JACOBS ENGINEERING

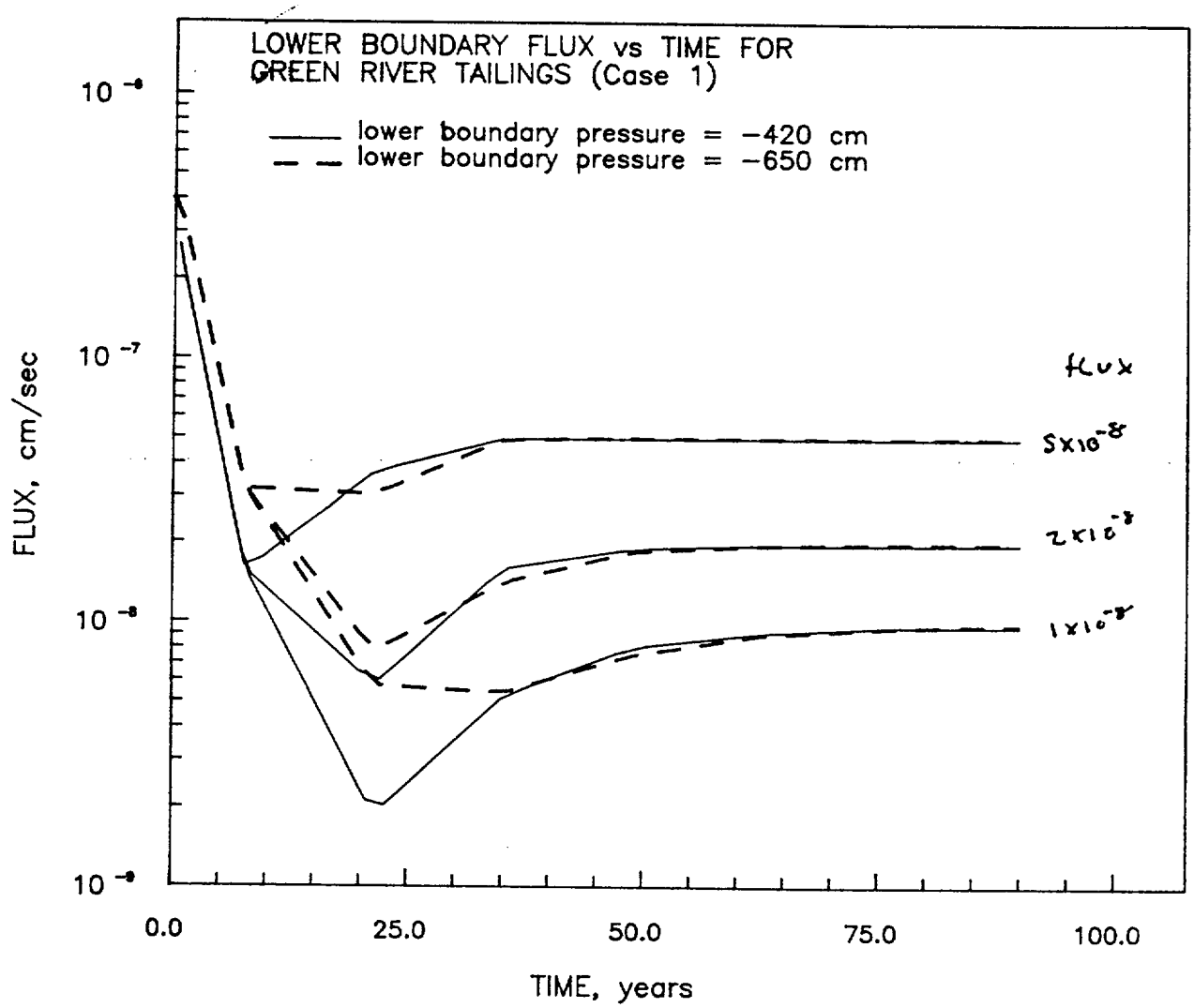
DATE _____ SUBJECT _____ SHEET NO. _____

BY _____ CHKD. _____ JOB NO. _____

LOWER BOUNDARY

SENSITIVITY

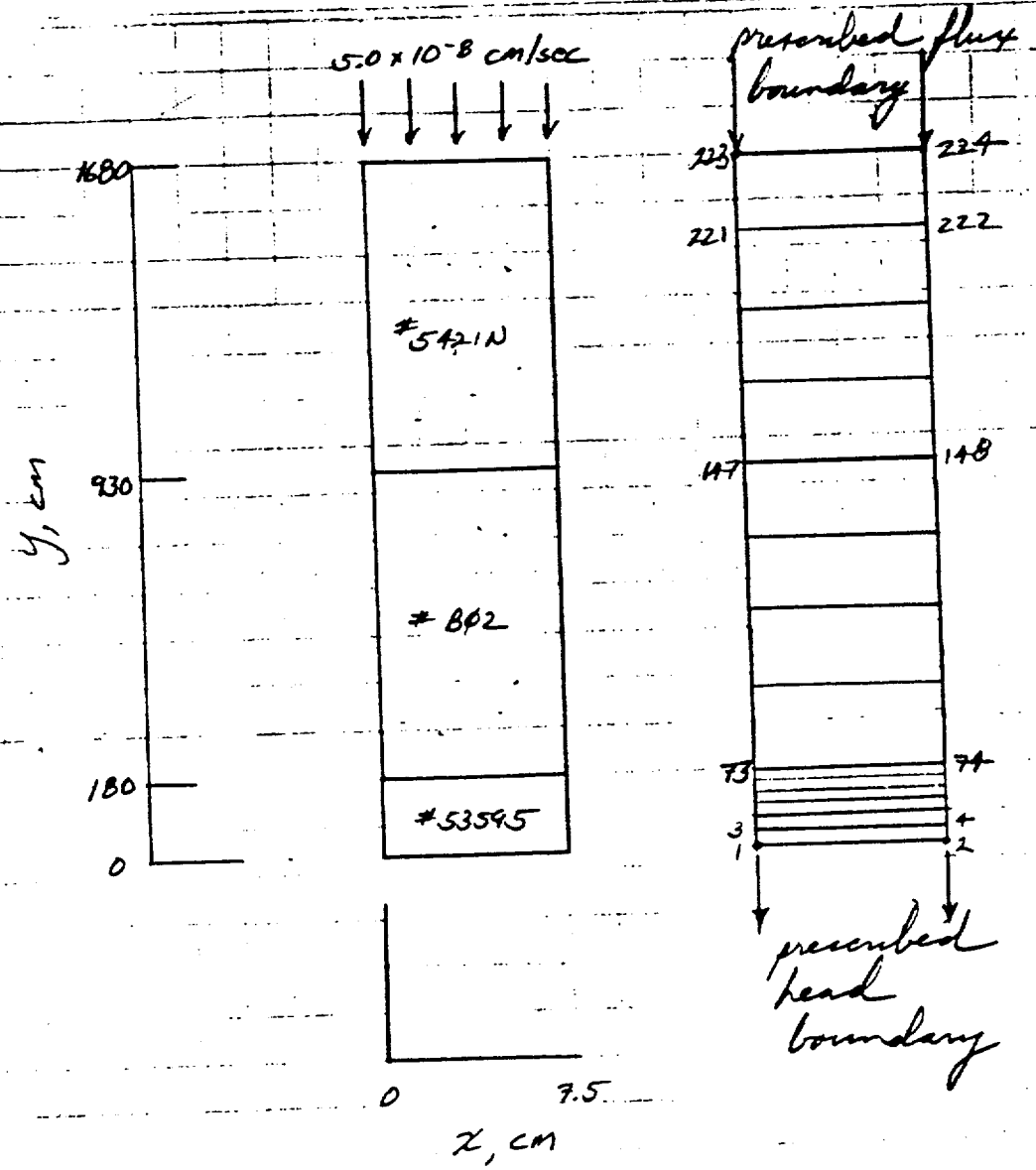
ANALYSIS


LOWER BOUNDARY FLUX vs TIME FOR
GREEN RIVER TAILINGS (Case 1)
lower boundary pressure = −420 cm
lower boundary pressure = −650 cm
FLUX, cm/sec
10 -6
10 -7
10 -8
10 -9
0.0
25.0
50.0
75.0
100.0
TIME, years
flux
5x10-8
2x10-8
1x10-8

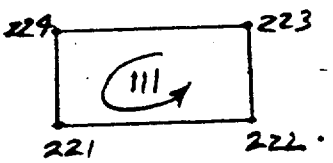
JACOBS ENGINEERING

DATE _____ SUBJECT _____ SHEET NO. _____

CHKD. _____ JOB NO. _____



element coding



STORAGE CHECK

THE DIMENSION OF BC SHOULD BE GREATER THAN 897
THE DIMENSION OF BS SHOULD BE GREATER THAN 3051

Name of the Input File: grn1c.INU
Name of the Output File: grn1c.UNS
Name of the Plot File: grn1c.PRN

NO COVER
FIXED U.B. FLUX 1E 10^{-8}
FIXED L.B. -420 cm

VERTICAL PLANE FLOW

GREEN RIVER: 1) GRN5423 93% 2) GRN5335 95% 3) GRN5335 95%; 1.0E-08cm/s cover flux

NUMBER OF NODAL POINTS------- 224
MAX NODES IN A TRNSVRS LINE-- 2
NUMBER OF ELEMENTS---------- 111
NUMBER OF MATERIALS---------- 3
MAX NUMBER OF ITERATIONS----- 100

UNITS ARE CONTROLED BY THE FOLLOWING CONSTANTS -

CONS1 = .100E+01 CONS2 = .100E+01

MATERIAL	K1	K2	POROSITY	SS	RWC	EN	ALPHA	ID MODEL
1	.86400E+01	.86400E+01	.33000E+00	.00000E+00	.25000E-01	.22500E+01	.34000E-02	1
2	.86400E+01	.86400E+01	.33000E+00	.00000E+00	.25000E-01	.22500E+01	.34000E-02	1
3	.51800E+02	.51800E+02	.45000E+00	.00000E+00	.30000E-01	.23260E+01	.50000E-02	1

NODAL POINT INFORMATION

NODE NO.	KODE	X,R	Y,Z	.PSI.	Q
1	1	.000000E+00	.000000E+00	-.420000E+03	.000000E+00
2	1	.750000E+01	.000000E+00	-.420000E+03	.000000E+00
3	0	.000000E+00	.500000E+01	-.650000E+03	.000000E+00
4	0	.750000E+01	.500000E+01	-.650000E+03	.000000E+00
5	0	.000000E+00	.100000E+02	-.650000E+03	.000000E+00
6	0	.750000E+01	.100000E+02	-.650000E+03	.000000E+00
7	0	.000000E+00	.150000E+02	-.650000E+03	.000000E+00
8	0	.750000E+01	.150000E+02	-.650000E+03	.000000E+00
9	0	.000000E+00	.200000E+02	-.650000E+03	.000000E+00
10	0	.750000E+01	.200000E+02	-.650000E+03	.000000E+00
11	0	.000000E+00	.250000E+02	-.650000E+03	.000000E+00
12	0	.750000E+01	.250000E+02	-.650000E+03	.000000E+00
13	0	.000000E+00	.300000E+02	-.650000E+03	.000000E+00
14	0	.750000E+01	.300000E+02	-.650000E+03	.000000E+00
15	0	.000000E+00	.350000E+02	-.650000E+03	.000000E+00
16	0	.750000E+01	.350000E+02	-.650000E+03	.000000E+00

17	0	.000000E+00	.400000E+02	-.650000E+03	.000000E+00
18	0	.750000E+01	.400000E+02	-.650000E+03	.000000E+00
19	0	.000000E+00	.450000E+02	-.650000E+03	.000000E+00
20	0	.750000E+01	.450000E+02	-.650000E+03	.000000E+00
21	0	.000000E+00	.500000E+02	-.650000E+03	.000000E+00
[illegible]	0	.750000E+01	.500000E+02	-.650000E+03	.000000E+00
	0	.000000E+00	.550000E+02	-.650000E+03	.000000E+00
	0	.750000E+01	.550000E+02	-.650000E+03	.000000E+00
25	0	.000000E+00	.600000E+02	-.650000E+03	.000000E+00
26	0	.750000E+01	.600000E+02	-.650000E+03	.000000E+00
27	0	.000000E+00	.650000E+02	-.650000E+03	.000000E+00
28	0	.750000E+01	.650000E+02	-.650000E+03	.000000E+00
29	0	.000000E+00	.700000E+02	-.650000E+03	.000000E+00
30	0	.750000E+01	.700000E+02	-.650000E+03	.000000E+00
31	0	.000000E+00	.750000E+02	-.650000E+03	.000000E+00
32	0	.750000E+01	.750000E+02	-.650000E+03	.000000E+00
33	0	.000000E+00	.800000E+02	-.650000E+03	.000000E+00
34	0	.750000E+01	.800000E+02	-.650000E+03	.000000E+00
35	0	.000000E+00	.850000E+02	-.650000E+03	.000000E+00
36	0	.750000E+01	.850000E+02	-.650000E+03	.000000E+00
37	0	.000000E+00	.900000E+02	-.650000E+03	.000000E+00
38	0	.750000E+01	.900000E+02	-.650000E+03	.000000E+00
39	0	.000000E+00	.950000E+02	-.650000E+03	.000000E+00
40	0	.750000E+01	.950000E+02	-.650000E+03	.000000E+00
41	0	.000000E+00	.100000E+03	-.650000E+03	.000000E+00
42	0	.750000E+01	.100000E+03	-.650000E+03	.000000E+00
43	0	.000000E+00	.105000E+03	-.650000E+03	.000000E+00
44	0	.750000E+01	.105000E+03	-.650000E+03	.000000E+00
45	0	.000000E+00	.110000E+03	-.650000E+03	.000000E+00
46	0	.750000E+01	.110000E+03	-.650000E+03	.000000E+00
47	0	.000000E+00	.115000E+03	-.650000E+03	.000000E+00
[illegible]	0	.750000E+01	.115000E+03	-.650000E+03	.000000E+00
	0	.000000E+00	.120000E+03	-.650000E+03	.000000E+00
	0	.750000E+01	.120000E+03	-.650000E+03	.000000E+00
51	0	.000000E+00	.125000E+03	-.650000E+03	.000000E+00
52	0	.750000E+01	.125000E+03	-.650000E+03	.000000E+00
53	0	.000000E+00	.130000E+03	-.650000E+03	.000000E+00
54	0	.750000E+01	.130000E+03	-.650000E+03	.000000E+00
55	0	.000000E+00	.135000E+03	-.650000E+03	.000000E+00
56	0	.750000E+01	.135000E+03	-.650000E+03	.000000E+00
57	0	.000000E+00	.140000E+03	-.650000E+03	.000000E+00
58	0	.750000E+01	.140000E+03	-.650000E+03	.000000E+00
59	0	.000000E+00	.145000E+03	-.650000E+03	.000000E+00
60	0	.750000E+01	.145000E+03	-.650000E+03	.000000E+00
61	0	.000000E+00	.150000E+03	-.650000E+03	.000000E+00
62	0	.750000E+01	.150000E+03	-.650000E+03	.000000E+00
63	0	.000000E+00	.155000E+03	-.650000E+03	.000000E+00
64	0	.750000E+01	.155000E+03	-.650000E+03	.000000E+00
65	0	.000000E+00	.160000E+03	-.650000E+03	.000000E+00
66	0	.750000E+01	.160000E+03	-.650000E+03	.000000E+00
67	0	.000000E+00	.165000E+03	-.650000E+03	.000000E+00
68	0	.750000E+01	.165000E+03	-.650000E+03	.000000E+00
69	0	.000000E+00	.170000E+03	-.650000E+03	.000000E+00
70	0	.750000E+01	.170000E+03	-.650000E+03	.000000E+00
71	0	.000000E+00	.175000E+03	-.650000E+03	.000000E+00
72	0	.750000E+01	.175000E+03	-.650000E+03	.000000E+00
[illegible]	0	.000000E+00	.180000E+03	-.650000E+03	.000000E+00
	0	.750000E+01	.180000E+03	-.650000E+03	.000000E+00
75	0	.000000E+00	.200000E+03	-.650000E+03	.000000E+00
76	0	.750000E+01	.200000E+03	-.650000E+03	.000000E+00
77	0	.000000E+00	.220000E+03	-.650000E+03	.000000E+00
78	0	.750000E+01	.220000E+03	-.650000E+03	.000000E+00

79	0	.000000E+00	.240000E+03	-.650000E+03	.000000E+00
80	0	.750000E+01	.240000E+03	-.650000E+03	.000000E+00
81	0	.000000E+00	.260000E+03	-.650000E+03	.000000E+00
82	0	.750000E+01	.260000E+03	-.650000E+03	.000000E+00
83	0	.000000E+00	.280000E+03	-.650000E+03	.000000E+00
84	0	.750000E+01	.280000E+03	-.650000E+03	.000000E+00
85	0	.000000E+00	.300000E+03	-.650000E+03	.000000E+00
86	0	.750000E+01	.300000E+03	-.650000E+03	.000000E+00
87	0	.000000E+00	.320000E+03	-.650000E+03	.000000E+00
88	0	.750000E+01	.320000E+03	-.650000E+03	.000000E+00
89	0	.000000E+00	.340000E+03	-.650000E+03	.000000E+00
90	0	.750000E+01	.340000E+03	-.650000E+03	.000000E+00
91	0	.000000E+00	.360000E+03	-.650000E+03	.000000E+00
92	0	.750000E+01	.360000E+03	-.650000E+03	.000000E+00
93	0	.000000E+00	.380000E+03	-.650000E+03	.000000E+00
94	0	.750000E+01	.380000E+03	-.650000E+03	.000000E+00
95	0	.000000E+00	.400000E+03	-.650000E+03	.000000E+00
96	0	.750000E+01	.400000E+03	-.650000E+03	.000000E+00
97	0	.000000E+00	.420000E+03	-.650000E+03	.000000E+00
98	0	.750000E+01	.420000E+03	-.650000E+03	.000000E+00
99	0	.000000E+00	.440000E+03	-.650000E+03	.000000E+00
100	0	.750000E+01	.440000E+03	-.650000E+03	.000000E+00
101	0	.000000E+00	.460000E+03	-.650000E+03	.000000E+00
102	0	.750000E+01	.460000E+03	-.650000E+03	.000000E+00
103	0	.000000E+00	.480000E+03	-.650000E+03	.000000E+00
104	0	.750000E+01	.480000E+03	-.650000E+03	.000000E+00
105	0	.000000E+00	.500000E+03	-.650000E+03	.000000E+00
106	0	.750000E+01	.500000E+03	-.650000E+03	.000000E+00
107	0	.000000E+00	.520000E+03	-.650000E+03	.000000E+00
108	0	.750000E+01	.520000E+03	-.650000E+03	.000000E+00
109	0	.000000E+00	.540000E+03	-.650000E+03	.000000E+00
110	0	.750000E+01	.540000E+03	-.650000E+03	.000000E+00
111	0	.000000E+00	.560000E+03	-.650000E+03	.000000E+00
112	0	.750000E+01	.560000E+03	-.650000E+03	.000000E+00
113	0	.000000E+00	.580000E+03	-.650000E+03	.000000E+00
114	0	.750000E+01	.580000E+03	-.650000E+03	.000000E+00
115	0	.000000E+00	.600000E+03	-.650000E+03	.000000E+00
116	0	.750000E+01	.600000E+03	-.650000E+03	.000000E+00
117	0	.000000E+00	.620000E+03	-.650000E+03	.000000E+00
118	0	.750000E+01	.620000E+03	-.650000E+03	.000000E+00
119	0	.000000E+00	.640000E+03	-.650000E+03	.000000E+00
120	0	.750000E+01	.640000E+03	-.650000E+03	.000000E+00
121	0	.000000E+00	.660000E+03	-.650000E+03	.000000E+00
122	0	.750000E+01	.660000E+03	-.650000E+03	.000000E+00
123	0	.000000E+00	.680000E+03	-.650000E+03	.000000E+00
124	0	.750000E+01	.680000E+03	-.650000E+03	.000000E+00
125	0	.000000E+00	.700000E+03	-.650000E+03	.000000E+00
126	0	.750000E+01	.700000E+03	-.650000E+03	.000000E+00
127	0	.000000E+00	.720000E+03	-.650000E+03	.000000E+00
128	0	.750000E+01	.720000E+03	-.650000E+03	.000000E+00
129	0	.000000E+00	.740000E+03	-.650000E+03	.000000E+00
130	0	.750000E+01	.740000E+03	-.650000E+03	.000000E+00
131	0	.000000E+00	.760000E+03	-.650000E+03	.000000E+00
132	0	.750000E+01	.760000E+03	-.650000E+03	.000000E+00
133	0	.000000E+00	.780000E+03	-.650000E+03	.000000E+00
134	0	.750000E+01	.780000E+03	-.650000E+03	.000000E+00
135	0	.000000E+00	.800000E+03	-.650000E+03	.000000E+00
136	0	.750000E+01	.800000E+03	-.650000E+03	.000000E+00
137	0	.000000E+00	.820000E+03	-.650000E+03	.000000E+00
138	0	.750000E+01	.820000E+03	-.650000E+03	.000000E+00
139	0	.000000E+00	.840000E+03	-.650000E+03	.000000E+00
140	0	.750000E+01	.840000E+03	-.650000E+03	.000000E+00

141	0	.000000E+00	.860000E+03	-.650000E+03	.000000E+00
142	0	.750000E+01	.860000E+03	-.650000E+03	.000000E+00
143	0	.000000E+00	.880000E+03	-.650000E+03	.000000E+00
144	0	.750000E+01	.880000E+03	-.650000E+03	.000000E+00
145	0	.000000E+00	.900000E+03	-.650000E+03	.000000E+00
[illegible]	0	.750000E+01	.900000E+03	-.650000E+03	.000000E+00
[illegible]	0	.000000E+00	.920000E+03	-.650000E+03	.000000E+00
[illegible]	0	.750000E+01	.920000E+03	-.650000E+03	.000000E+00
149	0	.000000E+00	.940000E+03	-.200000E+04	.000000E+00
150	0	.750000E+01	.940000E+03	-.200000E+04	.000000E+00
151	0	.000000E+00	.960000E+03	-.200000E+04	.000000E+00
152	0	.750000E+01	.960000E+03	-.200000E+04	.000000E+00
153	0	.000000E+00	.980000E+03	-.200000E+04	.000000E+00
154	0	.750000E+01	.980000E+03	-.200000E+04	.000000E+00
155	0	.000000E+00	.100000E+04	-.200000E+04	.000000E+00
156	0	.750000E+01	.100000E+04	-.200000E+04	.000000E+00
157	0	.000000E+00	.102000E+04	-.200000E+04	.000000E+00
158	0	.750000E+01	.102000E+04	-.200000E+04	.000000E+00
159	0	.000000E+00	.104000E+04	-.200000E+04	.000000E+00
160	0	.750000E+01	.104000E+04	-.200000E+04	.000000E+00
161	0	.000000E+00	.106000E+04	-.200000E+04	.000000E+00
162	0	.750000E+01	.106000E+04	-.200000E+04	.000000E+00
163	0	.000000E+00	.108000E+04	-.200000E+04	.000000E+00
164	0	.750000E+01	.108000E+04	-.200000E+04	.000000E+00
165	0	.000000E+00	.110000E+04	-.200000E+04	.000000E+00
166	0	.750000E+01	.110000E+04	-.200000E+04	.000000E+00
167	0	.000000E+00	.112000E+04	-.200000E+04	.000000E+00
168	0	.750000E+01	.112000E+04	-.200000E+04	.000000E+00
169	0	.000000E+00	.114000E+04	-.200000E+04	.000000E+00
170	0	.750000E+01	.114000E+04	-.200000E+04	.000000E+00
171	0	.000000E+00	.116000E+04	-.200000E+04	.000000E+00
172	0	.750000E+01	.116000E+04	-.200000E+04	.000000E+00
[illegible]	0	.000000E+00	.118000E+04	-.200000E+04	.000000E+00
[illegible]	0	.750000E+01	.118000E+04	-.200000E+04	.000000E+00
175	0	.000000E+00	.120000E+04	-.200000E+04	.000000E+00
176	0	.750000E+01	.120000E+04	-.200000E+04	.000000E+00
177	0	.000000E+00	.122000E+04	-.200000E+04	.000000E+00
178	0	.750000E+01	.122000E+04	-.200000E+04	.000000E+00
179	0	.000000E+00	.124000E+04	-.200000E+04	.000000E+00
180	0	.750000E+01	.124000E+04	-.200000E+04	.000000E+00
181	0	.000000E+00	.126000E+04	-.200000E+04	.000000E+00
182	0	.750000E+01	.126000E+04	-.200000E+04	.000000E+00
183	0	.000000E+00	.128000E+04	-.200000E+04	.000000E+00
184	0	.750000E+01	.128000E+04	-.200000E+04	.000000E+00
185	0	.000000E+00	.130000E+04	-.200000E+04	.000000E+00
186	0	.750000E+01	.130000E+04	-.200000E+04	.000000E+00
187	0	.000000E+00	.132000E+04	-.200000E+04	.000000E+00
188	0	.750000E+01	.132000E+04	-.200000E+04	.000000E+00
189	0	.000000E+00	.134000E+04	-.200000E+04	.000000E+00
190	0	.750000E+01	.134000E+04	-.200000E+04	.000000E+00
191	0	.000000E+00	.136000E+04	-.200000E+04	.000000E+00
192	0	.750000E+01	.136000E+04	-.200000E+04	.000000E+00
193	0	.000000E+00	.138000E+04	-.200000E+04	.000000E+00
194	0	.750000E+01	.138000E+04	-.200000E+04	.000000E+00
195	0	.000000E+00	.140000E+04	-.200000E+04	.000000E+00
196	0	.750000E+01	.140000E+04	-.200000E+04	.000000E+00
197	0	.000000E+00	.142000E+04	-.200000E+04	.000000E+00
[illegible]	0	.750000E+01	.142000E+04	-.200000E+04	.000000E+00
199	0	.000000E+00	.144000E+04	-.200000E+04	.000000E+00
200	0	.750000E+01	.144000E+04	-.200000E+04	.000000E+00
201	0	.000000E+00	.146000E+04	-.200000E+04	.000000E+00
202	0	.750000E+01	.146000E+04	-.200000E+04	.000000E+00

203	0	.000000E+00	.148000E+04	-.200000E+04	.000000E+00
204	0	.750000E+01	.148000E+04	-.200000E+04	.000000E+00
205	0	.000000E+00	.150000E+04	-.200000E+04	.000000E+00
206	0	.750000E+01	.150000E+04	-.200000E+04	.000000E+00
207	0	.000000E+00	.152000E+04	-.200000E+04	.000000E+00
208	0	.750000E+01	.152000E+04	-.200000E+04	.000000E+00
209	0	.000000E+00	.154000E+04	-.200000E+04	.000000E+00
210	0	.750000E+01	.154000E+04	-.200000E+04	.000000E+00
211	0	.000000E+00	.156000E+04	-.200000E+04	.000000E+00
212	0	.750000E+01	.156000E+04	-.200000E+04	.000000E+00
213	0	.000000E+00	.158000E+04	-.200000E+04	.000000E+00
214	0	.750000E+01	.158000E+04	-.200000E+04	.000000E+00
215	0	.000000E+00	.160000E+04	-.200000E+04	.000000E+00
216	0	.750000E+01	.160000E+04	-.200000E+04	.000000E+00
217	0	.000000E+00	.162000E+04	-.200000E+04	.000000E+00
218	0	.750000E+01	.162000E+04	-.200000E+04	.000000E+00
219	0	.000000E+00	.164000E+04	-.200000E+04	.000000E+00
220	0	.750000E+01	.164000E+04	-.200000E+04	.000000E+00
221	0	.000000E+00	.166000E+04	-.200000E+04	.000000E+00
222	0	.750000E+01	.166000E+04	-.200000E+04	.000000E+00
223	0	.000000E+00	.168000E+04	-.200000E+04	.324000E-02
224	0	.750000E+01	.168000E+04	-.200000E+04	.324000E-02

ELEMENT INFORMATION

ELEMENT	C O R N E R	N O D E S			MATERIAL	ANGLE
1	1	2	4	3	1	.000E+00
2	3	4	6	5	1	.000E+00
3	5	6	8	7	1	.000E+00
4	7	8	10	9	1	.000E+00
5	9	10	12	11	1	.000E+00
6	11	12	14	13	1	.000E+00
7	13	14	16	15	1	.000E+00
8	15	16	18	17	1	.000E+00
9	17	18	20	19	1	.000E+00
10	19	20	22	21	1	.000E+00
11	21	22	24	23	1	.000E+00
12	23	24	26	25	1	.000E+00
13	25	26	28	27	1	.000E+00
14	27	28	30	29	1	.000E+00
15	29	30	32	31	1	.000E+00
16	31	32	34	33	1	.000E+00
17	33	34	36	35	1	.000E+00
18	35	36	38	37	1	.000E+00
19	37	38	40	39	1	.000E+00
20	39	40	42	41	1	.000E+00
21	41	42	44	43	1	.000E+00
22	43	44	46	45	1	.000E+00
23	45	46	48	47	1	.000E+00
24	47	48	50	49	1	.000E+00
25	49	50	52	51	1	.000E+00
26	51	52	54	53	1	.000E+00
27	53	54	56	55	1	.000E+00
28	55	56	58	57	1	.000E+00
29	57	58	60	59	1	.000E+00
30	59	60	62	61	1	.000E+00
31	61	62	64	63	1	.000E+00
32	63	64	66	65	1	.000E+00

33	65	66	68	67	1	.000E+00
34	67	68	70	69	1	.000E+00
35	69	70	72	71	1	.000E+00
36	71	72	74	73	2	.000E+00
37	73	74	76	75	2	.000E+00
38	75	76	78	77	2	.000E+00
3[illegible]	77	78	80	79	2	.000E+00
40	79	80	82	81	2	.000E+00
41	81	82	84	83	2	.000E+00
42	83	84	86	85	2	.000E+00
43	85	86	88	87	2	.000E+00
44	87	88	90	89	2	.000E+00
45	89	90	92	91	2	.000E+00
46	91	92	94	93	2	.000E+00
47	93	94	96	95	2	.000E+00
48	95	96	98	97	2	.000E+00
49	97	98	100	99	2	.000E+00
50	99	100	102	101	2	.000E+00
51	101	102	104	103	2	.000E+00
52	103	104	106	105	2	.000E+00
53	105	106	108	107	2	.000E+00
54	107	108	110	109	2	.000E+00
55	109	110	112	111	2	.000E+00
56	111	112	114	113	2	.000E+00
57	113	114	116	115	2	.000E+00
58	115	116	118	117	2	.000E+00
59	117	118	120	119	2	.000E+00
60	119	120	122	121	2	.000E+00
61	121	122	124	123	2	.000E+00
62	123	124	126	125	2	.000E+00
63	125	126	128	127	2	.000E+00
6[illegible]	127	128	130	129	2	.000E+00
[illegible]	129	130	132	131	2	.000E+00
66	131	132	134	133	2	.000E+00
67	133	134	136	135	2	.000E+00
68	135	136	138	137	2	.000E+00
69	137	138	140	139	2	.000E+00
70	139	140	142	141	2	.000E+00
71	141	142	144	143	2	.000E+00
72	143	144	146	145	2	.000E+00
73	145	146	148	147	2	.000E+00
74	147	148	150	149	3	.000E+00
75	149	150	152	151	3	.000E+00
76	151	152	154	153	3	.000E+00
77	153	154	156	155	3	.000E+00
78	155	156	158	157	3	.000E+00
79	157	158	160	159	3	.000E+00
80	159	160	162	161	3	.000E+00
81	161	162	164	163	3	.000E+00
82	163	164	166	165	3	.000E+00
83	165	166	168	167	3	.000E+00
84	167	168	170	169	3	.000E+00
85	169	170	172	171	3	.000E+00
86	171	172	174	173	3	.000E+00
87	173	174	176	175	3	.000E+00
88	175	176	178	177	3	.000E+00
[illegible]	177	178	180	179	3	.000E+00
[illegible]	179	180	182	181	3	.000E+00
91	181	182	184	183	3	.000E+00
92	183	184	186	185	3	.000E+00
93	185	186	188	187	3	.000E+00
94	187	188	190	189	3	.000E+00

95	189	190	192	191	3	.000E+00
96	191	192	194	193	3	.000E+00
97	193	194	196	195	3	.000E+00
98	195	196	198	197	3	.000E+00
99	197	198	200	199	3	.000E+00
100	199	200	202	201	3	.000E+00
101	201	202	204	203	3	.000E+00
102	203	204	206	205	3	.000E+00
103	205	206	208	207	3	.000E+00
104	207	208	210	209	3	.000E+00
105	209	210	212	211	3	.000E+00
106	211	212	214	213	3	.000E+00
107	213	214	216	215	3	.000E+00
108	215	216	218	217	3	.000E+00
109	217	218	220	219	3	.000E+00
110	219	220	222	221	3	.000E+00
111	221	222	224	223	3	.000E+00

GREEN RIVER: 1) GRN5420 93% 2) GRN5350 95% 3) GRN5350 95%; 1.0E-08cm/s cover flux

TIME = 5.0000 TIME STEP = 1

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .13880E+03 AT NODE 149

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 3 WAS .16151E+02 AT NODE 152

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 4 WAS .30201E+01 AT NODE 149

CUMULATIVE INFLOW INTO SYSTEM IS = .11770E+02
CUMULATIVE OUTFLOW FROM SYSTEM IS = .00000E+00
CUMULATIVE CHANGE IN SYSTEM IS = .11770E+02

NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.42000E+03	-.42000E+03	.10504E+01	2	-.42000E+03	-.42000E+03	.12971E+01	3	-.43141E+03	-.43641E+03	.00000E+00
4	-.43021E+03	-.43521E+03	.00000E+00	5	-.44888E+03	-.45888E+03	.00000E+00	6	-.44848E+03	-.45848E+03	.00000E+00
7	-.46504E+03	-.48004E+03	.00000E+00	8	-.46489E+03	-.47989E+03	.00000E+00	9	-.47965E+03	-.49965E+03	.00000E+00
10	-.47958E+03	-.49958E+03	.00000E+00	11	-.49262E+03	-.51762E+03	.00000E+00	12	-.49258E+03	-.51758E+03	.00000E+00
13	-.50395E+03	-.53395E+03	.00000E+00	14	-.50392E+03	-.53392E+03	.00000E+00	15	-.51367E+03	-.54867E+03	.00000E+00
16	-.51365E+03	-.54865E+03	.00000E+00	17	-.52185E+03	-.56185E+03	.00000E+00	18	-.52183E+03	-.56183E+03	.00000E+00
19	-.52857E+03	-.57357E+03	.00000E+00	20	-.52856E+03	-.57356E+03	.00000E+00	21	-.53394E+03	-.58394E+03	.00000E+00
22	-.53393E+03	-.58393E+03	.00000E+00	23	-.53805E+03	-.59305E+03	.00000E+00	24	-.53804E+03	-.59304E+03	.00[illegible]0
25	-.54102E+03	-.60102E+03	.00000E+00	26	-.54101E+03	-.60101E+03	.00000E+00	27	-.54297E+03	-.60797E+03	.00[illegible]0
28	-.54296E+03	-.60796E+03	.00000E+00	29	-.54399E+03	-.61399E+03	.00000E+00	30	-.54399E+03	-.61399E+03	.00000E+00
31	-.54421E+03	-.61921E+03	.00000E+00	32	-.54421E+03	-.61921E+03	.00000E+00	33	-.54370E+03	-.62370E+03	.00000E+00
34	-.54370E+03	-.62370E+03	.00000E+00	35	-.54257E+03	-.62757E+03	.00000E+00	36	-.54257E+03	-.62757E+03	.00000E+00
37	-.54089E+03	-.63089E+03	.00000E+00	38	-.54089E+03	-.63089E+03	.00000E+00	39	-.53873E+03	-.63373E+03	.00000E+00

