.	557.68	5000.
GR	558.13	4906.	555.	4989.9	551.71	4999.9	551.68	5334.
GR	555.	5005.	555.81	5044.	560.	5245.	565.	0.
GR	570.	5414.	575.	5587.	0.	0.	0.	0.

NH	7.	1.	4878.	0.21	4935.	0.15	4989.	0.056	5028.	0.17
NH	5050.	0.24	5077.	1.	5485.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	10.41	0.00	0.00	0.00	0.00

Cross Section B  
Cross Section S (HSMM Draft)

X1	18349.	23.	4989.	5028.	857.	857.	857.		0.	
GR	575.	4257.	570.	4503.	565.	4588.	550.96	4878.	560.17	4935.
GR	560.	4947.	560.	4954.	560.51	4989.	555.	4990.	554.32	4997.
GR	554.01	4999.9	554.02	5000.	554.32	5005.	555.32	5020.	560.6	5028.
GR	560.56	5038.	561.2	5050.	562.65	5077.	565.	5121.	570.	5151.
GR	575.	5198.	520.	5313.	585.	585.	0.	0.	0.	0.
NH	7.	1.	4881.	0.23	4930.	0.17	4974.5	0.056	5014.	0.18
NH	5052.	0.25	5109.	1.	5340.	0.	0.	0.	0.	0.

Cross Section C  
Cross Section T (HSMM Draft)

X1	20417.	19.	4974.5	5014.	2068.	2068.	2068.		0.	
GR	580.	4560.	575.	4654.	570.	4785.	565.	4843.	564.14	4881.
GR	563.02	4930.	562.17	4967.5	562.09	4974.5	555.87	4993.	555.08	4999.9
GR	555.09	5000.	555.83	5007.5	561.83	5014.	562.62	5052.	563.81	5109.
GR	565.	5166.	570.	5245.	575.	5283.	580.	5340.	0.	0.
NH	7.	1.	4876.	0.23	4920.	0.11	4974.	0.055	5008.5	0.11
NH	5064.	0.2	5090.	1.	5350.	0.	0.	0.	0.	0.

Cross Section D  
Cross Section U (HSMM Draft)

X1	22650.	21.	4974.	5008.5	2243.	2243.	2243.		0.	
GR	585.	4516.	580.	4561.	575.	4623.	570.	4677.	566.65	4876.
GR	565.91	4920.	565.	4974.	564.03	4983.	559.36	4990.	558.92	4994.
GR	558.24	4999.9	558.26	5000.	558.94	5004.	563.45	5008.5	565.	5017.
GR	570.	5046.	570.59	5064.	571.42	5090.	575.	5201.	580.	5265.
GR	585.	5350.	0.	0.	0.	0.	0.	0.	0.	0.
NH	7.	1.	4876.	0.23	4920.	0.11	4989.9	0.055	5014.	0.11
NH	5064.	0.2	5090.	1.	5589.	0.	0.	0.	0.	0.

Cross Section D-1A  
Cross Section V (HSMM Draft)

X1	23344.	22.	4989.9	5014.	684.	684.	684.		0.	
GR	595.	4230.	590.	4442.	585.	4572.	580.	4672.	575.	4822.
GR	573.39	4876.	572.08	4920.	570.	4989.9	569.8	4990.	561.64	4994.
GR	560.97	4999.9	560.96	5000.	561.66	5004.	566.17	5008.5	570.	5014.
GR	570.9	5064.	571.37	5090.	575.	5291.	580.	5396.	585.	5469.
GR	590.	5339.	595.	5589.	0.	0.	0.	0.	0.	0.

NH	7.	4863.	0.23	4944.	0.16	4972.8	0.059	5013.6	0.16
NH	5079.	5132.	1.	5645.	0.	0.	0.	0.	0.
ET	0.00	-0.00	0.00	0.00	7.11	4970.00	5100.00	0.00	0.00

Cross Section D-1  
Cross Section W (HSMH Draft)

X1	24024.	20.	4972.8	5013.6	680.	680.	0.059	5026.	0.16
GR	595.	4211.	590.	4598.	585.	580.	4883.	0.	4908.
GR	576.54	4944.	575.	4960.	569.46	564.79	4984.	564.35	4990.4
GR	563.67	5000.	564.37	5006.4	568.88	570.88	5079.	572.5	5132.
GR	575.	5214.	580.	5395.	585.	550.	5582.	595.	5645.
NH	7.	4692.	0.23	4925.	0.16	4978.	0.059	5026.	0.16
NH	5047.9	0.24	5072.	5718.	0.	0.	0.	0.	0.
QT	8.	2706.	4088.	6357.	4669.	1340.	2109.	3454.	0.
ET	0.00	0.00	0.00	0.00	7.11	4840.00	5050.00	0.00	0.00
X1	24703.	43.	4978.	679.7	679.7	679.7	0.	0.	0.
GR	589.31	3714.	589.31	3741.	584.31	584.31	4111.	584.31	4301.
GR	583.66	4325.	579.31	4486.	578.46	576.33	4892.	576.18	4912.3
GR	576.18	4913.	576.12	4925.	575.88	4978.	4982.59	571.18	4982.7
GR	571.07	4982.81	570.97	4982.91	570.88	570.78	4983.1	567.98	4986.5
GR	566.38	4993.	567.38	4999.9	566.88	5008.	5015.	574.48	5020.
GR	576.64	5025.79	576.68	5025.9	576.69	577.03	5028.29	577.04	5028.4
GR	577.06	5028.51	578.43	5038.	579.87	579.88	5048.	581.48	5062.9
GR	531.51	5063.	584.31	5063.	585.31	590.07	5166.	591.7	5326.
GR	594.15	5566.	594.31	5592.	599.31	0.	0.	0.	0.

NC	7.	4892.	0.3	0.5	0.16	4978.	0.059	5026.	0.16
NH	5047.9	0.24	5072.	5718.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	7.11	4840.00	5050.00	0.00	0.00
X1	24876.	43.	4978.	172.8	172.8	172.8	0.	0.	0.
X3	10.	3714.	590.	3741.	585.	579.3	577.9	579.3	4301.
GR	590.	4496.	580.	4496.	579.15	585.	4111.	585.	4912.9
GR	584.35	4325.	576.81	4925.	576.87	576.87	4892.	576.87	4982.7
GR	571.76	4982.81	571.66	4982.91	571.57	571.87	4982.59	571.87	4985.5
GR	567.07	4993.	568.07	4999.9	567.57	568.67	5015.	575.17	5020.
GR	577.33	5025.79	577.37	5025.9	577.38	577.72	5028.29	577.73	5028.4
GR	577.75	5028.51	579.12	5038.	580.56	580.57	5048.	582.17	5062.9
GR	582.2	5062.	585.	5062.	590.	590.76	5166.	592.39	5326.
GR	594.84	5566.	595.	600.	600.	0.	0.	0.	0.
SB	1.25	1.81	2.60	30.10	0.00	303.11	0.01	567.07	567.07
NH	7.	4892.	0.23	4925.	0.16	4983.	0.059	5026.	0.16
NH	5047.9	0.24	5072.	5718.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	7.11	4840.00	5050.00	0.00	0.00

Hickory Ridge Road (SR 1138)