40	-.53873E+03	-.63373E+03	.00000E+00	41	-.53617E+03	-.63617E+03	.00000E+00	42	-.53617E+03	-.63617E+03	.00000E+00
43	-.53324E+03	-.63824E+03	.00000E+00	44	-.53324E+03	-.63824E+03	.00000E+00	45	-.53001E+03	-.64001E+03	.00000E+00
46	-.53001E+03	-.64001E+03	.00000E+00	47	-.52652E+03	-.64152E+03	.00000E+00	48	-.52652E+03	-.64152E+03	.00000E+00
49	-.52280E+03	-.64280E+03	.00000E+00	50	-.52280E+03	-.64280E+03	.00000E+00	51	-.51890E+03	-.64390E+03	.00000E+00
52	-.51890E+03	-.64390E+03	.00000E+00	53	-.51482E+03	-.64482E+03	.00000E+00	54	-.51482E+03	-.64482E+03	.00000E+00
55	[illegible]061E+03	-.64561E+03	.00000E+00	56	-.51061E+03	-.64561E+03	.00000E+00	57	-.50628E+03	-.64628E+03	.00000E+00
58	[illegible]28E+03	-.64628E+03	.00000E+00	59	-.50185E+03	-.64685E+03	.00000E+00	60	-.50185E+03	-.64685E+03	.00000E+00
61	[illegible]733E+03	-.64733E+03	.00000E+00	62	-.49733E+03	-.64733E+03	.00000E+00	63	-.49274E+03	-.64774E+03	.00000E+00
64	-.49274E+03	-.64774E+03	.00000E+00	65	-.48809E+03	-.64809E+03	.00000E+00	66	-.48809E+03	-.64809E+03	.00000E+00
67	-.48339E+03	-.64839E+03	.00000E+00	68	-.48339E+03	-.64839E+03	.00000E+00	69	-.47864E+03	-.64864E+03	.00000E+00
70	-.47864E+03	-.64864E+03	.00000E+00	71	-.47385E+03	-.64885E+03	.00000E+00	72	-.47385E+03	-.64885E+03	.00000E+00
73	-.46904E+03	-.64904E+03	.00000E+00	74	-.46903E+03	-.64903E+03	.00000E+00	75	-.44950E+03	-.64950E+03	.00000E+00
76	-.44950E+03	-.64950E+03	.00000E+00	77	-.42974E+03	-.64974E+03	.00000E+00	78	-.42974E+03	-.64974E+03	.00000E+00
79	-.40987E+03	-.64987E+03	.00000E+00	80	-.40987E+03	-.64987E+03	.00000E+00	81	-.38993E+03	-.64993E+03	.00000E+00
82	-.38993E+03	-.64993E+03	.00000E+00	83	-.36996E+03	-.64996E+03	.00000E+00	84	-.36996E+03	-.64996E+03	.00000E+00
85	-.34998E+03	-.64998E+03	.00000E+00	86	-.34998E+03	-.64998E+03	.00000E+00	87	-.32999E+03	-.64999E+03	.00000E+00
88	-.32999E+03	-.64999E+03	.00000E+00	89	-.31000E+03	-.65000E+03	.00000E+00	90	-.31000E+03	-.65000E+03	.00000E+00
91	-.29000E+03	-.65000E+03	.00000E+00	92	-.29000E+03	-.65000E+03	.00000E+00	93	-.27000E+03	-.65000E+03	.00000E+00
94	-.27000E+03	-.65000E+03	.00000E+00	95	-.25000E+03	-.65000E+03	.00000E+00	96	-.25000E+03	-.65000E+03	.00000E+00
97	-.23000E+03	-.65000E+03	.00000E+00	98	-.23000E+03	-.65000E+03	.00000E+00	99	-.21000E+03	-.65000E+03	.00000E+00
100	-.21000E+03	-.65000E+03	.00000E+00	101	-.19000E+03	-.65000E+03	.00000E+00	102	-.19000E+03	-.65000E+03	.00000E+00
103	-.17000E+03	-.65000E+03	.00000E+00	104	-.17000E+03	-.65000E+03	.00000E+00	105	-.15000E+03	-.65000E+03	.00000E+00
106	-.15000E+03	-.65000E+03	.00000E+00	107	-.13000E+03	-.65000E+03	.00000E+00	108	-.13000E+03	-.65000E+03	.00000E+00
109	-.11000E+03	-.65000E+03	.00000E+00	110	-.11000E+03	-.65000E+03	.00000E+00	111	-.90004E+02	-.65000E+03	.00000E+00
112	-.90003E+02	-.65000E+03	.00000E+00	113	-.70006E+02	-.65001E+03	.00000E+00	114	-.70006E+02	-.65001E+03	.00000E+00
115	-.50010E+02	-.65001E+03	.00000E+00	116	-.50010E+02	-.65001E+03	.00000E+00	117	-.30018E+02	-.65002E+03	.00000E+00
118	-.30018E+02	-.65002E+03	.00000E+00	119	-.10032E+02	-.65003E+03	.00000E+00	120	-.10032E+02	-.65003E+03	.00000E+00
121	.99432E+01	-.65006E+03	.00000E+00	122	.99433E+01	-.65006E+03	.00000E+00	123	.29898E+02	-.65010E+03	.00000E+00
124	.29898E+02	-.65010E+03	.00000E+00	125	.49816E+02	-.65018E+03	.00000E+00	126	.49816E+02	-.65018E+03	.00000E+00
127	.69670E+02	-.65033E+03	.00000E+00	128	.69671E+02	-.65033E+03	.00000E+00	129	.89408E+02	-.65059E+03	.00000E+00
130	.89408E+02	-.65059E+03	.00000E+00	131	.10893E+03	-.65107E+03	.00000E+00	132	.10894E+03	-.65106E+03	.00000E+00
133	[illegible]2808E+03	-.65192E+03	.00000E+00	134	.12808E+03	-.65192E+03	.00000E+00	135	.14654E+03	-.65346E+03	.00000E+00
136	[illegible]654E+03	-.65346E+03	.00000E+00	137	.16374E+03	-.65626E+03	.00000E+00	138	.16375E+03	-.65625E+03	.00000E+00
139	[illegible]17865E+03	-.66135E+03	.00000E+00	140	.17865E+03	-.66135E+03	.00000E+00	141	.18923E+03	-.67077E+03	.00000E+00
142	.18923E+03	-.67077E+03	.00000E+00	143	.19145E+03	-.68855E+03	.00000E+00	144	.19143E+03	-.68857E+03	.00000E+00
145	.17640E+03	-.72360E+03	.00000E+00	146	.17624E+03	-.72376E+03	.00000E+00	147	.12150E+03	-.79850E+03	.00000E+00
148	.11891E+03	-.80109E+03	.00000E+00	149	-.21499E+03	-.11550E+04	.00000E+00	150	-.21069E+03	-.11507E+04	.00000E+00
151	-.93762E+03	-.18976E+04	.00000E+00	152	-.93095E+03	-.18909E+04	.00000E+00	153	-.10127E+04	-.19927E+04	.00000E+00
154	-.10124E+04	-.19924E+04	.00000E+00	155	-.99951E+03	-.19995E+04	.00000E+00	156	-.99950E+03	-.19995E+04	.00000E+00
157	-.97997E+03	-.20000E+04	.00000E+00	158	-.97997E+03	-.20000E+04	.00000E+00	159	-.96000E+03	-.20000E+04	.00000E+00
160	-.96000E+03	-.20000E+04	.00000E+00	161	-.94000E+03	-.20000E+04	.00000E+00	162	-.94000E+03	-.20000E+04	.00000E+00
163	-.92000E+03	-.20000E+04	.00000E+00	164	-.92000E+03	-.20000E+04	.00000E+00	165	-.90000E+03	-.20000E+04	.00000E+00
166	-.90000E+03	-.20000E+04	.00000E+00	167	-.88000E+03	-.20000E+04	.00000E+00	168	-.88000E+03	-.20000E+04	.00000E+00
169	-.86000E+03	-.20000E+04	.00000E+00	170	-.86000E+03	-.20000E+04	.00000E+00	171	-.84000E+03	-.20000E+04	.00000E+00
172	-.84000E+03	-.20000E+04	.00000E+00	173	-.82000E+03	-.20000E+04	.00000E+00	174	-.82000E+03	-.20000E+04	.00000E+00
175	-.80000E+03	-.20000E+04	.00000E+00	176	-.80000E+03	-.20000E+04	.00000E+00	177	-.78000E+03	-.20000E+04	.00000E+00
178	-.78000E+03	-.20000E+04	.00000E+00	179	-.76000E+03	-.20000E+04	.00000E+00	180	-.76000E+03	-.20000E+04	.00000E+00
181	-.74000E+03	-.20000E+04	.00000E+00	182	-.74000E+03	-.20000E+04	.00000E+00	183	-.72000E+03	-.20000E+04	.00000E+00
184	-.72000E+03	-.20000E+04	.00000E+00	185	-.70000E+03	-.20000E+04	.00000E+00	186	-.70000E+03	-.20000E+04	.00000E+00
187	-.68000E+03	-.20000E+04	.00000E+00	188	-.68000E+03	-.20000E+04	.00000E+00	189	-.66000E+03	-.20000E+04	.00000E+00
190	-.66000E+03	-.20000E+04	.00000E+00	191	-.64000E+03	-.20000E+04	.00000E+00	192	-.64000E+03	-.20000E+04	.00000E+00
193	-.62000E+03	-.20000E+04	.00000E+00	194	-.62000E+03	-.20000E+04	.00000E+00	195	-.60000E+03	-.20000E+04	.00000E+00
196	-.60000E+03	-.20000E+04	.00000E+00	197	-.58000E+03	-.20000E+04	.00000E+00	198	-.58000E+03	-.20000E+04	.00000E+00
199	-.56000E+03	-.20000E+04	.00000E+00	200	-.56000E+03	-.20000E+04	.00000E+00	201	-.54000E+03	-.20000E+04	.00000E+00
202	-.54000E+03	-.20000E+04	.00000E+00	203	-.52000E+03	-.20000E+04	.00000E+00	204	-.52000E+03	-.20000E+04	.00000E+00
205	-.50000E+03	-.20000E+04	.00000E+00	206	-.50000E+03	-.20000E+04	.00000E+00	207	-.48000E+03	-.20000E+04	.00000E+00
208	[illegible]8000E+03	-.20000E+04	.00000E+00	209	-.46000E+03	-.20000E+04	.00000E+00	210	-.46000E+03	-.20000E+04	.00000E+00
211	[illegible]4000E+03	-.20000E+04	.00000E+00	212	-.44000E+03	-.20000E+04	.00000E+00	213	-.42000E+03	-.20000E+04	.00000E+00
214	-.42000E+03	-.20000E+04	.00000E+00	215	-.40000E+03	-.20000E+04	.00000E+00	216	-.40000E+03	-.20000E+04	.00000E+00
217	-.37999E+03	-.20000E+04	.00000E+00	218	-.37999E+03	-.20000E+04	.00000E+00	219	-.35987E+03	-.19999E+04	.00000E+00
220	-.35988E+03	-.19999E+04	.00000E+00	221	-.33809E+03	-.19981E+04	.00000E+00	222	-.33822E+03	-.19982E+04	.00000E+00
223	-.29074E+03	-.19707E+04	.32400E-02	224	-.29596E+03	-.19760E+04	.32400E-02	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.18403E+00	2	.18403E+00	3	.17879E+00	4	.17916E+00	5	.17199E+00	6	.17211E+00
7	.16598E+00	8	.16602E+00	9	.16073E+00	10	.16075E+00	11	.15616E+00	12	.15617E+00
13	.15222E+00	14	.15222E+00	15	.14881E+00	16	.14882E+00	17	.14588E+00	18	.14589E+00
19	.14337E+00	20	.14337E+00	21	.14121E+00	22	.14122E+00	23	.13937E+00	24	.13937E+00
25	.13780E+00	26	.13780E+00	27	.13645E+00	28	.13645E+00	29	.13530E+00	30	.13530E+00
31	.13433E+00	32	.13433E+00	33	.13350E+00	34	.13350E+00	35	.13279E+00	36	.13279E+00
37	.13219E+00	38	.13219E+00	39	.13168E+00	40	.13168E+00	41	.13125E+00	42	.13125E+00
43	.13088E+00	44	.13088E+00	45	.13057E+00	46	.13057E+00	47	.13030E+00	48	.13030E+00
49	.13008E+00	50	.13008E+00	51	.12989E+00	52	.12989E+00	53	.12973E+00	54	.12973E+00
55	.12959E+00	56	.12959E+00	57	.12948E+00	58	.12948E+00	59	.12938E+00	60	.12938E+00
61	.12930E+00	62	.12930E+00	63	.12922E+00	64	.12922E+00	65	.12917E+00	66	.12917E+00
67	.12911E+00	68	.12911E+00	69	.12907E+00	70	.12907E+00	71	.12903E+00	72	.12903E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.12903E+00	72	.12903E+00	73	.12900E+00	74	.12900E+00	75	.12892E+00	76	.12892E+00
77	.12888E+00	78	.12888E+00	79	.12886E+00	80	.12886E+00	81	.12885E+00	82	.12885E+00
83	.12884E+00	84	.12884E+00	85	.12884E+00	86	.12884E+00	87	.12884E+00	88	.12884E+00
89	.12884E+00	90	.12884E+00	91	.12884E+00	92	.12884E+00	93	.12884E+00	94	.12884E+00
95	.12884E+00	96	.12884E+00	97	.12884E+00	98	.12884E+00	99	.12884E+00	100	.12884E+00
101	.12884E+00	102	.12884E+00	103	.12884E+00	104	.12884E+00	105	.12884E+00	106	.12884E+00
107	.12884E+00	108	.12884E+00	109	.12884E+00	110	.12884E+00	111	.12884E+00	112	.12884E+00
113	.12884E+00	114	.12884E+00	115	.12884E+00	116	.12884E+00	117	.12884E+00	118	.12884E+00
119	.12883E+00	120	.12883E+00	121	.12883E+00	122	.12883E+00	123	.12882E+00	124	.12882E+00
125	.12881E+00	126	.12881E+00	127	.12878E+00	128	.12878E+00	129	.12874E+00	130	.12874E+00
131	.12866E+00	132	.12866E+00	133	.12851E+00	134	.12851E+00	135	.12825E+00	136	.12825E+00
137	.12778E+00	138	.12778E+00	139	.12693E+00	140	.12693E+00	141	.12538E+00	142	.12538E+00
143	.12257E+00	144	.12257E+00	145	.11740E+00	146	.11738E+00	147	.10777E+00	148	.10747E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.95509E-01	148	.95239E-01	149	.70671E-01	150	.70869E-01	151	.51193E-01	152	.51292E-01
153	.49870E-01	154	.49873E-01	155	.49780E-01	156	.49780E-01	157	.49774E-01	158	.49774E-01
159	.49774E-01	160	.49774E-01	161	.49773E-01	162	.49773E-01	163	.49773E-01	164	.49773E-01
165	.49773E-01	166	.49773E-01	167	.49773E-01	168	.49773E-01	169	.49773E-01	170	.49773E-01
171	.49773E-01	172	.49773E-01	173	.49773E-01	174	.49773E-01	175	.49773E-01	176	.49773E-01
177	.49773E-01	178	.49773E-01	179	.49773E-01	180	.49773E-01	181	.49773E-01	182	.49773E-01
183	.49773E-01	184	.49773E-01	185	.49773E-01	186	.49773E-01	187	.49773E-01	188	.49773E-01
189	.49773E-01	190	.49773E-01	191	.49773E-01	192	.49773E-01	193	.49773E-01	194	.49773E-01
195	.49773E-01	196	.49773E-01	197	.49773E-01	198	.49773E-01	199	.49773E-01	200	.49773E-01
201	.49773E-01	202	.49773E-01	203	.49773E-01	204	.49773E-01	205	.49773E-01	206	.49773E-01
207	.49773E-01	208	.49773E-01	209	.49773E-01	210	.49773E-01	211	.49773E-01	212	.49773E-01
213	.49773E-01	214	.49773E-01	215	.49774E-01	216	.49774E-01	217	.49774E-01	218	.49774E-01
219	.49775E-01	220	.49775E-01	221	.49798E-01	222	.49797E-01	223	.50162E-01	224	.50092E-01

GREEN RIVER: 1) GRN5420@93% 2) GRN5350@95% 3) GRN5350@95%; 1.0E-08cm/s cover flux

TIME = 67857.5900 TIME STEP = 150

AXIMU[illegible]ANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .27222E-01 AT NODE 113

CUMULATIVE INFLOW INTO SYSTEM IS = .47029E+03
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.49539E+03
CUMULATIVE CHANGE IN SYSTEM IS = -.25106E+02

NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.42000E+03	-.42000E+03	-.31556E-02	2	-.42000E+03	-.42000E+03	-.31965E-02	3	-.41998E+03	-.42498E+03	.00000E+00
4	-.41998E+03	-.42498E+03	.00000E+00	5	-.41996E+03	-.42996E+03	.00000E+00	6	-.41996E+03	-.42996E+03	.00000E+00
7	-.41994E+03	-.43494E+03	.00000E+00	8	-.41994E+03	-.43494E+03	.00000E+00	9	-.41991E+03	-.43991E+03	.00000E+00
10	-.41991E+03	-.43991E+03	.00000E+00	11	-.41989E+03	-.44489E+03	.00000E+00	12	-.41989E+03	-.44489E+03	.00000E+00
13	-.41986E+03	-.44986E+03	.00000E+00	14	-.41986E+03	-.44986E+03	.00000E+00	15	-.41984E+03	-.45484E+03	.00000E+00
16	-.41984E+03	-.45484E+03	.00000E+00	17	-.41981E+03	-.45981E+03	.00000E+00	18	-.41981E+03	-.45981E+03	.00000E+00
19	-.41978E+03	-.46478E+03	.00000E+00	20	-.41978E+03	-.46478E+03	.00000E+00	21	-.41975E+03	-.46975E+03	.00000E+00
22	-.41975E+03	-.46975E+03	.00000E+00	23	-.41972E+03	-.47472E+03	.00000E+00	24	-.41972E+03	-.47472E+03	.00000E+00
25	-.41969E+03	-.47969E+03	.00000E+00	26	-.41969E+03	-.47969E+03	.00000E+00	27	-.41965E+03	-.48465E+03	.00000E+00
28	-.41965E+03	-.48465E+03	.00000E+00	29	-.41962E+03	-.48962E+03	.00000E+00	30	-.41962E+03	-.48962E+03	.00000E+00
31	-.41958E+03	-.49458E+03	.00000E+00	32	-.41958E+03	-.49458E+03	.00000E+00	33	-.41954E+03	-.49954E+03	.00000E+00
34	-.41954E+03	-.49954E+03	.00000E+00	35	-.41950E+03	-.50450E+03	.00000E+00	36	-.41950E+03	-.50450E+03	.00000E+00
37	[illegible]1946E+03	-.50946E+03	.00000E+00	38	-.41946E+03	-.50946E+03	.00000E+00	39	-.41942E+03	-.51442E+03	.00000E+00
40	[illegible]942E+03	-.51442E+03	.00000E+00	41	-.41937E+03	-.51937E+03	.00000E+00	42	-.41937E+03	-.51937E+03	.00000E+00
43	[illegible]41932E+03	-.52432E+03	.00000E+00	44	-.41932E+03	-.52432E+03	.00000E+00	45	-.41927E+03	-.52927E+03	.00000E+00
46	-.41927E+03	-.52927E+03	.00000E+00	47	-.41922E+03	-.53422E+03	.00000E+00	48	-.41922E+03	-.53422E+03	.00000E+00
49	-.41917E+03	-.53917E+03	.00000E+00	50	-.41917E+03	-.53917E+03	.00000E+00	51	-.41911E+03	-.54411E+03	.00000E+00
52	-.41911E+03	-.54411E+03	.00000E+00	53	-.41905E+03	-.54905E+03	.00000E+00	54	-.41905E+03	-.54905E+03	.00000E+00
55	-.41899E+03	-.55399E+03	.00000E+00	56	-.41899E+03	-.55399E+03	.00000E+00	57	-.41893E+03	-.55893E+03	.00000E+00
58	-.41893E+03	-.55893E+03	.00000E+00	59	-.41886E+03	-.56386E+03	.00000E+00	60	-.41886E+03	-.56386E+03	.00000E+00
61	-.41879E+03	-.56879E+03	.00000E+00	62	-.41879E+03	-.56879E+03	.00000E+00	63	-.41872E+03	-.57372E+03	.00000E+00
64	-.41872E+03	-.57372E+03	.00000E+00	65	-.41865E+03	-.57865E+03	.00000E+00	66	-.41865E+03	-.57865E+03	.00000E+00
67	-.41857E+03	-.58357E+03	.00000E+00	68	-.41857E+03	-.58357E+03	.00000E+00	69	-.41850E+03	-.58850E+03	.00000E+00
70	-.41850E+03	-.58850E+03	.00000E+00	71	-.41841E+03	-.59341E+03	.00000E+00	72	-.41841E+03	-.59341E+03	.00000E+00
73	-.41833E+03	-.59833E+03	.00000E+00	74	-.41833E+03	-.59833E+03	.00000E+00	75	-.41796E+03	-.61796E+03	.00000E+00
76	-.41796E+03	-.61796E+03	.00000E+00	77	-.41753E+03	-.63753E+03	.00000E+00	78	-.41753E+03	-.63753E+03	.00000E+00
79	-.41704E+03	-.65704E+03	.00000E+00	80	-.41704E+03	-.65704E+03	.00000E+00	81	-.41647E+03	-.67647E+03	.00000E+00
82	-.41647E+03	-.67647E+03	.00000E+00	83	-.41583E+03	-.69583E+03	.00000E+00	84	-.41583E+03	-.69583E+03	.00000E+00
85	-.41511E+03	-.71511E+03	.00000E+00	86	-.41511E+03	-.71511E+03	.00000E+00	87	-.41428E+03	-.73428E+03	.00000E+00
88	-.41428E+03	-.73428E+03	.00000E+00	89	-.41335E+03	-.75335E+03	.00000E+00	90	-.41335E+03	-.75335E+03	.00000E+00
91	-.41231E+03	-.77231E+03	.00000E+00	92	-.41231E+03	-.77231E+03	.00000E+00	93	-.41113E+03	-.79113E+03	.00000E+00
94	-.41113E+03	-.79113E+03	.00000E+00	95	-.40982E+03	-.80982E+03	.00000E+00	96	-.40982E+03	-.80982E+03	.00000E+00
97	-.40835E+03	-.82835E+03	.00000E+00	98	-.40835E+03	-.82835E+03	.00000E+00	99	-.40672E+03	-.84672E+03	.00000E+00
100	-.40672E+03	-.84672E+03	.00000E+00	101	-.40491E+03	-.86491E+03	.00000E+00	102	-.40491E+03	-.86491E+03	.00000E+00
103	-.40291E+03	-.88291E+03	.00000E+00	104	-.40291E+03	-.88291E+03	.00000E+00	105	-.40071E+03	-.90071E+03	.00000E+00
106	-.40071E+03	-.90071E+03	.00000E+00	107	-.39829E+03	-.91829E+03	.00000E+00	108	-.39829E+03	-.91829E+03	.00000E+00
109	-.39564E+03	-.93564E+03	.00000E+00	110	-.39564E+03	-.93564E+03	.00000E+00	111	-.39273E+03	-.95273E+03	.00000E+00
112	[illegible]9273E+03	-.95273E+03	.00000E+00	113	-.38957E+03	-.96957E+03	.00000E+00	114	-.38957E+03	-.96957E+03	.00000E+00
[illegible]	[illegible]8613E+03	-.98613E+03	.00000E+00	116	-.38613E+03	-.98613E+03	.00000E+00	117	-.38240E+03	-.10024E+04	.00000E+00
118	-.38240E+03	-.10024E+04	.00000E+00	119	-.37836E+03	-.10184E+04	.00000E+00	120	-.37836E+03	-.10184E+04	.00000E+00
121	-.37401E+03	-.10340E+04	.00000E+00	122	-.37401E+03	-.10340E+04	.00000E+00	123	-.36932E+03	-.10493E+04	.00000E+00
124	-.36932E+03	-.10493E+04	.00000E+00	125	-.36429E+03	-.10643E+04	.00000E+00	126	-.36429E+03	-.10643E+04	.00000E+00
127	-.35890E+03	-.10789E+04	.00000E+00	128	-.35890E+03	-.10789E+04	.00000E+00	129	-.35315E+03	-.10932E+04	.00000E+00

130	-.35315E+03	-.10932E+04	.00000E+00	131	-.34702E+03	-.11070E+04	.00000E+00	132	-.34702E+03	-.11070E+04	.00000E+00
133	-.34051E+03	-.11205E+04	.00000E+00	134	-.34051E+03	-.11205E+04	.00000E+00	135	-.33361E+03	-.11336E+04	.00000E+00
136	-.33361E+03	-.11336E+04	.00000E+00	137	-.32630E+03	-.11463E+04	.00000E+00	138	-.32630E+03	-.11463E+04	.00000E+00
139	-.31859E+03	-.11586E+04	.00000E+00	140	-.31859E+03	-.11586E+04	.00000E+00	141	-.31048E+03	-.11705E+04	.00000E+00
142	-.31048E+03	-.11705E+04	.00000E+00	143	-.30195E+03	-.11819E+04	.00000E+00	144	-.30195E+03	-.11819E+04	.00000E+00
145	-.29301E+03	-.11930E+04	.00000E+00	146	-.29301E+03	-.11930E+04	.00000E+00	147	-.28365E+03	-.12036E+04	.000[illegible]
148	-.28365E+03	-.12037E+04	.00000E+00	149	-.26881E+03	-.12088E+04	.00000E+00	150	-.26881E+03	-.12088E+04	.00[illegible]
151	-.25365E+03	-.12136E+04	.00000E+00	152	-.25365E+03	-.12136E+04	.00000E+00	153	-.23817E+03	-.12182E+04	.00000E+00
154	-.23817E+03	-.12182E+04	.00000E+00	155	-.22240E+03	-.12224E+04	.00000E+00	156	-.22240E+03	-.12224E+04	.00000E+00
157	-.20635E+03	-.12264E+04	.00000E+00	158	-.20635E+03	-.12264E+04	.00000E+00	159	-.19004E+03	-.12300E+04	.00000E+00
160	-.19004E+03	-.12300E+04	.00000E+00	161	-.17347E+03	-.12335E+04	.00000E+00	162	-.17347E+03	-.12335E+04	.00000E+00
163	-.15667E+03	-.12367E+04	.00000E+00	164	-.15667E+03	-.12367E+04	.00000E+00	165	-.13965E+03	-.12397E+04	.00000E+00
166	-.13965E+03	-.12397E+04	.00000E+00	167	-.12242E+03	-.12424E+04	.00000E+00	168	-.12242E+03	-.12424E+04	.00000E+00
169	-.10499E+03	-.12450E+04	.00000E+00	170	-.10499E+03	-.12450E+04	.00000E+00	171	-.87385E+02	-.12474E+04	.00000E+00
172	-.87386E+02	-.12474E+04	.00000E+00	173	-.69605E+02	-.12496E+04	.00000E+00	174	-.69605E+02	-.12496E+04	.00000E+00
175	-.51662E+02	-.12517E+04	.00000E+00	176	-.51662E+02	-.12517E+04	.00000E+00	177	-.33570E+02	-.12536E+04	.00000E+00
178	-.33570E+02	-.12536E+04	.00000E+00	179	-.15338E+02	-.12553E+04	.00000E+00	180	-.15338E+02	-.12553E+04	.00000E+00
181	.30249E+01	-.12570E+04	.00000E+00	182	.30247E+01	-.12570E+04	.00000E+00	183	.21511E+02	-.12585E+04	.00000E+00
184	.21511E+02	-.12585E+04	.00000E+00	185	.40110E+02	-.12599E+04	.00000E+00	186	.40110E+02	-.12599E+04	.00000E+00
187	.58813E+02	-.12612E+04	.00000E+00	188	.58813E+02	-.12612E+04	.00000E+00	189	.77614E+02	-.12624E+04	.00000E+00
190	.77614E+02	-.12624E+04	.00000E+00	191	.96505E+02	-.12635E+04	.00000E+00	192	.96505E+02	-.12635E+04	.00000E+00
193	.11548E+03	-.12645E+04	.00000E+00	194	.11548E+03	-.12645E+04	.00000E+00	195	.13453E+03	-.12655E+04	.00000E+00
196	.13453E+03	-.12655E+04	.00000E+00	197	.15366E+03	-.12663E+04	.00000E+00	198	.15366E+03	-.12663E+04	.00000E+00
199	.17285E+03	-.12671E+04	.00000E+00	200	.17285E+03	-.12671E+04	.00000E+00	201	.19210E+03	-.12679E+04	.00000E+00
202	.19210E+03	-.12679E+04	.00000E+00	203	.21141E+03	-.12686E+04	.00000E+00	204	.21141E+03	-.12686E+04	.00000E+00
205	.23078E+03	-.12692E+04	.00000E+00	206	.23078E+03	-.12692E+04	.00000E+00	207	.25020E+03	-.12698E+04	.00000E+00
208	.25020E+03	-.12698E+04	.00000E+00	209	.26966E+03	-.12703E+04	.00000E+00	210	.26966E+03	-.12703E+04	.00000E+00
211	.28916E+03	-.12708E+04	.00000E+00	212	.28916E+03	-.12708E+04	.00000E+00	213	.30870E+03	-.12713E+04	.00000E+00
214	.30870E+03	-.12713E+04	.00000E+00	215	.32827E+03	-.12717E+04	.00000E+00	216	.32827E+03	-.12717E+04	.00000E+00
217	.34788E+03	-.12721E+04	.00000E+00	218	.34788E+03	-.12721E+04	.00000E+00	219	.36752E+03	-.12725E+04	.00000E+00
220	.36752E+03	-.12725E+04	.00000E+00	221	.38719E+03	-.12728E+04	.00000E+00	222	.38719E+03	-.12728E+04	.00000E+00
223	.40688E+03	-.12731E+04	.32400E-02	224	.40688E+03	-.12731E+04	.32400E-02	0	.00000E+00	.00000E+00	.000[illegible]

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.18403E+00	2	.18403E+00	3	.18241E+00	4	.18241E+00	5	.18082E+00	6	.18082E+00
7	.17925E+00	8	.17925E+00	9	.17770E+00	10	.17770E+00	11	.17617E+00	12	.17617E+00
13	.17467E+00	14	.17467E+00	15	.17318E+00	16	.17318E+00	17	.17172E+00	18	.17172E+00
19	.17028E+00	20	.17028E+00	21	.16886E+00	22	.16886E+00	23	.16746E+00	24	.16746E+00
25	.16608E+00	26	.16608E+00	27	.16472E+00	28	.16472E+00	29	.16338E+00	30	.16338E+00
31	.16206E+00	32	.16206E+00	33	.16076E+00	34	.16076E+00	35	.15947E+00	36	.15947E+00
37	.15821E+00	38	.15821E+00	39	.15696E+00	40	.15696E+00	41	.15573E+00	42	.15573E+00
43	.15452E+00	44	.15452E+00	45	.15333E+00	46	.15333E+00	47	.15215E+00	48	.15215E+00
49	.15100E+00	50	.15100E+00	51	.14985E+00	52	.14985E+00	53	.14873E+00	54	.14873E+00
55	.14762E+00	56	.14762E+00	57	.14653E+00	58	.14653E+00	59	.14545E+00	60	.14545E+00
61	.14439E+00	62	.14439E+00	63	.14334E+00	64	.14334E+00	65	.14231E+00	66	.14231E+00
67	.14129E+00	68	.14129E+00	69	.14029E+00	70	.14029E+00	71	.13930E+00	72	.13930E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.13930E+00	72	.13930E+00	73	.13832E+00	74	.13832E+00	75	.13456E+00	76	.13456E+00
77	.13101E+00	78	.13101E+00	79	.12765E+00	80	.12765E+00	81	.12447E+00	82	.12447E+00
83	.12146E+00	84	.12146E+00	85	.11861E+00	86	.11861E+00	87	.11592E+00	88	.11592E+00
89	.11336E+00	90	.11336E+00	91	.11094E+00	92	.11094E+00	93	.10864E+00	94	.10864E+00
95	.10646E+00	96	.10646E+00	97	.10439E+00	98	.10439E+00	99	.10243E+00	100	.10243E+00
101	.10056E+00	102	.10056E+00	103	.98795E-01	104	.98795E-01	105	.97113E-01	106	.97113E-01
107	.95516E-01	108	.95516E-01	109	.93999E-01	110	.93999E-01	111	.92558E-01	112	.92558E-01

113	.91189E-01	114	.91189E-01	115	.89889E-01	116	.89889E-01	117	.88654E-01	118	.88654E-01
119	.87482E-01	120	.87482E-01	121	.86369E-01	122	.86369E-01	123	.85312E-01	124	.85312E-01
125	.84310E-01	126	.84309E-01	127	.83358E-01	128	.83358E-01	129	.82456E-01	130	.82456E-01
131	.81601E-01	132	.81601E-01	133	.80791E-01	134	.80791E-01	135	.80024E-01	136	.80024E-01
137	.79297E-01	138	.79297E-01	139	.78610E-01	140	.78610E-01	141	.77960E-01	142	.77960E-01
143	.77345E-01	144	.77345E-01	145	.76764E-01	146	.76764E-01	147	.76216E-01	148	.76216E-01
	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.68538E-01	148	.68538E-01	149	.68324E-01	150	.68324E-01	151	.68124E-01	152	.68124E-01
153	.67939E-01	154	.67939E-01	155	.67768E-01	156	.67768E-01	157	.67609E-01	158	.67609E-01
159	.67462E-01	160	.67462E-01	161	.67326E-01	162	.67326E-01	163	.67199E-01	164	.67199E-01
165	.67083E-01	166	.67083E-01	167	.66975E-01	168	.66975E-01	169	.66875E-01	170	.66875E-01
171	.66782E-01	172	.66782E-01	173	.66697E-01	174	.66697E-01	175	.66618E-01	176	.66618E-01
177	.66545E-01	178	.66545E-01	179	.66478E-01	180	.66478E-01	181	.66416E-01	182	.66416E-01
183	.66358E-01	184	.66358E-01	185	.66306E-01	186	.66306E-01	187	.66257E-01	188	.66257E-01
189	.66212E-01	190	.66212E-01	191	.66170E-01	192	.66170E-01	193	.66132E-01	194	.66132E-01
195	.66096E-01	196	.66096E-01	197	.66064E-01	198	.66064E-01	199	.66034E-01	200	.66034E-01
201	.66006E-01	202	.66006E-01	203	.65980E-01	204	.65980E-01	205	.65957E-01	206	.65957E-01
207	.65935E-01	208	.65935E-01	209	.65915E-01	210	.65915E-01	211	.65897E-01	212	.65897E-01
213	.65880E-01	214	.65880E-01	215	.65864E-01	216	.65864E-01	217	.65850E-01	218	.65850E-01
219	.65836E-01	220	.65836E-01	221	.65824E-01	222	.65824E-01	223	.65813E-01	224	.65813E-01

GREEN RIVER: 1) GRN5420 93% 2) GRN5350 95% 3) GRN5350 95%; 1.0E-08cm/s cover flux

TIME = 142857.6000 TIME STEP = 300

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .25757E-01 AT NODE 123

CUMULATIVE INFLOW INTO SYSTEM IS = .95629E+03
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.96743E+03
CUMULATIVE CHANGE IN SYSTEM IS = -.11148E+02

NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.42000E+03	-.42000E+03	-.31630E-02	2	-.42000E+03	-.42000E+03	-.31965E-02	3	-.41998E+03	-.42498E+03	.00000E+00
4	-.41998E+03	-.42498E+03	.00000E+00	5	-.41996E+03	-.42996E+03	.00000E+00	6	-.41996E+03	-.42996E+03	.00000E+00
7	-.41994E+03	-.43494E+03	.00000E+00	8	-.41994E+03	-.43494E+03	.00000E+00	9	-.41991E+03	-.43991E+03	.00000E+00
10	-.41991E+03	-.43991E+03	.00000E+00	11	-.41989E+03	-.44489E+03	.00000E+00	12	-.41989E+03	-.44489E+03	.00000E+00
13	-.41986E+03	-.44986E+03	.00000E+00	14	-.41986E+03	-.44986E+03	.00000E+00	15	-.41984E+03	-.45484E+03	.00000E+00
16	-.41984E+03	-.45484E+03	.00000E+00	17	-.41981E+03	-.45981E+03	.00000E+00	18	-.41981E+03	-.45981E+03	.00000E+00
19	-.41978E+03	-.46478E+03	.00000E+00	20	-.41978E+03	-.46478E+03	.00000E+00	21	-.41975E+03	-.46975E+03	.00000E+00
22	-.41975E+03	-.46975E+03	.00000E+00	23	-.41972E+03	-.47472E+03	.00000E+00	24	-.41972E+03	-.47472E+03	.00000E+00
25	-.41969E+03	-.47969E+03	.00000E+00	26	-.41969E+03	-.47969E+03	.00000E+00	27	-.41965E+03	-.48465E+03	.00000E+00
28	-.41965E+03	-.48465E+03	.00000E+00	29	-.41962E+03	-.48962E+03	.00000E+00	30	-.41962E+03	-.48962E+03	.00000E+00
31	-.41958E+03	-.49458E+03	.00000E+00	32	-.41958E+03	-.49458E+03	.00000E+00	33	-.41954E+03	-.49954E+03	.00000E+00

34	-.41954E+03	-.49954E+03	.00000E+00	35	-.41950E+03	-.50450E+03	.00000E+00	36	-.41950E+03	-.50450E+03	.00000E+00
37	-.41946E+03	-.50946E+03	.00000E+00	38	-.41946E+03	-.50946E+03	.00000E+00	39	-.41942E+03	-.51442E+03	.00000E+00
40	-.41942E+03	-.51442E+03	.00000E+00	41	-.41937E+03	-.51937E+03	.00000E+00	42	-.41937E+03	-.51937E+03	.00000E+00
43	-.41932E+03	-.52432E+03	.00000E+00	44	-.41932E+03	-.52432E+03	.00000E+00	45	-.41927E+03	-.52927E+03	.00000E+00
46	-.41927E+03	-.52927E+03	.00000E+00	47	-.41922E+03	-.53422E+03	.00000E+00	48	-.41922E+03	-.53422E+03	.00000E+00
49	-.41917E+03	-.53917E+03	.00000E+00	50	-.41917E+03	-.53917E+03	.00000E+00	51	-.41911E+03	-.54411E+03	.000[illegible]
52	-.41911E+03	-.54411E+03	.00000E+00	53	-.41905E+03	-.54905E+03	.00000E+00	54	-.41905E+03	-.54905E+03	.000[illegible]
55	-.41899E+03	-.55399E+03	.00000E+00	56	-.41899E+03	-.55399E+03	.00000E+00	57	-.41893E+03	-.55893E+03	.00000E+00
58	-.41893E+03	-.55893E+03	.00000E+00	59	-.41886E+03	-.56386E+03	.00000E+00	60	-.41886E+03	-.56386E+03	.00000E+00
61	-.41879E+03	-.56879E+03	.00000E+00	62	-.41879E+03	-.56879E+03	.00000E+00	63	-.41872E+03	-.57372E+03	.00000E+00
64	-.41872E+03	-.57372E+03	.00000E+00	65	-.41865E+03	-.57865E+03	.00000E+00	66	-.41865E+03	-.57865E+03	.00000E+00
67	-.41857E+03	-.58357E+03	.00000E+00	68	-.41857E+03	-.58357E+03	.00000E+00	69	-.41849E+03	-.58849E+03	.00000E+00
70	-.41849E+03	-.58849E+03	.00000E+00	71	-.41841E+03	-.59341E+03	.00000E+00	72	-.41841E+03	-.59341E+03	.00000E+00
73	-.41833E+03	-.59833E+03	.00000E+00	74	-.41833E+03	-.59833E+03	.00000E+00	75	-.41795E+03	-.61795E+03	.00000E+00
76	-.41795E+03	-.61795E+03	.00000E+00	77	-.41752E+03	-.63752E+03	.00000E+00	78	-.41752E+03	-.63752E+03	.00000E+00
79	-.41703E+03	-.65703E+03	.00000E+00	80	-.41703E+03	-.65703E+03	.00000E+00	81	-.41647E+03	-.67647E+03	.00000E+00
82	-.41647E+03	-.67647E+03	.00000E+00	83	-.41583E+03	-.69583E+03	.00000E+00	84	-.41583E+03	-.69583E+03	.00000E+00
85	-.41510E+03	-.71510E+03	.00000E+00	86	-.41510E+03	-.71510E+03	.00000E+00	87	-.41427E+03	-.73427E+03	.00000E+00
88	-.41427E+03	-.73427E+03	.00000E+00	89	-.41334E+03	-.75334E+03	.00000E+00	90	-.41334E+03	-.75334E+03	.00000E+00
91	-.41229E+03	-.77229E+03	.00000E+00	92	-.41229E+03	-.77229E+03	.00000E+00	93	-.41111E+03	-.79111E+03	.00000E+00
94	-.41111E+03	-.79111E+03	.00000E+00	95	-.40980E+03	-.80980E+03	.00000E+00	96	-.40980E+03	-.80980E+03	.00000E+00
97	-.40833E+03	-.82833E+03	.00000E+00	98	-.40833E+03	-.82833E+03	.00000E+00	99	-.40670E+03	-.84670E+03	.00000E+00
100	-.40670E+03	-.84670E+03	.00000E+00	101	-.40489E+03	-.86489E+03	.00000E+00	102	-.40489E+03	-.86489E+03	.00000E+00
103	-.40289E+03	-.88289E+03	.00000E+00	104	-.40289E+03	-.88289E+03	.00000E+00	105	-.40069E+03	-.90069E+03	.00000E+00
106	-.40069E+03	-.90069E+03	.00000E+00	107	-.39827E+03	-.91827E+03	.00000E+00	108	-.39827E+03	-.91827E+03	.00000E+00
109	-.39561E+03	-.93561E+03	.00000E+00	110	-.39561E+03	-.93561E+03	.00000E+00	111	-.39271E+03	-.95271E+03	.00000E+00
112	-.39271E+03	-.95271E+03	.00000E+00	113	-.38954E+03	-.96954E+03	.00000E+00	114	-.38954E+03	-.96954E+03	.00000E+00
115	-.38610E+03	-.98610E+03	.00000E+00	116	-.38610E+03	-.98610E+03	.00000E+00	117	-.38237E+03	-.10024E+04	.00000E+00
118	-.38237E+03	-.10024E+04	.00000E+00	119	-.37833E+03	-.10183E+04	.00000E+00	120	-.37833E+03	-.10183E+04	.00000E+00
121	-.37398E+03	-.10340E+04	.00000E+00	122	-.37398E+03	-.10340E+04	.00000E+00	123	-.36929E+03	-.10493E+04	.00000E+00
124	-.36929E+03	-.10493E+04	.00000E+00	125	-.36426E+03	-.10643E+04	.00000E+00	126	-.36426E+03	-.10643E+04	.00000E+00
127	-.35887E+03	-.10789E+04	.00000E+00	128	-.35887E+03	-.10789E+04	.00000E+00	129	-.35312E+03	-.10931E+04	.000[illegible]
130	-.35312E+03	-.10931E+04	.00000E+00	131	-.34699E+03	-.11070E+04	.00000E+00	132	-.34699E+03	-.11070E+04	.000[illegible]
133	-.34048E+03	-.11205E+04	.00000E+00	134	-.34048E+03	-.11205E+04	.00000E+00	135	-.33358E+03	-.11336E+04	.00000E+00
136	-.33358E+03	-.11336E+04	.00000E+00	137	-.32627E+03	-.11463E+04	.00000E+00	138	-.32627E+03	-.11463E+04	.00000E+00
139	-.31856E+03	-.11586E+04	.00000E+00	140	-.31856E+03	-.11586E+04	.00000E+00	141	-.31044E+03	-.11704E+04	.00000E+00
142	-.31044E+03	-.11704E+04	.00000E+00	143	-.30191E+03	-.11819E+04	.00000E+00	144	-.30191E+03	-.11819E+04	.00000E+00
145	-.29297E+03	-.11930E+04	.00000E+00	146	-.29297E+03	-.11930E+04	.00000E+00	147	-.28361E+03	-.12036E+04	.00000E+00
148	-.28362E+03	-.12036E+04	.00000E+00	149	-.26878E+03	-.12088E+04	.00000E+00	150	-.26878E+03	-.12088E+04	.00000E+00
151	-.25361E+03	-.12136E+04	.00000E+00	152	-.25361E+03	-.12136E+04	.00000E+00	153	-.23814E+03	-.12181E+04	.00000E+00
154	-.23814E+03	-.12181E+04	.00000E+00	155	-.22237E+03	-.12224E+04	.00000E+00	156	-.22237E+03	-.12224E+04	.00000E+00
157	-.20632E+03	-.12263E+04	.00000E+00	158	-.20632E+03	-.12263E+04	.00000E+00	159	-.19001E+03	-.12300E+04	.00000E+00
160	-.19001E+03	-.12300E+04	.00000E+00	161	-.17344E+03	-.12334E+04	.00000E+00	162	-.17344E+03	-.12334E+04	.00000E+00
163	-.15664E+03	-.12366E+04	.00000E+00	164	-.15664E+03	-.12366E+04	.00000E+00	165	-.13962E+03	-.12396E+04	.00000E+00
166	-.13962E+03	-.12396E+04	.00000E+00	167	-.12239E+03	-.12424E+04	.00000E+00	168	-.12239E+03	-.12424E+04	.00000E+00
169	-.10496E+03	-.12450E+04	.00000E+00	170	-.10496E+03	-.12450E+04	.00000E+00	171	-.87354E+02	-.12474E+04	.00000E+00
172	-.87354E+02	-.12474E+04	.00000E+00	173	-.69574E+02	-.12496E+04	.00000E+00	174	-.69574E+02	-.12496E+04	.00000E+00
175	-.51633E+02	-.12516E+04	.00000E+00	176	-.51634E+02	-.12516E+04	.00000E+00	177	-.33541E+02	-.12535E+04	.00000E+00
178	-.33541E+02	-.12535E+04	.00000E+00	179	-.15309E+02	-.12553E+04	.00000E+00	180	-.15310E+02	-.12553E+04	.00000E+00
181	.30540E+01	-.12569E+04	.00000E+00	182	.30540E+01	-.12569E+04	.00000E+00	183	.21538E+02	-.12585E+04	.00000E+00
184	.21538E+02	-.12585E+04	.00000E+00	185	.40135E+02	-.12599E+04	.00000E+00	186	.40134E+02	-.12599E+04	.00000E+00
187	.58835E+02	-.12612E+04	.00000E+00	188	.58835E+02	-.12612E+04	.00000E+00	189	.77634E+02	-.12624E+04	.00000E+00
190	.77634E+02	-.12624E+04	.00000E+00	191	.96526E+02	-.12635E+04	.00000E+00	192	.96525E+02	-.12635E+04	.00000E+00
193	.11550E+03	-.12645E+04	.00000E+00	194	.11550E+03	-.12645E+04	.00000E+00	195	.13455E+03	-.12654E+04	.00000E+00
196	.13455E+03	-.12654E+04	.00000E+00	197	.15368E+03	-.12663E+04	.00000E+00	198	.15368E+03	-.12663E+04	.00000E+00
199	.17287E+03	-.12671E+04	.00000E+00	200	.17287E+03	-.12671E+04	.00000E+00	201	.19212E+03	-.12679E+04	.00000E+00
202	.19212E+03	-.12679E+04	.00000E+00	203	.21142E+03	-.12686E+04	.00000E+00	204	.21142E+03	-.12686E+04	.00[illegible]
205	.23078E+03	-.12692E+04	.00000E+00	206	.23078E+03	-.12692E+04	.00000E+00	207	.25020E+03	-.12698E+04	.00[illegible]
208	.25020E+03	-.12698E+04	.00000E+00	209	.26965E+03	-.12703E+04	.00000E+00	210	.26965E+03	-.12703E+04	.00000E+00
211	.28915E+03	-.12708E+04	.00000E+00	212	.28915E+03	-.12708E+04	.00000E+00	213	.30869E+03	-.12713E+04	.00000E+00
214	.30869E+03	-.12713E+04	.00000E+00	215	.32826E+03	-.12717E+04	.00000E+00	216	.32826E+03	-.12717E+04	.00000E+00
217	.34787E+03	-.12721E+04	.00000E+00	218	.34787E+03	-.12721E+04	.00000E+00	219	.36751E+03	-.12725E+04	.00000E+00

220	.36751E+03	-.12725E+04	.00000E+00	221	.38718E+03	-.12728E+04	.00000E+00	222	.38718E+03	-.12728E+04	.00000E+00
223	.40687E+03	-.12731E+04	.32400E-02	224	.40687E+03	-.12731E+04	.32400E-02	0	.00000E+00	.00000E+00	.00000E+00

DIST[illegible] [illegible]NTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.18403E+00	2	.18403E+00	3	.18241E+00	4	.18241E+00	5	.18082E+00	6	.18082E+00
7	.17925E+00	8	.17925E+00	9	.17770E+00	10	.17770E+00	11	.17617E+00	12	.17617E+00
13	.17467E+00	14	.17467E+00	15	.17318E+00	16	.17318E+00	17	.17172E+00	18	.17172E+00
19	.17028E+00	20	.17028E+00	21	.16886E+00	22	.16886E+00	23	.16746E+00	24	.16746E+00
25	.16608E+00	26	.16608E+00	27	.16472E+00	28	.16472E+00	29	.16338E+00	30	.16338E+00
31	.16206E+00	32	.16206E+00	33	.16075E+00	34	.16075E+00	35	.15947E+00	36	.15947E+00
37	.15821E+00	38	.15821E+00	39	.15696E+00	40	.15696E+00	41	.15573E+00	42	.15573E+00
43	.15452E+00	44	.15452E+00	45	.15333E+00	46	.15333E+00	47	.15215E+00	48	.15215E+00
49	.15100E+00	50	.15100E+00	51	.14985E+00	52	.14985E+00	53	.14873E+00	54	.14873E+00
55	.14762E+00	56	.14762E+00	57	.14653E+00	58	.14653E+00	59	.14545E+00	60	.14545E+00
61	.14439E+00	62	.14439E+00	63	.14334E+00	64	.14334E+00	65	.14231E+00	66	.14231E+00
67	.14129E+00	68	.14129E+00	69	.14029E+00	70	.14029E+00	71	.13930E+00	72	.13930E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.13930E+00	72	.13930E+00	73	.13832E+00	74	.13832E+00	75	.13456E+00	76	.13456E+00
77	.13101E+00	78	.13101E+00	79	.12765E+00	80	.12765E+00	81	.12447E+00	82	.12447E+00
83	.12146E+00	84	.12146E+00	85	.11861E+00	86	.11861E+00	87	.11592E+00	88	.11592E+00
89	.11336E+00	90	.11336E+00	91	.11094E+00	92	.11094E+00	93	.10864E+00	94	.10864E+00
95	.10646E+00	96	.10646E+00	97	.10439E+00	98	.10439E+00	99	.10243E+00	100	.10243E+00
101	.10057E+00	102	.10057E+00	103	.98797E-01	104	.98797E-01	105	.97115E-01	106	.97115E-01
1[illegible]	.95518E-01	108	.95518E-01	109	.94001E-01	110	.94001E-01	111	.92560E-01	112	.92560E-01
1[illegible]	.91191E-01	114	.91191E-01	115	.89891E-01	116	.89891E-01	117	.88656E-01	118	.88656E-01
119	.87484E-01	120	.87484E-01	121	.86371E-01	122	.86371E-01	123	.85314E-01	124	.85314E-01
125	.84312E-01	126	.84311E-01	127	.83360E-01	128	.83360E-01	129	.82458E-01	130	.82458E-01
131	.81603E-01	132	.81603E-01	133	.80793E-01	134	.80793E-01	135	.80026E-01	136	.80026E-01
137	.79299E-01	138	.79299E-01	139	.78612E-01	140	.78612E-01	141	.77962E-01	142	.77962E-01
143	.77347E-01	144	.77347E-01	145	.76766E-01	146	.76766E-01	147	.76218E-01	148	.76218E-01
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.68540E-01	148	.68540E-01	149	.68325E-01	150	.68325E-01	151	.68126E-01	152	.68126E-01
153	.67941E-01	154	.67941E-01	155	.67769E-01	156	.67769E-01	157	.67610E-01	158	.67610E-01
159	.67463E-01	160	.67463E-01	161	.67327E-01	162	.67327E-01	163	.67201E-01	164	.67200E-01
165	.67084E-01	166	.67084E-01	167	.66976E-01	168	.66976E-01	169	.66876E-01	170	.66876E-01
171	.66783E-01	172	.66783E-01	173	.66698E-01	174	.66698E-01	175	.66619E-01	176	.66619E-01
177	.66546E-01	178	.66546E-01	179	.66479E-01	180	.66479E-01	181	.66417E-01	182	.66417E-01
183	.66359E-01	184	.66359E-01	185	.66307E-01	186	.66307E-01	187	.66258E-01	188	.66258E-01
189	.66212E-01	190	.66212E-01	191	.66171E-01	192	.66171E-01	193	.66133E-01	194	.66133E-01
195	.66097E-01	196	.66097E-01	197	.66065E-01	198	.66065E-01	199	.66034E-01	200	.66034E-01
201	.66007E-01	202	.66007E-01	203	.65981E-01	204	.65981E-01	205	.65957E-01	206	.65957E-01
207	.65935E-01	208	.65935E-01	209	.65915E-01	210	.65915E-01	211	.65897E-01	212	.65897E-01
213	.65879E-01	214	.65879E-01	215	.65864E-01	216	.65864E-01	217	.65849E-01	218	.65849E-01
[illegible]	.65836E-01	220	.65836E-01	221	.65824E-01	222	.65824E-01	223	.65812E-01	224	.65812E-01

GREEN RIVER: 1) GRN542@93% 2) GRN535@95% 3) GRN535@95%; 1.0E-08cm/s cover flux

TIME = 182500.0000 TIME STEP = 380

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .82397E-02 AT NODE 115

CUMULATIVE INFLOW INTO SYSTEM IS = .12132E+04
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.12175E+04
CUMULATIVE CHANGE IN SYSTEM IS = -.43590E+01

NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.42000E+03	-.42000E+03	-.30750E-02	2	-.42000E+03	-.42000E+03	-.31620E-02	3	-.41998E+03	-.42498E+03	.00000E+00
4	-.41998E+03	-.42498E+03	.00000E+00	5	-.41996E+03	-.42996E+03	.00000E+00	6	-.41996E+03	-.42996E+03	.00000E+00
7	-.41994E+03	-.43494E+03	.00000E+00	8	-.41994E+03	-.43494E+03	.00000E+00	9	-.41991E+03	-.43991E+03	.00000E+00
10	-.41991E+03	-.43991E+03	.00000E+00	11	-.41989E+03	-.44489E+03	.00000E+00	12	-.41989E+03	-.44489E+03	.00000E+00
13	-.41987E+03	-.44987E+03	.00000E+00	14	-.41987E+03	-.44987E+03	.00000E+00	15	-.41984E+03	-.45484E+03	.00000E+00
16	-.41984E+03	-.45484E+03	.00000E+00	17	-.41981E+03	-.45981E+03	.00000E+00	18	-.41981E+03	-.45981E+03	.00000E+00
19	-.41978E+03	-.46478E+03	.00000E+00	20	-.41978E+03	-.46478E+03	.00000E+00	21	-.41975E+03	-.46975E+03	.00000E+00
22	-.41975E+03	-.46975E+03	.00000E+00	23	-.41972E+03	-.47472E+03	.00000E+00	24	-.41972E+03	-.47472E+03	.00000E+00
25	-.41969E+03	-.47969E+03	.00000E+00	26	-.41969E+03	-.47969E+03	.00000E+00	27	-.41966E+03	-.48466E+03	.00000E+00
28	-.41966E+03	-.48466E+03	.00000E+00	29	-.41962E+03	-.48962E+03	.00000E+00	30	-.41962E+03	-.48962E+03	.00000E+00
31	-.41958E+03	-.49458E+03	.00000E+00	32	-.41958E+03	-.49458E+03	.00000E+00	33	-.41954E+03	-.49955E+03	.000[illegible]
34	-.41955E+03	-.49955E+03	.00000E+00	35	-.41950E+03	-.50450E+03	.00000E+00	36	-.41950E+03	-.50450E+03	.00[illegible]
37	-.41946E+03	-.50946E+03	.00000E+00	38	-.41946E+03	-.50946E+03	.00000E+00	39	-.41942E+03	-.51442E+03	.00000E+00
40	-.41942E+03	-.51442E+03	.00000E+00	41	-.41937E+03	-.51937E+03	.00000E+00	42	-.41937E+03	-.51937E+03	.00000E+00
43	-.41933E+03	-.52433E+03	.00000E+00	44	-.41933E+03	-.52432E+03	.00000E+00	45	-.41928E+03	-.52928E+03	.00000E+00
46	-.41928E+03	-.52928E+03	.00000E+00	47	-.41922E+03	-.53422E+03	.00000E+00	48	-.41922E+03	-.53422E+03	.00000E+00
49	-.41917E+03	-.53917E+03	.00000E+00	50	-.41917E+03	-.53917E+03	.00000E+00	51	-.41911E+03	-.54411E+03	.00000E+00
52	-.41911E+03	-.54411E+03	.00000E+00	53	-.41906E+03	-.54906E+03	.00000E+00	54	-.41906E+03	-.54906E+03	.00000E+00
55	-.41900E+03	-.55400E+03	.00000E+00	56	-.41900E+03	-.55400E+03	.00000E+00	57	-.41893E+03	-.55893E+03	.00000E+00
58	-.41893E+03	-.55893E+03	.00000E+00	59	-.41887E+03	-.56387E+03	.00000E+00	60	-.41887E+03	-.56387E+03	.00000E+00
61	-.41880E+03	-.56880E+03	.00000E+00	62	-.41880E+03	-.56880E+03	.00000E+00	63	-.41873E+03	-.57373E+03	.00000E+00
64	-.41873E+03	-.57373E+03	.00000E+00	65	-.41866E+03	-.57866E+03	.00000E+00	66	-.41866E+03	-.57866E+03	.00000E+00
67	-.41858E+03	-.58358E+03	.00000E+00	68	-.41858E+03	-.58358E+03	.00000E+00	69	-.41850E+03	-.58850E+03	.00000E+00
70	-.41850E+03	-.58850E+03	.00000E+00	71	-.41842E+03	-.59342E+03	.00000E+00	72	-.41842E+03	-.59342E+03	.00000E+00
73	-.41833E+03	-.59833E+03	.00000E+00	74	-.41833E+03	-.59833E+03	.00000E+00	75	-.41796E+03	-.61796E+03	.00000E+00
76	-.41796E+03	-.61796E+03	.00000E+00	77	-.41753E+03	-.63753E+03	.00000E+00	78	-.41753E+03	-.63753E+03	.00000E+00
79	-.41704E+03	-.65704E+03	.00000E+00	80	-.41704E+03	-.65704E+03	.00000E+00	81	-.41648E+03	-.67648E+03	.00000E+00
82	-.41648E+03	-.67648E+03	.00000E+00	83	-.41584E+03	-.69584E+03	.00000E+00	84	-.41584E+03	-.69584E+03	.00000E+00
85	-.41511E+03	-.71511E+03	.00000E+00	86	-.41511E+03	-.71511E+03	.00000E+00	87	-.41429E+03	-.73429E+03	.00000E+00
88	-.41429E+03	-.73429E+03	.00000E+00	89	-.41336E+03	-.75336E+03	.00000E+00	90	-.41336E+03	-.75336E+03	.00000E+00
91	-.41231E+03	-.77231E+03	.00000E+00	92	-.41231E+03	-.77231E+03	.00000E+00	93	-.41114E+03	-.79114E+03	.00000E+00
94	-.41114E+03	-.79114E+03	.00000E+00	95	-.40982E+03	-.80982E+03	.00000E+00	96	-.40982E+03	-.80982E+03	.00000E+00
97	-.40836E+03	-.82836E+03	.00000E+00	98	-.40836E+03	-.82836E+03	.00000E+00	99	-.40673E+03	-.84673E+03	.00000E+00
100	-.40673E+03	-.84673E+03	.00000E+00	101	-.40492E+03	-.86492E+03	.00000E+00	102	-.40492E+03	-.86492E+03	.00000E+00
103	-.40292E+03	-.88292E+03	.00000E+00	104	-.40292E+03	-.88292E+03	.00000E+00	105	-.40071E+03	-.90071E+03	.00000E+00
106	-.40071E+03	-.90071E+03	.00000E+00	107	-.39829E+03	-.91829E+03	.00000E+00	108	-.39829E+03	-.91829E+03	.00[illegible]
109	-.39564E+03	-.93564E+03	.00000E+00	110	-.39564E+03	-.93564E+03	.00000E+00	111	-.39273E+03	-.95273E+03	.00[illegible]
112	-.39273E+03	-.95273E+03	.00000E+00	113	-.38957E+03	-.96957E+03	.00000E+00	114	-.38957E+03	-.96957E+03	.00000E+00
115	-.38613E+03	-.98613E+03	.00000E+00	116	-.38613E+03	-.98613E+03	.00000E+00	117	-.38239E+03	-.10024E+04	.00000E+00
118	-.38239E+03	-.10024E+04	.00000E+00	119	-.37836E+03	-.10184E+04	.00000E+00	120	-.37836E+03	-.10184E+04	.00000E+00
121	-.37400E+03	-.10340E+04	.00000E+00	122	-.37400E+03	-.10340E+04	.00000E+00	123	-.36931E+03	-.10493E+04	.00000E+00

24	-.36931E+03	-.10493E+04	.00000E+00	125	-.36428E+03	-.10643E+04	.00000E+00	126	-.36428E+03	-.10643E+04	.00000E+00
27	-.35889E+03	-.10789E+04	.00000E+00	128	-.35889E+03	-.10789E+04	.00000E+00	129	-.35314E+03	-.10931E+04	.00000E+00
30	-.35314E+03	-.10931E+04	.00000E+00	131	-.34701E+03	-.11070E+04	.00000E+00	132	-.34701E+03	-.11070E+04	.00000E+00
33	-.34049E+03	-.11205E+04	.00000E+00	134	-.34049E+03	-.11205E+04	.00000E+00	135	-.33358E+03	-.11336E+04	.00000E+00
36	-.33358E+03	-.11336E+04	.00000E+00	137	-.32628E+03	-.11463E+04	.00000E+00	138	-.32628E+03	-.11463E+04	.00000E+00
39	[illegible]57E+03	-.11586E+04	.00000E+00	140	-.31857E+03	-.11586E+04	.00000E+00	141	-.31045E+03	-.11704E+04	.00000E+00
42	[illegible]5E+03	-.11704E+04	.00000E+00	143	-.30192E+03	-.11819E+04	.00000E+00	144	-.30192E+03	-.11819E+04	.00000E+00
45	[illegible]298E+03	-.11930E+04	.00000E+00	146	-.29298E+03	-.11930E+04	.00000E+00	147	-.28362E+03	-.12036E+04	.00000E+00
48	-.28362E+03	-.12036E+04	.00000E+00	149	-.26878E+03	-.12088E+04	.00000E+00	150	-.26878E+03	-.12088E+04	.00000E+00
51	-.25362E+03	-.12136E+04	.00000E+00	152	-.25362E+03	-.12136E+04	.00000E+00	153	-.23814E+03	-.12181E+04	.00000E+00
54	-.23814E+03	-.12181E+04	.00000E+00	155	-.22237E+03	-.12224E+04	.00000E+00	156	-.22237E+03	-.12224E+04	.00000E+00
57	-.20632E+03	-.12263E+04	.00000E+00	158	-.20632E+03	-.12263E+04	.00000E+00	159	-.19000E+03	-.12300E+04	.00000E+00
60	-.19001E+03	-.12300E+04	.00000E+00	161	-.17344E+03	-.12334E+04	.00000E+00	162	-.17344E+03	-.12334E+04	.00000E+00
63	-.15664E+03	-.12366E+04	.00000E+00	164	-.15664E+03	-.12366E+04	.00000E+00	165	-.13962E+03	-.12396E+04	.00000E+00
66	-.13962E+03	-.12396E+04	.00000E+00	167	-.12239E+03	-.12424E+04	.00000E+00	168	-.12239E+03	-.12424E+04	.00000E+00
69	-.10496E+03	-.12450E+04	.00000E+00	170	-.10496E+03	-.12450E+04	.00000E+00	171	-.87354E+02	-.12474E+04	.00000E+00
72	-.87354E+02	-.12474E+04	.00000E+00	173	-.69574E+02	-.12496E+04	.00000E+00	174	-.69574E+02	-.12496E+04	.00000E+00
75	-.51634E+02	-.12516E+04	.00000E+00	176	-.51634E+02	-.12516E+04	.00000E+00	177	-.33542E+02	-.12535E+04	.00000E+00
78	-.33542E+02	-.12535E+04	.00000E+00	179	-.15311E+02	-.12553E+04	.00000E+00	180	-.15311E+02	-.12553E+04	.00000E+00
81	.30520E+01	-.12569E+04	.00000E+00	182	.30518E+01	-.12569E+04	.00000E+00	183	.21535E+02	-.12585E+04	.00000E+00
84	.21535E+02	-.12585E+04	.00000E+00	185	.40133E+02	-.12599E+04	.00000E+00	186	.40133E+02	-.12599E+04	.00000E+00
87	.58834E+02	-.12612E+04	.00000E+00	188	.58834E+02	-.12612E+04	.00000E+00	189	.77635E+02	-.12624E+04	.00000E+00
90	.77634E+02	-.12624E+04	.00000E+00	191	.96525E+02	-.12635E+04	.00000E+00	192	.96524E+02	-.12635E+04	.00000E+00
93	.11550E+03	-.12645E+04	.00000E+00	194	.11550E+03	-.12645E+04	.00000E+00	195	.13455E+03	-.12654E+04	.00000E+00
96	.13455E+03	-.12654E+04	.00000E+00	197	.15367E+03	-.12663E+04	.00000E+00	198	.15367E+03	-.12663E+04	.00000E+00
99	.17286E+03	-.12671E+04	.00000E+00	200	.17286E+03	-.12671E+04	.00000E+00	201	.19211E+03	-.12679E+04	.00000E+00
202	.19211E+03	-.12679E+04	.00000E+00	203	.21143E+03	-.12686E+04	.00000E+00	204	.21143E+03	-.12686E+04	.00000E+00
205	.23079E+03	-.12692E+04	.00000E+00	206	.23079E+03	-.12692E+04	.00000E+00	207	.25020E+03	-.12698E+04	.00000E+00
208	.25020E+03	-.12698E+04	.00000E+00	209	.26966E+03	-.12703E+04	.00000E+00	210	.26966E+03	-.12703E+04	.00000E+00
211	.28916E+03	-.12708E+04	.00000E+00	212	.28916E+03	-.12708E+04	.00000E+00	213	.30869E+03	-.12713E+04	.00000E+00
214	.30869E+03	-.12713E+04	.00000E+00	215	.32827E+03	-.12717E+04	.00000E+00	216	.32827E+03	-.12717E+04	.00000E+00
217	[illegible]4788E+03	-.12721E+04	.00000E+00	218	.34788E+03	-.12721E+04	.00000E+00	219	.36751E+03	-.12725E+04	.00000E+00
220	[illegible]751E+03	-.12725E+04	.00000E+00	221	.38718E+03	-.12728E+04	.00000E+00	222	.38718E+03	-.12728E+04	.00000E+00
223	.40687E+03	-.12731E+04	.32400E-02	224	.40687E+03	-.12731E+04	.32400E-02	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.18403E+00	2	.18403E+00	3	.18241E+00	4	.18241E+00	5	.18082E+00	6	.18082E+00
7	.17925E+00	8	.17925E+00	9	.17770E+00	10	.17770E+00	11	.17617E+00	12	.17617E+00
13	.17467E+00	14	.17467E+00	15	.17318E+00	16	.17318E+00	17	.17172E+00	18	.17172E+00
19	.17028E+00	20	.17028E+00	21	.16886E+00	22	.16886E+00	23	.16746E+00	24	.16746E+00
25	.16608E+00	26	.16608E+00	27	.16472E+00	28	.16472E+00	29	.16338E+00	30	.16338E+00
31	.16206E+00	32	.16206E+00	33	.16075E+00	34	.16075E+00	35	.15947E+00	36	.15947E+00
37	.15821E+00	38	.15821E+00	39	.15696E+00	40	.15696E+00	41	.15573E+00	42	.15573E+00
43	.15452E+00	44	.15452E+00	45	.15333E+00	46	.15333E+00	47	.15215E+00	48	.15215E+00
49	.15099E+00	50	.15099E+00	51	.14985E+00	52	.14985E+00	53	.14873E+00	54	.14873E+00
55	.14762E+00	56	.14762E+00	57	.14652E+00	58	.14652E+00	59	.14545E+00	60	.14545E+00
61	.14438E+00	62	.14438E+00	63	.14334E+00	64	.14334E+00	65	.14231E+00	66	.14231E+00
67	.14129E+00	68	.14129E+00	69	.14029E+00	70	.14029E+00	71	.13930E+00	72	.13930E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

[illegible]	.13930E+00	72	.13930E+00	73	.13832E+00	74	.13832E+00	75	.13456E+00	76	.13456E+00
77	.13101E+00	78	.13101E+00	79	.12765E+00	80	.12765E+00	81	.12447E+00	82	.12447E+00
83	.12146E+00	84	.12146E+00	85	.11861E+00	86	.11861E+00	87	.11591E+00	88	.11591E+00
89	.11336E+00	90	.11336E+00	91	.11094E+00	92	.11094E+00	93	.10864E+00	94	.10864E+00
95	.10646E+00	96	.10646E+00	97	.10439E+00	98	.10439E+00	99	.10243E+00	100	.10243E+00

101	.10056E+00	102	.10056E+00	103	.98794E-01	104	.98794E-01	105	.97113E-01	106	.97113E-01
107	.95516E-01	108	.95516E-01	109	.93999E-01	110	.93999E-01	111	.92558E-01	112	.92558E-01
113	.91189E-01	114	.91189E-01	115	.89889E-01	116	.89889E-01	117	.88655E-01	118	.88655E-01
119	.87482E-01	120	.87482E-01	121	.86369E-01	122	.86369E-01	123	.85313E-01	124	.85313E-01
125	.84310E-01	126	.84310E-01	127	.83359E-01	128	.83359E-01	129	.82457E-01	130	.82457E-01
131	.81603E-01	132	.81603E-01	133	.80793E-01	134	.80793E-01	135	.80025E-01	136	.80025E-01
137	.79299E-01	138	.79299E-01	139	.78611E-01	140	.78611E-01	141	.77961E-01	142	.77961E-01
143	.77347E-01	144	.77347E-01	145	.76766E-01	146	.76766E-01	147	.76217E-01	148	.76217E-01
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.68540E-01	148	.68540E-01	149	.68325E-01	150	.68325E-01	151	.68126E-01	152	.68126E-01
153	.67941E-01	154	.67941E-01	155	.67769E-01	156	.67769E-01	157	.67610E-01	158	.67610E-01
159	.67463E-01	160	.67463E-01	161	.67327E-01	162	.67327E-01	163	.67201E-01	164	.67201E-01
165	.67084E-01	166	.67084E-01	167	.66976E-01	168	.66976E-01	169	.66876E-01	170	.66876E-01
171	.66783E-01	172	.66783E-01	173	.66698E-01	174	.66698E-01	175	.66619E-01	176	.66619E-01
177	.66546E-01	178	.66546E-01	179	.66479E-01	180	.66479E-01	181	.66417E-01	182	.66417E-01
183	.66359E-01	184	.66359E-01	185	.66306E-01	186	.66306E-01	187	.66258E-01	188	.66258E-01
189	.66212E-01	190	.66212E-01	191	.66171E-01	192	.66171E-01	193	.66133E-01	194	.66133E-01
195	.66097E-01	196	.66097E-01	197	.66064E-01	198	.66064E-01	199	.66034E-01	200	.66034E-01
201	.66006E-01	202	.66006E-01	203	.65981E-01	204	.65981E-01	205	.65957E-01	206	.65957E-01
207	.65935E-01	208	.65935E-01	209	.65915E-01	210	.65915E-01	211	.65897E-01	212	.65897E-01
213	.65880E-01	214	.65880E-01	215	.65864E-01	216	.65864E-01	217	.65850E-01	218	.65850E-01
219	.65836E-01	220	.65836E-01	221	.65824E-01	222	.65824E-01	223	.65812E-01	224	.65812E-01

TORAGE CHECK

THE DIMENSION OF BD SHOULD BE GREATER THAN 897
THE DIMENSION OF BS SHOULD BE GREATER THAN 3051

Nam the Input File: grn1b.INU
Name of the Output File: grn1b.UNS
Name of the Plot File: grn1b.PRN

NO COVER
FIXED U.B. FLUX 2E 10^-8
FIXED L.B. -420cm

VERTICAL PLANE FLOW

REEN RIVER: 1) GRN5420 93% 2) GRN5350 95% 3) GRN5350 95%; 2.0E-08cm/s cover flux

UMBER OF NODAL POINTS------- 224
AX NODES IN A TRNSVRS LINE-- 2
UMBER OF ELEMENTS---------- 111
UMBER OF MATERIALS---------- 3
AX NUMBER OF ITERATIONS----- 100

UNITS ARE CONTROLED BY THE FOLLOWING CONSTANTS -

CONS1 = .100E+01 CONS2 = .100E+01

ATERIAL	K1	K2	POROSITY	SS	RWC	EN	ALPHA	ID MODEL
1	.86400E+01	.86400E+01	.33000E+00	.00000E+00	.25000E-01	.22500E+01	.34000E-02	1
2	.86400E+01	.86400E+01	.33000E+00	.00000E+00	.25000E-01	.22500E+01	.34000E-02	1
3	.51800E+02	.51800E+02	.45000E+00	.00000E+00	.30000E-01	.23260E+01	.50000E-02	1

ODAL POINT INFORMATION

NODE NO.	KODE	X,R	Y,Z	.PSI.	Q
1	1	.000000E+00	.000000E+00	-.420000E+03	.000000E+00
2	1	.750000E+01	.000000E+00	-.420000E+03	.000000E+00
3	0	.000000E+00	.500000E+01	-.650000E+03	.000000E+00
4	0	.750000E+01	.500000E+01	-.650000E+03	.000000E+00
5	0	.000000E+00	.100000E+02	-.650000E+03	.000000E+00
6	0	.750000E+01	.100000E+02	-.650000E+03	.000000E+00
7	0	.000000E+00	.150000E+02	-.650000E+03	.000000E+00
8	0	.750000E+01	.150000E+02	-.650000E+03	.000000E+00
9	0	.000000E+00	.200000E+02	-.650000E+03	.000000E+00
10	0	.750000E+01	.200000E+02	-.650000E+03	.000000E+00
	0	.000000E+00	.250000E+02	-.650000E+03	.000000E+00
	0	.750000E+01	.250000E+02	-.650000E+03	.000000E+00
13	0	.000000E+00	.300000E+02	-.650000E+03	.000000E+00
14	0	.750000E+01	.300000E+02	-.650000E+03	.000000E+00
15	0	.000000E+00	.350000E+02	-.650000E+03	.000000E+00
16	0	.750000E+01	.350000E+02	-.650000E+03	.000000E+00

17	0	.000000E+00	.400000E+02	-.650000E+03	.000000E+00
18	0	.750000E+01	.400000E+02	-.650000E+03	.000000E+00
19	0	.000000E+00	.450000E+02	-.650000E+03	.000000E+00
20	0	.750000E+01	.450000E+02	-.650000E+03	.000000E+00
21	0	.000000E+00	.500000E+02	-.650000E+03	.000000E+00
22	0	.750000E+01	.500000E+02	-.650000E+03	.000000E+00
23	0	.000000E+00	.550000E+02	-.650000E+03	.000000E+00
24	0	.750000E+01	.550000E+02	-.650000E+03	.000000E+00
25	0	.000000E+00	.600000E+02	-.650000E+03	.000000E+00
26	0	.750000E+01	.600000E+02	-.650000E+03	.000000E+00
27	0	.000000E+00	.650000E+02	-.650000E+03	.000000E+00
28	0	.750000E+01	.650000E+02	-.650000E+03	.000000E+00
29	0	.000000E+00	.700000E+02	-.650000E+03	.000000E+00
30	0	.750000E+01	.700000E+02	-.650000E+03	.000000E+00
31	0	.000000E+00	.750000E+02	-.650000E+03	.000000E+00
32	0	.750000E+01	.750000E+02	-.650000E+03	.000000E+00
33	0	.000000E+00	.800000E+02	-.650000E+03	.000000E+00
34	0	.750000E+01	.800000E+02	-.650000E+03	.000000E+00
35	0	.000000E+00	.850000E+02	-.650000E+03	.000000E+00
36	0	.750000E+01	.850000E+02	-.650000E+03	.000000E+00
37	0	.000000E+00	.900000E+02	-.650000E+03	.000000E+00
38	0	.750000E+01	.900000E+02	-.650000E+03	.000000E+00
39	0	.000000E+00	.950000E+02	-.650000E+03	.000000E+00
40	0	.750000E+01	.950000E+02	-.650000E+03	.000000E+00
41	0	.000000E+00	.100000E+03	-.650000E+03	.000000E+00
42	0	.750000E+01	.100000E+03	-.650000E+03	.000000E+00
43	0	.000000E+00	.105000E+03	-.650000E+03	.000000E+00
44	0	.750000E+01	.105000E+03	-.650000E+03	.000000E+00
45	0	.000000E+00	.110000E+03	-.650000E+03	.000000E+00
46	0	.750000E+01	.110000E+03	-.650000E+03	.000000E+00
47	0	.000000E+00	.115000E+03	-.650000E+03	.000000E+00
48	0	.750000E+01	.115000E+03	-.650000E+03	.000000E+00
49	0	.000000E+00	.120000E+03	-.650000E+03	.000000E+00
50	0	.750000E+01	.120000E+03	-.650000E+03	.000000E+00
51	0	.000000E+00	.125000E+03	-.650000E+03	.000000E+00
52	0	.750000E+01	.125000E+03	-.650000E+03	.000000E+00
53	0	.000000E+00	.130000E+03	-.650000E+03	.000000E+00
54	0	.750000E+01	.130000E+03	-.650000E+03	.000000E+00
55	0	.000000E+00	.135000E+03	-.650000E+03	.000000E+00
56	0	.750000E+01	.135000E+03	-.650000E+03	.000000E+00
57	0	.000000E+00	.140000E+03	-.650000E+03	.000000E+00
58	0	.750000E+01	.140000E+03	-.650000E+03	.000000E+00
59	0	.000000E+00	.145000E+03	-.650000E+03	.000000E+00
60	0	.750000E+01	.145000E+03	-.650000E+03	.000000E+00
61	0	.000000E+00	.150000E+03	-.650000E+03	.000000E+00
62	0	.750000E+01	.150000E+03	-.650000E+03	.000000E+00
63	0	.000000E+00	.155000E+03	-.650000E+03	.000000E+00
64	0	.750000E+01	.155000E+03	-.650000E+03	.000000E+00
65	0	.000000E+00	.160000E+03	-.650000E+03	.000000E+00
66	0	.750000E+01	.160000E+03	-.650000E+03	.000000E+00
67	0	.000000E+00	.165000E+03	-.650000E+03	.000000E+00
68	0	.750000E+01	.165000E+03	-.650000E+03	.000000E+00
69	0	.000000E+00	.170000E+03	-.650000E+03	.000000E+00
70	0	.750000E+01	.170000E+03	-.650000E+03	.000000E+00
71	0	.000000E+00	.175000E+03	-.650000E+03	.000000E+00
72	0	.750000E+01	.175000E+03	-.650000E+03	.000000E+00
73	0	.000000E+00	.180000E+03	-.650000E+03	.000000E+00
74	0	.750000E+01	.180000E+03	-.650000E+03	.000000E+00
75	0	.000000E+00	.200000E+03	-.650000E+03	.000000E+00
76	0	.750000E+01	.200000E+03	-.650000E+03	.000000E+00
77	0	.000000E+00	.220000E+03	-.650000E+03	.000000E+00
78	0	.750000E+01	.220000E+03	-.650000E+03	.000000E+00

79	0	.000000E+00	.240000E+03	-.650000E+03	.000000E+00
80	0	.750000E+01	.240000E+03	-.650000E+03	.000000E+00
81	0	.000000E+00	.260000E+03	-.650000E+03	.000000E+00
82	0	.750000E+01	.260000E+03	-.650000E+03	.000000E+00
83	0	.000000E+00	.280000E+03	-.650000E+03	.000000E+00
	0	.750000E+01	.280000E+03	-.650000E+03	.000000E+00
	0	.000000E+00	.300000E+03	-.650000E+03	.000000E+00
86	0	.750000E+01	.300000E+03	-.650000E+03	.000000E+00
87	0	.000000E+00	.320000E+03	-.650000E+03	.000000E+00
88	0	.750000E+01	.320000E+03	-.650000E+03	.000000E+00
89	0	.000000E+00	.340000E+03	-.650000E+03	.000000E+00
90	0	.750000E+01	.340000E+03	-.650000E+03	.000000E+00
91	0	.000000E+00	.360000E+03	-.650000E+03	.000000E+00
92	0	.750000E+01	.360000E+03	-.650000E+03	.000000E+00
93	0	.000000E+00	.380000E+03	-.650000E+03	.000000E+00
94	0	.750000E+01	.380000E+03	-.650000E+03	.000000E+00
95	0	.000000E+00	.400000E+03	-.650000E+03	.000000E+00
96	0	.750000E+01	.400000E+03	-.650000E+03	.000000E+00
97	0	.000000E+00	.420000E+03	-.650000E+03	.000000E+00
98	0	.750000E+01	.420000E+03	-.650000E+03	.000000E+00
99	0	.000000E+00	.440000E+03	-.650000E+03	.000000E+00
100	0	.750000E+01	.440000E+03	-.650000E+03	.000000E+00
101	0	.000000E+00	.460000E+03	-.650000E+03	.000000E+00
102	0	.750000E+01	.460000E+03	-.650000E+03	.000000E+00
103	0	.000000E+00	.480000E+03	-.650000E+03	.000000E+00
104	0	.750000E+01	.480000E+03	-.650000E+03	.000000E+00
105	0	.000000E+00	.500000E+03	-.650000E+03	.000000E+00
106	0	.750000E+01	.500000E+03	-.650000E+03	.000000E+00
107	0	.000000E+00	.520000E+03	-.650000E+03	.000000E+00
108	0	.750000E+01	.520000E+03	-.650000E+03	.000000E+00
109	0	.000000E+00	.540000E+03	-.650000E+03	.000000E+00
	0	.750000E+01	.540000E+03	-.650000E+03	.000000E+00
	0	.000000E+00	.560000E+03	-.650000E+03	.000000E+00
112	0	.750000E+01	.560000E+03	-.650000E+03	.000000E+00
113	0	.000000E+00	.580000E+03	-.650000E+03	.000000E+00
114	0	.750000E+01	.580000E+03	-.650000E+03	.000000E+00
115	0	.000000E+00	.600000E+03	-.650000E+03	.000000E+00
116	0	.750000E+01	.600000E+03	-.650000E+03	.000000E+00
117	0	.000000E+00	.620000E+03	-.650000E+03	.000000E+00
118	0	.750000E+01	.620000E+03	-.650000E+03	.000000E+00
119	0	.000000E+00	.640000E+03	-.650000E+03	.000000E+00
120	0	.750000E+01	.640000E+03	-.650000E+03	.000000E+00
121	0	.000000E+00	.660000E+03	-.650000E+03	.000000E+00
122	0	.750000E+01	.660000E+03	-.650000E+03	.000000E+00
123	0	.000000E+00	.680000E+03	-.650000E+03	.000000E+00
124	0	.750000E+01	.680000E+03	-.650000E+03	.000000E+00
125	0	.000000E+00	.700000E+03	-.650000E+03	.000000E+00
126	0	.750000E+01	.700000E+03	-.650000E+03	.000000E+00
127	0	.000000E+00	.720000E+03	-.650000E+03	.000000E+00
128	0	.750000E+01	.720000E+03	-.650000E+03	.000000E+00
129	0	.000000E+00	.740000E+03	-.650000E+03	.000000E+00
130	0	.750000E+01	.740000E+03	-.650000E+03	.000000E+00
131	0	.000000E+00	.760000E+03	-.650000E+03	.000000E+00
132	0	.750000E+01	.760000E+03	-.650000E+03	.000000E+00
133	0	.000000E+00	.780000E+03	-.650000E+03	.000000E+00
134	0	.750000E+01	.780000E+03	-.650000E+03	.000000E+00
	0	.000000E+00	.800000E+03	-.650000E+03	.000000E+00
136	0	.750000E+01	.800000E+03	-.650000E+03	.000000E+00
137	0	.000000E+00	.820000E+03	-.650000E+03	.000000E+00
138	0	.750000E+01	.820000E+03	-.650000E+03	.000000E+00
139	0	.000000E+00	.840000E+03	-.650000E+03	.000000E+00
140	0	.750000E+01	.840000E+03	-.650000E+03	.000000E+00

141	0	.000000E+00	.860000E+03	-.650000E+03	.000000E+00
142	0	.750000E+01	.860000E+03	-.650000E+03	.000000E+00
143	0	.000000E+00	.880000E+03	-.650000E+03	.000000E+00
144	0	.750000E+01	.880000E+03	-.650000E+03	.000000E+00
145	0	.000000E+00	.900000E+03	-.650000E+03	.000000E+00
146	0	.750000E+01	.900000E+03	-.650000E+03	.000000E+00
147	0	.000000E+00	.920000E+03	-.650000E+03	.000000E+00
148	0	.750000E+01	.920000E+03	-.650000E+03	.000000E+00
149	0	.000000E+00	.940000E+03	-.200000E+04	.000000E+00
150	0	.750000E+01	.940000E+03	-.200000E+04	.000000E+00
151	0	.000000E+00	.960000E+03	-.200000E+04	.000000E+00
152	0	.750000E+01	.960000E+03	-.200000E+04	.000000E+00
153	0	.000000E+00	.980000E+03	-.200000E+04	.000000E+00
154	0	.750000E+01	.980000E+03	-.200000E+04	.000000E+00
155	0	.000000E+00	.100000E+04	-.200000E+04	.000000E+00
156	0	.750000E+01	.100000E+04	-.200000E+04	.000000E+00
157	0	.000000E+00	.102000E+04	-.200000E+04	.000000E+00
158	0	.750000E+01	.102000E+04	-.200000E+04	.000000E+00
159	0	.000000E+00	.104000E+04	-.200000E+04	.000000E+00
160	0	.750000E+01	.104000E+04	-.200000E+04	.000000E+00
161	0	.000000E+00	.106000E+04	-.200000E+04	.000000E+00
162	0	.750000E+01	.106000E+04	-.200000E+04	.000000E+00
163	0	.000000E+00	.108000E+04	-.200000E+04	.000000E+00
164	0	.750000E+01	.108000E+04	-.200000E+04	.000000E+00
165	0	.000000E+00	.110000E+04	-.200000E+04	.000000E+00
166	0	.750000E+01	.110000E+04	-.200000E+04	.000000E+00
167	0	.000000E+00	.112000E+04	-.200000E+04	.000000E+00
168	0	.750000E+01	.112000E+04	-.200000E+04	.000000E+00
169	0	.000000E+00	.114000E+04	-.200000E+04	.000000E+00
170	0	.750000E+01	.114000E+04	-.200000E+04	.000000E+00
171	0	.000000E+00	.116000E+04	-.200000E+04	.000000E+00
172	0	.750000E+01	.116000E+04	-.200000E+04	.000000E+00
173	0	.000000E+00	.118000E+04	-.200000E+04	.000000E+00
174	0	.750000E+01	.118000E+04	-.200000E+04	.000000E+00
175	0	.000000E+00	.120000E+04	-.200000E+04	.000000E+00
176	0	.750000E+01	.120000E+04	-.200000E+04	.000000E+00
177	0	.000000E+00	.122000E+04	-.200000E+04	.000000E+00
178	0	.750000E+01	.122000E+04	-.200000E+04	.000000E+00
179	0	.000000E+00	.124000E+04	-.200000E+04	.000000E+00
180	0	.750000E+01	.124000E+04	-.200000E+04	.000000E+00
181	0	.000000E+00	.126000E+04	-.200000E+04	.000000E+00
182	0	.750000E+01	.126000E+04	-.200000E+04	.000000E+00
183	0	.000000E+00	.128000E+04	-.200000E+04	.000000E+00
184	0	.750000E+01	.128000E+04	-.200000E+04	.000000E+00
185	0	.000000E+00	.130000E+04	-.200000E+04	.000000E+00
186	0	.750000E+01	.130000E+04	-.200000E+04	.000000E+00
187	0	.000000E+00	.132000E+04	-.200000E+04	.000000E+00
188	0	.750000E+01	.132000E+04	-.200000E+04	.000000E+00
189	0	.000000E+00	.134000E+04	-.200000E+04	.000000E+00
190	0	.750000E+01	.134000E+04	-.200000E+04	.000000E+00
191	0	.000000E+00	.136000E+04	-.200000E+04	.000000E+00
192	0	.750000E+01	.136000E+04	-.200000E+04	.000000E+00
193	0	.000000E+00	.138000E+04	-.200000E+04	.000000E+00
194	0	.750000E+01	.138000E+04	-.200000E+04	.000000E+00
195	0	.000000E+00	.140000E+04	-.200000E+04	.000000E+00
196	0	.750000E+01	.140000E+04	-.200000E+04	.000000E+00
197	0	.000000E+00	.142000E+04	-.200000E+04	.000000E+00
198	0	.750000E+01	.142000E+04	-.200000E+04	.000000E+00
199	0	.000000E+00	.144000E+04	-.200000E+04	.000000E+00
200	0	.750000E+01	.144000E+04	-.200000E+04	.000000E+00
201	0	.000000E+00	.146000E+04	-.200000E+04	.000000E+00
202	0	.750000E+01	.146000E+04	-.200000E+04	.000000E+00

203	0	.000000E+00	.148000E+04	-.200000E+04	.000000E+00
204	0	.750000E+01	.148000E+04	-.200000E+04	.000000E+00
205	0	.000000E+00	.150000E+04	-.200000E+04	.000000E+00
206	0	.750000E+01	.150000E+04	-.200000E+04	.000000E+00
207	0	.000000E+00	.152000E+04	-.200000E+04	.000000E+00
	0	.750000E+01	.152000E+04	-.200000E+04	.000000E+00
	0	.000000E+00	.154000E+04	-.200000E+04	.000000E+00
210	0	.750000E+01	.154000E+04	-.200000E+04	.000000E+00
211	0	.000000E+00	.156000E+04	-.200000E+04	.000000E+00
212	0	.750000E+01	.156000E+04	-.200000E+04	.000000E+00
213	0	.000000E+00	.158000E+04	-.200000E+04	.000000E+00
214	0	.750000E+01	.158000E+04	-.200000E+04	.000000E+00
215	0	.000000E+00	.160000E+04	-.200000E+04	.000000E+00
216	0	.750000E+01	.160000E+04	-.200000E+04	.000000E+00
217	0	.000000E+00	.162000E+04	-.200000E+04	.000000E+00
218	0	.750000E+01	.162000E+04	-.200000E+04	.000000E+00
219	0	.000000E+00	.164000E+04	-.200000E+04	.000000E+00
220	0	.750000E+01	.164000E+04	-.200000E+04	.000000E+00
221	0	.000000E+00	.166000E+04	-.200000E+04	.000000E+00
222	0	.750000E+01	.166000E+04	-.200000E+04	.000000E+00
223	0	.000000E+00	.168000E+04	-.200000E+04	.648000E-02
224	0	.750000E+01	.168000E+04	-.200000E+04	.648000E-02

ELEMENT INFORMATION

ELEMENT	CORNER NODES				MATERIAL	ANGLE
1	1	2	4	3	1	.000E+00
	3	4	6	5	1	.000E+00
	5	6	8	7	1	.000E+00
4	7	8	10	9	1	.000E+00
5	9	10	12	11	1	.000E+00
6	11	12	14	13	1	.000E+00
7	13	14	16	15	1	.000E+00
8	15	16	18	17	1	.000E+00
9	17	18	20	19	1	.000E+00
10	19	20	22	21	1	.000E+00
11	21	22	24	23	1	.000E+00
12	23	24	26	25	1	.000E+00
13	25	26	28	27	1	.000E+00
14	27	28	30	29	1	.000E+00
15	29	30	32	31	1	.000E+00
16	31	32	34	33	1	.000E+00
17	33	34	36	35	1	.000E+00
18	35	36	38	37	1	.000E+00
19	37	38	40	39	1	.000E+00
20	39	40	42	41	1	.000E+00
21	41	42	44	43	1	.000E+00
22	43	44	46	45	1	.000E+00
23	45	46	48	47	1	.000E+00
24	47	48	50	49	1	.000E+00
25	49	50	52	51	1	.000E+00
26	51	52	54	53	1	.000E+00
	53	54	56	55	1	.000E+00
	55	56	58	57	1	.000E+00
29	57	58	60	59	1	.000E+00
30	59	60	62	61	1	.000E+00
31	61	62	64	63	1	.000E+00
32	63	64	66	65	1	.000E+00