X1	24898.	43.	4983.	5026.	22.	22.	22.	0.00	0.00	0.00	0.00
X2	0.00	0.00	1.00	577.12	578.77	0.00	0.00	0.00	0.00	0.00	0.00
X3	10.										
BT	-43.	3714.	590.02	590.	3741.	590.02	590.	578.77	578.77	579.77	585.
BT		4111.	586.75	535.	4301.	585.2	585.	3915.	3915.	588.36	584.35
BT		4486.	582.09	580.	4602.	580.	585.	4325.	4325.	585.	577.02
BT		4912.9	578.77	576.87	4913.	578.77	576.87	4892.	4892.	578.85	576.81
BT		4978.	578.86	576.57	4982.59	578.87	576.57	4925.	4925.	578.79	571.87
BT		4982.81	581.87	576.27	4982.91	581.87	576.27	4983.	4983.	581.87	576.27
BT		4993.1	581.87	576.27	4985.5	581.94	576.34	4993.	4993.	582.07	576.47
BT		4999.9	582.21	576.61	4985.5	582.37	576.77	5015.	5015.	582.51	576.91
BT		5023.	582.61	577.01	5023.79	582.72	577.12	5025.9	5025.9	582.72	577.37
BT		5026.	582.72	577.38	5028.29	582.77	577.72	5028.4	5028.4	582.77	577.73
BT		5028.51	579.77	577.75	5035.	580.	579.12	5047.9	5047.9	580.58	580.56
BT		5045.	580.59	580.57	5062.9	582.19	582.17	5063.	5063.	582.22	582.2
BT		5072.	585.02	585.	5091.	590.02	590.	5166.	5166.	590.78	590.76
BT		5326.	592.41	592.39	5566.	595.	595.	5582.	5582.	595.02	595.
BT		5719.	600.02	600.	0.	0.	0.	0.	0.	0.	0.
BT		5714.	590.	3741.	585.	3915.	585.	4111.	4111.	585.	4301.
BT		584.35	4325.	4486.	4983.	4983.	4983.	4982.	4982.	4912.9	4912.9
BT		576.87	4913.	4925.	576.81	4925.	4925.	4982.59	4982.59	4982.7	4982.7
BT		576.27	4902.81	4925.91	571.66	4983.	571.47	4983.1	4983.1	4986.5	4986.5
BT		567.07	4993.	4999.9	567.57	5008.	568.67	5015.	5015.	5020.	5020.
BT		577.12	5025.79	577.37	5025.9	5026.	577.72	5028.29	5028.29	5028.4	5028.4
BT		577.75	5028.51	579.12	5038.	5047.9	580.57	5048.	5048.	5062.9	5062.9
BT		582.2	5053.	565.	5072.	590.76	590.76	5166.	5166.	592.39	592.39
BT		594.84	5556.	595.	5582.	600.	5718.	0.	0.	0.	0.
GR	590.	3714.	590.	3741.	585.	3915.	585.	4111.	4111.	585.	4301.
GR	584.35	4325.	4486.	4983.	4983.	4983.	4983.	4982.	4982.	4912.9	4912.9
GR	576.87	4913.	4925.	576.81	4925.	4983.	571.47	4983.1	4983.1	4986.5	4986.5
GR	576.27	4902.81	4925.91	571.66	4983.	5008.	568.67	5015.	5015.	5020.	5020.
GR	567.07	4993.	4999.9	567.57	5008.	5026.	577.72	5028.29	5028.29	5028.4	5028.4
GR	577.12	5025.79	577.37	5025.9	5038.	5047.9	580.57	5048.	5048.	5062.9	5062.9
GR	577.75	5028.51	579.12	5038.	5072.	590.76	590.76	5166.	5166.	592.39	592.39
GR	582.2	5053.	565.	5072.	590.76	590.76	590.76	5166.	5166.	592.39	592.39
GR	594.84	5556.	595.	5582.	600.	5718.	0.	0.	0.	0.	0.
NH	7.	1.	4892.	0.23	4925.	0.16	4978.	0.059	0.059	5026.	0.16
NH	5047.9	0.24	5072.	1.	5718.	0.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4840.00	5050.00	5050.00	0.00	0.00
X1	24942.	43.	4978.	5026.	44.2	44.2	44.2	0.	0.	0.	0.
GR	590.11	3714.	590.11	3741.	585.11	3915.	585.11	4111.	4111.	585.11	4301.
GR	584.46	4325.	4486.	4978.	4925.	4925.	4925.	4892.	4892.	4912.9	4912.9
GR	576.56	4913.	4925.91	576.81	4925.	4983.	571.47	4983.1	4983.1	4986.5	4986.5
GR	571.87	4982.81	4993.	4999.9	571.68	4993.	568.67	5015.	5015.	5020.	5020.
GR	577.18	4993.	4999.9	567.68	5008.	5008.	577.72	5028.29	5028.29	5028.4	5028.4
GR	577.44	5025.79	577.48	5025.9	577.49	5026.	577.83	5048.	5048.	5062.9	5062.9
GR	577.86	5028.51	579.23	5038.	580.67	5047.9	580.68	5166.	5166.	592.5	592.5
GR	582.31	5053.	585.11	5072.	590.11	5091.	590.87	0.	0.	0.	0.
GR	594.95	5566.	595.11	5582.	600.11	5718.	0.	0.	0.	0.	0.
NH	7.	1.	4854.	0.1	0.3	0.15	4928.5	0.058	0.058	5025.5	0.15
NH	5076.	0.23	5127.	1.	4923.	0.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	10.41	0.00	0.00	0.00	0.00	0.00



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X1	27056.	50.	4975.5	5035.5	20.	0.00	20.	0.00	0.00	0.00
X2	0.00	0.00	1.00	583.86	585.16	0.00	0.00	0.00	0.00	0.00
X3	10.									
BT	-50.	4411.	600.02	600.	4618.	600.02	586.32	585.16	585.16	600.
BT		4741.	595.02	595.	4749.	594.11	4685.	600.02	600.02	590.
BT		4832.	588.24	585.	4893.	586.94	4920.4	590.02	590.02	581.76
BT		4920.5	586.36	581.76	4930.	586.35	4975.09	586.36	586.36	579.68
BT		4975.2	589.17	579.66	4975.31	589.17	4675.41	589.17	589.17	583.82
BT		4975.5	589.18	583.82	4975.6	589.18	4985.5	589.18	589.18	583.53
BT		4990.39	589.18	583.83	4990.5	589.18	4991.	589.18	589.18	576.05
BT		4991.39	589.18	575.79	4991.51	589.18	4995.5	589.18	589.18	583.83
BT		4999.9	589.19	583.84	5003.5	589.19	5009.89	589.2	589.2	583.85
BT		5019.	589.2	574.35	5010.5	589.2	5010.89	589.2	589.2	574.45
BT		5011.01	589.2	583.85	5020.5	589.2	5030.09	589.21	589.21	574.45
BT		5030.19	589.21	583.86	5030.3	589.21	5030.4	586.36	586.36	583.86
BT		5030.51	586.36	578.01	5030.6	586.36	5074.	585.91	585.91	580.02
BT		5131.	585.33	577.91	5147.4	585.16	5147.5	585.16	585.16	577.03
BT		5201.	585.79	580.	5560.	590.	5583.	590.52	590.52	585.
BT		5677.	592.66	590.	5712.	595.02	5769.	600.02	600.02	600.
BT		5780.	600.02	600.	5861.	600.02	0	0.	0.	0.
GR	600.	4411.	600.	4518.	600.	4685.	4741.	594.09	594.09	4749.
GR	590.	4785.	585.	4832.	582.77	4693.	4920.4	581.76	581.76	4920.5
GR	591.4	4930.	579.68	4975.09	4975.2	4975.31	4975.31	579.67	579.67	4975.41
GR	579.63	4975.5	579.66	4975.6	577.76	4985.5	4990.39	576.21	576.21	4990.5
GR	576.66	4991.	575.79	4991.39	575.71	4991.51	4995.5	572.26	572.26	4999.9
GR	572.96	5003.5	574.33	5009.39	574.35	5010.	5010.5	574.45	574.45	5010.89
GR	574.45	5011.01	574.26	5020.5	576.29	5030.09	5030.19	576.34	576.34	5030.3
GR	576.36	5030.4	576.36	5030.51	576.35	5030.6	5074.	577.91	577.91	5131.
GR	578.16	5147.4	578.16	5147.5	580.	5201.	584.7	585.	585.	5583.
GR	590.	5577.	595.	5712.	600.	5769.	5780.	600.	600.	5861.
MH	7.	1.	4893.	0.23	4930.	0.15	4975.6	5030.6	5030.6	0.15
MH	5074.	0.23	5131.	1.	5861.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	7.11	4925.00	0.00	0.00	0.00
X1	27112.	50.	4975.6	5030.6	55.7	55.7	5125.00	0.	0.	0.00
GR	600.05	4411.	600.05	600.05	600.05	4685.	4741.	594.14	594.14	4749.
GR	550.05	4785.	585.05	4832.	582.62	4893.	4920.4	581.81	581.81	4920.5
GR	581.45	4930.	579.73	4975.09	579.73	4975.2	4975.31	579.72	579.72	4975.41
GR	575.71	4575.5	579.71	4975.6	577.81	4895.5	4990.39	576.26	576.26	4999.9
GR	576.11	4991.	575.84	4991.39	575.76	4991.51	4995.5	572.31	572.31	4999.9
GR	573.01	5003.5	574.38	5009.89	574.4	5010.	5010.5	574.5	574.5	5010.89
GR	574.5	5030.4	574.31	5020.5	576.34	5030.09	5030.19	576.39	576.39	5030.3
GR	576.41	5030.4	576.41	5030.51	576.41	5030.6	5074.	577.95	577.95	5131.
GR	578.21	5147.4	578.21	5147.5	580.05	5201.	584.75	585.05	585.05	5583.
GR	530.05	5677.	595.05	5712.	600.05	5765.	5780.	600.05	600.05	5861.
NC										
MH	7.	1.	4929.	0.1	4937.	0.13	4965.	5015.	5015.	0.14
MH	5061.	0.22	5102.	1.	5280.	0.	0.	0.	0.	0.
ET	0.00	0.00	6.00	0.00	0.00	10.41	0.00	0.00	0.00	0.00

Cross Section D-3  
Cross Section Y (HSMM Draft)

XI	27957.	18.	4965.	5015.	844.8	844.8	844.8		0.	
GR	600.	4165.	595.	4233.	590.	4335.	585.	4450.	580.55	4908.
GR	523.77	4937.	530.	4965.	573.67	4998.5	573.04	4999.9	573.	5000.
GR	573.68	5005.5	560.	5015.	582.56	5061.	584.83	5102.	585.	5105.
GR	590.	5155.	595.	5210.	600.	5280.	0.	0.	0.	0.
NH	7.	1.	4908.	0.21	4937.	0.13	4988.5	0.06	5025.5	0.14
NH	5061.	0.22	5102.	1.	5359.	0.	0.	0.	0.	0.

Cross Section F  
Cross Section Z (HSMM Draft)

XI	28765.	23.	4988.5	5025.5	808.	808.	808.		0.	
GR	600.	4188.	595.	4393.	590.	4556.	585.	4713.	582.76	4908.
GR	522.43	4937.	582.	4974.5	582.61	4988.5	574.33	4998.5	573.66	4999.9
GR	573.67	5000.	574.34	5005.5	581.86	5025.5	581.71	5035.5	582.37	5061.
GR	583.43	5102.	585.	5163.	590.	5192.	595.	5208.	600.	5237.
GR	605.	5272.	610.	5312.	615.	5359.	0.	0.	0.	0.
NH	7.	1.	4905.	0.21	4937.	0.13	4981.	0.06	5027.	0.14
NH	5061.	0.22	5102.	1.	5389.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	8.41	0.00	0.00	0.00	0.00

Cross Section F-1  
Cross Section AA (HSMM Draft)

XI	29577.	20.	4981.	5027.	912.	912.	912.		0.	
GR	605.	4374.	600.	4494.	595.	4600.	590.43	4908.	590.06	4937.
GR	590.	4941.	585.	4981.	583.35	4988.5	575.07	4998.5	574.44	4999.9
GR	574.4	5000.	575.08	5005.5	582.6	5025.5	585.	5027.	585.61	5061.
GR	586.35	5102.	590.	5304.	595.	5340.	600.	5377.	605.	5389.
NH	7.	1.	4943.	0.24	4965.	0.18	4990.	0.06	5034.	0.18
NH	5063.	0.25	5106.	1.	5612.	0.	0.	0.	0.	0.

Cross Section G  
Cross Section AB (HSMM Draft)

XI	30480.	23.	4990.	5034.	803.	803.	803.		0.	
GR	620.	4792.	515.	4839.	610.	4870.	605.	4897.	600.	4938.
GR	597.22	4943.	595.	4947.	589.18	4965.	585.13	4977.5	583.47	4990.
GR	578.01	4950.1	575.06	4999.9	575.08	5000.	577.97	5016.	583.32	5034.
GR	534.27	5044.	585.55	5062.	588.45	5106.	590.	5129.	595.	5379.
GR	600.	5460.	605.	5546.	610.	5612.	0.	0.	0.	0.

NH	7.	1.	4904.	0.22	4939.	0.13	4974.	0.059	5037.	0.13
NH	5090.	0.25	5141.	1.	5444.	0.	0.	0.	0.	0.

Cross Section 6-1  
Cross Section AC (HSPH Draft)

X1	31354.	26.	4974.	5037.	874.	874.	874.	0.	0.	0.
GR	625.	4262.	620.	4327.	615.	4378.	610.	4438.	605.	4492.
GR	500.	4570.	595.	4636.	591.04	4904.	590.52	4939.	590.	4974.
GR	588.02	4990.	582.56	4990.1	579.64	4999.9	579.61	5000.	582.52	5016.
GR	587.87	5034.	590.	5037.	595.	5075.	595.69	5090.	598.03	5141.
GR	600.	5184.	605.	5254.	610.	5297.	615.	5333.	620.	5405.
GR	625.	5444.	0.	0.	0.	0.	0.	0.	0.	0.
MK	7.	1.	4899.	0.22	4932.	0.13	4989.	0.059	5011.	0.13
NH	5054.	0.22	5110.	1.	5639.	0.	0.	0.	0.	0.
X1	32169.	35.	4989.	5011.	815.1	815.1	815.1	0.	0.	0.
GR	609.54	4647.	604.54	4694.	599.54	4758.	594.54	4892.	594.2	4899.
GR	593.63	4911.	592.62	4932.	591.85	4948.	590.85	4981.9	590.65	4988.7
GR	590.65	4988.8	590.47	4988.91	590.32	4989.	588.65	4990.	584.15	4993.
GR	593.85	4999.9	584.15	5006.	588.75	5010.	590.22	5010.69	590.45	5010.8
GR	590.45	5010.9	590.45	5011.	590.65	5029.	590.45	5054.	594.54	5081.9
GR	594.54	5082.	595.28	5110.	599.54	5271.	600.04	5287.	604.17	5420.
GR	604.54	5432.	608.44	5496.	609.54	5514.	614.1	5628.	614.54	5639.

NC	7.	1.	4893.	0.3	0.5	0.13	4989.	0.059	5011.	0.13
NH	5054.	0.22	5110.	1.	5639.	0.	0.	0.	0.	0.
X1	32257.	35.	4989.	5011.	88.4	88.4	88.4	0.	0.	0.
X3	10.									
GR	609.99	4647.	604.99	4694.	599.90	4758.	594.99	4892.	590.92	4899.
GR	594.08	4911.	593.07	4932.	592.3	4948.	591.3	4981.9	591.1	4988.7
GR	591.1	4988.8	590.92	4988.91	590.77	4989.	589.1	4990.	584.6	4993.
GR	584.3	4999.9	584.6	5006.	589.2	5010.	590.67	5010.69	590.9	5010.8
GR	590.9	5010.9	590.9	5011.	591.1	5029.	590.9	5054.	594.99	5081.9
GR	594.99	5082.	595.73	5110.	599.99	5271.	600.49	5287.	604.62	5420.
GR	604.99	5432.	608.89	5496.	609.99	5514.	614.55	5628.	614.99	5639.
S8	1.25	1.90	2.60	0.00	13.20	0.00	90.52	0.12	584.31	584.31
NH	7.	1.	4899.	0.22	4932.	0.13	4989.	0.059	5011.	0.13
NH	5054.	0.22	5110.	1.	5639.	0.	0.	0.	0.	0.