33	65	66	68	67	1	.000E+00
34	67	68	70	69	1	.000E+00
35	69	70	72	71	1	.000E+00
36	71	72	74	73	2	.000E+00
37	73	74	76	75	2	.000E+00
38	75	76	78	77	2	.000E+00
39	77	78	80	79	2	.000E+00
40	79	80	82	81	2	.000E+00
41	81	82	84	83	2	.000E+00
42	83	84	86	85	2	.000E+00
43	85	86	88	87	2	.000E+00
44	87	88	90	89	2	.000E+00
45	89	90	92	91	2	.000E+00
46	91	92	94	93	2	.000E+00
47	93	94	96	95	2	.000E+00
48	95	96	98	97	2	.000E+00
49	97	98	100	99	2	.000E+00
50	99	100	102	101	2	.000E+00
51	101	102	104	103	2	.000E+00
52	103	104	106	105	2	.000E+00
53	105	106	108	107	2	.000E+00
54	107	108	110	109	2	.000E+00
55	109	110	112	111	2	.000E+00
56	111	112	114	113	2	.000E+00
57	113	114	116	115	2	.000E+00
58	115	116	118	117	2	.000E+00
59	117	118	120	119	2	.000E+00
60	119	120	122	121	2	.000E+00
61	121	122	124	123	2	.000E+00
62	123	124	126	125	2	.000E+00
63	125	126	128	127	2	.000E+00
64	127	128	130	129	2	.000E+00
65	129	130	132	131	2	.000E+00
66	131	132	134	133	2	.000E+00
67	133	134	136	135	2	.000E+00
68	135	136	138	137	2	.000E+00
69	137	138	140	139	2	.000E+00
70	139	140	142	141	2	.000E+00
71	141	142	144	143	2	.000E+00
72	143	144	146	145	2	.000E+00
73	145	146	148	147	2	.000E+00
74	147	148	150	149	3	.000E+00
75	149	150	152	151	3	.000E+00
76	151	152	154	153	3	.000E+00
77	153	154	156	155	3	.000E+00
78	155	156	158	157	3	.000E+00
79	157	158	160	159	3	.000E+00
80	159	160	162	161	3	.000E+00
81	161	162	164	163	3	.000E+00
82	163	164	166	165	3	.000E+00
83	165	166	168	167	3	.000E+00
84	167	168	170	169	3	.000E+00
85	169	170	172	171	3	.000E+00
86	171	172	174	173	3	.000E+00
87	173	174	176	175	3	.000E+00
88	175	176	178	177	3	.000E+00
89	177	178	180	179	3	.000E+00
90	179	180	182	181	3	.000E+00
91	181	182	184	183	3	.000E+00
92	183	184	186	185	3	.000E+00
93	185	186	188	187	3	.000E+00
94	187	188	190	189	3	.000E+00

95	189	190	192	191	3	.000E+00
96	191	192	194	193	3	.000E+00
97	193	194	196	195	3	.000E+00
98	195	196	198	197	3	.000E+00
99	197	198	200	199	3	.000E+00
100	199	200	202	201	3	.000E+00
10	201	202	204	203	3	.000E+00
102	203	204	206	205	3	.000E+00
103	205	206	208	207	3	.000E+00
104	207	208	210	209	3	.000E+00
105	209	210	212	211	3	.000E+00
106	211	212	214	213	3	.000E+00
107	213	214	216	215	3	.000E+00
108	215	216	218	217	3	.000E+00
109	217	218	220	219	3	.000E+00
110	219	220	222	221	3	.000E+00
111	221	222	224	223	3	.000E+00

GREEN RIVER: 1) GRN542@93% 2) GRN535@95% 3) GRN535@95%; 2.0E-08cm/s cover flux

TIME = 5.0000 TIME STEP = 1

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .13880E+03 AT NODE 149

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 3 WAS .16151E+02 AT NODE 152

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 4 WAS .30201E+01 AT NODE 149

CUMULATIVE INFLOW INTO SYSTEM IS = .11802E+02
CUMULATIVE OUTFLOW FROM SYSTEM IS = .00000E+00
CUMULATIVE CHANGE IN SYSTEM IS = .11802E+02

NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.42000E+03	-.42000E+03	.10504E+01	2	-.42000E+03	-.42000E+03	.12971E+01	3	-.43141E+03	-.43641E+03	.00000E+00
4	-.43021E+03	-.43521E+03	.00000E+00	5	-.44888E+03	-.45888E+03	.00000E+00	6	-.44848E+03	-.45848E+03	.00000E+00
7	-.46504E+03	-.48004E+03	.00000E+00	8	-.46489E+03	-.47989E+03	.00000E+00	9	-.47965E+03	-.49965E+03	.00000E+00
10	-.47958E+03	-.49958E+03	.00000E+00	11	-.49262E+03	-.51762E+03	.00000E+00	12	-.49258E+03	-.51758E+03	.00000E+00
13	-.50395E+03	-.53395E+03	.00000E+00	14	-.50392E+03	-.53392E+03	.00000E+00	15	-.51367E+03	-.54867E+03	.00000E+00
16	-.51365E+03	-.54865E+03	.00000E+00	17	-.52185E+03	-.56185E+03	.00000E+00	18	-.52183E+03	-.56183E+03	.00000E+00
19	-.52857E+03	-.57357E+03	.00000E+00	20	-.52856E+03	-.57356E+03	.00000E+00	21	-.53394E+03	-.58394E+03	.00000E+00
22	[illegible]3393E+03	-.58393E+03	.00000E+00	23	-.53805E+03	-.59305E+03	.00000E+00	24	-.53804E+03	-.59304E+03	.00000E+00
25	[illegible].102E+03	-.60102E+03	.00000E+00	26	-.54101E+03	-.60101E+03	.00000E+00	27	-.54297E+03	-.60797E+03	.00000E+00
28	-.54296E+03	-.60796E+03	.00000E+00	29	-.54399E+03	-.61399E+03	.00000E+00	30	-.54399E+03	-.61399E+03	.00000E+00
31	-.54421E+03	-.61921E+03	.00000E+00	32	-.54421E+03	-.61921E+03	.00000E+00	33	-.54370E+03	-.62370E+03	.00000E+00
34	-.54370E+03	-.62370E+03	.00000E+00	35	-.54257E+03	-.62757E+03	.00000E+00	36	-.54257E+03	-.62757E+03	.00000E+00
37	-.54089E+03	-.63089E+03	.00000E+00	38	-.54089E+03	-.63089E+03	.00000E+00	39	-.53873E+03	-.63373E+03	.00000E+00

40	-.53873E+03	-.63373E+03	.00000E+00	41	-.53617E+03	-.63617E+03	.00000E+00	42	-.53617E+03	-.63617E+03	.00000E+00
43	-.53324E+03	-.63824E+03	.00000E+00	44	-.53324E+03	-.63824E+03	.00000E+00	45	-.53001E+03	-.64001E+03	.00000E+00
46	-.53001E+03	-.64001E+03	.00000E+00	47	-.52652E+03	-.64152E+03	.00000E+00	48	-.52652E+03	-.64152E+03	.00000E+00
49	-.52280E+03	-.64280E+03	.00000E+00	50	-.52280E+03	-.64280E+03	.00000E+00	51	-.51890E+03	-.64390E+03	.00000E+00
52	-.51890E+03	-.64390E+03	.00000E+00	53	-.51482E+03	-.64482E+03	.00000E+00	54	-.51482E+03	-.64482E+03	.00000E+00
55	-.51061E+03	-.64561E+03	.00000E+00	56	-.51061E+03	-.64561E+03	.00000E+00	57	-.50628E+03	-.64628E+03	.000[illegible]
58	-.50628E+03	-.64628E+03	.00000E+00	59	-.50185E+03	-.64685E+03	.00000E+00	60	-.50185E+03	-.64685E+03	.000[illegible]
61	-.49733E+03	-.64733E+03	.00000E+00	62	-.49733E+03	-.64733E+03	.00000E+00	63	-.49274E+03	-.64774E+03	.00000E+00
64	-.49274E+03	-.64774E+03	.00000E+00	65	-.48809E+03	-.64809E+03	.00000E+00	66	-.48809E+03	-.64809E+03	.00000E+00
67	-.48339E+03	-.64839E+03	.00000E+00	68	-.48339E+03	-.64839E+03	.00000E+00	69	-.47864E+03	-.64864E+03	.00000E+00
70	-.47864E+03	-.64864E+03	.00000E+00	71	-.47385E+03	-.64885E+03	.00000E+00	72	-.47385E+03	-.64885E+03	.00000E+00
73	-.46904E+03	-.64904E+03	.00000E+00	74	-.46903E+03	-.64903E+03	.00000E+00	75	-.44950E+03	-.64950E+03	.00000E+00
76	-.44950E+03	-.64950E+03	.00000E+00	77	-.42974E+03	-.64974E+03	.00000E+00	78	-.42974E+03	-.64974E+03	.00000E+00
79	-.40987E+03	-.64987E+03	.00000E+00	80	-.40987E+03	-.64987E+03	.00000E+00	81	-.38993E+03	-.64993E+03	.00000E+00
82	-.38993E+03	-.64993E+03	.00000E+00	83	-.36996E+03	-.64996E+03	.00000E+00	84	-.36996E+03	-.64996E+03	.00000E+00
85	-.34998E+03	-.64998E+03	.00000E+00	86	-.34998E+03	-.64998E+03	.00000E+00	87	-.32999E+03	-.64999E+03	.00000E+00
88	-.32999E+03	-.64999E+03	.00000E+00	89	-.31000E+03	-.65000E+03	.00000E+00	90	-.31000E+03	-.65000E+03	.00000E+00
91	-.29000E+03	-.65000E+03	.00000E+00	92	-.29000E+03	-.65000E+03	.00000E+00	93	-.27000E+03	-.65000E+03	.00000E+00
94	-.27000E+03	-.65000E+03	.00000E+00	95	-.25000E+03	-.65000E+03	.00000E+00	96	-.25000E+03	-.65000E+03	.00000E+00
97	-.23000E+03	-.65000E+03	.00000E+00	98	-.23000E+03	-.65000E+03	.00000E+00	99	-.21000E+03	-.65000E+03	.00000E+00
100	-.21000E+03	-.65000E+03	.00000E+00	101	-.19000E+03	-.65000E+03	.00000E+00	102	-.19000E+03	-.65000E+03	.00000E+00
103	-.17000E+03	-.65000E+03	.00000E+00	104	-.17000E+03	-.65000E+03	.00000E+00	105	-.15000E+03	-.65000E+03	.00000E+00
106	-.15000E+03	-.65000E+03	.00000E+00	107	-.13000E+03	-.65000E+03	.00000E+00	108	-.13000E+03	-.65000E+03	.00000E+00
109	-.11000E+03	-.65000E+03	.00000E+00	110	-.11000E+03	-.65000E+03	.00000E+00	111	-.90004E+02	-.65000E+03	.00000E+00
112	-.90003E+02	-.65000E+03	.00000E+00	113	-.70006E+02	-.65001E+03	.00000E+00	114	-.70006E+02	-.65001E+03	.00000E+00
115	-.50010E+02	-.65001E+03	.00000E+00	116	-.50010E+02	-.65001E+03	.00000E+00	117	-.30018E+02	-.65002E+03	.00000E+00
118	-.30018E+02	-.65002E+03	.00000E+00	119	-.10032E+02	-.65003E+03	.00000E+00	120	-.10032E+02	-.65003E+03	.00000E+00
121	.99432E+01	-.65006E+03	.00000E+00	122	.99433E+01	-.65006E+03	.00000E+00	123	.29898E+02	-.65010E+03	.00000E+00
124	.29898E+02	-.65010E+03	.00000E+00	125	.49816E+02	-.65018E+03	.00000E+00	126	.49816E+02	-.65018E+03	.00000E+00
127	.69670E+02	-.65033E+03	.00000E+00	128	.69671E+02	-.65033E+03	.00000E+00	129	.89408E+02	-.65059E+03	.00000E+00
130	.89408E+02	-.65059E+03	.00000E+00	131	.10893E+03	-.65107E+03	.00000E+00	132	.10894E+03	-.65106E+03	.00000E+00
133	.12808E+03	-.65192E+03	.00000E+00	134	.12808E+03	-.65192E+03	.00000E+00	135	.14654E+03	-.65346E+03	.000[illegible]
136	.14654E+03	-.65346E+03	.00000E+00	137	.16374E+03	-.65626E+03	.00000E+00	138	.16375E+03	-.65625E+03	.000[illegible]
139	.17865E+03	-.66135E+03	.00000E+00	140	.17865E+03	-.66135E+03	.00000E+00	141	.18923E+03	-.67077E+03	.00000E+00
142	.18923E+03	-.67077E+03	.00000E+00	143	.19145E+03	-.68855E+03	.00000E+00	144	.19143E+03	-.68857E+03	.00000E+00
145	.17640E+03	-.72360E+03	.00000E+00	146	.17624E+03	-.72376E+03	.00000E+00	147	.12150E+03	-.79850E+03	.00000E+00
148	.11891E+03	-.80109E+03	.00000E+00	149	-.21499E+03	-.11550E+04	.00000E+00	150	-.21069E+03	-.11507E+04	.00000E+00
151	-.93762E+03	-.18976E+04	.00000E+00	152	-.93095E+03	-.18909E+04	.00000E+00	153	-.10127E+04	-.19927E+04	.00000E+00
154	-.10124E+04	-.19924E+04	.00000E+00	155	-.99951E+03	-.19995E+04	.00000E+00	156	-.99950E+03	-.19995E+04	.00000E+00
157	-.97997E+03	-.20000E+04	.00000E+00	158	-.97997E+03	-.20000E+04	.00000E+00	159	-.96000E+03	-.20000E+04	.00000E+00
160	-.96000E+03	-.20000E+04	.00000E+00	161	-.94000E+03	-.20000E+04	.00000E+00	162	-.94000E+03	-.20000E+04	.00000E+00
163	-.92000E+03	-.20000E+04	.00000E+00	164	-.92000E+03	-.20000E+04	.00000E+00	165	-.90000E+03	-.20000E+04	.00000E+00
166	-.90000E+03	-.20000E+04	.00000E+00	167	-.88000E+03	-.20000E+04	.00000E+00	168	-.88000E+03	-.20000E+04	.00000E+00
169	-.86000E+03	-.20000E+04	.00000E+00	170	-.86000E+03	-.20000E+04	.00000E+00	171	-.84000E+03	-.20000E+04	.00000E+00
172	-.84000E+03	-.20000E+04	.00000E+00	173	-.82000E+03	-.20000E+04	.00000E+00	174	-.82000E+03	-.20000E+04	.00000E+00
175	-.80000E+03	-.20000E+04	.00000E+00	176	-.80000E+03	-.20000E+04	.00000E+00	177	-.78000E+03	-.20000E+04	.00000E+00
178	-.78000E+03	-.20000E+04	.00000E+00	179	-.76000E+03	-.20000E+04	.00000E+00	180	-.76000E+03	-.20000E+04	.00000E+00
181	-.74000E+03	-.20000E+04	.00000E+00	182	-.74000E+03	-.20000E+04	.00000E+00	183	-.72000E+03	-.20000E+04	.00000E+00
184	-.72000E+03	-.20000E+04	.00000E+00	185	-.70000E+03	-.20000E+04	.00000E+00	186	-.70000E+03	-.20000E+04	.00000E+00
187	-.68000E+03	-.20000E+04	.00000E+00	188	-.68000E+03	-.20000E+04	.00000E+00	189	-.66000E+03	-.20000E+04	.00000E+00
190	-.66000E+03	-.20000E+04	.00000E+00	191	-.64000E+03	-.20000E+04	.00000E+00	192	-.64000E+03	-.20000E+04	.00000E+00
193	-.62000E+03	-.20000E+04	.00000E+00	194	-.62000E+03	-.20000E+04	.00000E+00	195	-.60000E+03	-.20000E+04	.00000E+00
196	-.60000E+03	-.20000E+04	.00000E+00	197	-.58000E+03	-.20000E+04	.00000E+00	198	-.58000E+03	-.20000E+04	.00000E+00
199	-.56000E+03	-.20000E+04	.00000E+00	200	-.56000E+03	-.20000E+04	.00000E+00	201	-.54000E+03	-.20000E+04	.00000E+00
202	-.54000E+03	-.20000E+04	.00000E+00	203	-.52000E+03	-.20000E+04	.00000E+00	204	-.52000E+03	-.20000E+04	.00000E+00
205	-.50000E+03	-.20000E+04	.00000E+00	206	-.50000E+03	-.20000E+04	.00000E+00	207	-.48000E+03	-.20000E+04	.00000E+00
208	-.48000E+03	-.20000E+04	.00000E+00	209	-.46000E+03	-.20000E+04	.00000E+00	210	-.46000E+03	-.20000E+04	.00[illegible]0
211	-.44000E+03	-.20000E+04	.00000E+00	212	-.44000E+03	-.20000E+04	.00000E+00	213	-.42000E+03	-.20000E+04	.00[illegible]00
214	-.42000E+03	-.20000E+04	.00000E+00	215	-.40000E+03	-.20000E+04	.00000E+00	216	-.40000E+03	-.20000E+04	.00000E+00
217	-.37998E+03	-.20000E+04	.00000E+00	218	-.37998E+03	-.20000E+04	.00000E+00	219	-.35973E+03	-.19997E+04	.00000E+00
220	-.35974E+03	-.19997E+04	.00000E+00	221	-.33597E+03	-.19960E+04	.00000E+00	222	-.33626E+03	-.19963E+04	.00000E+00
223	-.25937E+03	-.19394E+04	.64800E-02	224	-.27000E+03	-.19500E+04	.64800E-02	0	.00000E+00	.00000E+00	.00000E+00

)ISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.18403E+00	2	.18403E+00	3	.17879E+00	4	.17916E+00	5	.17199E+00	6	.17211E+00
[illegible]	.16598E+00	8	.16602E+00	9	.16073E+00	10	.16075E+00	11	.15616E+00	12	.15617E+00
13	.15222E+00	14	.15222E+00	15	.14881E+00	16	.14882E+00	17	.14588E+00	18	.14589E+00
19	.14337E+00	20	.14337E+00	21	.14121E+00	22	.14122E+00	23	.13937E+00	24	.13937E+00
25	.13780E+00	26	.13780E+00	27	.13645E+00	28	.13645E+00	29	.13530E+00	30	.13530E+00
31	.13433E+00	32	.13433E+00	33	.13350E+00	34	.13350E+00	35	.13279E+00	36	.13279E+00
37	.13219E+00	38	.13219E+00	39	.13168E+00	40	.13168E+00	41	.13125E+00	42	.13125E+00
43	.13088E+00	44	.13088E+00	45	.13057E+00	46	.13057E+00	47	.13030E+00	48	.13030E+00
49	.13008E+00	50	.13008E+00	51	.12989E+00	52	.12989E+00	53	.12973E+00	54	.12973E+00
55	.12959E+00	56	.12959E+00	57	.12948E+00	58	.12948E+00	59	.12938E+00	60	.12938E+00
61	.12930E+00	62	.12930E+00	63	.12922E+00	64	.12922E+00	65	.12917E+00	66	.12917E+00
67	.12911E+00	68	.12911E+00	69	.12907E+00	70	.12907E+00	71	.12903E+00	72	.12903E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

OISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.12903E+00	72	.12903E+00	73	.12900E+00	74	.12900E+00	75	.12892E+00	76	.12892E+00
77	.12888E+00	78	.12888E+00	79	.12886E+00	80	.12886E+00	81	.12885E+00	82	.12885E+00
83	.12884E+00	84	.12884E+00	85	.12884E+00	86	.12884E+00	87	.12884E+00	88	.12884E+00
89	.12884E+00	90	.12884E+00	91	.12884E+00	92	.12884E+00	93	.12884E+00	94	.12884E+00
95	.12884E+00	96	.12884E+00	97	.12884E+00	98	.12884E+00	99	.12884E+00	100	.12884E+00
101	.12884E+00	102	.12884E+00	103	.12884E+00	104	.12884E+00	105	.12884E+00	106	.12884E+00
107	.12884E+00	108	.12884E+00	109	.12884E+00	110	.12884E+00	111	.12884E+00	112	.12884E+00
113	.12884E+00	114	.12884E+00	115	.12884E+00	116	.12884E+00	117	.12884E+00	118	.12884E+00
11[illegible]	.12883E+00	120	.12883E+00	121	.12883E+00	122	.12883E+00	123	.12882E+00	124	.12882E+00
1[illegible]	.12881E+00	126	.12881E+00	127	.12878E+00	128	.12878E+00	129	.12874E+00	130	.12874E+00
131	.12866E+00	132	.12866E+00	133	.12851E+00	134	.12851E+00	135	.12825E+00	136	.12825E+00
137	.12778E+00	138	.12778E+00	139	.12693E+00	140	.12693E+00	141	.12538E+00	142	.12538E+00
143	.12257E+00	144	.12257E+00	145	.11740E+00	146	.11738E+00	147	.10777E+00	148	.10747E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

101STURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.95509E-01	148	.95239E-01	149	.70671E-01	150	.70869E-01	151	.51193E-01	152	.51292E-01
153	.49870E-01	154	.49873E-01	155	.49780E-01	156	.49780E-01	157	.49774E-01	158	.49774E-01
159	.49774E-01	160	.49774E-01	161	.49773E-01	162	.49773E-01	163	.49773E-01	164	.49773E-01
165	.49773E-01	166	.49773E-01	167	.49773E-01	168	.49773E-01	169	.49773E-01	170	.49773E-01
171	.49773E-01	172	.49773E-01	173	.49773E-01	174	.49773E-01	175	.49773E-01	176	.49773E-01
177	.49773E-01	178	.49773E-01	179	.49773E-01	180	.49773E-01	181	.49773E-01	182	.49773E-01
183	.49773E-01	184	.49773E-01	185	.49773E-01	186	.49773E-01	187	.49773E-01	188	.49773E-01
189	.49773E-01	190	.49773E-01	191	.49773E-01	192	.49773E-01	193	.49773E-01	194	.49773E-01
195	.49773E-01	196	.49773E-01	197	.49773E-01	198	.49773E-01	199	.49773E-01	200	.49773E-01
201	.49773E-01	202	.49773E-01	203	.49773E-01	204	.49773E-01	205	.49773E-01	206	.49773E-01
207	.49773E-01	208	.49773E-01	209	.49773E-01	210	.49773E-01	211	.49773E-01	212	.49773E-01
213	.49773E-01	214	.49773E-01	215	.49774E-01	216	.49774E-01	217	.49774E-01	218	.49774E-01
219	.49777E-01	220	.49777E-01	221	.49826E-01	222	.49822E-01	223	.50593E-01	224	.50445E-01

GREEN RIVER: 1) GRN5420 93% 2) GRN5350 95% 3) GRN5350 95%; 2.0E-08cm/s cover flux

TIME = 67857.5900 TIME STEP = 150

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .20264E-01 AT NODE 208

CUMULATIVE INFLOW INTO SYSTEM IS = .91000E+03
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.89046E+03
CUMULATIVE CHANGE IN SYSTEM IS = .19541E+02

NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.42000E+03	-.42000E+03	-.63680E-02	2	-.42000E+03	-.42000E+03	-.64602E-02	3	-.41996E+03	-.42496E+03	.00000E+00
4	-.41996E+03	-.42496E+03	.00000E+00	5	-.41992E+03	-.42992E+03	.00000E+00	6	-.41992E+03	-.42992E+03	.00000E+00
7	-.41987E+03	-.43487E+03	.00000E+00	8	-.41987E+03	-.43487E+03	.00000E+00	9	-.41983E+03	-.43983E+03	.00000E+00
10	-.41983E+03	-.43983E+03	.00000E+00	11	-.41978E+03	-.44478E+03	.00000E+00	12	-.41978E+03	-.44478E+03	.00000E+00
13	-.41973E+03	-.44973E+03	.00000E+00	14	-.41973E+03	-.44973E+03	.00000E+00	15	-.41968E+03	-.45468E+03	.00000E+00
16	-.41968E+03	-.45468E+03	.00000E+00	17	-.41962E+03	-.45962E+03	.00000E+00	18	-.41962E+03	-.45962E+03	.00000E+00
19	-.41956E+03	-.46456E+03	.00000E+00	20	-.41956E+03	-.46456E+03	.00000E+00	21	-.41950E+03	-.46950E+03	.00000E+00
22	-.41950E+03	-.46950E+03	.00000E+00	23	-.41944E+03	-.47444E+03	.00000E+00	24	-.41944E+03	-.47444E+03	.00000E+00
25	-.41937E+03	-.47937E+03	.00000E+00	26	-.41937E+03	-.47937E+03	.00000E+00	27	-.41931E+03	-.48431E+03	.00000E+00
28	-.41931E+03	-.48431E+03	.00000E+00	29	-.41923E+03	-.48923E+03	.00000E+00	30	-.41923E+03	-.48923E+03	.00000E+00
31	-.41916E+03	-.49416E+03	.00000E+00	32	-.41916E+03	-.49416E+03	.00000E+00	33	-.41908E+03	-.49908E+03	.00000E+00
34	-.41908E+03	-.49908E+03	.00000E+00	35	-.41900E+03	-.50400E+03	.00000E+00	36	-.41900E+03	-.50400E+03	.00000E+00
37	-.41892E+03	-.50892E+03	.00000E+00	38	-.41892E+03	-.50892E+03	.00000E+00	39	-.41883E+03	-.51383E+03	.00[illegible]
40	-.41883E+03	-.51383E+03	.00000E+00	41	-.41874E+03	-.51874E+03	.00000E+00	42	-.41874E+03	-.51874E+03	.000[illegible]
43	-.41864E+03	-.52364E+03	.00000E+00	44	-.41864E+03	-.52364E+03	.00000E+00	45	-.41855E+03	-.52855E+03	.00000E+00
46	-.41855E+03	-.52855E+03	.00000E+00	47	-.41844E+03	-.53344E+03	.00000E+00	48	-.41844E+03	-.53344E+03	.00000E+00
49	-.41834E+03	-.53834E+03	.00000E+00	50	-.41834E+03	-.53834E+03	.00000E+00	51	-.41822E+03	-.54322E+03	.00000E+00
52	-.41822E+03	-.54322E+03	.00000E+00	53	-.41811E+03	-.54811E+03	.00000E+00	54	-.41811E+03	-.54811E+03	.00000E+00
55	-.41799E+03	-.55299E+03	.00000E+00	56	-.41799E+03	-.55299E+03	.00000E+00	57	-.41786E+03	-.55786E+03	.00000E+00
58	-.41786E+03	-.55786E+03	.00000E+00	59	-.41773E+03	-.56273E+03	.00000E+00	60	-.41773E+03	-.56273E+03	.00000E+00
61	-.41760E+03	-.56760E+03	.00000E+00	62	-.41760E+03	-.56760E+03	.00000E+00	63	-.41746E+03	-.57246E+03	.00000E+00
64	-.41746E+03	-.57246E+03	.00000E+00	65	-.41731E+03	-.57731E+03	.00000E+00	66	-.41731E+03	-.57731E+03	.00000E+00
67	-.41716E+03	-.58216E+03	.00000E+00	68	-.41716E+03	-.58216E+03	.00000E+00	69	-.41701E+03	-.58701E+03	.00000E+00
70	-.41701E+03	-.58701E+03	.00000E+00	71	-.41684E+03	-.59184E+03	.00000E+00	72	-.41684E+03	-.59184E+03	.00000E+00
73	-.41668E+03	-.59668E+03	.00000E+00	74	-.41668E+03	-.59668E+03	.00000E+00	75	-.41594E+03	-.61594E+03	.00000E+00
76	-.41594E+03	-.61594E+03	.00000E+00	77	-.41510E+03	-.63510E+03	.00000E+00	78	-.41510E+03	-.63510E+03	.00000E+00
79	-.41414E+03	-.65414E+03	.00000E+00	80	-.41414E+03	-.65414E+03	.00000E+00	81	-.41304E+03	-.67304E+03	.00000E+00
82	-.41304E+03	-.67304E+03	.00000E+00	83	-.41179E+03	-.69179E+03	.00000E+00	84	-.41179E+03	-.69179E+03	.00000E+00
85	-.41038E+03	-.71038E+03	.00000E+00	86	-.41038E+03	-.71038E+03	.00000E+00	87	-.40878E+03	-.72878E+03	.00000E+00
88	-.40878E+03	-.72878E+03	.00000E+00	89	-.40699E+03	-.74699E+03	.00000E+00	90	-.40699E+03	-.74699E+03	.00000E+00
91	-.40498E+03	-.76498E+03	.00000E+00	92	-.40498E+03	-.76498E+03	.00000E+00	93	-.40274E+03	-.78274E+03	.00000E+00
94	-.40274E+03	-.78274E+03	.00000E+00	95	-.40024E+03	-.80024E+03	.00000E+00	96	-.40024E+03	-.80024E+03	.00000E+00
97	-.39748E+03	-.81748E+03	.00000E+00	98	-.39748E+03	-.81748E+03	.00000E+00	99	-.39443E+03	-.83443E+03	.00000E+00
100	-.39443E+03	-.83443E+03	.00000E+00	101	-.39106E+03	-.85106E+03	.00000E+00	102	-.39106E+03	-.85106E+03	.00000E+00
103	-.38738E+03	-.86738E+03	.00000E+00	104	-.38738E+03	-.86738E+03	.00000E+00	105	-.38334E+03	-.88334E+03	.00000E+00
106	-.38334E+03	-.88334E+03	.00000E+00	107	-.37895E+03	-.89895E+03	.00000E+00	108	-.37895E+03	-.89895E+03	.00000E+00
109	-.37418E+03	-.91418E+03	.00000E+00	110	-.37418E+03	-.91418E+03	.00000E+00	111	-.36901E+03	-.92901E+03	.000[illegible]00
112	-.36902E+03	-.92901E+03	.00000E+00	113	-.36344E+03	-.94344E+03	.00000E+00	114	-.36344E+03	-.94344E+03	.00[illegible]
115	-.35744E+03	-.95744E+03	.00000E+00	116	-.35744E+03	-.95744E+03	.00000E+00	117	-.35101E+03	-.97101E+03	.000[illegible]00
118	-.35101E+03	-.97101E+03	.00000E+00	119	-.34414E+03	-.98414E+03	.00000E+00	120	-.34414E+03	-.98414E+03	.00000E+00
121	-.33681E+03	-.99681E+03	.00000E+00	122	-.33681E+03	-.99681E+03	.00000E+00	123	-.32902E+03	-.10090E+04	.00000E+00
124	-.32902E+03	-.10090E+04	.00000E+00	125	-.32077E+03	-.10208E+04	.00000E+00	126	-.32077E+03	-.10208E+04	.00000E+00
127	-.31204E+03	-.10320E+04	.00000E+00	128	-.31204E+03	-.10320E+04	.00000E+00	129	-.30285E+03	-.10429E+04	.00000E+00

130	-.30285E+03	-.10429E+04	.00000E+00	131	-.29319E+03	-.10532E+04	.00000E+00	132	-.29319E+03	-.10532E+04	.00000E+00
133	-.28306E+03	-.10631E+04	.00000E+00	134	-.28306E+03	-.10631E+04	.00000E+00	135	-.27247E+03	-.10725E+04	.00000E+00
136	-.27247E+03	-.10725E+04	.00000E+00	137	-.26143E+03	-.10814E+04	.00000E+00	138	-.26143E+03	-.10814E+04	.00000E+00
139	-.24994E+03	-.10899E+04	.00000E+00	140	-.24994E+03	-.10899E+04	.00000E+00	141	-.23800E+03	-.10980E+04	.00000E+00
142	-.23800E+03	-.10980E+04	.00000E+00	143	-.22564E+03	-.11056E+04	.00000E+00	144	-.22564E+03	-.11056E+04	.00000E+00
145	[illegible]287E+03	-.11129E+04	.00000E+00	146	-.21287E+03	-.11129E+04	.00000E+00	147	-.19969E+03	-.11197E+04	.00000E+00
148	[illegible]969E+03	-.11197E+04	.00000E+00	149	-.17961E+03	-.11196E+04	.00000E+00	150	-.17961E+03	-.11196E+04	.00000E+00
151	-.15953E+03	-.11195E+04	.00000E+00	152	-.15953E+03	-.11195E+04	.00000E+00	153	-.13946E+03	-.11195E+04	.00000E+00
154	-.13946E+03	-.11195E+04	.00000E+00	155	-.11940E+03	-.11194E+04	.00000E+00	156	-.11940E+03	-.11194E+04	.00000E+00
157	-.99343E+02	-.11193E+04	.00000E+00	158	-.99344E+02	-.11193E+04	.00000E+00	159	-.79291E+02	-.11193E+04	.00000E+00
160	-.79290E+02	-.11193E+04	.00000E+00	161	-.59243E+02	-.11192E+04	.00000E+00	162	-.59243E+02	-.11192E+04	.00000E+00
163	-.39200E+02	-.11192E+04	.00000E+00	164	-.39200E+02	-.11192E+04	.00000E+00	165	-.19160E+02	-.11192E+04	.00000E+00
166	-.19160E+02	-.11192E+04	.00000E+00	167	.87561E+00	-.11191E+04	.00000E+00	168	.87549E+00	-.11191E+04	.00000E+00
169	.20908E+02	-.11191E+04	.00000E+00	170	.20908E+02	-.11191E+04	.00000E+00	171	.40937E+02	-.11191E+04	.00000E+00
172	.40937E+02	-.11191E+04	.00000E+00	173	.60964E+02	-.11190E+04	.00000E+00	174	.60964E+02	-.11190E+04	.00000E+00
175	.80987E+02	-.11190E+04	.00000E+00	176	.80987E+02	-.11190E+04	.00000E+00	177	.10101E+03	-.11190E+04	.00000E+00
178	.10101E+03	-.11190E+04	.00000E+00	179	.12102E+03	-.11190E+04	.00000E+00	180	.12102E+03	-.11190E+04	.00000E+00
181	.14104E+03	-.11190E+04	.00000E+00	182	.14104E+03	-.11190E+04	.00000E+00	183	.16105E+03	-.11189E+04	.00000E+00
184	.16105E+03	-.11189E+04	.00000E+00	185	.18107E+03	-.11189E+04	.00000E+00	186	.18107E+03	-.11189E+04	.00000E+00
187	.20108E+03	-.11189E+04	.00000E+00	188	.20108E+03	-.11189E+04	.00000E+00	189	.22109E+03	-.11189E+04	.00000E+00
190	.22109E+03	-.11189E+04	.00000E+00	191	.24110E+03	-.11189E+04	.00000E+00	192	.24110E+03	-.11189E+04	.00000E+00
193	.26111E+03	-.11189E+04	.00000E+00	194	.26111E+03	-.11189E+04	.00000E+00	195	.28111E+03	-.11189E+04	.00000E+00
196	.28111E+03	-.11189E+04	.00000E+00	197	.30112E+03	-.11189E+04	.00000E+00	198	.30112E+03	-.11189E+04	.00000E+00
199	.32113E+03	-.11189E+04	.00000E+00	200	.32113E+03	-.11189E+04	.00000E+00	201	.34114E+03	-.11189E+04	.00000E+00
202	.34114E+03	-.11189E+04	.00000E+00	203	.36115E+03	-.11189E+04	.00000E+00	204	.36115E+03	-.11189E+04	.00000E+00
205	.38115E+03	-.11188E+04	.00000E+00	206	.38115E+03	-.11188E+04	.00000E+00	207	.40116E+03	-.11188E+04	.00000E+00
208	.40116E+03	-.11188E+04	.00000E+00	209	.42117E+03	-.11188E+04	.00000E+00	210	.42117E+03	-.11188E+04	.00000E+00
211	.44117E+03	-.11188E+04	.00000E+00	212	.44117E+03	-.11188E+04	.00000E+00	213	.46118E+03	-.11188E+04	.00000E+00
214	.46118E+03	-.11188E+04	.00000E+00	215	.48118E+03	-.11188E+04	.00000E+00	216	.48118E+03	-.11188E+04	.00000E+00
217	.50118E+03	-.11188E+04	.00000E+00	218	.50118E+03	-.11188E+04	.00000E+00	219	.52118E+03	-.11188E+04	.00000E+00
220	.52118E+03	-.11188E+04	.00000E+00	221	.54119E+03	-.11188E+04	.00000E+00	222	.54119E+03	-.11188E+04	.00000E+00
223	[illegible]6119E+03	-.11188E+04	.64800E-02	224	.56119E+03	-.11188E+04	.64800E-02	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.18403E+00	2	.18403E+00	3	.18242E+00	4	.18242E+00	5	.18083E+00	6	.18083E+00
7	.17927E+00	8	.17927E+00	9	.17773E+00	10	.17773E+00	11	.17621E+00	12	.17621E+00
13	.17471E+00	14	.17471E+00	15	.17323E+00	16	.17323E+00	17	.17178E+00	18	.17178E+00
19	.17034E+00	20	.17034E+00	21	.16893E+00	22	.16893E+00	23	.16754E+00	24	.16754E+00
25	.16617E+00	26	.16617E+00	27	.16481E+00	28	.16481E+00	29	.16348E+00	30	.16348E+00
31	.16217E+00	32	.16217E+00	33	.16087E+00	34	.16087E+00	35	.15960E+00	36	.15960E+00
37	.15834E+00	38	.15834E+00	39	.15711E+00	40	.15711E+00	41	.15589E+00	42	.15589E+00
43	.15469E+00	44	.15469E+00	45	.15350E+00	46	.15350E+00	47	.15234E+00	48	.15234E+00
49	.15119E+00	50	.15119E+00	51	.15006E+00	52	.15006E+00	53	.14894E+00	54	.14894E+00
55	.14784E+00	56	.14784E+00	57	.14676E+00	58	.14676E+00	59	.14569E+00	60	.14569E+00
61	.14464E+00	62	.14464E+00	63	.14361E+00	64	.14361E+00	65	.14258E+00	66	.14258E+00
67	.14158E+00	68	.14158E+00	69	.14059E+00	70	.14059E+00	71	.13961E+00	72	.13961E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.13961E+00	72	.13961E+00	73	.13865E+00	74	.13865E+00	75	.13494E+00	76	.13494E+00
[illegible]	.13144E+00	78	.13144E+00	79	.12813E+00	80	.12813E+00	81	.12502E+00	82	.12502E+00
[illegible]	.12208E+00	84	.12208E+00	85	.11930E+00	86	.11930E+00	87	.11668E+00	88	.11668E+00
89	.11420E+00	90	.11420E+00	91	.11186E+00	92	.11186E+00	93	.10965E+00	94	.10965E+00
95	.10756E+00	96	.10756E+00	97	.10559E+00	98	.10559E+00	99	.10373E+00	100	.10373E+00
101	.10198E+00	102	.10198E+00	103	.10032E+00	104	.10032E+00	105	.98753E-01	106	.98753E-01
107	.97277E-01	108	.97277E-01	109	.95884E-01	110	.95884E-01	111	.94572E-01	112	.94572E-01

113	.93335E-01	114	.93335E-01	115	.92170E-01	116	.92170E-01	117	.91074E-01	118	.91074E-01
119	.90043E-01	120	.90043E-01	121	.89074E-01	122	.89074E-01	123	.88163E-01	124	.88163E-01
125	.87308E-01	126	.87308E-01	127	.86506E-01	128	.86506E-01	129	.85754E-01	130	.85754E-01
131	.85050E-01	132	.85050E-01	133	.84390E-01	134	.84390E-01	135	.83773E-01	136	.83773E-01
137	.83197E-01	138	.83197E-01	139	.82658E-01	140	.82658E-01	141	.82155E-01	142	.82155E-01
143	.81685E-01	144	.81685E-01	145	.81248E-01	146	.81248E-01	147	.80840E-01	148	.80840E-01
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.72349E-01	148	.72349E-01	149	.72353E-01	150	.72353E-01	151	.72357E-01	152	.72357E-01
153	.72360E-01	154	.72360E-01	155	.72364E-01	156	.72364E-01	157	.72366E-01	158	.72366E-01
159	.72369E-01	160	.72369E-01	161	.72371E-01	162	.72371E-01	163	.72374E-01	164	.72374E-01
165	.72375E-01	166	.72375E-01	167	.72377E-01	168	.72377E-01	169	.72379E-01	170	.72379E-01
171	.72380E-01	172	.72380E-01	173	.72382E-01	174	.72382E-01	175	.72383E-01	176	.72383E-01
177	.72384E-01	178	.72384E-01	179	.72384E-01	180	.72384E-01	181	.72385E-01	182	.72385E-01
183	.72386E-01	184	.72386E-01	185	.72387E-01	186	.72387E-01	187	.72387E-01	188	.72387E-01
189	.72388E-01	190	.72388E-01	191	.72388E-01	192	.72388E-01	193	.72389E-01	194	.72389E-01
195	.72389E-01	196	.72389E-01	197	.72389E-01	198	.72389E-01	199	.72390E-01	200	.72390E-01
201	.72390E-01	202	.72390E-01	203	.72391E-01	204	.72391E-01	205	.72391E-01	206	.72391E-01
207	.72391E-01	208	.72391E-01	209	.72392E-01	210	.72392E-01	211	.72392E-01	212	.72392E-01
213	.72392E-01	214	.72392E-01	215	.72392E-01	216	.72392E-01	217	.72392E-01	218	.72392E-01
219	.72392E-01	220	.72392E-01	221	.72393E-01	222	.72393E-01	223	.72393E-01	224	.72393E-01

GREEN RIVER: 1) GRN542093% 2) GRN535095% 3) GRN535095%; 2.0E-08cm/s cover flux

TIME = 142857.6000 TIME STEP = 300

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .29175E-01 AT NODE 182

CUMULATIVE INFLOW INTO SYSTEM IS = .18820E+04
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.18497E+04
CUMULATIVE CHANGE IN SYSTEM IS = .32269E+02

NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.42000E+03	-.42000E+03	-.63680E-02	2	-.42000E+03	-.42000E+03	-.64602E-02	3	-.41996E+03	-.42496E+03	.00000E+00
4	-.41996E+03	-.42496E+03	.00000E+00	5	-.41992E+03	-.42992E+03	.00000E+00	6	-.41992E+03	-.42992E+03	.00000E+00
7	-.41987E+03	-.43487E+03	.00000E+00	8	-.41987E+03	-.43487E+03	.00000E+00	9	-.41983E+03	-.43983E+03	.00000E+00
10	-.41983E+03	-.43983E+03	.00000E+00	11	-.41978E+03	-.44478E+03	.00000E+00	12	-.41978E+03	-.44478E+03	.00000E+00
13	-.41973E+03	-.44973E+03	.00000E+00	14	-.41973E+03	-.44973E+03	.00000E+00	15	-.41968E+03	-.45468E+03	.00000E+00
16	-.41968E+03	-.45468E+03	.00000E+00	17	-.41962E+03	-.45962E+03	.00000E+00	18	-.41962E+03	-.45962E+03	.00000E+00
19	-.41956E+03	-.46456E+03	.00000E+00	20	-.41956E+03	-.46456E+03	.00000E+00	21	-.41950E+03	-.46950E+03	.00000E+00
22	-.41950E+03	-.46950E+03	.00000E+00	23	-.41944E+03	-.47444E+03	.00000E+00	24	-.41944E+03	-.47444E+03	.00000E+00
25	-.41937E+03	-.47937E+03	.00000E+00	26	-.41937E+03	-.47937E+03	.00000E+00	27	-.41931E+03	-.48431E+03	.00000E+00
28	-.41931E+03	-.48431E+03	.00000E+00	29	-.41924E+03	-.48924E+03	.00000E+00	30	-.41924E+03	-.48924E+03	.00000E+00
31	-.41916E+03	-.49416E+03	.00000E+00	32	-.41916E+03	-.49416E+03	.00000E+00	33	-.41908E+03	-.49908E+03	.00000E+00

34	-.41908E+03	-.49908E+03	.00000E+00	35	-.41900E+03	-.50400E+03	.00000E+00	36	-.41900E+03	-.50400E+03	.00000E+00
37	-.41892E+03	-.50892E+03	.00000E+00	38	-.41892E+03	-.50892E+03	.00000E+00	39	-.41883E+03	-.51383E+03	.00000E+00
40	-.41883E+03	-.51383E+03	.00000E+00	41	-.41874E+03	-.51874E+03	.00000E+00	42	-.41874E+03	-.51874E+03	.00000E+00
43	-.41865E+03	-.52365E+03	.00000E+00	44	-.41865E+03	-.52365E+03	.00000E+00	45	-.41855E+03	-.52855E+03	.00000E+00
46	-.41855E+03	-.52855E+03	.00000E+00	47	-.41844E+03	-.53344E+03	.00000E+00	48	-.41844E+03	-.53344E+03	.00000E+00
49	[illegible]834E+03	-.53834E+03	.00000E+00	50	-.41834E+03	-.53834E+03	.00000E+00	51	-.41823E+03	-.54323E+03	.00000E+00
52	[illegible]23E+03	-.54323E+03	.00000E+00	53	-.41811E+03	-.54811E+03	.00000E+00	54	-.41811E+03	-.54811E+03	.00000E+00
55	-.41799E+03	-.55299E+03	.00000E+00	56	-.41799E+03	-.55299E+03	.00000E+00	57	-.41786E+03	-.55786E+03	.00000E+00
58	-.41786E+03	-.55786E+03	.00000E+00	59	-.41773E+03	-.56273E+03	.00000E+00	60	-.41773E+03	-.56273E+03	.00000E+00
61	-.41760E+03	-.56760E+03	.00000E+00	62	-.41760E+03	-.56760E+03	.00000E+00	63	-.41746E+03	-.57246E+03	.00000E+00
64	-.41746E+03	-.57246E+03	.00000E+00	65	-.41731E+03	-.57731E+03	.00000E+00	66	-.41731E+03	-.57731E+03	.00000E+00
67	-.41716E+03	-.58216E+03	.00000E+00	68	-.41716E+03	-.58216E+03	.00000E+00	69	-.41701E+03	-.58701E+03	.00000E+00
70	-.41701E+03	-.58701E+03	.00000E+00	71	-.41685E+03	-.59185E+03	.00000E+00	72	-.41685E+03	-.59185E+03	.00000E+00
73	-.41668E+03	-.59668E+03	.00000E+00	74	-.41668E+03	-.59668E+03	.00000E+00	75	-.41594E+03	-.61594E+03	.00000E+00
76	-.41594E+03	-.61594E+03	.00000E+00	77	-.41510E+03	-.63510E+03	.00000E+00	78	-.41510E+03	-.63510E+03	.00000E+00
79	-.41413E+03	-.65413E+03	.00000E+00	80	-.41413E+03	-.65413E+03	.00000E+00	81	-.41303E+03	-.67303E+03	.00000E+00
82	-.41303E+03	-.67303E+03	.00000E+00	83	-.41178E+03	-.69178E+03	.00000E+00	84	-.41178E+03	-.69178E+03	.00000E+00
85	-.41036E+03	-.71036E+03	.00000E+00	86	-.41036E+03	-.71036E+03	.00000E+00	87	-.40876E+03	-.72876E+03	.00000E+00
88	-.40876E+03	-.72876E+03	.00000E+00	89	-.40697E+03	-.74697E+03	.00000E+00	90	-.40697E+03	-.74697E+03	.00000E+00
91	-.40496E+03	-.76496E+03	.00000E+00	92	-.40496E+03	-.76496E+03	.00000E+00	93	-.40271E+03	-.78271E+03	.00000E+00
94	-.40271E+03	-.78271E+03	.00000E+00	95	-.40022E+03	-.80022E+03	.00000E+00	96	-.40022E+03	-.80022E+03	.00000E+00
97	-.39745E+03	-.81745E+03	.00000E+00	98	-.39745E+03	-.81745E+03	.00000E+00	99	-.39440E+03	-.83440E+03	.00000E+00
100	-.39440E+03	-.83440E+03	.00000E+00	101	-.39104E+03	-.85104E+03	.00000E+00	102	-.39104E+03	-.85104E+03	.00000E+00
103	-.38735E+03	-.86735E+03	.00000E+00	104	-.38735E+03	-.86735E+03	.00000E+00	105	-.38332E+03	-.88332E+03	.00000E+00
106	-.38332E+03	-.88332E+03	.00000E+00	107	-.37893E+03	-.89893E+03	.00000E+00	108	-.37893E+03	-.89893E+03	.00000E+00
109	-.37416E+03	-.91415E+03	.00000E+00	110	-.37416E+03	-.91416E+03	.00000E+00	111	-.36899E+03	-.92899E+03	.00000E+00
112	-.36899E+03	-.92899E+03	.00000E+00	113	-.36342E+03	-.94342E+03	.00000E+00	114	-.36342E+03	-.94342E+03	.00000E+00
115	-.35742E+03	-.95742E+03	.00000E+00	116	-.35742E+03	-.95742E+03	.00000E+00	117	-.35098E+03	-.97098E+03	.00000E+00
118	-.35098E+03	-.97098E+03	.00000E+00	119	-.34410E+03	-.98410E+03	.00000E+00	120	-.34410E+03	-.98410E+03	.00000E+00
121	-.33677E+03	-.99677E+03	.00000E+00	122	-.33677E+03	-.99677E+03	.00000E+00	123	-.32898E+03	-.10090E+04	.00000E+00
124	-.32898E+03	-.10090E+04	.00000E+00	125	-.32072E+03	-.10207E+04	.00000E+00	126	-.32072E+03	-.10207E+04	.00000E+00
127	[illegible]1199E+03	-.10320E+04	.00000E+00	128	-.31199E+03	-.10320E+04	.00000E+00	129	-.30280E+03	-.10428E+04	.00000E+00
130	[illegible]280E+03	-.10428E+04	.00000E+00	131	-.29314E+03	-.10531E+04	.00000E+00	132	-.29314E+03	-.10531E+04	.00000E+00
133	-.28301E+03	-.10630E+04	.00000E+00	134	-.28301E+03	-.10630E+04	.00000E+00	135	-.27242E+03	-.10724E+04	.00000E+00
136	-.27242E+03	-.10724E+04	.00000E+00	137	-.26137E+03	-.10814E+04	.00000E+00	138	-.26137E+03	-.10814E+04	.00000E+00
139	-.24988E+03	-.10899E+04	.00000E+00	140	-.24988E+03	-.10899E+04	.00000E+00	141	-.23795E+03	-.10979E+04	.00000E+00
142	-.23795E+03	-.10979E+04	.00000E+00	143	-.22559E+03	-.11056E+04	.00000E+00	144	-.22559E+03	-.11056E+04	.00000E+00
145	-.21281E+03	-.11128E+04	.00000E+00	146	-.21281E+03	-.11128E+04	.00000E+00	147	-.19963E+03	-.11196E+04	.00000E+00
148	-.19964E+03	-.11196E+04	.00000E+00	149	-.17955E+03	-.11196E+04	.00000E+00	150	-.17955E+03	-.11196E+04	.00000E+00
151	-.15948E+03	-.11195E+04	.00000E+00	152	-.15948E+03	-.11195E+04	.00000E+00	153	-.13942E+03	-.11194E+04	.00000E+00
154	-.13942E+03	-.11194E+04	.00000E+00	155	-.11936E+03	-.11194E+04	.00000E+00	156	-.11936E+03	-.11194E+04	.00000E+00
157	-.99303E+02	-.11193E+04	.00000E+00	158	-.99303E+02	-.11193E+04	.00000E+00	159	-.79257E+02	-.11193E+04	.00000E+00
160	-.79257E+02	-.11193E+04	.00000E+00	161	-.59216E+02	-.11192E+04	.00000E+00	162	-.59216E+02	-.11192E+04	.00000E+00
163	-.39179E+02	-.11192E+04	.00000E+00	164	-.39179E+02	-.11192E+04	.00000E+00	165	-.19143E+02	-.11191E+04	.00000E+00
166	-.19143E+02	-.11191E+04	.00000E+00	167	.88953E+00	-.11191E+04	.00000E+00	168	.88940E+00	-.11191E+04	.00000E+00
169	.20919E+02	-.11191E+04	.00000E+00	170	.20919E+02	-.11191E+04	.00000E+00	171	.40947E+02	-.11191E+04	.00000E+00
172	.40947E+02	-.11191E+04	.00000E+00	173	.60972E+02	-.11190E+04	.00000E+00	174	.60972E+02	-.11190E+04	.00000E+00
175	.80993E+02	-.11190E+04	.00000E+00	176	.80993E+02	-.11190E+04	.00000E+00	177	.10101E+03	-.11190E+04	.00000E+00
178	.10101E+03	-.11190E+04	.00000E+00	179	.12103E+03	-.11190E+04	.00000E+00	180	.12103E+03	-.11190E+04	.00000E+00
181	.14104E+03	-.11190E+04	.00000E+00	182	.14104E+03	-.11190E+04	.00000E+00	183	.16106E+03	-.11189E+04	.00000E+00
184	.16106E+03	-.11189E+04	.00000E+00	185	.18107E+03	-.11189E+04	.00000E+00	186	.18107E+03	-.11189E+04	.00000E+00
187	.20108E+03	-.11189E+04	.00000E+00	188	.20108E+03	-.11189E+04	.00000E+00	189	.22110E+03	-.11189E+04	.00000E+00
190	.22110E+03	-.11189E+04	.00000E+00	191	.24111E+03	-.11189E+04	.00000E+00	192	.24111E+03	-.11189E+04	.00000E+00
193	.26112E+03	-.11189E+04	.00000E+00	194	.26112E+03	-.11189E+04	.00000E+00	195	.28113E+03	-.11189E+04	.00000E+00
196	.28113E+03	-.11189E+04	.00000E+00	197	.30114E+03	-.11189E+04	.00000E+00	198	.30114E+03	-.11189E+04	.00000E+00
199	.32114E+03	-.11189E+04	.00000E+00	200	.32114E+03	-.11189E+04	.00000E+00	201	.34115E+03	-.11188E+04	.00000E+00
202	[illegible]4115E+03	-.11188E+04	.00000E+00	203	.36116E+03	-.11188E+04	.00000E+00	204	.36116E+03	-.11188E+04	.00000E+00
205	[illegible]8117E+03	-.11188E+04	.00000E+00	206	.38117E+03	-.11188E+04	.00000E+00	207	.40117E+03	-.11188E+04	.00000E+00
208	.40117E+03	-.11188E+04	.00000E+00	209	.42118E+03	-.11188E+04	.00000E+00	210	.42118E+03	-.11188E+04	.00000E+00
211	.44119E+03	-.11188E+04	.00000E+00	212	.44119E+03	-.11188E+04	.00000E+00	213	.46120E+03	-.11188E+04	.00000E+00
214	.46120E+03	-.11188E+04	.00000E+00	215	.48120E+03	-.11188E+04	.00000E+00	216	.48120E+03	-.11188E+04	.00000E+00
217	.50121E+03	-.11188E+04	.00000E+00	218	.50121E+03	-.11188E+04	.00000E+00	219	.52121E+03	-.11188E+04	.00000E+00

220	.52121E+03	-.11188E+04	.00000E+00	221	.54121E+03	-.11188E+04	.00000E+00	222	.54121E+03	-.11188E+04	.00000E+00
223	.56121E+03	-.11188E+04	.64800E-02	224	.56121E+03	-.11188E+04	.64800E-02	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.18403E+00	2	.18403E+00	3	.18242E+00	4	.18242E+00	5	.18083E+00	6	.18083E+00
7	.17927E+00	8	.17927E+00	9	.17773E+00	10	.17773E+00	11	.17621E+00	12	.17621E+00
13	.17471E+00	14	.17471E+00	15	.17323E+00	16	.17323E+00	17	.17178E+00	18	.17178E+00
19	.17034E+00	20	.17034E+00	21	.16893E+00	22	.16893E+00	23	.16754E+00	24	.16754E+00
25	.16617E+00	26	.16617E+00	27	.16481E+00	28	.16481E+00	29	.16348E+00	30	.16348E+00
31	.16217E+00	32	.16217E+00	33	.16087E+00	34	.16087E+00	35	.15960E+00	36	.15960E+00
37	.15834E+00	38	.15834E+00	39	.15711E+00	40	.15711E+00	41	.15589E+00	42	.15589E+00
43	.15469E+00	44	.15469E+00	45	.15350E+00	46	.15350E+00	47	.15234E+00	48	.15234E+00
49	.15119E+00	50	.15119E+00	51	.15006E+00	52	.15006E+00	53	.14894E+00	54	.14894E+00
55	.14784E+00	56	.14784E+00	57	.14676E+00	58	.14676E+00	59	.14569E+00	60	.14569E+00
61	.14464E+00	62	.14464E+00	63	.14361E+00	64	.14361E+00	65	.14258E+00	66	.14258E+00
67	.14158E+00	68	.14158E+00	69	.14059E+00	70	.14059E+00	71	.13961E+00	72	.13961E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.13961E+00	72	.13961E+00	73	.13865E+00	74	.13865E+00	75	.13494E+00	76	.13494E+00
77	.13144E+00	78	.13144E+00	79	.12814E+00	80	.12814E+00	81	.12502E+00	82	.12502E+00
83	.12208E+00	84	.12208E+00	85	.11930E+00	86	.11930E+00	87	.11668E+00	88	.11668E+00
89	.11420E+00	90	.11420E+00	91	.11186E+00	92	.11186E+00	93	.10965E+00	94	.10965E+00
95	.10757E+00	96	.10757E+00	97	.10560E+00	98	.10560E+00	99	.10374E+00	100	.10374E+00
101	.10198E+00	102	.10198E+00	103	.10032E+00	104	.10032E+00	105	.98756E-01	106	.98756E-01
107	.97279E-01	108	.97279E-01	109	.95887E-01	110	.95886E-01	111	.94574E-01	112	.94574E-01
113	.93337E-01	114	.93337E-01	115	.92173E-01	116	.92173E-01	117	.91077E-01	118	.91077E-01
119	.90046E-01	120	.90046E-01	121	.89077E-01	122	.89077E-01	123	.88167E-01	124	.88166E-01
125	.87312E-01	126	.87312E-01	127	.86510E-01	128	.86510E-01	129	.85758E-01	130	.85758E-01
131	.85054E-01	132	.85054E-01	133	.84394E-01	134	.84394E-01	135	.83777E-01	136	.83777E-01
137	.83200E-01	138	.83200E-01	139	.82661E-01	140	.82661E-01	141	.82158E-01	142	.82158E-01
143	.81689E-01	144	.81689E-01	145	.81251E-01	146	.81251E-01	147	.80843E-01	148	.80843E-01
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.72352E-01	148	.72352E-01	149	.72356E-01	150	.72356E-01	151	.72360E-01	152	.72360E-01
153	.72363E-01	154	.72363E-01	155	.72366E-01	156	.72366E-01	157	.72368E-01	158	.72368E-01
159	.72371E-01	160	.72371E-01	161	.72373E-01	162	.72373E-01	163	.72375E-01	164	.72375E-01
165	.72376E-01	166	.72376E-01	167	.72378E-01	168	.72378E-01	169	.72379E-01	170	.72379E-01
171	.72381E-01	172	.72381E-01	173	.72382E-01	174	.72382E-01	175	.72383E-01	176	.72383E-01
177	.72384E-01	178	.72384E-01	179	.72385E-01	180	.72385E-01	181	.72385E-01	182	.72385E-01
183	.72386E-01	184	.72386E-01	185	.72387E-01	186	.72387E-01	187	.72387E-01	188	.72387E-01
189	.72388E-01	190	.72388E-01	191	.72389E-01	192	.72389E-01	193	.72389E-01	194	.72389E-01
195	.72390E-01	196	.72390E-01	197	.72390E-01	198	.72390E-01	199	.72390E-01	200	.72390E-01
201	.72391E-01	202	.72391E-01	203	.72391E-01	204	.72391E-01	205	.72392E-01	206	.72392E-01
207	.72392E-01	208	.72392E-01	209	.72392E-01	210	.72392E-01	211	.72393E-01	212	.72393E-01
213	.72393E-01	214	.72393E-01	215	.72393E-01	216	.72393E-01	217	.72394E-01	218	.72394E-01
219	.72394E-01	220	.72394E-01	221	.72394E-01	222	.72394E-01	223	.72394E-01	224	.72394E-01

GREEN RIVER: 1) GRN5420 93% 2) GRN5350 95% 3) GRN5350 95%; 2.0E-08cm/s cover flux

TIME = 182500.0000 TIME STEP = 380

AXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .12817E-01 AT NODE 149

CUMULATIVE INFLOW INTO SYSTEM IS = .23958E+04
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.23572E+04
CUMULATIVE CHANGE IN SYSTEM IS = .38596E+02

NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.42000E+03	-.42000E+03	-.63375E-02	2	-.42000E+03	-.42000E+03	-.64374E-02	3	-.41996E+03	-.42496E+03	.00000E+00
4	-.41996E+03	-.42496E+03	.00000E+00	5	-.41992E+03	-.42992E+03	.00000E+00	6	-.41992E+03	-.42992E+03	.00000E+00
7	-.41987E+03	-.43487E+03	.00000E+00	8	-.41987E+03	-.43487E+03	.00000E+00	9	-.41983E+03	-.43983E+03	.00000E+00
10	-.41983E+03	-.43983E+03	.00000E+00	11	-.41978E+03	-.44478E+03	.00000E+00	12	-.41978E+03	-.44478E+03	.00000E+00
13	-.41973E+03	-.44973E+03	.00000E+00	14	-.41973E+03	-.44973E+03	.00000E+00	15	-.41968E+03	-.45468E+03	.00000E+00
16	-.41968E+03	-.45468E+03	.00000E+00	17	-.41962E+03	-.45962E+03	.00000E+00	18	-.41962E+03	-.45962E+03	.00000E+00
19	-.41956E+03	-.46456E+03	.00000E+00	20	-.41956E+03	-.46456E+03	.00000E+00	21	-.41950E+03	-.46950E+03	.00000E+00
22	-.41950E+03	-.46950E+03	.00000E+00	23	-.41944E+03	-.47444E+03	.00000E+00	24	-.41944E+03	-.47444E+03	.00000E+00
25	-.41937E+03	-.47937E+03	.00000E+00	26	-.41937E+03	-.47937E+03	.00000E+00	27	-.41931E+03	-.48431E+03	.00000E+00
28	-.41931E+03	-.48431E+03	.00000E+00	29	-.41924E+03	-.48924E+03	.00000E+00	30	-.41924E+03	-.48924E+03	.00000E+00
31	[illegible]1916E+03	-.49416E+03	.00000E+00	32	-.41916E+03	-.49416E+03	.00000E+00	33	-.41908E+03	-.49908E+03	.00000E+00
34	[illegible]908E+03	-.49908E+03	.00000E+00	35	-.41900E+03	-.50400E+03	.00000E+00	36	-.41900E+03	-.50400E+03	.00000E+00
37	[illegible]41892E+03	-.50892E+03	.00000E+00	38	-.41892E+03	-.50892E+03	.00000E+00	39	-.41883E+03	-.51383E+03	.00000E+00
40	-.41883E+03	-.51383E+03	.00000E+00	41	-.41874E+03	-.51874E+03	.00000E+00	42	-.41874E+03	-.51874E+03	.00000E+00
43	-.41864E+03	-.52364E+03	.00000E+00	44	-.41864E+03	-.52364E+03	.00000E+00	45	-.41855E+03	-.52855E+03	.00000E+00
46	-.41855E+03	-.52855E+03	.00000E+00	47	-.41844E+03	-.53344E+03	.00000E+00	48	-.41844E+03	-.53344E+03	.00000E+00
49	-.41834E+03	-.53834E+03	.00000E+00	50	-.41834E+03	-.53834E+03	.00000E+00	51	-.41822E+03	-.54322E+03	.00000E+00
52	-.41822E+03	-.54322E+03	.00000E+00	53	-.41811E+03	-.54811E+03	.00000E+00	54	-.41811E+03	-.54811E+03	.00000E+00
55	-.41799E+03	-.55299E+03	.00000E+00	56	-.41799E+03	-.55299E+03	.00000E+00	57	-.41786E+03	-.55786E+03	.00000E+00
58	-.41786E+03	-.55786E+03	.00000E+00	59	-.41773E+03	-.56273E+03	.00000E+00	60	-.41773E+03	-.56273E+03	.00000E+00
61	-.41760E+03	-.56760E+03	.00000E+00	62	-.41760E+03	-.56760E+03	.00000E+00	63	-.41746E+03	-.57246E+03	.00000E+00
64	-.41746E+03	-.57246E+03	.00000E+00	65	-.41731E+03	-.57731E+03	.00000E+00	66	-.41731E+03	-.57731E+03	.00000E+00
67	-.41716E+03	-.58216E+03	.00000E+00	68	-.41716E+03	-.58216E+03	.00000E+00	69	-.41701E+03	-.58701E+03	.00000E+00
70	-.41701E+03	-.58701E+03	.00000E+00	71	-.41685E+03	-.59185E+03	.00000E+00	72	-.41685E+03	-.59185E+03	.00000E+00
73	-.41668E+03	-.59668E+03	.00000E+00	74	-.41668E+03	-.59668E+03	.00000E+00	75	-.41595E+03	-.61595E+03	.00000E+00
76	-.41595E+03	-.61595E+03	.00000E+00	77	-.41510E+03	-.63510E+03	.00000E+00	78	-.41510E+03	-.63510E+03	.00000E+00
79	-.41414E+03	-.65414E+03	.00000E+00	80	-.41414E+03	-.65414E+03	.00000E+00	81	-.41304E+03	-.67304E+03	.00000E+00
82	-.41304E+03	-.67304E+03	.00000E+00	83	-.41179E+03	-.69179E+03	.00000E+00	84	-.41179E+03	-.69179E+03	.00000E+00
85	-.41037E+03	-.71037E+03	.00000E+00	86	-.41037E+03	-.71037E+03	.00000E+00	87	-.40877E+03	-.72877E+03	.00000E+00
88	-.40877E+03	-.72877E+03	.00000E+00	89	-.40698E+03	-.74698E+03	.00000E+00	90	-.40698E+03	-.74698E+03	.00000E+00
91	-.40497E+03	-.76497E+03	.00000E+00	92	-.40497E+03	-.76497E+03	.00000E+00	93	-.40273E+03	-.78273E+03	.00000E+00
94	-.40273E+03	-.78273E+03	.00000E+00	95	-.40023E+03	-.80023E+03	.00000E+00	96	-.40023E+03	-.80023E+03	.00000E+00
97	-.39747E+03	-.81747E+03	.00000E+00	98	-.39747E+03	-.81747E+03	.00000E+00	99	-.39442E+03	-.83442E+03	.00000E+00
100	-.39442E+03	-.83442E+03	.00000E+00	101	-.39106E+03	-.85106E+03	.00000E+00	102	-.39106E+03	-.85106E+03	.00000E+00
103	-.38737E+03	-.86737E+03	.00000E+00	104	-.38737E+03	-.86737E+03	.00000E+00	105	-.38334E+03	-.88334E+03	.00000E+00
106	[illegible]8334E+03	-.88334E+03	.00000E+00	107	-.37894E+03	-.89894E+03	.00000E+00	108	-.37894E+03	-.89894E+03	.00000E+00
109	[illegible]417E+03	-.91417E+03	.00000E+00	110	-.37417E+03	-.91417E+03	.00000E+00	111	-.36901E+03	-.92901E+03	.00000E+00
112	-.36901E+03	-.92901E+03	.00000E+00	113	-.36343E+03	-.94343E+03	.00000E+00	114	-.36343E+03	-.94343E+03	.00000E+00
115	-.35743E+03	-.95743E+03	.00000E+00	116	-.35743E+03	-.95743E+03	.00000E+00	117	-.35100E+03	-.97100E+03	.00000E+00
118	-.35100E+03	-.97100E+03	.00000E+00	119	-.34412E+03	-.98412E+03	.00000E+00	120	-.34412E+03	-.98412E+03	.00000E+00
121	-.33679E+03	-.99679E+03	.00000E+00	122	-.33679E+03	-.99679E+03	.00000E+00	123	-.32900E+03	-.10090E+04	.00000E+00

124	-.32900E+03	-.10090E+04	.00000E+00	125	-.32074E+03	-.10207E+04	.00000E+00	126	-.32074E+03	-.10207E+04	.00000E+00
127	-.31201E+03	-.10320E+04	.00000E+00	128	-.31201E+03	-.10320E+04	.00000E+00	129	-.30282E+03	-.10428E+04	.00000E+00
130	-.30282E+03	-.10428E+04	.00000E+00	131	-.29316E+03	-.10532E+04	.00000E+00	132	-.29316E+03	-.10532E+04	.00000E+00
133	-.28303E+03	-.10630E+04	.00000E+00	134	-.28303E+03	-.10630E+04	.00000E+00	135	-.27244E+03	-.10724E+04	.00000E+00
136	-.27244E+03	-.10724E+04	.00000E+00	137	-.26139E+03	-.10814E+04	.00000E+00	138	-.26139E+03	-.10814E+04	.00000E+00
139	-.24989E+03	-.10899E+04	.00000E+00	140	-.24990E+03	-.10899E+04	.00000E+00	141	-.23796E+03	-.10980E+04	.000[illegible]
142	-.23796E+03	-.10980E+04	.00000E+00	143	-.22560E+03	-.11056E+04	.00000E+00	144	-.22560E+03	-.11056E+04	.000[illegible]
145	-.21283E+03	-.11128E+04	.00000E+00	146	-.21283E+03	-.11128E+04	.00000E+00	147	-.19964E+03	-.11196E+04	.00000E+00
148	-.19965E+03	-.11196E+04	.00000E+00	149	-.17956E+03	-.11196E+04	.00000E+00	150	-.17956E+03	-.11196E+04	.00000E+00
151	-.15949E+03	-.11195E+04	.00000E+00	152	-.15949E+03	-.11195E+04	.00000E+00	153	-.13942E+03	-.11194E+04	.00000E+00
154	-.13942E+03	-.11194E+04	.00000E+00	155	-.11936E+03	-.11194E+04	.00000E+00	156	-.11936E+03	-.11194E+04	.00000E+00
157	-.99309E+02	-.11193E+04	.00000E+00	158	-.99309E+02	-.11193E+04	.00000E+00	159	-.79261E+02	-.11193E+04	.00000E+00
160	-.79261E+02	-.11193E+04	.00000E+00	161	-.59219E+02	-.11192E+04	.00000E+00	162	-.59219E+02	-.11192E+04	.00000E+00
163	-.39180E+02	-.11192E+04	.00000E+00	164	-.39180E+02	-.11192E+04	.00000E+00	165	-.19145E+02	-.11191E+04	.00000E+00
166	-.19145E+02	-.11191E+04	.00000E+00	167	.88721E+00	-.11191E+04	.00000E+00	168	.88721E+00	-.11191E+04	.00000E+00
169	.20915E+02	-.11191E+04	.00000E+00	170	.20915E+02	-.11191E+04	.00000E+00	171	.40942E+02	-.11191E+04	.00000E+00
172	.40942E+02	-.11191E+04	.00000E+00	173	.60966E+02	-.11190E+04	.00000E+00	174	.60966E+02	-.11190E+04	.00000E+00
175	.80989E+02	-.11190E+04	.00000E+00	176	.80989E+02	-.11190E+04	.00000E+00	177	.10101E+03	-.11190E+04	.00000E+00
178	.10101E+03	-.11190E+04	.00000E+00	179	.12103E+03	-.11190E+04	.00000E+00	180	.12103E+03	-.11190E+04	.00000E+00
181	.14104E+03	-.11190E+04	.00000E+00	182	.14104E+03	-.11190E+04	.00000E+00	183	.16106E+03	-.11189E+04	.00000E+00
184	.16106E+03	-.11189E+04	.00000E+00	185	.18107E+03	-.11189E+04	.00000E+00	186	.18107E+03	-.11189E+04	.00000E+00
187	.20108E+03	-.11189E+04	.00000E+00	188	.20108E+03	-.11189E+04	.00000E+00	189	.22109E+03	-.11189E+04	.00000E+00
190	.22109E+03	-.11189E+04	.00000E+00	191	.24110E+03	-.11189E+04	.00000E+00	192	.24110E+03	-.11189E+04	.00000E+00
193	.26111E+03	-.11189E+04	.00000E+00	194	.26111E+03	-.11189E+04	.00000E+00	195	.28112E+03	-.11189E+04	.00000E+00
196	.28112E+03	-.11189E+04	.00000E+00	197	.30112E+03	-.11189E+04	.00000E+00	198	.30112E+03	-.11189E+04	.00000E+00
199	.32113E+03	-.11189E+04	.00000E+00	200	.32113E+03	-.11189E+04	.00000E+00	201	.34114E+03	-.11189E+04	.00000E+00
202	.34114E+03	-.11189E+04	.00000E+00	203	.36115E+03	-.11189E+04	.00000E+00	204	.36115E+03	-.11189E+04	.00000E+00
205	.38115E+03	-.11188E+04	.00000E+00	206	.38115E+03	-.11188E+04	.00000E+00	207	.40116E+03	-.11188E+04	.00000E+00
208	.40116E+03	-.11188E+04	.00000E+00	209	.42116E+03	-.11188E+04	.00000E+00	210	.42116E+03	-.11188E+04	.00000E+00
211	.44116E+03	-.11188E+04	.00000E+00	212	.44116E+03	-.11188E+04	.00000E+00	213	.46117E+03	-.11188E+04	.00000E+00
214	.46117E+03	-.11188E+04	.00000E+00	215	.48117E+03	-.11188E+04	.00000E+00	216	.48117E+03	-.11188E+04	.00000E+00
217	.50118E+03	-.11188E+04	.00000E+00	218	.50118E+03	-.11188E+04	.00000E+00	219	.52118E+03	-.11188E+04	.000[illegible]
220	.52118E+03	-.11188E+04	.00000E+00	221	.54119E+03	-.11188E+04	.00000E+00	222	.54119E+03	-.11188E+04	.00[illegible]
223	.56119E+03	-.11188E+04	.64800E-02	224	.56119E+03	-.11188E+04	.64800E-02	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.18403E+00	2	.18403E+00	3	.18242E+00	4	.18242E+00	5	.18083E+00	6	.18083E+00
7	.17927E+00	8	.17927E+00	9	.17773E+00	10	.17773E+00	11	.17621E+00	12	.17621E+00
13	.17471E+00	14	.17471E+00	15	.17323E+00	16	.17323E+00	17	.17178E+00	18	.17178E+00
19	.17034E+00	20	.17034E+00	21	.16893E+00	22	.16893E+00	23	.16754E+00	24	.16754E+00
25	.16617E+00	26	.16617E+00	27	.16481E+00	28	.16481E+00	29	.16348E+00	30	.16348E+00
31	.16217E+00	32	.16217E+00	33	.16087E+00	34	.16087E+00	35	.15960E+00	36	.15960E+00
37	.15834E+00	38	.15834E+00	39	.15711E+00	40	.15711E+00	41	.15589E+00	42	.15589E+00
43	.15469E+00	44	.15469E+00	45	.15350E+00	46	.15350E+00	47	.15234E+00	48	.15234E+00
49	.15119E+00	50	.15119E+00	51	.15006E+00	52	.15006E+00	53	.14894E+00	54	.14894E+00
55	.14784E+00	56	.14784E+00	57	.14676E+00	58	.14676E+00	59	.14569E+00	60	.14569E+00
61	.14464E+00	62	.14464E+00	63	.14361E+00	64	.14361E+00	65	.14258E+00	66	.14258E+00
67	.14158E+00	68	.14158E+00	69	.14059E+00	70	.14059E+00	71	.13961E+00	72	.13961E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.13961E+00	72	.13961E+00	73	.13865E+00	74	.13865E+00	75	.13494E+00	76	.13494E+00
77	.13144E+00	78	.13144E+00	79	.12813E+00	80	.12813E+00	81	.12502E+00	82	.12502E+00
83	.12208E+00	84	.12208E+00	85	.11930E+00	86	.11930E+00	87	.11668E+00	88	.11668E+00
89	.11420E+00	90	.11420E+00	91	.11186E+00	92	.11186E+00	93	.10965E+00	94	.10965E+00
95	.10757E+00	96	.10757E+00	97	.10560E+00	98	.10560E+00	99	.10373E+00	100	.10373E+00

101	.10198E+00	102	.10198E+00	103	.10032E+00	104	.10032E+00	105	.98754E-01	106	.98754E-01
107	.97277E-01	108	.97277E-01	109	.95885E-01	110	.95885E-01	111	.94572E-01	112	.94572E-01
113	.93336E-01	114	.93336E-01	115	.92171E-01	116	.92171E-01	117	.91075E-01	118	.91075E-01
119	.90045E-01	120	.90045E-01	121	.89076E-01	122	.89075E-01	123	.88165E-01	124	.88165E-01
125	.87310E-01	126	.87310E-01	127	.86508E-01	128	.86508E-01	129	.85757E-01	130	.85757E-01
1[illegible]	[illegible]5052E-01	132	.85052E-01	133	.84393E-01	134	.84393E-01	135	.83776E-01	136	.83776E-01
1[illegible]	[illegible]3199E-01	138	.83199E-01	139	.82660E-01	140	.82660E-01	141	.82157E-01	142	.82157E-01
143	.81688E-01	144	.81688E-01	145	.81250E-01	146	.81250E-01	147	.80843E-01	148	.80842E-01
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

[illegible]OISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.72352E-01	148	.72351E-01	149	.72356E-01	150	.72356E-01	151	.72359E-01	152	.72359E-01
153	.72362E-01	154	.72362E-01	155	.72365E-01	156	.72365E-01	157	.72368E-01	158	.72368E-01
159	.72370E-01	160	.72370E-01	161	.72373E-01	162	.72373E-01	163	.72374E-01	164	.72374E-01
165	.72376E-01	166	.72376E-01	167	.72378E-01	168	.72378E-01	169	.72379E-01	170	.72379E-01
171	.72380E-01	172	.72380E-01	173	.72382E-01	174	.72382E-01	175	.72383E-01	176	.72383E-01
177	.72384E-01	178	.72384E-01	179	.72385E-01	180	.72385E-01	181	.72386E-01	182	.72386E-01
183	.72386E-01	184	.72386E-01	185	.72387E-01	186	.72387E-01	187	.72387E-01	188	.72387E-01
189	.72388E-01	190	.72388E-01	191	.72388E-01	192	.72388E-01	193	.72389E-01	194	.72389E-01
195	.72389E-01	196	.72389E-01	197	.72390E-01	198	.72390E-01	199	.72390E-01	200	.72390E-01
201	.72390E-01	202	.72390E-01	203	.72391E-01	204	.72391E-01	205	.72391E-01	206	.72391E-01
207	.72391E-01	208	.72391E-01	209	.72391E-01	210	.72391E-01	211	.72391E-01	212	.72391E-01
213	.72392E-01	214	.72392E-01	215	.72392E-01	216	.72392E-01	217	.72392E-01	218	.72392E-01
219	.72392E-01	220	.72392E-01	221	.72393E-01	222	.72393E-01	223	.72393E-01	224	.72393E-01

STORAGE CHECK

THE DIMENSION OF BD SHOULD BE GREATER THAN 897
THE DIMENSION OF BS SHOULD BE GREATER THAN 3051

NO COVER
FIXED U.B. FLUX 5E 10^{-8}
FIXED L.B. -420cm

NAME OF THE INPUT FILE: grn1a.dat
NAME OF THE OUTPUT FILE: grn1a.ot1
NAME OF THE PLOT FILE: grn1a.pt1

VERTICAL PLANE FLOW

GREEN RIVER: 1) GRN542@93% 2) GRN535@95% 3) GRN535@95%; 5.0E-08cm/s cover flux

NUMBER OF NODAL POINTS------- 224
MAX NODES IN A TRNSVRS LINE-- 2
NUMBER OF ELEMENTS---------- 111
NUMBER OF MATERIALS---------- 3
MAX NUMBER OF ITERATIONS----- 100

UNITS ARE CONTROLED BY THE FOLLOWING CONSTANTS -

CONS1 = .100E+01 CONS2 = .100E+01

MATERIAL	K1	K2	POROSITY	SS	RWC	EN	ALPHA	ID MODEL
1	.86400E+01	.86400E+01	.33000E+00	.00000E+00	.25000E-01	.22500E+01	.34000E-02	1
2	.86400E+01	.86400E+01	.33000E+00	.00000E+00	.25000E-01	.22500E+01	.34000E-02	1
3	.51800E+02	.51800E+02	.45000E+00	.00000E+00	.30000E-01	.23260E+01	.50000E-02	1

NODAL POINT INFORMATION

NODE NO.	KODE	X,R	Y,Z	.PSI.	Q
1	1	.000000E+00	.000000E+00	-.420000E+03	.000000E+00
2	1	.750000E+01	.000000E+00	-.420000E+03	.000000E+00
3	0	.000000E+00	.500000E+01	-.650000E+03	.000000E+00
4	0	.750000E+01	.500000E+01	-.650000E+03	.000000E+00
5	0	.000000E+00	.100000E+02	-.650000E+03	.000000E+00
6	0	.750000E+01	.100000E+02	-.650000E+03	.000000E+00
7	0	.000000E+00	.150000E+02	-.650000E+03	.000000E+00
8	0	.750000E+01	.150000E+02	-.650000E+03	.000000E+00
9	0	.000000E+00	.200000E+02	-.650000E+03	.000000E+00
10	0	.750000E+01	.200000E+02	-.650000E+03	.000000E+00
11	0	.000000E+00	.250000E+02	-.650000E+03	.000000E+00
12	0	.750000E+01	.250000E+02	-.650000E+03	.000000E+00
13	0	.000000E+00	.300000E+02	-.650000E+03	.000000E+00
14	0	.750000E+01	.300000E+02	-.650000E+03	.000000E+00
15	0	.000000E+00	.350000E+02	-.650000E+03	.000000E+00
16	0	.750000E+01	.350000E+02	-.650000E+03	.000000E+00

17	0	.000000E+00	.400000E+02	-.650000E+03	.000000E+00
18	0	.750000E+01	.400000E+02	-.650000E+03	.000000E+00
19	0	.000000E+00	.450000E+02	-.650000E+03	.000000E+00
20	0	.750000E+01	.450000E+02	-.650000E+03	.000000E+00
21	0	.000000E+00	.500000E+02	-.650000E+03	.000000E+00
	0	.750000E+01	.500000E+02	-.650000E+03	.000000E+00
	0	.000000E+00	.550000E+02	-.650000E+03	.000000E+00
24	0	.750000E+01	.550000E+02	-.650000E+03	.000000E+00
25	0	.000000E+00	.600000E+02	-.650000E+03	.000000E+00
26	0	.750000E+01	.600000E+02	-.650000E+03	.000000E+00
27	0	.000000E+00	.650000E+02	-.650000E+03	.000000E+00
28	0	.750000E+01	.650000E+02	-.650000E+03	.000000E+00
29	0	.000000E+00	.700000E+02	-.650000E+03	.000000E+00
30	0	.750000E+01	.700000E+02	-.650000E+03	.000000E+00
31	0	.000000E+00	.750000E+02	-.650000E+03	.000000E+00
32	0	.750000E+01	.750000E+02	-.650000E+03	.000000E+00
33	0	.000000E+00	.800000E+02	-.650000E+03	.000000E+00
34	0	.750000E+01	.800000E+02	-.650000E+03	.000000E+00
35	0	.000000E+00	.850000E+02	-.650000E+03	.000000E+00
36	0	.750000E+01	.850000E+02	-.650000E+03	.000000E+00
37	0	.000000E+00	.900000E+02	-.650000E+03	.000000E+00
38	0	.750000E+01	.900000E+02	-.650000E+03	.000000E+00
39	0	.000000E+00	.950000E+02	-.650000E+03	.000000E+00
40	0	.750000E+01	.950000E+02	-.650000E+03	.000000E+00
41	0	.000000E+00	.100000E+03	-.650000E+03	.000000E+00
42	0	.750000E+01	.100000E+03	-.650000E+03	.000000E+00
43	0	.000000E+00	.105000E+03	-.650000E+03	.000000E+00
44	0	.750000E+01	.105000E+03	-.650000E+03	.000000E+00
45	0	.000000E+00	.110000E+03	-.650000E+03	.000000E+00
46	0	.750000E+01	.110000E+03	-.650000E+03	.000000E+00
47	0	.000000E+00	.115000E+03	-.650000E+03	.000000E+00
	0	.750000E+01	.115000E+03	-.650000E+03	.000000E+00
	0	.000000E+00	.120000E+03	-.650000E+03	.000000E+00
50	0	.750000E+01	.120000E+03	-.650000E+03	.000000E+00
51	0	.000000E+00	.125000E+03	-.650000E+03	.000000E+00
52	0	.750000E+01	.125000E+03	-.650000E+03	.000000E+00
53	0	.000000E+00	.130000E+03	-.650000E+03	.000000E+00
54	0	.750000E+01	.130000E+03	-.650000E+03	.000000E+00
55	0	.000000E+00	.135000E+03	-.650000E+03	.000000E+00
56	0	.750000E+01	.135000E+03	-.650000E+03	.000000E+00
57	0	.000000E+00	.140000E+03	-.650000E+03	.000000E+00
58	0	.750000E+01	.140000E+03	-.650000E+03	.000000E+00
59	0	.000000E+00	.145000E+03	-.650000E+03	.000000E+00
60	0	.750000E+01	.145000E+03	-.650000E+03	.000000E+00
61	0	.000000E+00	.150000E+03	-.650000E+03	.000000E+00
62	0	.750000E+01	.150000E+03	-.650000E+03	.000000E+00
63	0	.000000E+00	.155000E+03	-.650000E+03	.000000E+00
64	0	.750000E+01	.155000E+03	-.650000E+03	.000000E+00
65	0	.000000E+00	.160000E+03	-.650000E+03	.000000E+00
66	0	.750000E+01	.160000E+03	-.650000E+03	.000000E+00
67	0	.000000E+00	.165000E+03	-.650000E+03	.000000E+00
68	0	.750000E+01	.165000E+03	-.650000E+03	.000000E+00
69	0	.000000E+00	.170000E+03	-.650000E+03	.000000E+00
70	0	.750000E+01	.170000E+03	-.650000E+03	.000000E+00
71	0	.000000E+00	.175000E+03	-.650000E+03	.000000E+00
72	0	.750000E+01	.175000E+03	-.650000E+03	.000000E+00
	0	.000000E+00	.180000E+03	-.650000E+03	.000000E+00
4	0	.750000E+01	.180000E+03	-.650000E+03	.000000E+00
75	0	.000000E+00	.200000E+03	-.650000E+03	.000000E+00
76	0	.750000E+01	.200000E+03	-.650000E+03	.000000E+00
77	0	.000000E+00	.220000E+03	-.650000E+03	.000000E+00
78	0	.750000E+01	.220000E+03	-.650000E+03	.000000E+00