Farm Bridge

X1	32271.	35.	4989.	5011.	14.	14.	14.	0.00	0.	0.00
X2	0.00	0.60	1.00	590.78	590.91	0.00	0.00	0.00	0.00	0.00
X3	10.									
BT	-35.	4647.	610.02	610.	4694.	605.02	605.	4759.	600.02	600.
BT		4892.	595.02	595.	4899.	594.68	594.66	4911.	595.	594.09
BT		4932.	593.52	593.08	4948.	592.39	592.31	4981.9	591.33	591.31
BT		4988.7	591.13	591.11	4968.8	591.13	591.11	4988.91	591.11	589.91
BT		4939.	591.11	590.78	4990.	591.1	589.9	4993.	591.07	589.87
BT		4990.9	591.01	589.81	5006.	590.95	589.75	5010.	590.92	589.72



BT	5010.69	589.71	5010.8	590.93	590.91	5010.9	590.93	590.91	590.93	590.91
BT	5011.	590.91	5029.	591.95	591.11	5054.	591.11	591.11	590.93	590.91
BT	5081.9	595.02	5082.	595.02	595.	5110.	595.02	595.02	595.76	595.74
BT	5271.	600.02	5287.	600.52	600.5	5420.	600.5	600.5	604.63	610.
BT	5452.	605.79	5496.	610.	608.9	5514.	610.68	610.68	0.	0.
BT	5628.	615.	5639.	615.02	615.	0.	0.	0.	0.	0.
GR	610.	4654.	600.	4758.	595.	4892.	594.66	594.66	4899.	4899.
GR	594.09	4932.	592.31	4948.	591.31	4981.9	591.11	591.11	4988.7	4988.7
GR	591.11	4968.8	590.78	4989.	589.11	4990.	584.61	584.61	4993.	4993.
GR	584.31	5066.	589.21	5010.	589.71	5010.69	590.91	590.91	5010.8	5010.8
GR	590.91	5011.	591.11	5029.	590.91	5054.	595.	595.	5061.9	5061.9
GR	595.	5110.	600.	5271.	600.5	5287.	604.63	604.63	5420.	5420.
GR	605.	5496.	610.	5514.	614.56	5628.	615.	615.	5639.	5639.

NH	7.	4899.	0.22	4932.	4969.	0.059	5011.	5011.	0.13	0.13
NH	5054.	5110.	1.	5639.	0.	0.	0.	0.	0.	0.
X1	32294.	4989.	35.	23.1	23.1	0.	0.	0.	0.	0.
GR	610.22	4647.	605.22	4694.	595.22	4892.	594.88	594.88	4899.	4899.
GR	594.31	4911.	592.53	4948.	591.53	4981.9	591.33	591.33	4988.7	4988.7
GR	591.33	4988.8	591.	4989.	589.33	4990.	584.83	584.83	4993.	4993.
GR	584.53	4999.9	589.43	5010.	590.9	5010.69	591.13	591.13	5010.8	5010.8
GR	591.13	5010.9	591.13	5029.	591.13	5054.	595.22	595.22	5061.9	5061.9
GR	595.22	5082.	600.22	5271.	600.72	5287.	604.85	604.85	5420.	5420.
GR	605.22	5432.	610.22	5514.	614.78	5628.	615.22	615.22	5639.	5639.

NH	7.	4920.	0.22	4950.	4991.	0.061	5029.5	5029.5	0.13	0.13
NH	5057.	5097.	1.	5592.	0.	0.	0.	0.	0.	0.

Cross Section I  
Cross Section AD (HSMW Draft)

X1	33082.	29.	4991.	787.4	787.4	4795.	0.	0.	4828.	4828.
GR	640.	4581.	635.	630.	4750.	4920.	620.	620.	4936.	4936.
GR	515.	4858.	610.	4907.	602.76	4994.5	600.	600.	4999.9	4999.9
GR	599.49	4950.	598.35	4991.	592.77	5029.5	597.82	597.82	5034.5	5034.5
GR	592.07	5000.	592.87	5007.	598.37	5387.	610.	610.	5437.	5437.
GR	598.12	5057.	598.64	600.	605.	5592.	0.	0.	0.	0.
GR	615.	5472.	620.	625.	630.	0.061	5829.5	5829.5	0.14	0.14
NH	7.	1.	4913.	4946.	4991.	0.	0.	0.	0.	0.
NH	5064.	0.22.	5113.	5375.	0.	0.	0.	0.	0.	0.

Cross Section I-1  
Cross Section AE (HSMW Draft)

X1	33830.	21.	4991.	748.	748.	4539.	0.	0.	4628.	4628.
GR	625.	4373.	620.	4453.	610.	4991.	605.	605.	4994.5	4994.5
GR	600.	4858.	591.23	4913.	598.13	5064.	599.5	599.5	5113.	5113.
GR	592.78	5000.	593.58	5007.	599.25	5321.	620.	620.	5345.	5345.
GR	600.	5213.	605.	5268.	615.	0.	0.	0.	0.	0.
GR	625.	5375.	0.	0.	0.	0.	0.	0.	0.	0.

NH	6.	4916.	0.12	4924.	0.058	5018.	0.14	5087.	0.22
NH	X1	5512.	0.	0.	0.	0.	0.	0.	0.
GR	623.9	4924.	5018.	523.3	523.3	523.3	4239.	0.	4344.
GR	613.9	623.9	4076.	621.11	4167.	618.9	4638.	616.	4916.
GR	599.48	599.48	4514.	508.9	4559.	503.9	4949.	599.6	4961.
GR	594.08	594.01	4924.	597.58	4949.	596.68	4974.5	593.58	4975.
GR	593.58	4975.75	4977.	593.58	4978.25	593.58	593.58	593.58	4980.75
GR	593.58	4989.75	4991.	593.58	4986.	593.58	4987.25	593.58	4988.5
GR	593.58	4995.	4996.	593.58	4992.25	593.58	4993.5	593.58	4994.75
GR	593.47	5001.5	4996.	593.34	4999.	593.28	4999.9	593.32	5000.25
GR	594.04	5006.5	5002.75	593.77	5003.9	504.01	5004.01	593.91	5005.25
GR	597.58	5014.	5007.75	594.17	5008.8	594.34	5008.9	534.41	5009.
GR	600.44	5087.	5018.	598.48	5040.	599.68	5060.9	599.68	5061.
GR	610.11	601.82	5134.	602.32	5151.	603.9	5205.	608.9	5287.
GR	623.9	613.9	5353.	618.9	5392.	621.14	5422.	623.9	5459.
GR		0.	0.	0.	0.	0.	0.	0.	0.

NC	7.	4916.	0.3	4972.	0.12	4972.	0.058	5009.	0.14
NH	5087.	5134.	0.?	0.	0.	0.	0.	0.	0.
X1	34673.	4972.	5009.	320.	320.	320.	0.	0.	0.
X3	10.								
GR	624.41	624.41	4076.	621.62	4167.	619.41	604.55	604.55	4344.
GR	614.41	611.03	4514.	609.41	4559.	604.41	4239.	600.11	4916.
GR	599.99	599.99	4924.	598.09	4949.	597.19	4638.	597.17	4961.
GR	594.59	4971.5	4972.	594.34	4972.	594.16	4960.9	594.09	4975.
GR	594.09	4975.75	4977.	594.09	4978.25	594.09	4979.5	594.09	4980.75
GR	594.09	4982.	4984.	594.09	4986.	594.09	4987.25	594.09	4988.5
GR	594.09	4989.75	4991.	594.09	4992.25	594.09	4993.5	594.09	4994.75
GR	594.09	4995.	4996.	594.09	4999.	593.79	4999.9	593.83	5000.25
GR	593.98	5001.5	5002.75	594.28	5003.9	594.29	5004.01	594.42	5005.25
GR	594.55	5006.5	5007.75	594.79	5008.8	594.85	5008.9	594.92	5009.
GR	598.09	5014.	5018.	599.99	5040.	600.19	5060.9	600.19	5061.
GR	610.95	5087.	5134.	602.83	5151.	604.41	5205.	609.41	5287.
GR	610.62	614.41	5353.	619.41	5392.	621.65	5422.	624.41	5459.
GR	624.41	0.	0.	0.	0.	0.	0.	0.	0.

SC	3.033	3.00	0.00	10.0	0.00	60.0	2.1	594.48	594.28
NH	7.	4916.	0.2	4949.	0.12	4972.	0.058	5009.	0.14
NH	5087.	5134.	1.	5512.	0.	0.	0.	0.	0.