79	0	.000000E+00	.240000E+03	-.650000E+03	.000000E+00
80	0	.750000E+01	.240000E+03	-.650000E+03	.000000E+00
81	0	.000000E+00	.260000E+03	-.650000E+03	.000000E+00
82	0	.750000E+01	.260000E+03	-.650000E+03	.000000E+00
83	0	.000000E+00	.280000E+03	-.650000E+03	.000000E+00
84	0	.750000E+01	.280000E+03	-.650000E+03	.000000E+00
85	0	.000000E+00	.300000E+03	-.650000E+03	.000000E+00
86	0	.750000E+01	.300000E+03	-.650000E+03	.000000E+00
87	0	.000000E+00	.320000E+03	-.650000E+03	.000000E+00
88	0	.750000E+01	.320000E+03	-.650000E+03	.000000E+00
89	0	.000000E+00	.340000E+03	-.650000E+03	.000000E+00
90	0	.750000E+01	.340000E+03	-.650000E+03	.000000E+00
91	0	.000000E+00	.360000E+03	-.650000E+03	.000000E+00
92	0	.750000E+01	.360000E+03	-.650000E+03	.000000E+00
93	0	.000000E+00	.380000E+03	-.650000E+03	.000000E+00
94	0	.750000E+01	.380000E+03	-.650000E+03	.000000E+00
95	0	.000000E+00	.400000E+03	-.650000E+03	.000000E+00
96	0	.750000E+01	.400000E+03	-.650000E+03	.000000E+00
97	0	.000000E+00	.420000E+03	-.650000E+03	.000000E+00
98	0	.750000E+01	.420000E+03	-.650000E+03	.000000E+00
99	0	.000000E+00	.440000E+03	-.650000E+03	.000000E+00
100	0	.750000E+01	.440000E+03	-.650000E+03	.000000E+00
101	0	.000000E+00	.460000E+03	-.650000E+03	.000000E+00
102	0	.750000E+01	.460000E+03	-.650000E+03	.000000E+00
103	0	.000000E+00	.480000E+03	-.650000E+03	.000000E+00
104	0	.750000E+01	.480000E+03	-.650000E+03	.000000E+00
105	0	.000000E+00	.500000E+03	-.650000E+03	.000000E+00
106	0	.750000E+01	.500000E+03	-.650000E+03	.000000E+00
107	0	.000000E+00	.520000E+03	-.650000E+03	.000000E+00
108	0	.750000E+01	.520000E+03	-.650000E+03	.000000E+00
109	0	.000000E+00	.540000E+03	-.650000E+03	.000000E+00
110	0	.750000E+01	.540000E+03	-.650000E+03	.000000E+00
111	0	.000000E+00	.560000E+03	-.650000E+03	.000000E+00
112	0	.750000E+01	.560000E+03	-.650000E+03	.000000E+00
113	0	.000000E+00	.580000E+03	-.650000E+03	.000000E+00
114	0	.750000E+01	.580000E+03	-.650000E+03	.000000E+00
115	0	.000000E+00	.600000E+03	-.650000E+03	.000000E+00
116	0	.750000E+01	.600000E+03	-.650000E+03	.000000E+00
117	0	.000000E+00	.620000E+03	-.650000E+03	.000000E+00
118	0	.750000E+01	.620000E+03	-.650000E+03	.000000E+00
119	0	.000000E+00	.640000E+03	-.650000E+03	.000000E+00
120	0	.750000E+01	.640000E+03	-.650000E+03	.000000E+00
121	0	.000000E+00	.660000E+03	-.650000E+03	.000000E+00
122	0	.750000E+01	.660000E+03	-.650000E+03	.000000E+00
123	0	.000000E+00	.680000E+03	-.650000E+03	.000000E+00
124	0	.750000E+01	.680000E+03	-.650000E+03	.000000E+00
125	0	.000000E+00	.700000E+03	-.650000E+03	.000000E+00
126	0	.750000E+01	.700000E+03	-.650000E+03	.000000E+00
127	0	.000000E+00	.720000E+03	-.650000E+03	.000000E+00
128	0	.750000E+01	.720000E+03	-.650000E+03	.000000E+00
129	0	.000000E+00	.740000E+03	-.650000E+03	.000000E+00
130	0	.750000E+01	.740000E+03	-.650000E+03	.000000E+00
131	0	.000000E+00	.760000E+03	-.650000E+03	.000000E+00
132	0	.750000E+01	.760000E+03	-.650000E+03	.000000E+00
133	0	.000000E+00	.780000E+03	-.650000E+03	.000000E+00
134	0	.750000E+01	.780000E+03	-.650000E+03	.000000E+00
135	0	.000000E+00	.800000E+03	-.650000E+03	.000000E+00
136	0	.750000E+01	.800000E+03	-.650000E+03	.000000E+00
137	0	.000000E+00	.820000E+03	-.650000E+03	.000000E+00
138	0	.750000E+01	.820000E+03	-.650000E+03	.000000E+00
139	0	.000000E+00	.840000E+03	-.650000E+03	.000000E+00
140	0	.750000E+01	.840000E+03	-.650000E+03	.000000E+00

141	0	.000000E+00	.860000E+03	-.650000E+03	.000000E+00
142	0	.750000E+01	.860000E+03	-.650000E+03	.000000E+00
143	0	.000000E+00	.880000E+03	-.650000E+03	.000000E+00
144	0	.750000E+01	.880000E+03	-.650000E+03	.000000E+00
145	0	.000000E+00	.900000E+03	-.650000E+03	.000000E+00
	0	.750000E+01	.900000E+03	-.650000E+03	.000000E+00
	0	.000000E+00	.920000E+03	-.650000E+03	.000000E+00
148	0	.750000E+01	.920000E+03	-.650000E+03	.000000E+00
149	0	.000000E+00	.940000E+03	-.200000E+04	.000000E+00
150	0	.750000E+01	.940000E+03	-.200000E+04	.000000E+00
151	0	.000000E+00	.960000E+03	-.200000E+04	.000000E+00
152	0	.750000E+01	.960000E+03	-.200000E+04	.000000E+00
153	0	.000000E+00	.980000E+03	-.200000E+04	.000000E+00
154	0	.750000E+01	.980000E+03	-.200000E+04	.000000E+00
155	0	.000000E+00	.100000E+04	-.200000E+04	.000000E+00
156	0	.750000E+01	.100000E+04	-.200000E+04	.000000E+00
157	0	.000000E+00	.102000E+04	-.200000E+04	.000000E+00
158	0	.750000E+01	.102000E+04	-.200000E+04	.000000E+00
159	0	.000000E+00	.104000E+04	-.200000E+04	.000000E+00
160	0	.750000E+01	.104000E+04	-.200000E+04	.000000E+00
161	0	.000000E+00	.106000E+04	-.200000E+04	.000000E+00
162	0	.750000E+01	.106000E+04	-.200000E+04	.000000E+00
163	0	.000000E+00	.108000E+04	-.200000E+04	.000000E+00
164	0	.750000E+01	.108000E+04	-.200000E+04	.000000E+00
165	0	.000000E+00	.110000E+04	-.200000E+04	.000000E+00
166	0	.750000E+01	.110000E+04	-.200000E+04	.000000E+00
167	0	.000000E+00	.112000E+04	-.200000E+04	.000000E+00
168	0	.750000E+01	.112000E+04	-.200000E+04	.000000E+00
169	0	.000000E+00	.114000E+04	-.200000E+04	.000000E+00
170	0	.750000E+01	.114000E+04	-.200000E+04	.000000E+00
171	0	.000000E+00	.116000E+04	-.200000E+04	.000000E+00
	0	.750000E+01	.116000E+04	-.200000E+04	.000000E+00
	0	.000000E+00	.118000E+04	-.200000E+04	.000000E+00
174	0	.750000E+01	.118000E+04	-.200000E+04	.000000E+00
175	0	.000000E+00	.120000E+04	-.200000E+04	.000000E+00
176	0	.750000E+01	.120000E+04	-.200000E+04	.000000E+00
177	0	.000000E+00	.122000E+04	-.200000E+04	.000000E+00
178	0	.750000E+01	.122000E+04	-.200000E+04	.000000E+00
179	0	.000000E+00	.124000E+04	-.200000E+04	.000000E+00
180	0	.750000E+01	.124000E+04	-.200000E+04	.000000E+00
181	0	.000000E+00	.126000E+04	-.200000E+04	.000000E+00
182	0	.750000E+01	.126000E+04	-.200000E+04	.000000E+00
183	0	.000000E+00	.128000E+04	-.200000E+04	.000000E+00
184	0	.750000E+01	.128000E+04	-.200000E+04	.000000E+00
185	0	.000000E+00	.130000E+04	-.200000E+04	.000000E+00
186	0	.750000E+01	.130000E+04	-.200000E+04	.000000E+00
187	0	.000000E+00	.132000E+04	-.200000E+04	.000000E+00
188	0	.750000E+01	.132000E+04	-.200000E+04	.000000E+00
189	0	.000000E+00	.134000E+04	-.200000E+04	.000000E+00
190	0	.750000E+01	.134000E+04	-.200000E+04	.000000E+00
191	0	.000000E+00	.136000E+04	-.200000E+04	.000000E+00
192	0	.750000E+01	.136000E+04	-.200000E+04	.000000E+00
193	0	.000000E+00	.138000E+04	-.200000E+04	.000000E+00
194	0	.750000E+01	.138000E+04	-.200000E+04	.000000E+00
195	0	.000000E+00	.140000E+04	-.200000E+04	.000000E+00
196	0	.750000E+01	.140000E+04	-.200000E+04	.000000E+00
	0	.000000E+00	.142000E+04	-.200000E+04	.000000E+00
198	0	.750000E+01	.142000E+04	-.200000E+04	.000000E+00
199	0	.000000E+00	.144000E+04	-.200000E+04	.000000E+00
200	0	.750000E+01	.144000E+04	-.200000E+04	.000000E+00
201	0	.000000E+00	.146000E+04	-.200000E+04	.000000E+00
202	0	.750000E+01	.146000E+04	-.200000E+04	.000000E+00

203	0	.000000E+00	.148000E+04	-.200000E+04	.000000E+00
204	0	.750000E+01	.148000E+04	-.200000E+04	.000000E+00
205	0	.000000E+00	.150000E+04	-.200000E+04	.000000E+00
206	0	.750000E+01	.150000E+04	-.200000E+04	.000000E+00
207	0	.000000E+00	.152000E+04	-.200000E+04	.000000E+00
208	0	.750000E+01	.152000E+04	-.200000E+04	.000000E+00
209	0	.000000E+00	.154000E+04	-.200000E+04	.000000E+00
210	0	.750000E+01	.154000E+04	-.200000E+04	.000000E+00
211	0	.000000E+00	.156000E+04	-.200000E+04	.000000E+00
212	0	.750000E+01	.156000E+04	-.200000E+04	.000000E+00
213	0	.000000E+00	.158000E+04	-.200000E+04	.000000E+00
214	0	.750000E+01	.158000E+04	-.200000E+04	.000000E+00
215	0	.000000E+00	.160000E+04	-.200000E+04	.000000E+00
216	0	.750000E+01	.160000E+04	-.200000E+04	.000000E+00
217	0	.000000E+00	.162000E+04	-.200000E+04	.000000E+00
218	0	.750000E+01	.162000E+04	-.200000E+04	.000000E+00
219	0	.000000E+00	.164000E+04	-.200000E+04	.000000E+00
220	0	.750000E+01	.164000E+04	-.200000E+04	.000000E+00
221	0	.000000E+00	.166000E+04	-.200000E+04	.000000E+00
222	0	.750000E+01	.166000E+04	-.200000E+04	.000000E+00
223	0	.000000E+00	.168000E+04	-.200000E+04	.162000E-01
224	0	.750000E+01	.168000E+04	-.200000E+04	.162000E-01

ELEMENT INFORMATION

ELEMENT	C O R N E R	N O D E S			MATERIAL	ANGLE
1	1	2	4	3	1	.000E+00
2	3	4	6	5	1	.000E+00
3	5	6	8	7	1	.000E+00
4	7	8	10	9	1	.000E+00
5	9	10	12	11	1	.000E+00
6	11	12	14	13	1	.000E+00
7	13	14	16	15	1	.000E+00
8	15	16	18	17	1	.000E+00
9	17	18	20	19	1	.000E+00
10	19	20	22	21	1	.000E+00
11	21	22	24	23	1	.000E+00
12	23	24	26	25	1	.000E+00
13	25	26	28	27	1	.000E+00
14	27	28	30	29	1	.000E+00
15	29	30	32	31	1	.000E+00
16	31	32	34	33	1	.000E+00
17	33	34	36	35	1	.000E+00
18	35	36	38	37	1	.000E+00
19	37	38	40	39	1	.000E+00
20	39	40	42	41	1	.000E+00
21	41	42	44	43	1	.000E+00
22	43	44	46	45	1	.000E+00
23	45	46	48	47	1	.000E+00
24	47	48	50	49	1	.000E+00
25	49	50	52	51	1	.000E+00
26	51	52	54	53	1	.000E+00
27	53	54	56	55	1	.000E+00
28	55	56	58	57	1	.000E+00
29	57	58	60	59	1	.000E+00
30	59	60	62	61	1	.000E+00
31	61	62	64	63	1	.000E+00
32	63	64	66	65	1	.000E+00

33	65	66	68	67	1	.000E+00
34	67	68	70	69	1	.000E+00
35	69	70	72	71	1	.000E+00
36	71	72	74	73	2	.000E+00
37	73	74	76	75	2	.000E+00
38	75	76	78	77	2	.000E+00
39	77	78	80	79	2	.000E+00
40	79	80	82	81	2	.000E+00
41	81	82	84	83	2	.000E+00
42	83	84	86	85	2	.000E+00
43	85	86	88	87	2	.000E+00
44	87	88	90	89	2	.000E+00
45	89	90	92	91	2	.000E+00
46	91	92	94	93	2	.000E+00
47	93	94	96	95	2	.000E+00
48	95	96	98	97	2	.000E+00
49	97	98	100	99	2	.000E+00
50	99	100	102	101	2	.000E+00
51	101	102	104	103	2	.000E+00
52	103	104	106	105	2	.000E+00
53	105	106	108	107	2	.000E+00
54	107	108	110	109	2	.000E+00
55	109	110	112	111	2	.000E+00
56	111	112	114	113	2	.000E+00
57	113	114	116	115	2	.000E+00
58	115	116	118	117	2	.000E+00
59	117	118	120	119	2	.000E+00
60	119	120	122	121	2	.000E+00
61	121	122	124	123	2	.000E+00
62	123	124	126	125	2	.000E+00
63	125	126	128	127	2	.000E+00
64	127	128	130	129	2	.000E+00
65	129	130	132	131	2	.000E+00
66	131	132	134	133	2	.000E+00
67	133	134	136	135	2	.000E+00
68	135	136	138	137	2	.000E+00
69	137	138	140	139	2	.000E+00
70	139	140	142	141	2	.000E+00
71	141	142	144	143	2	.000E+00
72	143	144	146	145	2	.000E+00
73	145	146	148	147	2	.000E+00
74	147	148	150	149	3	.000E+00
75	149	150	152	151	3	.000E+00
76	151	152	154	153	3	.000E+00
77	153	154	156	155	3	.000E+00
78	155	156	158	157	3	.000E+00
79	157	158	160	159	3	.000E+00
80	159	160	162	161	3	.000E+00
81	161	162	164	163	3	.000E+00
82	163	164	166	165	3	.000E+00
83	165	166	168	167	3	.000E+00
84	167	168	170	169	3	.000E+00
85	169	170	172	171	3	.000E+00
86	171	172	174	173	3	.000E+00
87	173	174	176	175	3	.000E+00
88	175	176	178	177	3	.000E+00
89	177	178	180	179	3	.000E+00
90	179	180	182	181	3	.000E+00
91	181	182	184	183	3	.000E+00
92	183	184	186	185	3	.000E+00
93	185	186	188	187	3	.000E+00
94	187	188	190	189	3	.000E+00

95	189	190	192	191	3	.000E+00
96	191	192	194	193	3	.000E+00
97	193	194	196	195	3	.000E+00
98	195	196	198	197	3	.000E+00
99	197	198	200	199	3	.000E+00
100	199	200	202	201	3	.000E+00
101	201	202	204	203	3	.000E+00
102	203	204	206	205	3	.000E+00
103	205	206	208	207	3	.000E+00
104	207	208	210	209	3	.000E+00
105	209	210	212	211	3	.000E+00
106	211	212	214	213	3	.000E+00
107	213	214	216	215	3	.000E+00
108	215	216	218	217	3	.000E+00
109	217	218	220	219	3	.000E+00
110	219	220	222	221	3	.000E+00
111	221	222	224	223	3	.000E+00

GREEN RIVER: 1) GRN5420@93% 2) GRN5350@95% 3) GRN5350@95%; 5.0E-08cm/s cover flux

TIME = 5.0000 TIME STEP = 1

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .13880E+03 AT NODE 149

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 3 WAS .16151E+02 AT NODE 152

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 4 WAS .30201E+01 AT NODE 149

CUMULATIVE INFLOW INTO SYSTEM IS = .11899E+02
CUMULATIVE OUTFLOW FROM SYSTEM IS = .00000E+00
CUMULATIVE CHANGE IN SYSTEM IS = .11899E+02

NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.42000E+03	-.42000E+03	.10504E+01	2	-.42000E+03	-.42000E+03	.12971E+01	3	-.43141E+03	-.43641E+03	.00000E+00
4	-.43021E+03	-.43521E+03	.00000E+00	5	-.44888E+03	-.45888E+03	.00000E+00	6	-.44848E+03	-.45848E+03	.00000E+00
7	-.46504E+03	-.48004E+03	.00000E+00	8	-.46489E+03	-.47989E+03	.00000E+00	9	-.47965E+03	-.49965E+03	.00000E+00
10	-.47958E+03	-.49958E+03	.00000E+00	11	-.49262E+03	-.51762E+03	.00000E+00	12	-.49258E+03	-.51758E+03	.00000E+00
13	-.50395E+03	-.53395E+03	.00000E+00	14	-.50392E+03	-.53392E+03	.00000E+00	15	-.51367E+03	-.54867E+03	.00000E+00
16	-.51365E+03	-.54865E+03	.00000E+00	17	-.52185E+03	-.56185E+03	.00000E+00	18	-.52183E+03	-.56183E+03	.00000E+00
19	-.52857E+03	-.57357E+03	.00000E+00	20	-.52856E+03	-.57356E+03	.00000E+00	21	-.53394E+03	-.58394E+03	.00[illegible]00
22	-.53393E+03	-.58393E+03	.00000E+00	23	-.53805E+03	-.59305E+03	.00000E+00	24	-.53804E+03	-.59304E+03	.00[illegible]00
25	-.54102E+03	-.60102E+03	.00000E+00	26	-.54101E+03	-.60101E+03	.00000E+00	27	-.54297E+03	-.60797E+03	.00000E+00
28	-.54296E+03	-.60796E+03	.00000E+00	29	-.54399E+03	-.61399E+03	.00000E+00	30	-.54399E+03	-.61399E+03	.00000E+00
31	-.54421E+03	-.61921E+03	.00000E+00	32	-.54421E+03	-.61921E+03	.00000E+00	33	-.54370E+03	-.62370E+03	.00000E+00
34	-.54370E+03	-.62370E+03	.00000E+00	35	-.54257E+03	-.62757E+03	.00000E+00	36	-.54257E+03	-.62757E+03	.00000E+00
37	-.54089E+03	-.63089E+03	.00000E+00	38	-.54089E+03	-.63089E+03	.00000E+00	39	-.53873E+03	-.63373E+03	.00000E+00

40	-.53873E+03	-.63373E+03	.00000E+00	41	-.53617E+03	-.63617E+03	.00000E+00	42	-.53617E+03	-.63617E+03	.00000E+00
43	-.53324E+03	-.63824E+03	.00000E+00	44	-.53324E+03	-.63824E+03	.00000E+00	45	-.53001E+03	-.64001E+03	.00000E+00
46	-.53001E+03	-.64001E+03	.00000E+00	47	-.52652E+03	-.64152E+03	.00000E+00	48	-.52652E+03	-.64152E+03	.00000E+00
49	-.52280E+03	-.64280E+03	.00000E+00	50	-.52280E+03	-.64280E+03	.00000E+00	51	-.51890E+03	-.64390E+03	.00000E+00
52	[illegible]90E+03	-.64390E+03	.00000E+00	53	-.51482E+03	-.64482E+03	.00000E+00	54	-.51482E+03	-.64482E+03	.00000E+00
55	[illegible]1E+03	-.64561E+03	.00000E+00	56	-.51061E+03	-.64561E+03	.00000E+00	57	-.50628E+03	-.64628E+03	.00000E+00
58	[illegible]628E+03	-.64628E+03	.00000E+00	59	-.50185E+03	-.64685E+03	.00000E+00	60	-.50185E+03	-.64685E+03	.00000E+00
61	-.49733E+03	-.64733E+03	.00000E+00	62	-.49733E+03	-.64733E+03	.00000E+00	63	-.49274E+03	-.64774E+03	.00000E+00
64	-.49274E+03	-.64774E+03	.00000E+00	65	-.48809E+03	-.64809E+03	.00000E+00	66	-.48809E+03	-.64809E+03	.00000E+00
67	-.48339E+03	-.64839E+03	.00000E+00	68	-.48339E+03	-.64839E+03	.00000E+00	69	-.47864E+03	-.64864E+03	.00000E+00
70	-.47864E+03	-.64864E+03	.00000E+00	71	-.47385E+03	-.64885E+03	.00000E+00	72	-.47385E+03	-.64885E+03	.00000E+00
73	-.46904E+03	-.64904E+03	.00000E+00	74	-.46903E+03	-.64903E+03	.00000E+00	75	-.44950E+03	-.64950E+03	.00000E+00
76	-.44950E+03	-.64950E+03	.00000E+00	77	-.42974E+03	-.64974E+03	.00000E+00	78	-.42974E+03	-.64974E+03	.00000E+00
79	-.40987E+03	-.64987E+03	.00000E+00	80	-.40987E+03	-.64987E+03	.00000E+00	81	-.38993E+03	-.64993E+03	.00000E+00
82	-.38993E+03	-.64993E+03	.00000E+00	83	-.36996E+03	-.64996E+03	.00000E+00	84	-.36996E+03	-.64996E+03	.00000E+00
85	-.34998E+03	-.64998E+03	.00000E+00	86	-.34998E+03	-.64998E+03	.00000E+00	87	-.32999E+03	-.64999E+03	.00000E+00
88	-.32999E+03	-.64999E+03	.00000E+00	89	-.31000E+03	-.65000E+03	.00000E+00	90	-.31000E+03	-.65000E+03	.00000E+00
91	-.29000E+03	-.65000E+03	.00000E+00	92	-.29000E+03	-.65000E+03	.00000E+00	93	-.27000E+03	-.65000E+03	.00000E+00
94	-.27000E+03	-.65000E+03	.00000E+00	95	-.25000E+03	-.65000E+03	.00000E+00	96	-.25000E+03	-.65000E+03	.00000E+00
97	-.23000E+03	-.65000E+03	.00000E+00	98	-.23000E+03	-.65000E+03	.00000E+00	99	-.21000E+03	-.65000E+03	.00000E+00
100	-.21000E+03	-.65000E+03	.00000E+00	101	-.19000E+03	-.65000E+03	.00000E+00	102	-.19000E+03	-.65000E+03	.00000E+00
103	-.17000E+03	-.65000E+03	.00000E+00	104	-.17000E+03	-.65000E+03	.00000E+00	105	-.15000E+03	-.65000E+03	.00000E+00
106	-.15000E+03	-.65000E+03	.00000E+00	107	-.13000E+03	-.65000E+03	.00000E+00	108	-.13000E+03	-.65000E+03	.00000E+00
109	-.11000E+03	-.65000E+03	.00000E+00	110	-.11000E+03	-.65000E+03	.00000E+00	111	-.90004E+02	-.65000E+03	.00000E+00
112	-.90003E+02	-.65000E+03	.00000E+00	113	-.70006E+02	-.65001E+03	.00000E+00	114	-.70006E+02	-.65001E+03	.00000E+00
115	-.50010E+02	-.65001E+03	.00000E+00	116	-.50010E+02	-.65001E+03	.00000E+00	117	-.30018E+02	-.65002E+03	.00000E+00
118	-.30018E+02	-.65002E+03	.00000E+00	119	-.10032E+02	-.65003E+03	.00000E+00	120	-.10032E+02	-.65003E+03	.00000E+00
121	.99432E+01	-.65006E+03	.00000E+00	122	.99433E+01	-.65006E+03	.00000E+00	123	.29898E+02	-.65010E+03	.00000E+00
124	.29898E+02	-.65010E+03	.00000E+00	125	.49816E+02	-.65018E+03	.00000E+00	126	.49816E+02	-.65018E+03	.00000E+00
127	.69670E+02	-.65033E+03	.00000E+00	128	.69671E+02	-.65033E+03	.00000E+00	129	.89408E+02	-.65059E+03	.00000E+00
130	[illegible]9408E+02	-.65059E+03	.00000E+00	131	.10893E+03	-.65107E+03	.00000E+00	132	.10894E+03	-.65106E+03	.00000E+00
133	[illegible]808E+03	-.65192E+03	.00000E+00	134	.12808E+03	-.65192E+03	.00000E+00	135	.14654E+03	-.65346E+03	.00000E+00
136	.14654E+03	-.65346E+03	.00000E+00	137	.16374E+03	-.65626E+03	.00000E+00	138	.16375E+03	-.65625E+03	.00000E+00
139	.17865E+03	-.66135E+03	.00000E+00	140	.17865E+03	-.66135E+03	.00000E+00	141	.18923E+03	-.67077E+03	.00000E+00
142	.18923E+03	-.67077E+03	.00000E+00	143	.19145E+03	-.68855E+03	.00000E+00	144	.19143E+03	-.68857E+03	.00000E+00
145	.17640E+03	-.72360E+03	.00000E+00	146	.17624E+03	-.72376E+03	.00000E+00	147	.12150E+03	-.79850E+03	.00000E+00
148	.11891E+03	-.80109E+03	.00000E+00	149	-.21499E+03	-.11550E+04	.00000E+00	150	-.21069E+03	-.11507E+04	.00000E+00
151	-.93762E+03	-.18976E+04	.00000E+00	152	-.93095E+03	-.18909E+04	.00000E+00	153	-.10127E+04	-.19927E+04	.00000E+00
154	-.10124E+04	-.19924E+04	.00000E+00	155	-.99951E+03	-.19995E+04	.00000E+00	156	-.99950E+03	-.19995E+04	.00000E+00
157	-.97997E+03	-.20000E+04	.00000E+00	158	-.97997E+03	-.20000E+04	.00000E+00	159	-.96000E+03	-.20000E+04	.00000E+00
160	-.96000E+03	-.20000E+04	.00000E+00	161	-.94000E+03	-.20000E+04	.00000E+00	162	-.94000E+03	-.20000E+04	.00000E+00
163	-.92000E+03	-.20000E+04	.00000E+00	164	-.92000E+03	-.20000E+04	.00000E+00	165	-.90000E+03	-.20000E+04	.00000E+00
166	-.90000E+03	-.20000E+04	.00000E+00	167	-.88000E+03	-.20000E+04	.00000E+00	168	-.88000E+03	-.20000E+04	.00000E+00
169	-.86000E+03	-.20000E+04	.00000E+00	170	-.86000E+03	-.20000E+04	.00000E+00	171	-.84000E+03	-.20000E+04	.00000E+00
172	-.84000E+03	-.20000E+04	.00000E+00	173	-.82000E+03	-.20000E+04	.00000E+00	174	-.82000E+03	-.20000E+04	.00000E+00
175	-.80000E+03	-.20000E+04	.00000E+00	176	-.80000E+03	-.20000E+04	.00000E+00	177	-.78000E+03	-.20000E+04	.00000E+00
178	-.78000E+03	-.20000E+04	.00000E+00	179	-.76000E+03	-.20000E+04	.00000E+00	180	-.76000E+03	-.20000E+04	.00000E+00
181	-.74000E+03	-.20000E+04	.00000E+00	182	-.74000E+03	-.20000E+04	.00000E+00	183	-.72000E+03	-.20000E+04	.00000E+00
184	-.72000E+03	-.20000E+04	.00000E+00	185	-.70000E+03	-.20000E+04	.00000E+00	186	-.70000E+03	-.20000E+04	.00000E+00
187	-.68000E+03	-.20000E+04	.00000E+00	188	-.68000E+03	-.20000E+04	.00000E+00	189	-.66000E+03	-.20000E+04	.00000E+00
190	-.66000E+03	-.20000E+04	.00000E+00	191	-.64000E+03	-.20000E+04	.00000E+00	192	-.64000E+03	-.20000E+04	.00000E+00
193	-.62000E+03	-.20000E+04	.00000E+00	194	-.62000E+03	-.20000E+04	.00000E+00	195	-.60000E+03	-.20000E+04	.00000E+00
196	-.60000E+03	-.20000E+04	.00000E+00	197	-.58000E+03	-.20000E+04	.00000E+00	198	-.58000E+03	-.20000E+04	.00000E+00
199	-.56000E+03	-.20000E+04	.00000E+00	200	-.56000E+03	-.20000E+04	.00000E+00	201	-.54000E+03	-.20000E+04	.00000E+00
202	-.54000E+03	-.20000E+04	.00000E+00	203	-.52000E+03	-.20000E+04	.00000E+00	204	-.52000E+03	-.20000E+04	.00000E+00
205	[illegible]0000E+03	-.20000E+04	.00000E+00	206	-.50000E+03	-.20000E+04	.00000E+00	207	-.48000E+03	-.20000E+04	.00000E+00
208	[illegible]000E+03	-.20000E+04	.00000E+00	209	-.46000E+03	-.20000E+04	.00000E+00	210	-.46000E+03	-.20000E+04	.00000E+00
211	-.44000E+03	-.20000E+04	.00000E+00	212	-.44000E+03	-.20000E+04	.00000E+00	213	-.42000E+03	-.20000E+04	.00000E+00
214	-.42000E+03	-.20000E+04	.00000E+00	215	-.40000E+03	-.20000E+04	.00000E+00	216	-.40000E+03	-.20000E+04	.00000E+00
217	-.37995E+03	-.20000E+04	.00000E+00	218	-.37995E+03	-.20000E+04	.00000E+00	219	-.35930E+03	-.19993E+04	.00000E+00
220	-.35932E+03	-.19993E+04	.00000E+00	221	-.32950E+03	-.19895E+04	.00000E+00	222	-.33030E+03	-.19903E+04	.00000E+00
223	-.17053E+03	-.18505E+04	.16200E-01	224	-.19551E+03	-.18755E+04	.16200E-01	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.18403E+00	2	.18403E+00	3	.17879E+00	4	.17916E+00	5	.17199E+00	6	.17211E+00
7	.16598E+00	8	.16602E+00	9	.16073E+00	10	.16075E+00	11	.15616E+00	12	.15617E+00
13	.15222E+00	14	.15222E+00	15	.14881E+00	16	.14882E+00	17	.14588E+00	18	.14589E+00
19	.14337E+00	20	.14337E+00	21	.14121E+00	22	.14122E+00	23	.13937E+00	24	.13937E+00
25	.13780E+00	26	.13780E+00	27	.13645E+00	28	.13645E+00	29	.13530E+00	30	.13530E+00
31	.13433E+00	32	.13433E+00	33	.13350E+00	34	.13350E+00	35	.13279E+00	36	.13279E+00
37	.13219E+00	38	.13219E+00	39	.13168E+00	40	.13168E+00	41	.13125E+00	42	.13125E+00
43	.13088E+00	44	.13088E+00	45	.13057E+00	46	.13057E+00	47	.13030E+00	48	.13030E+00
49	.13008E+00	50	.13008E+00	51	.12989E+00	52	.12989E+00	53	.12973E+00	54	.12973E+00
55	.12959E+00	56	.12959E+00	57	.12948E+00	58	.12948E+00	59	.12938E+00	60	.12938E+00
61	.12930E+00	62	.12930E+00	63	.12922E+00	64	.12922E+00	65	.12917E+00	66	.12917E+00
67	.12911E+00	68	.12911E+00	69	.12907E+00	70	.12907E+00	71	.12903E+00	72	.12903E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.12903E+00	72	.12903E+00	73	.12900E+00	74	.12900E+00	75	.12892E+00	76	.12892E+00
77	.12888E+00	78	.12888E+00	79	.12886E+00	80	.12886E+00	81	.12885E+00	82	.12885E+00
83	.12884E+00	84	.12884E+00	85	.12884E+00	86	.12884E+00	87	.12884E+00	88	.12884E+00
89	.12884E+00	90	.12884E+00	91	.12884E+00	92	.12884E+00	93	.12884E+00	94	.12884E+00
95	.12884E+00	96	.12884E+00	97	.12884E+00	98	.12884E+00	99	.12884E+00	100	.12884E+00
101	.12884E+00	102	.12884E+00	103	.12884E+00	104	.12884E+00	105	.12884E+00	106	.12884E+00
107	.12884E+00	108	.12884E+00	109	.12884E+00	110	.12884E+00	111	.12884E+00	112	.12884E+00
113	.12884E+00	114	.12884E+00	115	.12884E+00	116	.12884E+00	117	.12884E+00	118	.12884E+00
119	.12883E+00	120	.12883E+00	121	.12883E+00	122	.12883E+00	123	.12882E+00	124	.12882E+00
125	.12881E+00	126	.12881E+00	127	.12878E+00	128	.12878E+00	129	.12874E+00	130	.12874E+00
131	.12866E+00	132	.12866E+00	133	.12851E+00	134	.12851E+00	135	.12825E+00	136	.12825E+00
137	.12778E+00	138	.12778E+00	139	.12693E+00	140	.12693E+00	141	.12538E+00	142	.12538E+00
143	.12257E+00	144	.12257E+00	145	.11740E+00	146	.11738E+00	147	.10777E+00	148	.10747E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.95509E-01	148	.95239E-01	149	.70671E-01	150	.70869E-01	151	.51193E-01	152	.51292E-01
153	.49870E-01	154	.49873E-01	155	.49780E-01	156	.49780E-01	157	.49774E-01	158	.49774E-01
159	.49774E-01	160	.49774E-01	161	.49773E-01	162	.49773E-01	163	.49773E-01	164	.49773E-01
165	.49773E-01	166	.49773E-01	167	.49773E-01	168	.49773E-01	169	.49773E-01	170	.49773E-01
171	.49773E-01	172	.49773E-01	173	.49773E-01	174	.49773E-01	175	.49773E-01	176	.49773E-01
177	.49773E-01	178	.49773E-01	179	.49773E-01	180	.49773E-01	181	.49773E-01	182	.49773E-01
183	.49773E-01	184	.49773E-01	185	.49773E-01	186	.49773E-01	187	.49773E-01	188	.49773E-01
189	.49773E-01	190	.49773E-01	191	.49773E-01	192	.49773E-01	193	.49773E-01	194	.49773E-01
195	.49773E-01	196	.49773E-01	197	.49773E-01	198	.49773E-01	199	.49773E-01	200	.49773E-01
201	.49773E-01	202	.49773E-01	203	.49773E-01	204	.49773E-01	205	.49773E-01	206	.49773E-01
207	.49773E-01	208	.49773E-01	209	.49773E-01	210	.49773E-01	211	.49773E-01	212	.49773E-01
213	.49773E-01	214	.49773E-01	215	.49774E-01	216	.49774E-01	217	.49774E-01	218	.49774E-01
219	.49783E-01	220	.49782E-01	221	.49911E-01	222	.49901E-01	223	.51907E-01	224	.51523E-01

GREEN RIVER: 1) GRN542@93% 2) GRN535@95% 3) GRN535@95%; 5.0E-08cm/s cover flux

TIME = 67857.5900 TIME STEP = 150

4XIM NGE IN PRESSURE HEAD DURING ITERATION 2 WAS .12146E-01 AT NODE 188

CUMULATIVE INFLOW INTO SYSTEM IS = .22292E+04
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.21211E+04
CUMULATIVE CHANGE IN SYSTEM IS = .10801E+03

NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.42000E+03	-.42000E+03	-.15912E-01	2	-.42000E+03	-.42000E+03	-.16144E-01	3	-.41990E+03	-.42490E+03	.00000E+00
4	-.41990E+03	-.42490E+03	.00000E+00	5	-.41979E+03	-.42979E+03	.00000E+00	6	-.41979E+03	-.42979E+03	.00000E+00
7	-.41968E+03	-.43468E+03	.00000E+00	8	-.41968E+03	-.43468E+03	.00000E+00	9	-.41957E+03	-.43957E+03	.00000E+00
10	-.41957E+03	-.43957E+03	.00000E+00	11	-.41945E+03	-.44445E+03	.00000E+00	12	-.41945E+03	-.44445E+03	.00000E+00
13	-.41932E+03	-.44932E+03	.00000E+00	14	-.41932E+03	-.44932E+03	.00000E+00	15	-.41919E+03	-.45419E+03	.00000E+00
16	-.41919E+03	-.45419E+03	.00000E+00	17	-.41905E+03	-.45905E+03	.00000E+00	18	-.41905E+03	-.45905E+03	.00000E+00
19	-.41891E+03	-.46391E+03	.00000E+00	20	-.41891E+03	-.46391E+03	.00000E+00	21	-.41876E+03	-.46876E+03	.00000E+00
22	-.41875E+03	-.46875E+03	.00000E+00	23	-.41860E+03	-.47360E+03	.00000E+00	24	-.41860E+03	-.47360E+03	.00000E+00
25	-.41844E+03	-.47844E+03	.00000E+00	26	-.41844E+03	-.47844E+03	.00000E+00	27	-.41827E+03	-.48327E+03	.00000E+00
28	-.41827E+03	-.48327E+03	.00000E+00	29	-.41809E+03	-.48809E+03	.00000E+00	30	-.41809E+03	-.48809E+03	.00000E+00
31	-.41790E+03	-.49290E+03	.00000E+00	32	-.41790E+03	-.49290E+03	.00000E+00	33	-.41771E+03	-.49771E+03	.00000E+00
34	-.41771E+03	-.49771E+03	.00000E+00	35	-.41751E+03	-.50251E+03	.00000E+00	36	-.41751E+03	-.50251E+03	.00000E+00
37	[illegible]730E+03	-.50730E+03	.00000E+00	38	-.41730E+03	-.50730E+03	.00000E+00	39	-.41709E+03	-.51209E+03	.00000E+00
40	[illegible]709E+03	-.51209E+03	.00000E+00	41	-.41686E+03	-.51686E+03	.00000E+00	42	-.41686E+03	-.51686E+03	.00000E+00
43	-.41663E+03	-.52163E+03	.00000E+00	44	-.41663E+03	-.52163E+03	.00000E+00	45	-.41638E+03	-.52638E+03	.00000E+00
46	-.41638E+03	-.52638E+03	.00000E+00	47	-.41613E+03	-.53113E+03	.00000E+00	48	-.41613E+03	-.53113E+03	.00000E+00
49	-.41587E+03	-.53587E+03	.00000E+00	50	-.41587E+03	-.53587E+03	.00000E+00	51	-.41560E+03	-.54060E+03	.00000E+00
52	-.41560E+03	-.54060E+03	.00000E+00	53	-.41531E+03	-.54531E+03	.00000E+00	54	-.41531E+03	-.54531E+03	.00000E+00
55	-.41502E+03	-.55002E+03	.00000E+00	56	-.41502E+03	-.55002E+03	.00000E+00	57	-.41471E+03	-.55471E+03	.00000E+00
58	-.41471E+03	-.55471E+03	.00000E+00	59	-.41440E+03	-.55940E+03	.00000E+00	60	-.41440E+03	-.55940E+03	.00000E+00
61	-.41407E+03	-.56407E+03	.00000E+00	62	-.41407E+03	-.56407E+03	.00000E+00	63	-.41373E+03	-.56873E+03	.00000E+00
64	-.41373E+03	-.56873E+03	.00000E+00	65	-.41338E+03	-.57338E+03	.00000E+00	66	-.41338E+03	-.57338E+03	.00000E+00
67	-.41301E+03	-.57801E+03	.00000E+00	68	-.41301E+03	-.57801E+03	.00000E+00	69	-.41263E+03	-.58263E+03	.00000E+00
70	-.41263E+03	-.58263E+03	.00000E+00	71	-.41224E+03	-.58724E+03	.00000E+00	72	-.41224E+03	-.58724E+03	.00000E+00
73	-.41184E+03	-.59184E+03	.00000E+00	74	-.41184E+03	-.59184E+03	.00000E+00	75	-.41008E+03	-.61008E+03	.00000E+00
76	-.41008E+03	-.61008E+03	.00000E+00	77	-.40807E+03	-.62807E+03	.00000E+00	78	-.40807E+03	-.62807E+03	.00000E+00
79	-.40579E+03	-.64579E+03	.00000E+00	80	-.40579E+03	-.64579E+03	.00000E+00	81	-.40320E+03	-.66320E+03	.00000E+00
82	-.40321E+03	-.66321E+03	.00000E+00	83	-.40030E+03	-.68030E+03	.00000E+00	84	-.40030E+03	-.68030E+03	.00000E+00
85	-.39704E+03	-.69704E+03	.00000E+00	86	-.39704E+03	-.69704E+03	.00000E+00	87	-.39340E+03	-.71340E+03	.00000E+00
88	-.39340E+03	-.71340E+03	.00000E+00	89	-.38936E+03	-.72936E+03	.00000E+00	90	-.38936E+03	-.72936E+03	.00000E+00
91	-.38489E+03	-.74489E+03	.00000E+00	92	-.38489E+03	-.74489E+03	.00000E+00	93	-.37997E+03	-.75997E+03	.00000E+00
94	-.37997E+03	-.75997E+03	.00000E+00	95	-.37458E+03	-.77458E+03	.00000E+00	96	-.37458E+03	-.77458E+03	.00000E+00
97	-.36870E+03	-.78870E+03	.00000E+00	98	-.36870E+03	-.78870E+03	.00000E+00	99	-.36231E+03	-.80231E+03	.00000E+00
100	-.36231E+03	-.80231E+03	.00000E+00	101	-.35539E+03	-.81539E+03	.00000E+00	102	-.35539E+03	-.81539E+03	.00000E+00
103	-.34794E+03	-.82794E+03	.00000E+00	104	-.34794E+03	-.82794E+03	.00000E+00	105	-.33994E+03	-.83994E+03	.00000E+00
106	-.33994E+03	-.83994E+03	.00000E+00	107	-.33139E+03	-.85139E+03	.00000E+00	108	-.33139E+03	-.85139E+03	.00000E+00
109	[illegible]32229E+03	-.86229E+03	.00000E+00	110	-.32229E+03	-.86229E+03	.00000E+00	111	-.31263E+03	-.87263E+03	.00000E+00
11[illegible]	[illegible]1263E+03	-.87263E+03	.00000E+00	113	-.30242E+03	-.88242E+03	.00000E+00	114	-.30242E+03	-.88242E+03	.00000E+00
.1[illegible]	[illegible]29167E+03	-.89167E+03	.00000E+00	116	-.29167E+03	-.89167E+03	.00000E+00	117	-.28039E+03	-.90039E+03	.00000E+00
118	-.28039E+03	-.90039E+03	.00000E+00	119	-.26858E+03	-.90858E+03	.00000E+00	120	-.26859E+03	-.90859E+03	.00000E+00
121	-.25627E+03	-.91627E+03	.00000E+00	122	-.25627E+03	-.91627E+03	.00000E+00	123	-.24346E+03	-.92346E+03	.00000E+00
124	-.24347E+03	-.92347E+03	.00000E+00	125	-.23018E+03	-.93018E+03	.00000E+00	126	-.23018E+03	-.93018E+03	.00000E+00
127	-.21645E+03	-.93645E+03	.00000E+00	128	-.21645E+03	-.93645E+03	.00000E+00	129	-.20227E+03	-.94227E+03	.00000E+00

130	-.20227E+03	-.94227E+03	.00000E+00	131	-.18768E+03	-.94768E+03	.00000E+00	132	-.18768E+03	-.94768E+03	.00000E+00
133	-.17269E+03	-.95269E+03	.00000E+00	134	-.17269E+03	-.95269E+03	.00000E+00	135	-.15733E+03	-.95733E+03	.00000E+00
136	-.15733E+03	-.95733E+03	.00000E+00	137	-.14162E+03	-.96162E+03	.00000E+00	138	-.14162E+03	-.96162E+03	.00000E+00
139	-.12558E+03	-.96558E+03	.00000E+00	140	-.12558E+03	-.96558E+03	.00000E+00	141	-.10922E+03	-.96922E+03	.00000E+00
142	-.10922E+03	-.96922E+03	.00000E+00	143	-.92581E+02	-.97258E+03	.00000E+00	144	-.92581E+02	-.97258E+03	.00000E+00
145	-.75666E+02	-.97567E+03	.00000E+00	146	-.75666E+02	-.97567E+03	.00000E+00	147	-.58495E+02	-.97850E+03	.000[illegible]
148	-.58504E+02	-.97850E+03	.00000E+00	149	-.33964E+02	-.97396E+03	.00000E+00	150	-.33963E+02	-.97396E+03	.0000[illegible]
151	-.99812E+01	-.96998E+03	.00000E+00	152	-.99805E+01	-.96998E+03	.00000E+00	153	.13523E+02	-.96648E+03	.00000E+00
154	.13524E+02	-.96648E+03	.00000E+00	155	.36613E+02	-.96339E+03	.00000E+00	156	.36614E+02	-.96339E+03	.00000E+00
157	.59343E+02	-.96066E+03	.00000E+00	158	.59344E+02	-.96066E+03	.00000E+00	159	.81759E+02	-.95824E+03	.00000E+00
160	.81760E+02	-.95824E+03	.00000E+00	161	.10390E+03	-.95610E+03	.00000E+00	162	.10390E+03	-.95610E+03	.00000E+00
163	.12580E+03	-.95420E+03	.00000E+00	164	.12580E+03	-.95420E+03	.00000E+00	165	.14748E+03	-.95252E+03	.00000E+00
166	.14748E+03	-.95252E+03	.00000E+00	167	.16898E+03	-.95102E+03	.00000E+00	168	.16898E+03	-.95102E+03	.00000E+00
169	.19032E+03	-.94968E+03	.00000E+00	170	.19032E+03	-.94968E+03	.00000E+00	171	.21150E+03	-.94850E+03	.00000E+00
172	.21150E+03	-.94850E+03	.00000E+00	173	.23256E+03	-.94744E+03	.00000E+00	174	.23256E+03	-.94744E+03	.00000E+00
175	.25350E+03	-.94650E+03	.00000E+00	176	.25350E+03	-.94650E+03	.00000E+00	177	.27434E+03	-.94566E+03	.00000E+00
178	.27434E+03	-.94566E+03	.00000E+00	179	.29509E+03	-.94491E+03	.00000E+00	180	.29509E+03	-.94491E+03	.00000E+00
181	.31575E+03	-.94425E+03	.00000E+00	182	.31575E+03	-.94425E+03	.00000E+00	183	.33635E+03	-.94365E+03	.00000E+00
184	.33635E+03	-.94365E+03	.00000E+00	185	.35688E+03	-.94312E+03	.00000E+00	186	.35688E+03	-.94312E+03	.00000E+00
187	.37735E+03	-.94265E+03	.00000E+00	188	.37735E+03	-.94265E+03	.00000E+00	189	.39777E+03	-.94223E+03	.00000E+00
190	.39777E+03	-.94223E+03	.00000E+00	191	.41815E+03	-.94185E+03	.00000E+00	192	.41815E+03	-.94185E+03	.00000E+00
193	.43849E+03	-.94151E+03	.00000E+00	194	.43849E+03	-.94151E+03	.00000E+00	195	.45879E+03	-.94121E+03	.00000E+00
196	.45879E+03	-.94121E+03	.00000E+00	197	.47906E+03	-.94094E+03	.00000E+00	198	.47906E+03	-.94094E+03	.00000E+00
199	.49930E+03	-.94070E+03	.00000E+00	200	.49930E+03	-.94070E+03	.00000E+00	201	.51952E+03	-.94048E+03	.00000E+00
202	.51952E+03	-.94048E+03	.00000E+00	203	.53971E+03	-.94029E+03	.00000E+00	204	.53971E+03	-.94029E+03	.00000E+00
205	.55988E+03	-.94012E+03	.00000E+00	206	.55988E+03	-.94012E+03	.00000E+00	207	.58004E+03	-.93996E+03	.00000E+00
208	.58004E+03	-.93996E+03	.00000E+00	209	.60018E+03	-.93962E+03	.00000E+00	210	.60018E+03	-.93982E+03	.00000E+00
211	.62030E+03	-.93970E+03	.00000E+00	212	.62030E+03	-.93970E+03	.00000E+00	213	.64041E+03	-.93959E+03	.00000E+00
214	.64041E+03	-.93959E+03	.00000E+00	215	.66051E+03	-.93949E+03	.00000E+00	216	.66051E+03	-.93949E+03	.00000E+00
217	.68059E+03	-.93941E+03	.00000E+00	218	.68059E+03	-.93941E+03	.00000E+00	219	.70067E+03	-.93933E+03	.00000E+00
220	.70067E+03	-.93933E+03	.00000E+00	221	.72074E+03	-.93926E+03	.00000E+00	222	.72074E+03	-.93926E+03	.00000E+00
223	.74081E+03	-.93919E+03	.16200E-01	224	.74081E+03	-.93919E+03	.16200E-01	0	.00000E+00	.00000E+00	.000[illegible]

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.18403E+00	2	.18403E+00	3	.18244E+00	4	.18244E+00	5	.18087E+00	6	.18087E+00
7	.17933E+00	8	.17933E+00	9	.17781E+00	10	.17781E+00	11	.17631E+00	12	.17631E+00
13	.17483E+00	14	.17483E+00	15	.17338E+00	16	.17338E+00	17	.17194E+00	18	.17194E+00
19	.17053E+00	20	.17053E+00	21	.16914E+00	22	.16914E+00	23	.16777E+00	24	.16777E+00
25	.16643E+00	26	.16643E+00	27	.16510E+00	28	.16510E+00	29	.16379E+00	30	.16379E+00
31	.16250E+00	32	.16250E+00	33	.16123E+00	34	.16123E+00	35	.15998E+00	36	.15998E+00
37	.15876E+00	38	.15876E+00	39	.15754E+00	40	.15754E+00	41	.15635E+00	42	.15635E+00
43	.15518E+00	44	.15518E+00	45	.15402E+00	46	.15402E+00	47	.15289E+00	48	.15289E+00
49	.15177E+00	50	.15177E+00	51	.15066E+00	52	.15066E+00	53	.14958E+00	54	.14958E+00
55	.14851E+00	56	.14851E+00	57	.14746E+00	58	.14746E+00	59	.14642E+00	60	.14642E+00
61	.14540E+00	62	.14540E+00	63	.14440E+00	64	.14440E+00	65	.14341E+00	66	.14341E+00
67	.14244E+00	68	.14244E+00	69	.14148E+00	70	.14148E+00	71	.14054E+00	72	.14054E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.14054E+00	72	.14054E+00	73	.13961E+00	74	.13961E+00	75	.13605E+00	76	.13605E+00
77	.13270E+00	78	.13270E+00	79	.12956E+00	80	.12956E+00	81	.12662E+00	82	.12662E+00
83	.12386E+00	84	.12386E+00	85	.12128E+00	86	.12128E+00	87	.11886E+00	88	.11886E+00
89	.11660E+00	90	.11660E+00	91	.11448E+00	92	.11448E+00	93	.11250E+00	94	.11250E+00
95	.11065E+00	96	.11065E+00	97	.10893E+00	98	.10893E+00	99	.10732E+00	100	.10732E+00
101	.10583E+00	102	.10583E+00	103	.10444E+00	104	.10444E+00	105	.10314E+00	106	.10314E+00
107	.10194E+00	108	.10194E+00	109	.10083E+00	110	.10083E+00	111	.99797E-01	112	.99797E-01

113	.98842E-01	114	.98842E-01	115	.97959E-01	116	.97959E-01	117	.97143E-01	118	.97143E-01
119	.96390E-01	120	.96390E-01	121	.95697E-01	122	.95697E-01	123	.95058E-01	124	.95058E-01
125	.94470E-01	126	.94470E-01	127	.93930E-01	128	.93930E-01	129	.93434E-01	130	.93434E-01
131	.92979E-01	132	.92979E-01	133	.92562E-01	134	.92562E-01	135	.92180E-01	136	.92180E-01
137	.91830E-01	138	.91830E-01	139	.91510E-01	140	.91510E-01	141	.91217E-01	142	.91217E-01
1[illegible]	[illegible]0950E-01	144	.90950E-01	145	.90706E-01	146	.90706E-01	147	.90483E-01	148	.90482E-01
[illegible]	[illegible]00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

)OISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.80448E-01	148	.80448E-01	149	.80752E-01	150	.80752E-01	151	.81022E-01	152	.81022E-01
153	.81261E-01	154	.81261E-01	155	.81474E-01	156	.81474E-01	157	.81663E-01	158	.81663E-01
159	.81831E-01	160	.81831E-01	161	.81981E-01	162	.81981E-01	163	.82115E-01	164	.82115E-01
165	.82234E-01	166	.82234E-01	167	.82340E-01	168	.82340E-01	169	.82435E-01	170	.82435E-01
171	.82520E-01	172	.82520E-01	173	.82596E-01	174	.82596E-01	175	.82663E-01	176	.82663E-01
177	.82724E-01	178	.82724E-01	179	.82777E-01	180	.82777E-01	181	.82825E-01	182	.82825E-01
183	.82868E-01	184	.82868E-01	185	.82907E-01	186	.82907E-01	187	.82941E-01	188	.82941E-01
189	.82972E-01	190	.82972E-01	191	.82999E-01	192	.82999E-01	193	.83024E-01	194	.83024E-01
195	.83046E-01	196	.83046E-01	197	.83065E-01	198	.83065E-01	199	.83083E-01	200	.83083E-01
201	.83099E-01	202	.83099E-01	203	.83113E-01	204	.83113E-01	205	.83125E-01	206	.83125E-01
207	.83137E-01	208	.83137E-01	209	.83147E-01	210	.83147E-01	211	.83156E-01	212	.83156E-01
213	.83164E-01	214	.83164E-01	215	.83171E-01	216	.83171E-01	217	.83177E-01	218	.83177E-01
219	.83183E-01	220	.83183E-01	221	.83188E-01	222	.83188E-01	223	.83193E-01	224	.83193E-01

GREEN RIVER: 1) GRN542@93% 2) GRN535@95% 3) GRN535@95%; 5.0E-08cm/s cover flux

TIME = 142857.6000 TIME STEP = 300

1AXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .26855E-01 AT NODE 224

CUMULATIVE INFLOW INTO SYSTEM IS = .46592E+04
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.45360E+04
CUMULATIVE CHANGE IN SYSTEM IS = .12317E+03

NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.42000E+03	-.42000E+03	-.15950E-01	2	-.42000E+03	-.42000E+03	-.16175E-01	3	-.41990E+03	-.42490E+03	.00000E+00
4	-.41990E+03	-.42490E+03	.00000E+00	5	-.41979E+03	-.42979E+03	.00000E+00	6	-.41979E+03	-.42979E+03	.00000E+00
7	-.41968E+03	-.43468E+03	.00000E+00	8	-.41968E+03	-.43468E+03	.00000E+00	9	-.41957E+03	-.43957E+03	.00000E+00
10	-.41957E+03	-.43957E+03	.00000E+00	11	-.41945E+03	-.44445E+03	.00000E+00	12	-.41945E+03	-.44445E+03	.00000E+00
13	-.41932E+03	-.44932E+03	.00000E+00	14	-.41932E+03	-.44932E+03	.00000E+00	15	-.41919E+03	-.45419E+03	.00000E+00
16	[illegible]919E+03	-.45419E+03	.00000E+00	17	-.41905E+03	-.45905E+03	.00000E+00	18	-.41905E+03	-.45905E+03	.00000E+00
19	[illegible]1891E+03	-.46391E+03	.00000E+00	20	-.41891E+03	-.46391E+03	.00000E+00	21	-.41876E+03	-.46876E+03	.00000E+00
22	-.41876E+03	-.46876E+03	.00000E+00	23	-.41860E+03	-.47360E+03	.00000E+00	24	-.41860E+03	-.47360E+03	.00000E+00
25	-.41844E+03	-.47844E+03	.00000E+00	26	-.41844E+03	-.47844E+03	.00000E+00	27	-.41827E+03	-.48327E+03	.00000E+00
28	-.41827E+03	-.48327E+03	.00000E+00	29	-.41809E+03	-.48809E+03	.00000E+00	30	-.41809E+03	-.48809E+03	.00000E+00
31	-.41790E+03	-.49290E+03	.00000E+00	32	-.41790E+03	-.49290E+03	.00000E+00	33	-.41771E+03	-.49771E+03	.00000E+00

34	-.41771E+03	-.49771E+03	.00000E+00	35	-.41751E+03	-.50251E+03	.00000E+00	36	-.41751E+03	-.50251E+03	.00000E+00
37	-.41730E+03	-.50730E+03	.00000E+00	38	-.41730E+03	-.50730E+03	.00000E+00	39	-.41709E+03	-.51209E+03	.00000E+00
40	-.41709E+03	-.51209E+03	.00000E+00	41	-.41686E+03	-.51686E+03	.00000E+00	42	-.41686E+03	-.51686E+03	.00000E+00
43	-.41663E+03	-.52163E+03	.00000E+00	44	-.41663E+03	-.52163E+03	.00000E+00	45	-.41639E+03	-.52639E+03	.00000E+00
46	-.41639E+03	-.52639E+03	.00000E+00	47	-.41613E+03	-.53113E+03	.00000E+00	48	-.41613E+03	-.53113E+03	.0000[illegible]
49	-.41587E+03	-.53587E+03	.00000E+00	50	-.41587E+03	-.53587E+03	.00000E+00	51	-.41560E+03	-.54060E+03	.000[illegible]
52	-.41560E+03	-.54060E+03	.00000E+00	53	-.41532E+03	-.54532E+03	.00000E+00	54	-.41532E+03	-.54532E+03	.00000E+00
55	-.41502E+03	-.55002E+03	.00000E+00	56	-.41502E+03	-.55002E+03	.00000E+00	57	-.41472E+03	-.55472E+03	.00000E+00
58	-.41472E+03	-.55472E+03	.00000E+00	59	-.41440E+03	-.55940E+03	.00000E+00	60	-.41440E+03	-.55940E+03	.00000E+00
61	-.41407E+03	-.56407E+03	.00000E+00	62	-.41407E+03	-.56407E+03	.00000E+00	63	-.41373E+03	-.56873E+03	.00000E+00
64	-.41373E+03	-.56873E+03	.00000E+00	65	-.41338E+03	-.57338E+03	.00000E+00	66	-.41338E+03	-.57338E+03	.00000E+00
67	-.41302E+03	-.57802E+03	.00000E+00	68	-.41302E+03	-.57802E+03	.00000E+00	69	-.41264E+03	-.58264E+03	.00000E+00
70	-.41264E+03	-.58264E+03	.00000E+00	71	-.41225E+03	-.58725E+03	.00000E+00	72	-.41225E+03	-.58725E+03	.00000E+00
73	-.41184E+03	-.59184E+03	.00000E+00	74	-.41184E+03	-.59184E+03	.00000E+00	75	-.41008E+03	-.61008E+03	.00000E+00
76	-.41008E+03	-.61008E+03	.00000E+00	77	-.40807E+03	-.62807E+03	.00000E+00	78	-.40807E+03	-.62807E+03	.00000E+00
79	-.40579E+03	-.64579E+03	.00000E+00	80	-.40579E+03	-.64579E+03	.00000E+00	81	-.40320E+03	-.66320E+03	.00000E+00
82	-.40320E+03	-.66320E+03	.00000E+00	83	-.40030E+03	-.68030E+03	.00000E+00	84	-.40030E+03	-.68030E+03	.00000E+00
85	-.39704E+03	-.69704E+03	.00000E+00	86	-.39704E+03	-.69704E+03	.00000E+00	87	-.39340E+03	-.71340E+03	.00000E+00
88	-.39340E+03	-.71340E+03	.00000E+00	89	-.38936E+03	-.72936E+03	.00000E+00	90	-.38936E+03	-.72936E+03	.00000E+00
91	-.38489E+03	-.74489E+03	.00000E+00	92	-.38490E+03	-.74490E+03	.00000E+00	93	-.37998E+03	-.75998E+03	.00000E+00
94	-.37998E+03	-.75998E+03	.00000E+00	95	-.37459E+03	-.77459E+03	.00000E+00	96	-.37459E+03	-.77459E+03	.00000E+00
97	-.36871E+03	-.78871E+03	.00000E+00	98	-.36871E+03	-.78871E+03	.00000E+00	99	-.36232E+03	-.80232E+03	.00000E+00
100	-.36232E+03	-.80232E+03	.00000E+00	101	-.35540E+03	-.81540E+03	.00000E+00	102	-.35540E+03	-.81540E+03	.00000E+00
103	-.34795E+03	-.82795E+03	.00000E+00	104	-.34795E+03	-.82795E+03	.00000E+00	105	-.33995E+03	-.83995E+03	.00000E+00
106	-.33995E+03	-.83995E+03	.00000E+00	107	-.33140E+03	-.85140E+03	.00000E+00	108	-.33140E+03	-.85140E+03	.00000E+00
109	-.32230E+03	-.86230E+03	.00000E+00	110	-.32230E+03	-.86230E+03	.00000E+00	111	-.31264E+03	-.87264E+03	.00000E+00
112	-.31264E+03	-.87264E+03	.00000E+00	113	-.30244E+03	-.88244E+03	.00000E+00	114	-.30244E+03	-.88244E+03	.00000E+00
115	-.29169E+03	-.89169E+03	.00000E+00	116	-.29169E+03	-.89169E+03	.00000E+00	117	-.28041E+03	-.90041E+03	.00000E+00
118	-.28041E+03	-.90041E+03	.00000E+00	119	-.26860E+03	-.90860E+03	.00000E+00	120	-.26860E+03	-.90860E+03	.00000E+00
121	-.25628E+03	-.91628E+03	.00000E+00	122	-.25628E+03	-.91628E+03	.00000E+00	123	-.24348E+03	-.92348E+03	.00000E+00
124	-.24348E+03	-.92348E+03	.00000E+00	125	-.23020E+03	-.93020E+03	.00000E+00	126	-.23020E+03	-.93020E+03	.0000[illegible]
27	-.21646E+03	-.93646E+03	.00000E+00	128	-.21646E+03	-.93646E+03	.00000E+00	129	-.20229E+03	-.94229E+03	.000[illegible]
130	-.20229E+03	-.94229E+03	.00000E+00	131	-.18770E+03	-.94770E+03	.00000E+00	132	-.18770E+03	-.94770E+03	.00000E+00
133	-.17272E+03	-.95272E+03	.00000E+00	134	-.17272E+03	-.95272E+03	.00000E+00	135	-.15736E+03	-.95736E+03	.00000E+00
136	-.15736E+03	-.95736E+03	.00000E+00	137	-.14165E+03	-.96165E+03	.00000E+00	138	-.14165E+03	-.96165E+03	.00000E+00
139	-.12561E+03	-.96561E+03	.00000E+00	140	-.12561E+03	-.96561E+03	.00000E+00	141	-.10926E+03	-.96926E+03	.00000E+00
142	-.10926E+03	-.96926E+03	.00000E+00	143	-.92616E+02	-.97262E+03	.00000E+00	144	-.92616E+02	-.97262E+03	.00000E+00
145	-.75704E+02	-.97570E+03	.00000E+00	146	-.75704E+02	-.97570E+03	.00000E+00	147	-.58536E+02	-.97854E+03	.00000E+00
148	-.58544E+02	-.97854E+03	.00000E+00	149	-.34008E+02	-.97401E+03	.00000E+00	150	-.34008E+02	-.97401E+03	.00000E+00
151	-.10028E+02	-.97003E+03	.00000E+00	152	-.10027E+02	-.97003E+03	.00000E+00	153	.13477E+02	-.96652E+03	.00000E+00
154	.13478E+02	-.96652E+03	.00000E+00	155	.36568E+02	-.96343E+03	.00000E+00	156	.36568E+02	-.96343E+03	.00000E+00
157	.59299E+02	-.96070E+03	.00000E+00	158	.59300E+02	-.96070E+03	.00000E+00	159	.81716E+02	-.95828E+03	.00000E+00
160	.81717E+02	-.95828E+03	.00000E+00	161	.10386E+03	-.95614E+03	.00000E+00	162	.10386E+03	-.95614E+03	.00000E+00
163	.12576E+03	-.95424E+03	.00000E+00	164	.12576E+03	-.95424E+03	.00000E+00	165	.14745E+03	-.95255E+03	.00000E+00
166	.14745E+03	-.95255E+03	.00000E+00	167	.16894E+03	-.95106E+03	.00000E+00	168	.16895E+03	-.95105E+03	.00000E+00
169	.19028E+03	-.94972E+03	.00000E+00	170	.19028E+03	-.94972E+03	.00000E+00	171	.21147E+03	-.94853E+03	.00000E+00
172	.21147E+03	-.94853E+03	.00000E+00	173	.23252E+03	-.94748E+03	.00000E+00	174	.23252E+03	-.94748E+03	.00000E+00
175	.25346E+03	-.94654E+03	.00000E+00	176	.25346E+03	-.94654E+03	.00000E+00	177	.27430E+03	-.94570E+03	.00000E+00
178	.27430E+03	-.94570E+03	.00000E+00	179	.29505E+03	-.94495E+03	.00000E+00	180	.29505E+03	-.94495E+03	.00000E+00
181	.31572E+03	-.94428E+03	.00000E+00	182	.31572E+03	-.94428E+03	.00000E+00	183	.33631E+03	-.94369E+03	.00000E+00
184	.33631E+03	-.94369E+03	.00000E+00	185	.35684E+03	-.94316E+03	.00000E+00	186	.35684E+03	-.94316E+03	.00000E+00
187	.37732E+03	-.94268E+03	.00000E+00	188	.37732E+03	-.94268E+03	.00000E+00	189	.39774E+03	-.94226E+03	.00000E+00
190	.39774E+03	-.94226E+03	.00000E+00	191	.41812E+03	-.94188E+03	.00000E+00	192	.41812E+03	-.94188E+03	.00000E+00
193	.43846E+03	-.94154E+03	.00000E+00	194	.43846E+03	-.94154E+03	.00000E+00	195	.45876E+03	-.94124E+03	.00000E+00
196	.45876E+03	-.94124E+03	.00000E+00	197	.47903E+03	-.94097E+03	.00000E+00	198	.47903E+03	-.94097E+03	.00000E+00
199	.49927E+03	-.94073E+03	.00000E+00	200	.49927E+03	-.94073E+03	.00000E+00	201	.51949E+03	-.94051E+03	.00[illegible]
202	.51949E+03	-.94051E+03	.00000E+00	203	.53969E+03	-.94031E+03	.00000E+00	204	.53969E+03	-.94031E+03	.00[illegible]
205	.55986E+03	-.94014E+03	.00000E+00	206	.55986E+03	-.94014E+03	.00000E+00	207	.58002E+03	-.93998E+03	.00000E+00
208	.58002E+03	-.93998E+03	.00000E+00	209	.60016E+03	-.93984E+03	.00000E+00	210	.60016E+03	-.93984E+03	.00000E+00
211	.62029E+03	-.93971E+03	.00000E+00	212	.62029E+03	-.93971E+03	.00000E+00	213	.64040E+03	-.93960E+03	.00000E+00
214	.64040E+03	-.93960E+03	.00000E+00	215	.66050E+03	-.93950E+03	.00000E+00	216	.66050E+03	-.93950E+03	.00000E+00
217	.68059E+03	-.93941E+03	.00000E+00	218	.68059E+03	-.93941E+03	.00000E+00	219	.70067E+03	-.93933E+03	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

	.12884E+00	2	.12884E+00	3	.12884E+00	4	.12884E+00	5	.12884E+00	6	.12884E+00
	.12884E+00	8	.12884E+00	9	.12884E+00	10	.12884E+00	11	.12884E+00	12	.12884E+00
13	.12884E+00	14	.12884E+00	15	.12884E+00	16	.12884E+00	17	.12884E+00	18	.12884E+00
19	.12884E+00	20	.12884E+00	21	.12884E+00	22	.12884E+00	23	.12884E+00	24	.12884E+00
25	.12884E+00	26	.12884E+00	27	.12884E+00	28	.12884E+00	29	.12884E+00	30	.12884E+00
31	.12884E+00	32	.12884E+00	33	.12884E+00	34	.12884E+00	35	.12884E+00	36	.12884E+00
37	.12884E+00	38	.12884E+00	39	.12884E+00	40	.12884E+00	41	.12884E+00	42	.12884E+00
43	.12884E+00	44	.12884E+00	45	.12884E+00	46	.12884E+00	47	.12884E+00	48	.12884E+00
49	.12884E+00	50	.12884E+00	51	.12884E+00	52	.12884E+00	53	.12884E+00	54	.12884E+00
55	.12884E+00	56	.12884E+00	57	.12884E+00	58	.12884E+00	59	.12884E+00	60	.12884E+00
61	.12884E+00	62	.12884E+00	63	.12884E+00	64	.12884E+00	65	.12884E+00	66	.12884E+00
67	.12884E+00	68	.12884E+00	69	.12884E+00	70	.12884E+00	71	.12884E+00	72	.12884E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.12884E+00	72	.12884E+00	73	.12884E+00	74	.12884E+00	75	.12884E+00	76	.12884E+00
77	.12884E+00	78	.12884E+00	79	.12884E+00	80	.12884E+00	81	.12884E+00	82	.12884E+00
83	.12884E+00	84	.12884E+00	85	.12884E+00	86	.12884E+00	87	.12884E+00	88	.12884E+00
89	.12884E+00	90	.12884E+00	91	.12884E+00	92	.12884E+00	93	.12884E+00	94	.12884E+00
95	.12884E+00	96	.12884E+00	97	.12884E+00	98	.12884E+00	99	.12884E+00	100	.12884E+00
101	.12884E+00	102	.12884E+00	103	.12884E+00	104	.12884E+00	105	.12884E+00	106	.12884E+00
107	.12884E+00	108	.12884E+00	109	.12884E+00	110	.12884E+00	111	.12884E+00	112	.12884E+00
113	.12884E+00	114	.12884E+00	115	.12884E+00	116	.12884E+00	117	.12884E+00	118	.12884E+00
119	.12883E+00	120	.12883E+00	121	.12883E+00	122	.12883E+00	123	.12882E+00	124	.12882E+00
[illegible]	.12881E+00	126	.12881E+00	127	.12878E+00	128	.12878E+00	129	.12874E+00	130	.12874E+00
131	.12866E+00	132	.12866E+00	133	.12851E+00	134	.12851E+00	135	.12825E+00	136	.12825E+00
137	.12778E+00	138	.12778E+00	139	.12693E+00	140	.12693E+00	141	.12538E+00	142	.12538E+00
143	.12257E+00	144	.12257E+00	145	.11740E+00	146	.11738E+00	147	.10777E+00	148	.10747E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.95509E-01	148	.95239E-01	149	.70671E-01	150	.70869E-01	151	.51193E-01	152	.51292E-01
153	.49870E-01	154	.49873E-01	155	.49780E-01	156	.49780E-01	157	.49774E-01	158	.49774E-01
159	.49774E-01	160	.49774E-01	161	.49773E-01	162	.49773E-01	163	.49773E-01	164	.49773E-01
165	.49773E-01	166	.49773E-01	167	.49773E-01	168	.49773E-01	169	.49773E-01	170	.49773E-01
171	.49773E-01	172	.49773E-01	173	.49773E-01	174	.49773E-01	175	.49773E-01	176	.49773E-01
177	.49773E-01	178	.49773E-01	179	.49773E-01	180	.49773E-01	181	.49773E-01	182	.49773E-01
183	.49773E-01	184	.49773E-01	185	.49773E-01	186	.49773E-01	187	.49773E-01	188	.49773E-01
189	.49773E-01	190	.49773E-01	191	.49773E-01	192	.49773E-01	193	.49773E-01	194	.49773E-01
195	.49773E-01	196	.49773E-01	197	.49773E-01	198	.49773E-01	199	.49773E-01	200	.49773E-01
201	.49773E-01	202	.49773E-01	203	.49773E-01	204	.49773E-01	205	.49773E-01	206	.49773E-01
207	.49773E-01	208	.49773E-01	209	.49773E-01	210	.49773E-01	211	.49773E-01	212	.49773E-01
213	.49773E-01	214	.49773E-01	215	.49774E-01	216	.49774E-01	217	.49774E-01	218	.49774E-01
219	.49775E-01	220	.49775E-01	221	.49798E-01	222	.49797E-01	223	.50162E-01	224	.50092E-01

GREEN RIVER: 1) GRN5420@93% 2) GRN5350@95% 3) GRN5350@95%; 1.0E-08cm/s cover flux

TIME = 67857.5900 TIME STEP = 150

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .22095E-01 AT NODE 145

CUMULATIVE INFLOW INTO SYSTEM IS = .43972E+03
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.61909E+03
CUMULATIVE CHANGE IN SYSTEM IS = -.17937E+03

0 NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.65000E+03	-.65000E+03	-.31975E-02	2	-.65000E+03	-.65000E+03	-.32385E-02	3	-.64987E+03	-.65487E+03	.00000E+00
4	-.64987E+03	-.65487E+03	.00000E+00	5	-.64974E+03	-.65974E+03	.00000E+00	6	-.64974E+03	-.65974E+03	.00000E+00
7	-.64961E+03	-.66461E+03	.00000E+00	8	-.64961E+03	-.66461E+03	.00000E+00	9	-.64947E+03	-.66947E+03	.00000E+00
10	-.64947E+03	-.66947E+03	.00000E+00	11	-.64932E+03	-.67432E+03	.00000E+00	12	-.64932E+03	-.67432E+03	.00000E+00
13	-.64917E+03	-.67917E+03	.00000E+00	14	-.64917E+03	-.67917E+03	.00000E+00	15	-.64902E+03	-.68402E+03	.00000E+00
16	-.64902E+03	-.68402E+03	.00000E+00	17	-.64886E+03	-.68886E+03	.00000E+00	18	-.64886E+03	-.68886E+03	.00000E+00
19	-.64869E+03	-.69369E+03	.00000E+00	20	-.64869E+03	-.69369E+03	.00000E+00	21	-.64852E+03	-.69852E+03	.00000E+00
22	-.64852E+03	-.69852E+03	.00000E+00	23	-.64835E+03	-.70335E+03	.00000E+00	24	-.64835E+03	-.70335E+03	.00000E+00
25	-.64816E+03	-.70816E+03	.00000E+00	26	-.64816E+03	-.70816E+03	.00000E+00	27	-.64798E+03	-.71298E+03	.00000E+00
28	-.64798E+03	-.71298E+03	.00000E+00	29	-.64778E+03	-.71778E+03	.00000E+00	30	-.64778E+03	-.71778E+03	.00000E+00
31	-.64758E+03	-.72258E+03	.00000E+00	32	-.64758E+03	-.72258E+03	.00000E+00	33	-.64738E+03	-.72738E+03	.00000E+00
34	-.64738E+03	-.72738E+03	.00000E+00	35	-.64716E+03	-.73216E+03	.00000E+00	36	-.64716E+03	-.73216E+03	.00000E+00
37	-.64694E+03	-.73694E+03	.00000E+00	38	-.64694E+03	-.73694E+03	.00000E+00	39	-.64672E+03	-.74172E+03	[illegible]E+00
40	-.64672E+03	-.74172E+03	.00000E+00	41	-.64649E+03	-.74649E+03	.00000E+00	42	-.64649E+03	-.74649E+03	[illegible]E+00
43	-.64625E+03	-.75125E+03	.00000E+00	44	-.64625E+03	-.75125E+03	.00000E+00	45	-.64600E+03	-.75600E+03	.00000E+00
46	-.64600E+03	-.75600E+03	.00000E+00	47	-.64574E+03	-.76074E+03	.00000E+00	48	-.64574E+03	-.76074E+03	.00000E+00
49	-.64548E+03	-.76548E+03	.00000E+00	50	-.64548E+03	-.76548E+03	.00000E+00	51	-.64521E+03	-.77021E+03	.00000E+00
52	-.64521E+03	-.77021E+03	.00000E+00	53	-.64493E+03	-.77493E+03	.00000E+00	54	-.64493E+03	-.77493E+03	.00000E+00
55	-.64465E+03	-.77965E+03	.00000E+00	56	-.64465E+03	-.77965E+03	.00000E+00	57	-.64435E+03	-.78435E+03	.00000E+00
58	-.64435E+03	-.78435E+03	.00000E+00	59	-.64405E+03	-.78905E+03	.00000E+00	60	-.64405E+03	-.78905E+03	.00000E+00
61	-.64374E+03	-.79374E+03	.00000E+00	62	-.64374E+03	-.79374E+03	.00000E+00	63	-.64342E+03	-.79842E+03	.00000E+00
64	-.64342E+03	-.79842E+03	.00000E+00	65	-.64309E+03	-.80309E+03	.00000E+00	66	-.64309E+03	-.80309E+03	.00000E+00
67	-.64275E+03	-.80775E+03	.00000E+00	68	-.64275E+03	-.80775E+03	.00000E+00	69	-.64240E+03	-.81240E+03	.00000E+00
70	-.64240E+03	-.81240E+03	.00000E+00	71	-.64204E+03	-.81704E+03	.00000E+00	72	-.64204E+03	-.81704E+03	.00000E+00
73	-.64167E+03	-.82167E+03	.00000E+00	74	-.64167E+03	-.82167E+03	.00000E+00	75	-.64010E+03	-.84010E+03	.00000E+00
76	-.64010E+03	-.84010E+03	.00000E+00	77	-.63836E+03	-.85836E+03	.00000E+00	78	-.63836E+03	-.85836E+03	.00000E+00
79	-.63643E+03	-.87643E+03	.00000E+00	80	-.63643E+03	-.87643E+03	.00000E+00	81	-.63430E+03	-.89430E+03	.00000E+00
82	-.63430E+03	-.89430E+03	.00000E+00	83	-.63195E+03	-.91195E+03	.00000E+00	84	-.63195E+03	-.91195E+03	.00000E+00
85	-.62938E+03	-.92938E+03	.00000E+00	86	-.62938E+03	-.92936E+03	.00000E+00	87	-.62657E+03	-.94657E+03	.00000E+00
88	-.62657E+03	-.94657E+03	.00000E+00	89	-.62350E+03	-.96350E+03	.00000E+00	90	-.62350E+03	-.96350E+03	.00000E+00
91	-.62017E+03	-.98017E+03	.00000E+00	92	-.62017E+03	-.98017E+03	.00000E+00	93	-.61654E+03	-.99654E+03	.00000E+00
94	-.61654E+03	-.99654E+03	.00000E+00	95	-.61262E+03	-.10126E+04	.00000E+00	96	-.61262E+03	-.10126E+04	.00000E+00
97	-.60838E+03	-.10284E+04	.00000E+00	98	-.60838E+03	-.10284E+04	.00000E+00	99	-.60382E+03	-.10438E+04	.00000E+00
100	-.60382E+03	-.10438E+04	.00000E+00	101	-.59892E+03	-.10589E+04	.00000E+00	102	-.59892E+03	-.10589E+04	.00000E+00
103	-.59366E+03	-.10737E+04	.00000E+00	104	-.59366E+03	-.10737E+04	.00000E+00	105	-.58804E+03	-.10880E+04	.00000E+00
106	-.58804E+03	-.10880E+04	.00000E+00	107	-.58205E+03	-.11021E+04	.00000E+00	108	-.58205E+03	-.11021E+04	.00000E+00
109	-.57568E+03	-.11157E+04	.00000E+00	110	-.57568E+03	-.11157E+04	.00000E+00	111	-.56892E+03	-.11289E+04	[illegible]E+00
112	-.56892E+03	-.11289E+04	.00000E+00	113	-.56176E+03	-.11418E+04	.00000E+00	114	-.56176E+03	-.11418E+04	[illegible]E+00
115	-.55420E+03	-.11542E+04	.00000E+00	116	-.55420E+03	-.11542E+04	.00000E+00	117	-.54623E+03	-.11662E+04	.00000E+00
118	-.54623E+03	-.11662E+04	.00000E+00	119	-.53785E+03	-.11778E+04	.00000E+00	120	-.53785E+03	-.11778E+04	.00000E+00
121	-.52906E+03	-.11891E+04	.00000E+00	122	-.52906E+03	-.11891E+04	.00000E+00	123	-.51985E+03	-.11999E+04	.00000E+00
124	-.51985E+03	-.11999E+04	.00000E+00	125	-.51023E+03	-.12102E+04	.00000E+00	126	-.51023E+03	-.12102E+04	.00000E+00
127	-.50020E+03	-.12202E+04	.00000E+00	128	-.50020E+03	-.12202E+04	.00000E+00	129	-.48977E+03	-.12298E+04	.00000E+00

130	-.48977E+03	-.12298E+04	.00000E+00	131	-.47893E+03	-.12389E+04	.00000E+00	132	-.47893E+03	-.12389E+04	.00000E+00
133	-.46770E+03	-.12477E+04	.00000E+00	134	-.46770E+03	-.12477E+04	.00000E+00	135	-.45608E+03	-.12561E+04	.00000E+00
136	-.45608E+03	-.12561E+04	.00000E+00	137	-.44407E+03	-.12641E+04	.00000E+00	138	-.44407E+03	-.12641E+04	.00000E+00
139	-.43169E+03	-.12717E+04	.00000E+00	140	-.43169E+03	-.12717E+04	.00000E+00	141	-.41894E+03	-.12789E+04	.00000E+00
142	-.41894E+03	-.12789E+04	.00000E+00	143	-.40584E+03	-.12858E+04	.00000E+00	144	-.40584E+03	-.12858E+04	.00000E+00
[illegible]	-.39239E+03	-.12924E+04	.00000E+00	146	-.39239E+03	-.12924E+04	.00000E+00	147	-.37860E+03	-.12986E+04	.00000E+00
[illegible]	.37861E+03	-.12986E+04	.00000E+00	149	-.35681E+03	-.12968E+04	.00000E+00	150	-.35681E+03	-.12968E+04	.00000E+00
151	-.33518E+03	-.12952E+04	.00000E+00	152	-.33518E+03	-.12952E+04	.00000E+00	153	-.31368E+03	-.12937E+04	.00000E+00
154	-.31368E+03	-.12937E+04	.00000E+00	155	-.29231E+03	-.12923E+04	.00000E+00	156	-.29231E+03	-.12923E+04	.00000E+00
157	-.27105E+03	-.12910E+04	.00000E+00	158	-.27105E+03	-.12910E+04	.00000E+00	159	-.24989E+03	-.12899E+04	.00000E+00
160	-.24989E+03	-.12899E+04	.00000E+00	161	-.22883E+03	-.12888E+04	.00000E+00	162	-.22883E+03	-.12888E+04	.00000E+00
163	-.20786E+03	-.12879E+04	.00000E+00	164	-.20786E+03	-.12879E+04	.00000E+00	165	-.18696E+03	-.12870E+04	.00000E+00
166	-.18696E+03	-.12870E+04	.00000E+00	167	-.16614E+03	-.12861E+04	.00000E+00	168	-.16614E+03	-.12861E+04	.00000E+00
169	-.14538E+03	-.12854E+04	.00000E+00	170	-.14538E+03	-.12854E+04	.00000E+00	171	-.12469E+03	-.12847E+04	.00000E+00
172	-.12469E+03	-.12847E+04	.00000E+00	173	-.10405E+03	-.12841E+04	.00000E+00	174	-.10405E+03	-.12841E+04	.00000E+00
175	-.83465E+02	-.12835E+04	.00000E+00	176	-.83465E+02	-.12835E+04	.00000E+00	177	-.62926E+02	-.12829E+04	.00000E+00
178	-.62926E+02	-.12829E+04	.00000E+00	179	-.42431E+02	-.12824E+04	.00000E+00	180	-.42431E+02	-.12824E+04	.00000E+00
181	-.21975E+02	-.12820E+04	.00000E+00	182	-.21975E+02	-.12820E+04	.00000E+00	183	-.15594E+01	-.12816E+04	.00000E+00
184	-.15596E+01	-.12816E+04	.00000E+00	185	.18821E+02	-.12812E+04	.00000E+00	186	.18821E+02	-.12812E+04	.00000E+00
187	.39170E+02	-.12808E+04	.00000E+00	188	.39170E+02	-.12808E+04	.00000E+00	189	.59495E+02	-.12805E+04	.00000E+00
190	.59495E+02	-.12805E+04	.00000E+00	191	.79794E+02	-.12802E+04	.00000E+00	192	.79794E+02	-.12802E+04	.00000E+00
193	.10007E+03	-.12799E+04	.00000E+00	194	.10007E+03	-.12799E+04	.00000E+00	195	.12032E+03	-.12797E+04	.00000E+00
196	.12032E+03	-.12797E+04	.00000E+00	197	.14055E+03	-.12794E+04	.00000E+00	198	.14055E+03	-.12794E+04	.00000E+00
199	.16077E+03	-.12792E+04	.00000E+00	200	.16077E+03	-.12792E+04	.00000E+00	201	.18097E+03	-.12790E+04	.00000E+00
202	.18097E+03	-.12790E+04	.00000E+00	203	.20115E+03	-.12788E+04	.00000E+00	204	.20115E+03	-.12788E+04	.00000E+00
205	.22132E+03	-.12787E+04	.00000E+00	206	.22132E+03	-.12787E+04	.00000E+00	207	.24147E+03	-.12785E+04	.00000E+00
208	.24147E+03	-.12785E+04	.00000E+00	209	.26161E+03	-.12784E+04	.00000E+00	210	.26161E+03	-.12784E+04	.00000E+00
211	.28174E+03	-.12783E+04	.00000E+00	212	.28174E+03	-.12783E+04	.00000E+00	213	.30186E+03	-.12781E+04	.00000E+00
214	.30186E+03	-.12781E+04	.00000E+00	215	.32197E+03	-.12780E+04	.00000E+00	216	.32197E+03	-.12780E+04	.00000E+00
217	.34207E+03	-.12779E+04	.00000E+00	218	.34207E+03	-.12779E+04	.00000E+00	219	.36217E+03	-.12776E+04	.00000E+00
220	.36217E+03	-.12778E+04	.00000E+00	221	.38225E+03	-.12777E+04	.00000E+00	222	.38225E+03	-.12777E+04	.00000E+00
[illegible]	.40233E+03	-.12777E+04	.32400E-02	224	.40233E+03	-.12777E+04	.32400E-02	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.12884E+00	2	.12884E+00	3	.12801E+00	4	.12801E+00	5	.12719E+00	6	.12719E+00
7	.12639E+00	8	.12639E+00	9	.12559E+00	10	.12559E+00	11	.12481E+00	12	.12481E+00
13	.12404E+00	14	.12404E+00	15	.12328E+00	16	.12328E+00	17	.12253E+00	18	.12253E+00
19	.12179E+00	20	.12179E+00	21	.12105E+00	22	.12105E+00	23	.12033E+00	24	.12033E+00
25	.11962E+00	26	.11962E+00	27	.11892E+00	28	.11892E+00	29	.11823E+00	30	.11823E+00
31	.11755E+00	32	.11755E+00	33	.11687E+00	34	.11687E+00	35	.11621E+00	36	.11621E+00
37	.11555E+00	38	.11555E+00	39	.11490E+00	40	.11490E+00	41	.11427E+00	42	.11427E+00
43	.11364E+00	44	.11364E+00	45	.11302E+00	46	.11302E+00	47	.11240E+00	48	.11240E+00
49	.11180E+00	50	.11180E+00	51	.11120E+00	52	.11120E+00	53	.11061E+00	54	.11061E+00
55	.11003E+00	56	.11003E+00	57	.10946E+00	58	.10946E+00	59	.10889E+00	60	.10889E+00
61	.10833E+00	62	.10833E+00	63	.10778E+00	64	.10778E+00	65	.10723E+00	66	.10723E+00
67	.10670E+00	68	.10670E+00	69	.10617E+00	70	.10617E+00	71	.10564E+00	72	.10564E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.10564E+00	72	.10564E+00	73	.10513E+00	74	.10513E+00	75	.10313E+00	76	.10313E+00
[illegible]	.10123E+00	78	.10123E+00	79	.99424E-01	80	.99424E-01	81	.97712E-01	82	.97712E-01
[illegible]	.96085E-01	84	.96085E-01	85	.94540E-01	86	.94540E-01	87	.93072E-01	88	.93072E-01
89	.91677E-01	90	.91677E-01	91	.90352E-01	92	.90352E-01	93	.89094E-01	94	.89094E-01
95	.87899E-01	96	.87899E-01	97	.86765E-01	98	.86765E-01	99	.85688E-01	100	.85688E-01
101	.84666E-01	102	.84666E-01	103	.83696E-01	104	.83696E-01	105	.82777E-01	106	.82777E-01
107	.81905E-01	108	.81905E-01	109	.81079E-01	110	.81079E-01	111	.80297E-01	112	.80297E-01