Caldwell Road (SR 1173)

X1	34733.	66.	4972.	60.4	60.4	60.4	0.00	0.00	0.00
X2	0.00	0.00	2.00	607.15	0.00	0.00	607.15	607.44	622.41
X3	10.							622.43	615.2
BT	-65.	4001.	625.22	4076.	625.22	625.2	4167.	609.14	605.2
BT		4239.	620.22	4344.	617.32	617.3	4420.	607.15	600.78
BT		4514.	611.84	4759.	610.22	610.2	4638.	607.15	597.96
BT		4916.	607.2	4739.	607.15	607.15	4924.	607.29	602.79
BT		4949.	607.24	4960.9	607.2	597.98	4961.	607.29	602.79
BT		4971.5	507.3	4972.	607.3	511.68	4973.25	607.3	602.79

BT	4974.5	607.3	603.81	4975.	607.3	604.01	4975.75	607.3	604.32
BT	4977.	607.3	604.46	4978.25	607.31	604.32	4979.5	607.31	603.81
BT	4980.75	607.31	602.79	4982.	607.31	599.48	4984.	607.31	594.88
BT	4986.	607.32	599.48	4987.25	607.33	602.79	4988.5	607.33	603.81
BT	4989.75	607.34	604.32	4991.	607.35	504.48	4992.25	607.35	604.32
BT	4993.5	607.36	603.81	4994.75	607.37	602.79	4995.	607.37	602.13
BT	4996.	607.37	599.48	4999.	607.39	599.48	4999.9	607.39	601.86
BT	5000.25	607.39	602.79	5001.5	607.4	603.81	5002.75	607.41	664.32
BT	5003.9	607.41	604.48	5004.01	607.41	604.47	5005.25	607.42	604.32
BT	5006.5	607.43	603.81	5007.75	607.43	602.79	5008.8	607.44	600.01
BT	5008.9	607.44	599.74	5009.	607.44	599.48	5014.	607.44	598.88
BT	5018.	607.45	600.38	5040.	607.46	600.78	607.48	607.48	600.98
BT	5061.	607.48	600.98	5087.	608.21	601.74	5134.	609.52	603.12
BT	5151.	610.	603.62	5205.	611.78	605.2	5287.	614.47	610.2
BT	5303.	615.	622.44	5353.	617.1	615.2	5392.	620.22	620.2
BT	5422.	622.46	622.44	5459.	625.22	625.2	5512.	625.22	625.2
GR	625.2	4091	4076.	622.41	4167.	620.2	4239.	617.3	4344.
GR	615.2	611.82	4514.	610.2	4559.	605.2	4638.	600.9	4916.
GR	600.78	4923.9	4924.	598.88	4949.	597.98	4960.9	597.96	4961.
GR	595.38	4971.5	4972.	596.17	4973.25	595.15	4974.5	594.95	4975.
GR	594.64	4975.75	4977.	594.64	4979.25	595.15	4979.5	596.17	4980.75
GR	599.48	4982.	4984.	599.48	4986.	595.17	4987.25	595.15	4988.5
GR	594.64	4989.75	4991.	594.64	4992.25	595.15	4993.5	596.17	4994.75
GR	596.83	4995.	4996.	599.48	4999.	597.1	4999.9	596.17	5000.25
GR	595.15	5001.5	5002.75	594.48	5003.9	594.49	5004.01	594.64	5005.25
GR	595.15	5006.5	5007.75	598.95	5008.8	599.22	5008.9	599.48	5009.
GR	598.83	5014.	5018.	600.78	5040.	600.98	5060.9	600.98	5061.
GR	601.74	5087.	5134.	603.62	5151.	605.2	5205.	610.2	5287.
GR	611.41	5303.	5353.	620.2	5392.	622.44	5422.	625.2	5459.
GR	625.2	0.	0.	0.	0.	0.	0.	0.	0.
NH	5.	4916.	0.12	4924.	0.058	5018.	0.14	5087.	0.22
NH	5134.	5512.	0.	0.	0.	0.	0.	0.	0.
Y1	34814.	06.	5018.	81.	81.	81.	81.	0.	0.
GR	624.55	4001.	4076.	621.76	4167.	619.55	4239.	616.65	4344.
GR	614.55	4420.	4514.	609.55	4559.	604.55	4638.	600.25	4916.
GR	603.13	4923.9	4924.	598.23	4949.	597.33	4960.9	597.31	4961.
GR	594.73	4971.5	4972.	594.48	4973.25	594.3	4974.5	594.23	4975.
GR	594.23	4975.75	4977.	594.23	4978.25	594.23	4979.5	594.23	4980.75
GR	594.23	4982.	4984.	594.23	4986.	594.23	4987.25	594.23	4988.5
GR	594.23	4989.75	4991.	594.23	4992.25	594.23	4993.5	594.23	4994.75
GR	594.23	4995.	4996.	593.99	4999.	593.93	4999.9	593.97	5000.25
GR	594.12	5001.5	5002.75	594.42	5003.9	594.43	5004.01	593.97	5005.25
GR	598.23	5014.	5018.	594.69	5008.8	594.99	5009.9	595.06	5009.
GR	501.03	5087.	5134.	602.47	5151.	600.33	5060.9	600.33	5061.
GR	610.76	5303.	5353.	619.55	5392.	621.79	5422.	625.2	5459.
GR	624.55	5512.	0.	0.	0.	0.	0.	0.	0.

MC	8.	65.	4754.	0.1	0.3	0.13	4944.	0.072	4974.	0.05
NH	5004.2	0.072	5027.	0.156	0.65	0.65	5082.	0.	0.	0.
QT	8.	1920.	3020.	3450.	4720.	3450.	959.	1531.	2555.	0.
ET	0.00	0.00	0.00	0.00	7.11	7.11	4750.00	5008.00	0.00	0.00

Cross Section J  
Cross Section AF (HSM Draft)

X1	35794.	25.	4974.	5004.2	979.3	979.3	979.3	0.	5004.2	0.117
GR	630.	4295.	625.	4367.	620.	4394.	615.	4444.	610.	4531.
GR	605.	4619.	603.37	4754.	602.25	4846.	601.07	4944.	601.03	4947.
GR	601.46	4974.	598.32	4976.	4995.	4995.	595.92	5000.	595.72	5004.
GR	596.52	5004.1	599.52	5004.2	601.12	5014.	610.	5020.	612.5	5027.
GR	615.	5034.	620.	5046.	625.	5064.	627.5	5073.	630.	5082.
MH	7.	0.65	4873.	0.156	4914.	0.117	4974.	0.054	5004.2	0.117
NH	5052.	0.156	5108.	0.65	5488.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	9.41	9.41	0.00	0.00	0.00	0.00
X1	36401.	32.	4974.	5004.2	607.	607.	607.	0.	0.	0.
GR	650.	4279.	645.	4338.	640.	4401.	635.	4443.	630.	4468.
GR	625.	4492.	620.	4541.	615.	4559.	610.	4612.	606.24	4873.
GR	605.65	4914.	605.	4959.	603.62	4974.	600.48	4976.	598.68	4995.
GR	598.09	4999.9	598.08	5000.	597.88	5004.	598.68	5004.1	501.68	5004.2
GR	604.13	5052.	605.	5069.	606.34	5108.	610.	5214.	615.	5244.
GR	620.	5287.	625.	5326.	630.	5363.	635.	5391.	640.	5423.
GR	645.	5461.	650.	5488.	0.	0.	0.	0.	0.	0.
NH	7.	0.65	4873.	0.156	4914.	0.117	4974.	0.054	5004.2	0.117
NH	5052.	0.156	5108.	0.65	5237.	0.	0.	0.	0.	0.

Cross Section J-1  
Cross Section AG (HSM Draft)

X1	36964.	24.	4974.	5004.2	563.	563.	563.	0.	4654.	0.
GR	635.	4266.	630.	4421.	625.	4482.	620.	4534.	615.	4654.
GR	610.	4738.	607.5	4873.	606.74	4914.	605.63	4974.	602.49	4976.
GR	600.69	4995.	600.09	5000.	599.89	5004.	600.69	5004.1	603.69	5004.2
GR	605.	5015.	610.	5031.	612.92	5052.	615.	5067.	620.	5106.
GR	620.29	5108.	625.	5141.	630.	5191.	635.	5237.	0.	0.
MH	7.	1.1	4922.	0.264	4956.	0.198	4982.	0.056	5010.	0.198
NH	5043.	0.264	5089.	1.1	5373.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	10.41	10.41	0.00	0.00	0.00	0.00

Cross Section K  
Cross Section AH (HSM Draft)

X1	37676.	30.	4982.	5010.	712.	712.	712.	0.	4855.	0.
GR	630.	4754.	645.	4751.	640.	4812.	635.	4847.	630.	4855.
GR	625.	4897.	620.	4909.	615.94	4922.	615.	4925.	610.	4953.
GR	609.5	4955.	605.17	4982.	605.	4983.	602.73	4985.	602.63	4985.
GR	602.43	4996.	602.73	4999.9	602.74	5003.	603.63	5007.	604.73	5010.

GR	605.	5024.	606.	5043.	608.42	5089.	610.	5119.	615.	5176.
GR	620.	5222.	625.	5758.	630.	5287.	635.	5338.	640.	5373.
NH	7.	1.1	4922.	0.264	4956.	0.198	4982.	0.066	5010.	0.198
NH	5045.	0.264	5029.	1.1	5399.	0.	0.	0.	0.	0.
ET	0.00	0.00	0.00	0.00	0.00	10.41	0.00	0.00	0.00	0.00

Cross Section K-1  
Above County Line  
Cross Section AI (HSMM Draft)

XI	37915.	30.	4982.	5010.	239.	239.	239.	0.		
GR	655.	4574.	650.	4634.	645.	4661.	640.	4676.	635.	4714.
GR	630.	4738.	625.	4763.	620.	4788.	615.	4816.	610.	4865.
GR	608.83	4922.	608.13	4956.	607.59	4982.	605.29	4985.	605.19	4992.
GR	604.99	4996.	605.28	4999.9	605.29	5000.	605.19	5007.	607.29	5010.
GR	610.	5045.	613.86	5089.	615.	5102.	620.	5140.	625.	5179.
GR	630.	5225.	635.	5259.	640.	5303.	645.	5353.	650.	5399.

T1 Hayes, Seay, Mattern & Mattern Cabarrus County, NC FIS  
T2 Proj. No. EMW-90-C-3101 Eng:LJM/EKL ET:TFH Comm. No. 2373  
T3 Back Creek (BC.IH) Date: 10/17/91 100-Year Floodway

J1	TCHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		6.0							529.71	
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
		15								-1.0

THIS RUN EXECUTED 17OCT91 09:40:11

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HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991

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NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

Back Creek (BC.IN)

SUMMARY PRINTOUT TABLE 110

SECHO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
210.000	529.71	.29	530.04	881.69	796.05	6140.74	610.21	.00	.00	4915.00	5055.00	.00
210.000	529.71	.00	530.19	250.00	370.56	6952.10	224.33	250.00	4840.00	4915.00	5055.00	5090.00
1145.000	531.63	.00	531.91	740.78	209.74	4921.03	2416.23	.00	.00	4947.00	5035.00	.00
1145.000	532.18	.54	532.57	260.21	.00	5695.73	1851.27	.19	4947.00	4947.00	5035.00	5207.21
1910.000	533.03	.00	533.28	685.52	287.13	3973.12	3286.75	.00	.00	4969.00	5032.00	.00
1910.000	533.91	.88	534.22	254.25	.00	4417.91	3129.09	.18	4969.00	4969.00	5032.00	5263.25
2904.000	534.93	.00	535.15	759.90	2027.81	3154.06	2365.13	.00	.00	4979.00	5028.00	.00
2904.000	535.91	.98	536.19	313.38	1823.92	3563.14	2159.94	.16	4843.04	4979.00	5028.00	5156.42
* 3673.000	536.81	.00	537.44	401.01	1418.24	5620.11	508.65	.00	.00	4958.00	5033.00	.00
* 3673.000	537.76	.95	538.54	159.38	1146.19	6400.81	.00	.17	4873.62	4958.00	5033.00	5033.00
4168.500	538.80	.00	539.09	641.24	1828.25	5620.56	98.19	.00	.00	4935.50	5060.50	.00
* 4168.500	539.81	1.02	540.10	375.00	1770.94	5776.06	.00	375.00	4675.00	4935.50	5060.50	5050.00
4408.500	539.44	.00	539.95	638.80	3099.58	3877.42	570.00	.00	.00	4985.50	5025.50	.00
4408.500	540.34	.90	540.66	375.00	3109.25	4069.76	367.98	375.00	4675.00	4985.50	5025.50	5050.00
4430.500	539.51	.00	539.95	640.57	3327.68	3602.19	617.12	.00	.00	4985.50	5025.50	.00
4430.500	540.39	.89	540.86	375.00	3337.61	3813.68	395.72	375.00	4675.00	4985.50	5025.50	5050.00
* 4491.500	539.94	.00	540.19	653.75	1899.41	5528.90	118.70	.00	.00	4935.50	5060.50	.00
* 4491.500	540.81	.88	541.08	375.00	1810.80	5736.20	.00	375.00	4675.00	4935.50	5060.50	5050.00
5343.000	541.32	.00	541.45	802.00	3495.93	3053.52	997.55	.00	.00	4984.00	5033.00	.00
5343.000	542.10	.78	542.23	639.00	3786.67	3199.02	561.31	639.00	4440.00	4984.00	5033.00	5079.00
5873.000	541.86	.00	541.90	1136.95	1114.83	1447.47	4984.71	.00	.00	4988.00	5022.00	.00
5873.000	542.62	.77	542.68	568.49	722.94	1646.99	5177.07	.16	4908.93	4988.00	5022.00	5477.42

SECHO	CWSEL	DIFKWS	EG	TOPWID	CLOB	QCH	QRCB	PERENC	STENCL	STCHL	STCHR	STENCR
* 6685.000	542.70	.00	542.90	904.83	757.69	2552.14	4237.17	.00	.00	4982.00	5024.00	.00
* 6685.000	543.48	.78	543.69	560.00	267.06	2744.10	4535.84	560.00	4960.00	4982.00	5024.00	5520.00
7435.000	544.40	.00	544.48	903.30	1106.02	1094.83	4746.15	.00	.00	4973.00	5008.50	.00
7435.000	545.30	.91	545.48	383.00	589.36	2269.10	4688.53	383.00	4937.00	4973.00	5008.50	5320.00
8364.000	546.24	.00	546.45	951.72	3511.46	4034.26	1.27	.00	.00	4963.00	5060.00	.00
8364.000	547.28	1.05	547.48	485.00	3326.89	4220.11	.00	485.00	4575.00	4963.00	5060.00	5060.00
9234.000	548.41	.00	548.56	886.28	3015.44	2450.81	2080.75	.00	.00	4973.00	5019.00	.00
9234.000	549.28	.87	549.55	385.00	1673.96	3138.77	2734.27	385.00	4875.00	4973.00	5019.00	5260.00
9987.000	550.18	.00	550.43	518.25	4107.48	2670.59	768.94	.00	.00	4978.00	5014.00	.00
9987.000	551.18	1.00	551.43	321.00	3905.93	2786.54	854.54	321.00	4759.00	4978.00	5014.00	5080.00
10922.000	552.14	.00	552.29	618.02	3743.89	2555.36	1247.76	.00	.00	4979.00	5018.00	.00
10922.000	552.99	.84	553.18	301.82	3783.19	2891.76	872.05	.15	4774.01	4979.00	5018.00	5075.83
13158.000	555.81	.00	556.02	785.25	3578.45	2452.51	1516.03	.00	.00	4991.00	5021.00	.00
13158.000	556.74	.94	557.04	261.60	3590.16	2780.32	1176.52	.17	4839.64	4991.00	5021.00	5101.24
* 13964.000	560.48	.00	560.56	1984.28	2485.48	2159.09	5061.51	.00	.00	4985.00	5017.50	.00
* 13964.000	558.60	-1.88	559.93	150.00	1033.14	5414.25	1099.61	150.00	4925.00	4985.00	5017.50	5075.00
14204.000	561.82	.00	561.87	2135.89	2457.59	1842.84	5089.41	.00	.00	4985.00	5017.50	.00
14204.000	560.33	-1.49	561.40	150.00	1112.79	5261.04	1173.16	150.00	4925.00	4985.00	5017.50	5075.00
14205.000	561.80	.00	561.90	2132.65	1889.99	1938.99	3718.02	.00	.00	4986.00	5016.10	.00
* 14205.000	560.63	-1.17	561.47	150.00	1990.70	3624.84	1931.46	150.00	4925.00	4986.00	5016.10	5075.00
14225.000	561.88	.00	561.98	2144.83	1891.97	1926.91	3728.12	.00	.00	4986.00	5016.10	.00
14225.000	561.08	-.80	561.85	150.00	2008.62	3588.44	1949.93	150.00	4925.00	4986.00	5016.10	5075.00
14226.000	561.85	.00	562.02	2139.98	2457.07	2986.41	5069.93	.00	.00	4985.00	5017.50	.00
* 14226.000	560.99	-.86	561.95	150.00	1144.47	5200.38	1202.14	150.00	4925.00	4985.00	5017.50	5075.00
14286.000	562.12	.00	562.28	2152.56	2455.52	2950.04	5091.48	.00	.00	4985.00	5017.50	.00
14286.000	561.24	-.87	562.19	150.00	1147.65	5194.29	1205.06	150.00	4925.00	4985.00	5017.50	5075.00
* 14990.000	563.32	.00	563.51	1104.73	2397.26	3499.26	1650.47	.00	.00	4983.00	5025.00	.00
* 14990.000	563.36	.04	563.63	350.36	2240.98	3915.19	1390.83	.12	4848.69	4983.00	5025.00	5199.06
* 15740.000	564.35	.00	564.54	1909.82	3399.69	2347.50	1799.81	.00	.00	4985.50	5012.00	.00
* 15740.000	564.66	.31	565.05	490.00	3752.68	3010.88	783.44	490.00	4560.00	4985.50	5012.00	5050.00
16542.000	565.66	.00	565.84	1823.05	1570.92	2782.54	666.53	.00	.00	4985.50	5032.00	.00
16542.000	566.48	.82	566.71	414.18	1505.40	3159.29	355.31	.17	4671.74	4985.50	5032.00	5085.92
17492.000	566.81	.00	566.86	1094.82	2703.87	901.20	1414.93	.00	.00	4989.90	5005.00	.00
17492.000	567.72	.91	567.81	286.00	2671.40	1047.45	1301.10	286.00	4800.00	4989.90	5005.00	5086.00



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SECKO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
* 18349.000	567.86	.00	568.21	598.70	1585.30	3004.13	430.57	.00	.00	4989.00	5028.00	.00
* 18349.000	568.79	.94	569.26	157.93	1519.88	3419.37	80.75	.16	4878.96	4989.00	5028.00	5036.88
20417.000	571.56	.00	571.83	512.66	1027.27	2951.66	1041.07	.00	.00	4974.50	5014.00	.00
20417.000	572.57	1.01	572.90	179.73	844.58	3313.00	862.42	.14	4908.10	4974.50	5014.00	5087.83
22660.000	574.70	.00	574.93	565.24	1729.64	2506.08	784.28	.00	.00	4974.00	5008.50	.00
22650.000	573.70	.99	576.00	154.18	1639.98	2818.23	561.80	.15	4882.81	4974.00	5008.50	5037.00
* 23344.000	576.13	.00	576.74	527.06	1245.98	2513.79	1260.23	.00	.00	4989.90	5014.00	.00
* 23344.000	577.03	.90	577.86	126.02	1085.38	2875.95	1058.67	.20	4936.30	4989.90	5014.00	5062.32
* 24024.000	578.56	.00	578.97	419.83	156.25	3345.02	1518.74	.00	.00	4972.80	5013.60	.00
* 24024.000	579.57	1.01	580.03	130.00	18.73	3645.53	1355.74	130.00	4970.00	4972.80	5013.60	5100.00
* 24703.000	580.32	.00	581.05	603.68	716.94	3903.78	48.28	.00	.00	4978.00	5026.00	.00
24703.000	581.17	.85	591.80	210.00	682.04	3913.51	73.45	210.00	4840.00	4978.00	5026.00	5050.00
24876.000	581.09	.00	581.80	607.30	731.09	3987.58	50.33	.00	.00	4978.00	5026.00	.00
24876.000	581.77	.67	582.41	210.00	672.17	3926.00	70.83	210.00	4840.00	4978.00	5026.00	5050.00
24898.000	581.01	.00	581.80	603.66	776.64	3843.77	48.59	.00	.00	4983.00	5026.00	.00
24898.000	581.98	.97	582.65	210.00	762.12	3829.11	77.77	210.00	4840.00	4983.00	5026.00	5050.00
24942.000	581.35	.00	582.02	614.25	757.80	3856.88	54.32	.00	.00	4978.00	5026.00	.00
24942.000	582.23	.87	582.82	210.00	707.99	3880.52	80.48	210.00	4840.00	4978.00	5026.00	5050.00
26263.000	585.71	.00	586.00	699.09	1477.02	2493.16	698.82	.00	.00	4988.50	5025.50	.00
26263.000	586.25	.54	586.68	205.40	1350.96	2909.19	408.85	.18	4854.85	4988.50	5025.50	5060.25
* 26817.000	586.65	.00	586.80	812.50	465.38	2675.09	1528.53	.00	.00	4975.60	5030.60	.00
* 26817.000	587.37	.71	587.57	200.00	415.11	3017.15	1236.75	200.00	4925.00	4975.60	5030.60	5125.00
27036.000	586.87	.00	587.03	803.79	448.23	2704.39	1516.37	.00	.00	4975.50	5030.60	.00
27036.000	587.60	.72	587.80	200.00	403.58	3030.60	1234.82	200.00	4925.00	4975.50	5030.60	5125.00
27056.000	587.67	.00	587.77	826.17	528.34	2456.09	1684.57	.00	.00	4975.50	5030.60	.00
27056.000	588.65	.98	588.80	200.00	478.38	2822.92	1367.70	200.00	4925.00	4975.50	5030.60	5125.00
27112.000	587.70	.00	587.84	826.11	489.14	2633.99	1545.87	.00	.00	4975.60	5030.60	.00
27112.000	588.69	.98	588.66	200.00	438.69	2990.35	1239.95	200.00	4925.00	4975.60	5030.60	5125.00
27957.000	588.53	.00	588.75	771.63	1146.73	2878.51	643.76	.00	.00	4965.00	5015.00	.00
27957.000	589.51	.97	589.78	243.38	998.07	3281.67	389.26	.16	4802.91	4965.00	5015.00	5046.29
28765.000	589.83	.00	590.07	629.64	1293.17	2476.80	899.03	.00	.00	4988.50	5025.50	.00
28765.000	590.80	.97	591.13	157.70	1184.22	2827.38	657.39	.16	4908.55	4988.50	5025.50	5066.25
29677.000	591.72	.00	592.19	492.69	285.80	3582.25	800.25	.00	.00	4981.00	5027.00	.00
29677.000	592.66	.95	593.23	104.75	28.85	3992.74	657.41	.13	4977.35	4981.00	5027.00	5082.11

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SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
30480.000	593.46	.00	593.85	349.98	265.06	3758.09	645.85	.00	.00	4990.00	5034.00	.00
30480.000	594.39	.53	594.84	93.29	57.94	4093.39	517.68	.10	4983.48	4990.00	5034.00	5076.77
31354.000	595.25	.00	595.73	447.65	542.92	4002.10	123.98	.00	.00	4974.00	5037.00	.00
31354.000	596.18	.93	596.76	78.60	159.71	4509.29	.00	.14	4956.40	4974.00	5037.00	5037.00
32169.000	598.12	.00	598.57	421.00	1226.77	2167.56	1274.67	.00	.00	4989.00	5011.00	.00
32169.000	599.09	.97	599.64	123.23	1128.79	2386.15	1154.07	.15	4934.29	4989.00	5011.00	5057.52
32257.000	598.50	.00	598.96	416.92	1221.07	2178.01	1269.92	.00	.00	4989.00	5011.00	.00
32257.000	599.46	.95	600.02	122.26	1121.34	2399.65	1148.01	.15	4924.63	4999.00	5011.00	5056.90
32271.000	598.50	.00	598.96	416.28	1219.70	2178.47	1270.83	.00	.00	4989.00	5011.00	.00
32271.000	599.46	.95	600.02	122.26	1120.10	2399.44	1146.46	.15	4934.63	4989.00	5011.00	5056.90
32294.000	598.60	.00	599.08	408.80	1209.46	2199.27	1260.27	.00	.00	4989.00	5011.00	.00
32294.000	599.54	.95	600.14	120.80	1108.46	2422.06	1138.49	.15	4935.16	4989.00	5011.00	5055.96
33082.000	603.06	.00	603.99	396.10	573.74	3215.71	879.55	.00	.00	4991.00	5029.50	.00
33082.000	603.82	.76	604.93	101.21	290.80	3695.67	682.52	.17	4973.15	4991.00	5029.50	5074.36
* 33830.000	606.48	.00	606.70	671.92	1304.21	2301.88	1062.91	.00	.00	4991.00	5029.50	.00
* 33630.000	607.41	.93	607.68	191.34	1191.52	2571.68	905.81	.14	4913.19	4991.00	5029.50	5104.53
* 34353.000	607.17	.00	607.31	672.17	269.24	3624.15	775.61	.00	.00	4924.00	5018.00	.00
* 34353.000	608.10	.94	608.27	159.99	2.34	4058.44	608.22	.12	4923.30	4924.00	5018.00	5033.29
34673.000	607.43	.00	607.65	664.16	1042.87	2515.80	1110.33	.00	.00	4972.00	5009.00	.00
34673.000	608.34	.92	608.61	173.41	891.37	2755.48	1022.15	.12	4916.82	4972.00	5009.00	5090.23
34733.000	609.36	.00	609.46	701.01	1334.69	1868.22	1466.09	.00	.00	4972.00	5009.00	.00
34733.000	610.32	.96	610.47	172.41	1137.18	2168.12	1363.70	.12	4916.82	4972.00	5009.00	5090.23
* 34814.000	609.42	.00	609.52	723.77	315.52	3498.72	854.76	.00	.00	4924.00	5018.00	.00
* 34814.000	610.43	1.01	610.54	177.04	98.39	3861.36	709.26	.11	4913.14	4924.00	5018.00	5090.19
* 35794.000	609.92	.00	610.03	487.58	1732.72	1463.82	253.46	.00	.00	4974.00	5004.20	.00
* 35794.000	610.90	.98	611.00	258.00	1899.62	1508.50	41.88	258.00	4750.00	4974.00	5004.20	5008.00
* 36401.000	610.47	.00	610.65	609.81	782.77	1616.97	1050.27	.00	.00	4974.00	5004.20	.00
* 36401.000	611.34	.87	611.58	158.47	670.06	1845.11	934.83	.18	4907.43	4974.00	5004.20	5065.91
* 36964.000	611.52	.00	611.95	329.50	1084.82	2057.63	307.56	.00	.00	4974.00	5004.20	.00
* 36964.000	612.36	.84	612.93	108.37	1058.78	2379.54	11.68	.19	4897.36	4974.00	5004.20	5005.73
37676.000	614.09	.00	614.53	235.44	330.49	2079.72	1039.79	.00	.00	4982.00	5010.00	.00
37676.000	615.00	.91	615.59	92.15	85.67	2416.33	948.00	.16	4974.58	4982.00	5010.00	5066.73
37915.000	615.16	.00	615.57	288.12	870.18	1990.46	581.37	.00	.00	4982.00	5010.00	.00
37915.000	616.03	.92	616.77	100.73	716.79	2344.89	388.24	.19	4935.23	4982.00	5010.00	5035.97

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SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= 13964.000 PROFILE= 1 VSEL ASSUMED BASED ON MIN DIFF  
CAUTION SECNO= 13964.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE VSEL

FLOODWAY DATA, Back Creek (BC.IN)  
 PROFILE NO. 2

REGULATORY

STATION	WIDTH	FLOODWAY		WATER SURFACE ELEVATION				
		SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE		
A 210.000	250.	1683.	4.5	529.7	529.7	.0	540.2	A
B 1145.000	260.	2102.	3.6	532.1	531.6	-.5	540.2	B
C 1910.000	294.	2582.	2.9	533.9	533.0	-.9	540.2	C
D 2994.000	313.	3017.	2.5	535.9	534.9	1.0	540.2	D
E 3673.000	159.	1416.	5.3	537.8	536.8	1.0	540.2	E
4169.500	375.	2990.	2.6	539.8	538.8	1.0		
4408.500	375.	2811.	2.7	540.3	539.4	.9		
4430.500	375.	2911.	2.7	540.4	539.5	.9		
4491.500	375.	3011.	2.5	540.8	539.9	.9		
F 5343.000	639.	5288.	1.2	542.1	541.3	.8	541.3	F
G 5873.000	568.	6080.	1.2	542.7	541.9	.8	541.9	G
H 6565.000	560.	3946.	1.9	543.5	542.7	.8	542.7	H
I 7435.000	383.	3569.	2.1	545.3	544.4	.9	544.4	I
J 8364.000	485.	3283.	2.3	547.2	546.2	1.0	546.2	J
K 9234.000	385.	3109.	2.4	549.3	548.4	.9	548.4	K
L 9987.000	321.	2993.	2.5	551.2	550.2	1.0	550.2	L
M 10922.000	302.	3361.	2.2	552.9	552.1	.8	552.1	M
N 13159.000	262.	2687.	2.8	556.7	555.8	.9	555.8	N
13964.000	150.	1513.	5.0	558.6	560.5	-1.9		
14204.000	150.	1728.	4.4	560.3	561.8	-1.5		
14205.000	150.	1463.	5.2	560.6	561.8	-1.2		
14225.000	150.	1531.	4.9	561.1	561.9	-.8		
14226.000	150.	1827.	4.1	561.0	561.9	-.9		
14286.000	150.	1838.	4.1	561.2	562.1	-.9		
O 14990.000	350.	4329.	1.7	563.3	563.3	.0	563.3	O
P 15740.000	490.	4561.	1.6	564.6	564.5	.1	564.5	P
Q 16542.000	474.	3393.	1.5	566.5	565.7	.8	565.7	Q
R 17492.000	286.	3351.	1.5	567.7	566.8	.9	566.8	R
S 18348.000	159.	1522.	3.3	568.8	567.9	.9	567.9	S
T 20317.000	180.	1975.	2.5	572.6	571.6	1.0	571.6	T
U 22560.000	154.	1683.	3.0	575.7	574.7	1.0	574.7	U
V 23344.000	126.	964.	5.2	577.0	576.1	.9	576.1	V
W 24024.000	130.	1413.	3.6	579.5	578.5	1.0	578.5	W
24703.000	210.	1308.	3.6	581.1	580.3	.8		
24876.000	210.	1288.	3.6	581.8	581.1	.7		
24898.000	210.	1335.	3.5	582.0	581.0	1.0		
24942.000	210.	1361.	3.4	582.3	581.4	.9		
X 26263.000	205.	1593.	2.9	586.2	585.7	.5	585.7	X
26917.000	200.	2084.	2.2	587.4	586.7	.7		
27036.000	200.	2023.	2.3	587.6	586.9	.7		
27056.000	200.	2233.	2.1	588.7	587.7	1.0		
27112.000	200.	2232.	2.1	588.7	587.7	1.0		

FLOODWAY DATA, Back Creek (BC.IN)  
PROFILE NO. 2

REGULATORY

STATION	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION			
	WIDTH	SECTION AREA		WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE	
<i>Y</i> 27957.000	243.	2342.	2.0	589.5	588.5	1.0	589.5 Y
<i>Z</i> 28765.000	158.	1327.	3.1	590.8	589.8	1.0	590.8 Z
<i>AD</i> 29677.000	105.	1036.	4.5	592.6	591.7	.9	591.7 AD
<i>AE</i> 30480.000	93.	1181.	4.0	594.4	593.5	.9	593.5 AE
<i>AF</i> 31354.000	79.	821.	5.7	596.1	595.2	.9	595.2 AF
32169.000	123.	1116.	4.2	599.1	598.1	1.0	
32257.000	122.	1099.	4.2	599.5	598.5	1.0	
32271.000	122.	1099.	4.2	599.5	598.5	1.0	
32294.000	121.	1071.	4.4	599.5	598.6	.9	
<i>AD</i> 33082.000	101.	752.	6.2	603.9	603.1	.8	603.1 AD
<i>AE</i> 33830.000	191.	1757.	2.7	607.4	606.5	.9	606.5 AE
34353.000	160.	1706.	2.7	608.1	607.2	.9	
34673.000	173.	1768.	2.6	608.3	607.4	.9	
34733.000	173.	1918.	2.4	610.4	609.4	1.0	
34814.000	177.	2142.	2.2	610.4	609.4	1.0	
<i>AF</i> 35794.000	258.	2429.	1.4	610.9	609.9	1.0	609.9 AF
36461.000	158.	1275.	2.7	611.4	610.5	.9	
<i>AG</i> 36964.000	108.	807.	4.3	612.3	611.5	.8	611.5 AG
37676.000	92.	923.	3.7	615.0	614.1	.9	
37915.000	101.	869.	4.0	616.1	615.2	.9	