113	.79556E-01	114	.79556E-01	115	.78854E-01	116	.78854E-01	117	.78191E-01	118	.78191E-01
119	.77563E-01	120	.77563E-01	121	.76970E-01	122	.76970E-01	123	.76410E-01	124	.76410E-01
125	.75882E-01	126	.75882E-01	127	.75383E-01	128	.75383E-01	129	.74912E-01	130	.74912E-01
131	.74469E-01	132	.74469E-01	133	.74051E-01	134	.74051E-01	135	.73657E-01	136	.73657E-01
137	.73287E-01	138	.73287E-01	139	.72939E-01	140	.72939E-01	141	.72611E-01	142	.72611E-01
143	.72303E-01	144	.72303E-01	145	.72014E-01	146	.72014E-01	147	.71743E-01	148	.71743E-01
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.64896E-01	148	.64896E-01	149	.64959E-01	150	.64959E-01	151	.65017E-01	152	.65017E-01
153	.65070E-01	154	.65070E-01	155	.65119E-01	156	.65119E-01	157	.65164E-01	158	.65164E-01
159	.65205E-01	160	.65205E-01	161	.65243E-01	162	.65243E-01	163	.65277E-01	164	.65277E-01
165	.65310E-01	166	.65310E-01	167	.65339E-01	168	.65339E-01	169	.65366E-01	170	.65366E-01
171	.65391E-01	172	.65391E-01	173	.65414E-01	174	.65414E-01	175	.65436E-01	176	.65436E-01
177	.65455E-01	178	.65455E-01	179	.65473E-01	180	.65473E-01	181	.65490E-01	182	.65490E-01
183	.65505E-01	184	.65505E-01	185	.65518E-01	186	.65518E-01	187	.65531E-01	188	.65531E-01
189	.65543E-01	190	.65543E-01	191	.65554E-01	192	.65554E-01	193	.65564E-01	194	.65564E-01
195	.65573E-01	196	.65573E-01	197	.65581E-01	198	.65581E-01	199	.65589E-01	200	.65589E-01
201	.65596E-01	202	.65596E-01	203	.65603E-01	204	.65603E-01	205	.65609E-01	206	.65609E-01
207	.65615E-01	208	.65615E-01	209	.65620E-01	210	.65620E-01	211	.65625E-01	212	.65625E-01
213	.65629E-01	214	.65629E-01	215	.65633E-01	216	.65633E-01	217	.65637E-01	218	.65637E-01
219	.65640E-01	220	.65640E-01	221	.65643E-01	222	.65643E-01	223	.65646E-01	224	.65646E-01

GREEN RIVER: 1) GRN542@93% 2) GRN535@95% 3) GRN535@95%; 1.0E-06cm/s cover flux

TIME = 142857.6000 TIME STEP = 300

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .38818E-01 AT NODE 173

CUMULATIVE INFLOW INTO SYSTEM IS = .92572E+03
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.11015E+04
CUMULATIVE CHANGE IN SYSTEM IS = -.17577E+03

O NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.65000E+03	-.65000E+03	-.31994E-02	2	-.65000E+03	-.65000E+03	-.32366E-02	3	-.64987E+03	-.65487E+03	.00000E+0
4	-.64987E+03	-.65487E+03	.00000E+00	5	-.64974E+03	-.65974E+03	.00000E+00	6	-.64974E+03	-.65974E+03	.00000E+0
7	-.64961E+03	-.66461E+03	.00000E+00	8	-.64961E+03	-.66461E+03	.00000E+00	9	-.64947E+03	-.66947E+03	.00000E+0
10	-.64947E+03	-.66947E+03	.00000E+00	11	-.64932E+03	-.67432E+03	.00000E+00	12	-.64932E+03	-.67432E+03	.00000E+0
13	-.64917E+03	-.67917E+03	.00000E+00	14	-.64917E+03	-.67917E+03	.00000E+00	15	-.64902E+03	-.68402E+03	[illegible]0E+0
16	-.64902E+03	-.68402E+03	.00000E+00	17	-.64886E+03	-.68886E+03	.00000E+00	18	-.64886E+03	-.68886E+03	[illegible]E+0
19	-.64869E+03	-.69369E+03	.00000E+00	20	-.64869E+03	-.69369E+03	.00000E+00	21	-.64852E+03	-.69852E+03	[illegible]0E+0
22	-.64852E+03	-.69852E+03	.00000E+00	23	-.64835E+03	-.70335E+03	.00000E+00	24	-.64835E+03	-.70335E+03	.00000E+0
25	-.64816E+03	-.70816E+03	.00000E+00	26	-.64816E+03	-.70816E+03	.00000E+00	27	-.64798E+03	-.71298E+03	.00000E+0
28	-.64798E+03	-.71298E+03	.00000E+00	29	-.64778E+03	-.71778E+03	.00000E+00	30	-.64778E+03	-.71778E+03	.00000E+0
31	-.64758E+03	-.72258E+03	.00000E+00	32	-.64758E+03	-.72258E+03	.00000E+00	33	-.64738E+03	-.72738E+03	.00000E+0

34	-.64738E+03	-.72738E+03	.00000E+00	35	-.64716E+03	-.73216E+03	.00000E+00	36	-.64716E+03	-.73216E+03	.00000E+00
37	-.64694E+03	-.73694E+03	.00000E+00	38	-.64694E+03	-.73694E+03	.00000E+00	39	-.64672E+03	-.74172E+03	.00000E+00
40	-.64672E+03	-.74172E+03	.00000E+00	41	-.64649E+03	-.74649E+03	.00000E+00	42	-.64649E+03	-.74649E+03	.00000E+00
43	-.64624E+03	-.75124E+03	.00000E+00	44	-.64624E+03	-.75124E+03	.00000E+00	45	-.64600E+03	-.75600E+03	.00000E+00
46	-.64600E+03	-.75600E+03	.00000E+00	47	-.64574E+03	-.76074E+03	.00000E+00	48	-.64574E+03	-.76074E+03	.00000E+00
	-.64548E+03	-.76548E+03	.00000E+00	50	-.64548E+03	-.76548E+03	.00000E+00	51	-.64521E+03	-.77021E+03	.00000E+00
	-.64521E+03	-.77021E+03	.00000E+00	53	-.64493E+03	-.77493E+03	.00000E+00	54	-.64493E+03	-.77493E+03	.00000E+00
55	-.64465E+03	-.77965E+03	.00000E+00	56	-.64465E+03	-.77965E+03	.00000E+00	57	-.64435E+03	-.78435E+03	.00000E+00
58	-.64435E+03	-.78435E+03	.00000E+00	59	-.64405E+03	-.78905E+03	.00000E+00	60	-.64405E+03	-.78905E+03	.00000E+00
61	-.64374E+03	-.79374E+03	.00000E+00	62	-.64374E+03	-.79374E+03	.00000E+00	63	-.64341E+03	-.79841E+03	.00000E+00
64	-.64341E+03	-.79841E+03	.00000E+00	65	-.64308E+03	-.80308E+03	.00000E+00	66	-.64308E+03	-.80308E+03	.00000E+00
67	-.64275E+03	-.80775E+03	.00000E+00	68	-.64275E+03	-.80775E+03	.00000E+00	69	-.64240E+03	-.81240E+03	.00000E+00
70	-.64240E+03	-.81240E+03	.00000E+00	71	-.64204E+03	-.81704E+03	.00000E+00	72	-.64204E+03	-.81704E+03	.00000E+00
73	-.64167E+03	-.82167E+03	.00000E+00	74	-.64167E+03	-.82167E+03	.00000E+00	75	-.64010E+03	-.84010E+03	.00000E+00
76	-.64010E+03	-.84010E+03	.00000E+00	77	-.63836E+03	-.85836E+03	.00000E+00	78	-.63836E+03	-.85836E+03	.00000E+00
79	-.63643E+03	-.87643E+03	.00000E+00	80	-.63643E+03	-.87643E+03	.00000E+00	81	-.63430E+03	-.89430E+03	.00000E+00
82	-.63430E+03	-.89430E+03	.00000E+00	83	-.63196E+03	-.91196E+03	.00000E+00	84	-.63196E+03	-.91196E+03	.00000E+00
85	-.62939E+03	-.92939E+03	.00000E+00	86	-.62939E+03	-.92939E+03	.00000E+00	87	-.62657E+03	-.94657E+03	.00000E+00
88	-.62657E+03	-.94657E+03	.00000E+00	89	-.62350E+03	-.96350E+03	.00000E+00	90	-.62350E+03	-.96350E+03	.00000E+00
91	-.62016E+03	-.98016E+03	.00000E+00	92	-.62016E+03	-.98016E+03	.00000E+00	93	-.61654E+03	-.99654E+03	.00000E+00
94	-.61654E+03	-.99654E+03	.00000E+00	95	-.61261E+03	-.10126E+04	.00000E+00	96	-.61261E+03	-.10126E+04	.00000E+00
97	-.60837E+03	-.10284E+04	.00000E+00	98	-.60837E+03	-.10284E+04	.00000E+00	99	-.60380E+03	-.10438E+04	.00000E+00
100	-.60380E+03	-.10438E+04	.00000E+00	101	-.59890E+03	-.10589E+04	.00000E+00	102	-.59890E+03	-.10589E+04	.00000E+00
103	-.59364E+03	-.10736E+04	.00000E+00	104	-.59364E+03	-.10736E+04	.00000E+00	105	-.58802E+03	-.10880E+04	.00000E+00
106	-.58802E+03	-.10880E+04	.00000E+00	107	-.58203E+03	-.11020E+04	.00000E+00	108	-.58203E+03	-.11020E+04	.00000E+00
109	-.57566E+03	-.11157E+04	.00000E+00	110	-.57566E+03	-.11157E+04	.00000E+00	111	-.56890E+03	-.11289E+04	.00000E+00
112	-.56890E+03	-.11289E+04	.00000E+00	113	-.56174E+03	-.11417E+04	.00000E+00	114	-.56174E+03	-.11417E+04	.00000E+00
115	-.55417E+03	-.11542E+04	.00000E+00	116	-.55417E+03	-.11542E+04	.00000E+00	117	-.54620E+03	-.11662E+04	.00000E+00
118	-.54620E+03	-.11662E+04	.00000E+00	119	-.53782E+03	-.11778E+04	.00000E+00	120	-.53782E+03	-.11778E+04	.00000E+00
121	-.52903E+03	-.11890E+04	.00000E+00	122	-.52903E+03	-.11890E+04	.00000E+00	123	-.51983E+03	-.11998E+04	.00000E+00
124	-.51983E+03	-.11998E+04	.00000E+00	125	-.51022E+03	-.12102E+04	.00000E+00	126	-.51022E+03	-.12102E+04	.00000E+00
	-.50019E+03	-.12202E+04	.00000E+00	128	-.50019E+03	-.12202E+04	.00000E+00	129	-.48976E+03	-.12298E+04	.00000E+00
	-.48976E+03	-.12298E+04	.00000E+00	131	-.47893E+03	-.12389E+04	.00000E+00	132	-.47893E+03	-.12389E+04	.00000E+00
133	-.46769E+03	-.12477E+04	.00000E+00	134	-.46769E+03	-.12477E+04	.00000E+00	135	-.45607E+03	-.12561E+04	.00000E+00
136	-.45607E+03	-.12561E+04	.00000E+00	137	-.44406E+03	-.12641E+04	.00000E+00	138	-.44406E+03	-.12641E+04	.00000E+00
139	-.43168E+03	-.12717E+04	.00000E+00	140	-.43168E+03	-.12717E+04	.00000E+00	141	-.41893E+03	-.12789E+04	.00000E+00
142	-.41893E+03	-.12789E+04	.00000E+00	143	-.40583E+03	-.12858E+04	.00000E+00	144	-.40583E+03	-.12858E+04	.00000E+00
145	-.39238E+03	-.12924E+04	.00000E+00	146	-.39238E+03	-.12924E+04	.00000E+00	147	-.37859E+03	-.12986E+04	.00000E+00
148	-.37860E+03	-.12986E+04	.00000E+00	149	-.35681E+03	-.12968E+04	.00000E+00	150	-.35681E+03	-.12968E+04	.00000E+00
151	-.33517E+03	-.12952E+04	.00000E+00	152	-.33517E+03	-.12952E+04	.00000E+00	153	-.31367E+03	-.12937E+04	.00000E+00
154	-.31367E+03	-.12937E+04	.00000E+00	155	-.29229E+03	-.12923E+04	.00000E+00	156	-.29229E+03	-.12923E+04	.00000E+00
157	-.27103E+03	-.12910E+04	.00000E+00	158	-.27103E+03	-.12910E+04	.00000E+00	159	-.24967E+03	-.12899E+04	.00000E+00
160	-.24967E+03	-.12899E+04	.00000E+00	161	-.22881E+03	-.12888E+04	.00000E+00	162	-.22881E+03	-.12888E+04	.00000E+00
163	-.20784E+03	-.12878E+04	.00000E+00	164	-.20784E+03	-.12878E+04	.00000E+00	165	-.16694E+03	-.12869E+04	.00000E+00
166	-.16694E+03	-.12869E+04	.00000E+00	167	-.16612E+03	-.12861E+04	.00000E+00	168	-.16612E+03	-.12861E+04	.00000E+00
169	-.14536E+03	-.12854E+04	.00000E+00	170	-.14536E+03	-.12854E+04	.00000E+00	171	-.12467E+03	-.12847E+04	.00000E+00
172	-.12467E+03	-.12847E+04	.00000E+00	173	-.10404E+03	-.12840E+04	.00000E+00	174	-.10404E+03	-.12840E+04	.00000E+00
175	-.83454E+02	-.12835E+04	.00000E+00	176	-.83454E+02	-.12835E+04	.00000E+00	177	-.62919E+02	-.12829E+04	.00000E+00
178	-.62919E+02	-.12829E+04	.00000E+00	179	-.42428E+02	-.12824E+04	.00000E+00	180	-.42428E+02	-.12824E+04	.00000E+00
181	-.21977E+02	-.12820E+04	.00000E+00	182	-.21977E+02	-.12820E+04	.00000E+00	183	-.15615E+01	-.12816E+04	.00000E+00
184	-.15615E+01	-.12816E+04	.00000E+00	185	.18819E+02	-.12812E+04	.00000E+00	186	.18819E+02	-.12812E+04	.00000E+00
187	.39169E+02	-.12808E+04	.00000E+00	188	.39169E+02	-.12808E+04	.00000E+00	189	.59494E+02	-.12805E+04	.00000E+00
190	.59494E+02	-.12805E+04	.00000E+00	191	.79793E+02	-.12802E+04	.00000E+00	192	.79793E+02	-.12802E+04	.00000E+00
193	.10007E+03	-.12799E+04	.00000E+00	194	.10007E+03	-.12799E+04	.00000E+00	195	.12032E+03	-.12797E+04	.00000E+00
196	.12032E+03	-.12797E+04	.00000E+00	197	.14055E+03	-.12794E+04	.00000E+00	198	.14055E+03	-.12794E+04	.00000E+00
199	.16076E+03	-.12792E+04	.00000E+00	200	.16076E+03	-.12792E+04	.00000E+00	201	.18096E+03	-.12790E+04	.00000E+00
	.18096E+03	-.12790E+04	.00000E+00	203	.20114E+03	-.12789E+04	.00000E+00	204	.20114E+03	-.12789E+04	.00000E+00
	.22130E+03	-.12787E+04	.00000E+00	206	.22130E+03	-.12787E+04	.00000E+00	207	.24146E+03	-.12785E+04	.00000E+00
208	.24146E+03	-.12785E+04	.00000E+00	209	.26160E+03	-.12784E+04	.00000E+00	210	.26160E+03	-.12784E+04	.00000E+00
211	.28173E+03	-.12783E+04	.00000E+00	212	.28173E+03	-.12783E+04	.00000E+00	213	.30185E+03	-.12782E+04	.00000E+00
214	.30185E+03	-.12782E+04	.00000E+00	215	.32196E+03	-.12780E+04	.00000E+00	216	.32196E+03	-.12780E+04	.00000E+00
217	.34206E+03	-.12779E+04	.00000E+00	218	.34206E+03	-.12779E+04	.00000E+00	219	.36215E+03	-.12778E+04	.00000E+00

220	.36215E+03	-.12778E+04	.00000E+00	221	.36224E+03	-.12778E+04	.00000E+00	222	.38224E+03	-.12778E+04	.00000E+00
223	.40232E+03	-.12777E+04	.32400E-02	224	.40232E+03	-.12777E+04	.32400E-02	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.12884E+00	2	.12884E+00	3	.12801E+00	4	.12801E+00	5	.12719E+00	6	.12719E+00
7	.12639E+00	8	.12639E+00	9	.12559E+00	10	.12559E+00	11	.12481E+00	12	.12481E+00
13	.12404E+00	14	.12404E+00	15	.12328E+00	16	.12328E+00	17	.12253E+00	18	.12253E+00
19	.12179E+00	20	.12179E+00	21	.12105E+00	22	.12105E+00	23	.12033E+00	24	.12033E+00
25	.11962E+00	26	.11962E+00	27	.11892E+00	28	.11892E+00	29	.11823E+00	30	.11823E+00
31	.11755E+00	32	.11755E+00	33	.11687E+00	34	.11687E+00	35	.11621E+00	36	.11621E+00
37	.11555E+00	38	.11555E+00	39	.11490E+00	40	.11490E+00	41	.11427E+00	42	.11427E+00
43	.11364E+00	44	.11364E+00	45	.11302E+00	46	.11302E+00	47	.11240E+00	48	.11240E+00
49	.11180E+00	50	.11180E+00	51	.11120E+00	52	.11120E+00	53	.11061E+00	54	.11061E+00
55	.11003E+00	56	.11003E+00	57	.10946E+00	58	.10946E+00	59	.10889E+00	60	.10889E+00
61	.10833E+00	62	.10833E+00	63	.10778E+00	64	.10778E+00	65	.10723E+00	66	.10723E+00
67	.10670E+00	68	.10670E+00	69	.10617E+00	70	.10617E+00	71	.10564E+00	72	.10564E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.10564E+00	72	.10564E+00	73	.10513E+00	74	.10513E+00	75	.10313E+00	76	.10313E+00
77	.10123E+00	78	.10123E+00	79	.99424E-01	80	.99424E-01	81	.97711E-01	82	.97711E-01
83	.96085E-01	84	.96085E-01	85	.94539E-01	86	.94539E-01	87	.93071E-01	88	.93071E-01
89	.91677E-01	90	.91677E-01	91	.90353E-01	92	.90353E-01	93	.89095E-01	94	.89095E-01
95	.87900E-01	96	.87900E-01	97	.86766E-01	98	.86766E-01	99	.85689E-01	100	.85689E-01
101	.84667E-01	102	.84667E-01	103	.83698E-01	104	.83698E-01	105	.82776E-01	106	.82776E-01
107	.81906E-01	108	.81906E-01	109	.81080E-01	110	.81080E-01	111	.80298E-01	112	.80298E-01
113	.79557E-01	114	.79557E-01	115	.78855E-01	116	.78855E-01	117	.78192E-01	118	.78192E-01
119	.77565E-01	120	.77565E-01	121	.76972E-01	122	.76972E-01	123	.76411E-01	124	.76411E-01
125	.75882E-01	126	.75882E-01	127	.75363E-01	128	.75363E-01	129	.74913E-01	130	.74913E-01
131	.74469E-01	132	.74469E-01	133	.74051E-01	134	.74051E-01	135	.73658E-01	136	.73658E-01
137	.73288E-01	138	.73288E-01	139	.72939E-01	140	.72939E-01	141	.72612E-01	142	.72612E-01
143	.72304E-01	144	.72304E-01	145	.72015E-01	146	.72015E-01	147	.71743E-01	148	.71743E-01
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.64896E-01	148	.64896E-01	149	.64959E-01	150	.64959E-01	151	.65017E-01	152	.65017E-01
153	.65070E-01	154	.65070E-01	155	.65119E-01	156	.65119E-01	157	.65164E-01	158	.65164E-01
159	.65205E-01	160	.65205E-01	161	.65243E-01	162	.65243E-01	163	.65278E-01	164	.65278E-01
165	.65310E-01	166	.65310E-01	167	.65340E-01	168	.65340E-01	169	.65367E-01	170	.65367E-01
171	.65392E-01	172	.65392E-01	173	.65415E-01	174	.65415E-01	175	.65436E-01	176	.65436E-01
177	.65455E-01	178	.65455E-01	179	.65473E-01	180	.65473E-01	181	.65489E-01	182	.65489E-01
183	.65504E-01	184	.65504E-01	185	.65518E-01	186	.65518E-01	187	.65531E-01	188	.65531E-01
189	.65543E-01	190	.65543E-01	191	.65554E-01	192	.65554E-01	193	.65564E-01	194	.65564E-01
195	.65573E-01	196	.65573E-01	197	.65581E-01	198	.65581E-01	199	.65589E-01	200	.65589E-01
201	.65596E-01	202	.65596E-01	203	.65603E-01	204	.65603E-01	205	.65609E-01	206	.65609E-01
207	.65614E-01	208	.65614E-01	209	.65619E-01	210	.65619E-01	211	.65624E-01	212	.65624E-01
213	.65629E-01	214	.65629E-01	215	.65633E-01	216	.65633E-01	217	.65636E-01	218	.65636E-01
219	.65640E-01	220	.65640E-01	221	.65643E-01	222	.65643E-01	223	.65646E-01	224	.65646E-01

GREEN RIVER: 1) GRN542093% 2) GRN535095% 3) GRN535095% 1.0E-06cm/s cover 4 ...

TIME = 162500.0000 TIME STEP = 360

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .14893E-01 AT NODE 168

CUMULATIVE INFLOW INTO SYSTEM IS = .11826E+04
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.13565E+04
CUMULATIVE CHANGE IN SYSTEM IS = -.17393E+03

D NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.65000E+03	-.65000E+03	-.32050E-02	2	-.65000E+03	-.65000E+03	-.32384E-02	3	-.64967E+03	-.65467E+03	.00000E+00
4	-.64967E+03	-.65467E+03	.00000E+00	5	-.64974E+03	-.65974E+03	.00000E+00	6	-.64974E+03	-.65974E+03	.00000E+00
7	-.64961E+03	-.66461E+03	.00000E+00	8	-.64961E+03	-.66461E+03	.00000E+00	9	-.64947E+03	-.66947E+03	.00000E+00
10	-.64947E+03	-.66947E+03	.00000E+00	11	-.64932E+03	-.67432E+03	.00000E+00	12	-.64932E+03	-.67432E+03	.00000E+00
13	-.64917E+03	-.67917E+03	.00000E+00	14	-.64917E+03	-.67917E+03	.00000E+00	15	-.64901E+03	-.68401E+03	.00000E+00
16	-.64901E+03	-.68401E+03	.00000E+00	17	-.64885E+03	-.68885E+03	.00000E+00	18	-.64885E+03	-.68885E+03	.00000E+00
19	-.64869E+03	-.69369E+03	.00000E+00	20	-.64869E+03	-.69369E+03	.00000E+00	21	-.64852E+03	-.69852E+03	.00000E+00
22	-.64852E+03	-.69852E+03	.00000E+00	23	-.64834E+03	-.70334E+03	.00000E+00	24	-.64834E+03	-.70334E+03	.00000E+00
25	-.64816E+03	-.70816E+03	.00000E+00	26	-.64816E+03	-.70816E+03	.00000E+00	27	-.64797E+03	-.71297E+03	.00000E+00
28	-.64797E+03	-.71297E+03	.00000E+00	29	-.64778E+03	-.71778E+03	.00000E+00	30	-.64778E+03	-.71778E+03	.00000E+00
[illegible]	-.64758E+03	-.72258E+03	.00000E+00	32	-.64758E+03	-.72258E+03	.00000E+00	33	-.64737E+03	-.72737E+03	.00000E+00
[illegible]	-.64737E+03	-.72737E+03	.00000E+00	35	-.64716E+03	-.73216E+03	.00000E+00	36	-.64716E+03	-.73216E+03	.00000E+00
[illegible]	-.64694E+03	-.73694E+03	.00000E+00	38	-.64694E+03	-.73694E+03	.00000E+00	39	-.64671E+03	-.74171E+03	.00000E+00
40	-.64671E+03	-.74171E+03	.00000E+00	41	-.64648E+03	-.74648E+03	.00000E+00	42	-.64648E+03	-.74648E+03	.00000E+00
43	-.64624E+03	-.75124E+03	.00000E+00	44	-.64624E+03	-.75124E+03	.00000E+00	45	-.64599E+03	-.75599E+03	.00000E+00
46	-.64599E+03	-.75599E+03	.00000E+00	47	-.64574E+03	-.76074E+03	.00000E+00	48	-.64574E+03	-.76074E+03	.00000E+00
49	-.64548E+03	-.76548E+03	.00000E+00	50	-.64548E+03	-.76548E+03	.00000E+00	51	-.64521E+03	-.77021E+03	.00000E+00
52	-.64521E+03	-.77021E+03	.00000E+00	53	-.64493E+03	-.77493E+03	.00000E+00	54	-.64493E+03	-.77493E+03	.00000E+00
55	-.64464E+03	-.77964E+03	.00000E+00	56	-.64464E+03	-.77964E+03	.00000E+00	57	-.64435E+03	-.78435E+03	.00000E+00
58	-.64435E+03	-.78435E+03	.00000E+00	59	-.64404E+03	-.78904E+03	.00000E+00	60	-.64404E+03	-.78904E+03	.00000E+00
61	-.64373E+03	-.79373E+03	.00000E+00	62	-.64373E+03	-.79373E+03	.00000E+00	63	-.64341E+03	-.79841E+03	.00000E+00
64	-.64341E+03	-.79841E+03	.00000E+00	65	-.64308E+03	-.80308E+03	.00000E+00	66	-.64308E+03	-.80308E+03	.00000E+00
67	-.64274E+03	-.80774E+03	.00000E+00	68	-.64274E+03	-.80774E+03	.00000E+00	69	-.64240E+03	-.81240E+03	.00000E+00
70	-.64240E+03	-.81240E+03	.00000E+00	71	-.64204E+03	-.81704E+03	.00000E+00	72	-.64204E+03	-.81704E+03	.00000E+00
73	-.64167E+03	-.82167E+03	.00000E+00	74	-.64167E+03	-.82167E+03	.00000E+00	75	-.64010E+03	-.84010E+03	.00000E+00
76	-.64010E+03	-.84010E+03	.00000E+00	77	-.63836E+03	-.85836E+03	.00000E+00	78	-.63836E+03	-.85836E+03	.00000E+00
79	-.63643E+03	-.87643E+03	.00000E+00	80	-.63643E+03	-.87643E+03	.00000E+00	81	-.63431E+03	-.89430E+03	.00000E+00
82	-.63431E+03	-.89431E+03	.00000E+00	83	-.63197E+03	-.91197E+03	.00000E+00	84	-.63197E+03	-.91197E+03	.00000E+00
85	-.62940E+03	-.92940E+03	.00000E+00	86	-.62940E+03	-.92940E+03	.00000E+00	87	-.62658E+03	-.94658E+03	.00000E+00
88	-.62658E+03	-.94658E+03	.00000E+00	89	-.62351E+03	-.96351E+03	.00000E+00	90	-.62351E+03	-.96351E+03	.00000E+00
91	-.62017E+03	-.98017E+03	.00000E+00	92	-.62017E+03	-.98017E+03	.00000E+00	93	-.61655E+03	-.99655E+03	.00000E+00
94	-.61655E+03	-.99655E+03	.00000E+00	95	-.61262E+03	-.10126E+04	.00000E+00	96	-.61262E+03	-.10126E+04	.00000E+00
97	-.60838E+03	-.10284E+04	.00000E+00	98	-.60838E+03	-.10284E+04	.00000E+00	99	-.60381E+03	-.10438E+04	.00000E+00
100	-.60381E+03	-.10438E+04	.00000E+00	101	-.59891E+03	-.10589E+04	.00000E+00	102	-.59891E+03	-.10589E+04	.00000E+00
103	-.59366E+03	-.10737E+04	.00000E+00	104	-.59366E+03	-.10737E+04	.00000E+00	105	-.58804E+03	-.10880E+04	.00000E+00
[illegible]	-.58804E+03	-.10880E+04	.00000E+00	107	-.58205E+03	-.11020E+04	.00000E+00	108	-.58205E+03	-.11020E+04	.00000E+00
[illegible]	-.57567E+03	-.11157E+04	.00000E+00	110	-.57567E+03	-.11157E+04	.00000E+00	111	-.56891E+03	-.11289E+04	.00000E+00
112	-.56891E+03	-.11289E+04	.00000E+00	113	-.56175E+03	-.11417E+04	.00000E+00	114	-.56175E+03	-.11417E+04	.00000E+00
115	-.55418E+03	-.11542E+04	.00000E+00	116	-.55418E+03	-.11542E+04	.00000E+00	117	-.54621E+03	-.11662E+04	.00000E+00
118	-.54621E+03	-.11662E+04	.00000E+00	119	-.53763E+03	-.11778E+04	.00000E+00	120	-.53763E+03	-.11778E+04	.00000E+00
121	-.52904E+03	-.11890E+04	.00000E+00	122	-.52904E+03	-.11890E+04	.00000E+00	123	-.51984E+03	-.11998E+04	.00000E+00

124	-.51984E+03	-.11998E+04	.00000E+00	125	-.51022E+03	-.12102E+04	.00000E+00	126	-.51022E+03	-.12102E+04	.00000E+00
127	-.50019E+03	-.12202E+04	.00000E+00	128	-.50019E+03	-.12202E+04	.00000E+00	129	-.48976E+03	-.12296E+04	.00000E+00
130	-.48976E+03	-.12298E+04	.00000E+00	131	-.47892E+03	-.12389E+04	.00000E+00	132	-.47892E+03	-.12389E+04	.00000E+00
133	-.46769E+03	-.12477E+04	.00000E+00	134	-.46769E+03	-.12477E+04	.00000E+00	135	-.45607E+03	-.12561E+04	.00000E+00
136	-.45607E+03	-.12561E+04	.00000E+00	137	-.44406E+03	-.12641E+04	.00000E+00	138	-.44406E+03	-.12641E+04	.00000E+00
139	-.43168E+03	-.12717E+04	.00000E+00	140	-.43168E+03	-.12717E+04	.00000E+00	141	-.41893E+03	-.12789E+04	[illegible]+00
142	-.41893E+03	-.12789E+04	.00000E+00	143	-.40582E+03	-.12858E+04	.00000E+00	144	-.40582E+03	-.12858E+04	[illegible]E+00
145	-.39237E+03	-.12924E+04	.00000E+00	146	-.39237E+03	-.12924E+04	.00000E+00	147	-.37858E+03	-.12966E+04	.00000E+00
148	-.37859E+03	-.12986E+04	.00000E+00	149	-.35680E+03	-.12968E+04	.00000E+00	150	-.35680E+03	-.12968E+04	.00000E+00
151	-.33516E+03	-.12952E+04	.00000E+00	152	-.33516E+03	-.12952E+04	.00000E+00	153	-.31366E+03	-.12937E+04	.00000E+00
154	-.31366E+03	-.12937E+04	.00000E+00	155	-.29228E+03	-.12923E+04	.00000E+00	156	-.29228E+03	-.12923E+04	.00000E+00
157	-.27102E+03	-.12910E+04	.00000E+00	158	-.27102E+03	-.12910E+04	.00000E+00	159	-.24987E+03	-.12899E+04	.00000E+00
160	-.24987E+03	-.12899E+04	.00000E+00	161	-.22881E+03	-.12888E+04	.00000E+00	162	-.22881E+03	-.12888E+04	.00000E+00
163	-.20783E+03	-.12878E+04	.00000E+00	164	-.20783E+03	-.12878E+04	.00000E+00	165	-.18694E+03	-.12869E+04	.00000E+00
166	-.18694E+03	-.12869E+04	.00000E+00	167	-.16612E+03	-.12861E+04	.00000E+00	168	-.16612E+03	-.12861E+04	.00000E+00
169	-.14537E+03	-.12854E+04	.00000E+00	170	-.14537E+03	-.12854E+04	.00000E+00	171	-.12467E+03	-.12847E+04	.00000E+00
172	-.12467E+03	-.12847E+04	.00000E+00	173	-.10404E+03	-.12840E+04	.00000E+00	174	-.10404E+03	-.12840E+04	.00000E+00
175	-.83456E+02	-.12835E+04	.00000E+00	176	-.83456E+02	-.12835E+04	.00000E+00	177	-.62921E+02	-.12829E+04	.00000E+00
178	-.62921E+02	-.12829E+04	.00000E+00	179	-.42429E+02	-.12824E+04	.00000E+00	180	-.42429E+02	-.12824E+04	.00000E+00
181	-.21977E+02	-.12820E+04	.00000E+00	182	-.21977E+02	-.12820E+04	.00000E+00	183	-.15610E+01	-.12816E+04	.00000E+00
184	-.15608E+01	-.12816E+04	.00000E+00	185	.18823E+02	-.12812E+04	.00000E+00	186	.18823E+02	-.12812E+04	.00000E+00
187	.39177E+02	-.12808E+04	.00000E+00	188	.39177E+02	-.12808E+04	.00000E+00	189	.59503E+02	-.12805E+04	.00000E+00
190	.59503E+02	-.12805E+04	.00000E+00	191	.79801E+02	-.12802E+04	.00000E+00	192	.79801E+02	-.12802E+04	.00000E+00
193	.10008E+03	-.12799E+04	.00000E+00	194	.10008E+03	-.12799E+04	.00000E+00	195	.12033E+03	-.12797E+04	.00000E+00
196	.12033E+03	-.12797E+04	.00000E+00	197	.14056E+03	-.12794E+04	.00000E+00	198	.14056E+03	-.12794E+04	.00000E+00
199	.16077E+03	-.12792E+04	.00000E+00	200	.16077E+03	-.12792E+04	.00000E+00	201	.18097E+03	-.12790E+04	.00000E+00
202	.18097E+03	-.12790E+04	.00000E+00	203	.20115E+03	-.12788E+04	.00000E+00	204	.20115E+03	-.12788E+04	.00000E+00
205	.22132E+03	-.12787E+04	.00000E+00	206	.22132E+03	-.12787E+04	.00000E+00	207	.24147E+03	-.12785E+04	.00000E+00
208	.24147E+03	-.12785E+04	.00000E+00	209	.26161E+03	-.12784E+04	.00000E+00	210	.26161E+03	-.12784E+04	.00000E+00
211	.28174E+03	-.12783E+04	.00000E+00	212	.28174E+03	-.12783E+04	.00000E+00	213	.30186E+03	-.12781E+04	.00000E+00
214	.30186E+03	-.12781E+04	.00000E+00	215	.32197E+03	-.12780E+04	.00000E+00	216	.32197E+03	-.12780E+04	.00000E+00
217	.34207E+03	-.12779E+04	.00000E+00	218	.34207E+03	-.12779E+04	.00000E+00	219	.36217E+03	-.12778E+04	[illegible]E+00
220	.36217E+03	-.12778E+04	.00000E+00	221	.38225E+03	-.12777E+04	.00000E+00	222	.38225E+03	-.12777E+04	[illegible]E+00
223	.40233E+03	-.12777E+04	.32400E-02	224	.40233E+03	-.12777E+04	.32400E-02	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.12884E+00	2	.12884E+00	3	.12801E+00	4	.12801E+00	5	.12719E+00	6	.12719E+00
7	.12639E+00	8	.12639E+00	9	.12560E+00	10	.12560E+00	11	.12481E+00	12	.12481E+00
13	.12404E+00	14	.12404E+00	15	.12328E+00	16	.12328E+00	17	.12253E+00	18	.12253E+00
19	.12179E+00	20	.12179E+00	21	.12106E+00	22	.12106E+00	23	.12033E+00	24	.12033E+00
25	.11962E+00	26	.11962E+00	27	.11892E+00	28	.11892E+00	29	.11823E+00	30	.11823E+00
31	.11755E+00	32	.11755E+00	33	.11687E+00	34	.11687E+00	35	.11621E+00	36	.11621E+00
37	.11555E+00	38	.11555E+00	39	.11491E+00	40	.11491E+00	41	.11427E+00	42	.11427E+00
43	.11364E+00	44	.11364E+00	45	.11302E+00	46	.11302E+00	47	.11240E+00	48	.11240E+00
49	.11180E+00	50	.11180E+00	51	.11120E+00	52	.11120E+00	53	.11061E+00	54	.11061E+00
55	.11003E+00	56	.11003E+00	57	.10946E+00	58	.10946E+00	59	.10889E+00	60	.10889E+00
61	.10833E+00	62	.10833E+00	63	.10778E+00	64	.10778E+00	65	.10723E+00	66	.10723E+00
67	.10670E+00	68	.10670E+00	69	.10617E+00	70	.10617E+00	71	.10564E+00	72	.10564E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.10564E+00	72	.10564E+00	73	.10513E+00	74	.10513E+00	75	.10313E+00	76	.10313E+00
77	.10123E+00	78	.10123E+00	79	.99424E-01	80	.99424E-01	81	.97711E-01	82	.97711E-01
83	.96084E-01	84	.96084E-01	85	.94539E-01	86	.94538E-01	87	.93071E-01	88	.93071E-01
89	.91676E-01	90	.91676E-01	91	.90352E-01	92	.90352E-01	93	.89094E-01	94	.89094E-01
95	.87899E-01	96	.87899E-01	97	.86765E-01	98	.86765E-01	99	.85688E-01	100	.85688E-01

101	.84666E-01	102	.84666E-01	103	.83697E-01	104	.83697E-01	105	.82777E-01	106	.82777E-01
107	.81906E-01	108	.81906E-01	109	.81080E-01	110	.81080E-01	111	.80297E-01	112	.80297E-01
113	.79556E-01	114	.79556E-01	115	.78855E-01	116	.78855E-01	117	.78191E-01	118	.78191E-01
119	.77564E-01	120	.77564E-01	121	.76971E-01	122	.76971E-01	123	.76411E-01	124	.76411E-01
125	.75882E-01	126	.75882E-01	127	.75383E-01	128	.75383E-01	129	.74913E-01	130	.74913E-01
	.74469E-01	132	.74469E-01	133	.74051E-01	134	.74051E-01	135	.73658E-01	136	.73658E-01
	.73288E-01	138	.73288E-01	139	.72939E-01	140	.72939E-01	141	.72612E-01	142	.72612E-01
143	.72304E-01	144	.72304E-01	145	.72015E-01	146	.72015E-01	147	.71744E-01	148	.71744E-01
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.64897E-01	148	.64896E-01	149	.64960E-01	150	.64960E-01	151	.65017E-01	152	.65017E-01
153	.65071E-01	154	.65071E-01	155	.65119E-01	156	.65119E-01	157	.65164E-01	158	.65164E-01
159	.65206E-01	160	.65206E-01	161	.65244E-01	162	.65244E-01	163	.65278E-01	164	.65278E-01
165	.65310E-01	166	.65310E-01	167	.65340E-01	168	.65340E-01	169	.65367E-01	170	.65367E-01
171	.65392E-01	172	.65392E-01	173	.65415E-01	174	.65415E-01	175	.65436E-01	176	.65436E-01
177	.65455E-01	178	.65455E-01	179	.65473E-01	180	.65473E-01	181	.65489E-01	182	.65489E-01
183	.65505E-01	184	.65505E-01	185	.65518E-01	186	.65518E-01	187	.65531E-01	188	.65531E-01
189	.65543E-01	190	.65543E-01	191	.65554E-01	192	.65554E-01	193	.65564E-01	194	.65564E-01
195	.65573E-01	196	.65573E-01	197	.65582E-01	198	.65582E-01	199	.65589E-01	200	.65589E-01
201	.65597E-01	202	.65597E-01	203	.65603E-01	204	.65603E-01	205	.65609E-01	206	.65609E-01
207	.65615E-01	208	.65615E-01	209	.65620E-01	210	.65620E-01	211	.65625E-01	212	.65625E-01
213	.65629E-01	214	.65629E-01	215	.65633E-01	216	.65633E-01	217	.65637E-01	218	.65637E-01
219	.65640E-01	220	.65640E-01	221	.65643E-01	222	.65643E-01	223	.65646E-01	224	.65646E-01

STORAGE CHECK

THE DIMENSION OF BD SHOULD BE GREATER THAN 897
THE DIMENSION OF BS SHOULD BE GREATER THAN 3051

NO COVER
FIXED UB FLUX = 2E 10^-8
FIXED LB -650cm

Name of the Input File: grn1b6.INU
Name of the Output File: grn1b6.UNS
Name of the Plot File: grn1b6.PRN

1 VERTICAL PLANE FLOW

0GREEN RIVER: 1) GRN542@93% 2) GRN535@95% 3) GRN535@95%; 2.0E-06cm/s cover flux

NUMBER OF NODAL POINTS------- 224
MAX NODES IN A TRNSVRS LINE-- 2
NUMBER OF ELEMENTS---------- 111
NUMBER OF MATERIALS---------- 3
MAX NUMBER OF ITERATIONS----- 100

UNITS ARE CONTROLED BY THE FOLLOWING CONSTANTS -

CONS1 = .100E+01 CONS2 = .100E+01

MATERIAL	K1	K2	POROSITY	SS	RWC	EN	ALPHA	ID MODEL
1	.66400E+01	.66400E+01	.33000E+00	.00000E+00	.25000E-01	.22500E+01	.34000E-02	1
2	.66400E+01	.66400E+01	.33000E+00	.00000E+00	.25000E-01	.22500E+01	.34000E-02	1
3	.51600E+02	.51600E+02	.45000E+00	.00000E+00	.30000E-01	.23260E+01	.50000E-02	1

NODAL POINT INFORMATION

NODE NO.	KODE	X,R	Y,Z	.PSI.	Q
1	1	.000000E+00	.000000E+00	-.650000E+03	.000000E+00
2	1	.750000E+01	.000000E+00	-.650000E+03	.000000E+00
3	0	.000000E+00	.500000E+01	-.650000E+03	.000000E+00
4	0	.750000E+01	.500000E+01	-.650000E+03	.000000E+00
5	0	.000000E+00	.100000E+02	-.650000E+03	.000000E+00
6	0	.750000E+01	.100000E+02	-.650000E+03	.000000E+00
7	0	.000000E+00	.150000E+02	-.650000E+03	.000000E+00
8	0	.750000E+01	.150000E+02	-.650000E+03	.000000E+00
9	0	.000000E+00	.200000E+02	-.650000E+03	.000000E+00
10	0	.750000E+01	.200000E+02	-.650000E+03	.000000E+00
11	0	.000000E+00	.250000E+02	-.650000E+03	.000000E+00
12	0	.750000E+01	.250000E+02	-.650000E+03	.000000E+00
13	0	.000000E+00	.300000E+02	-.650000E+03	.000000E+00
14	0	.750000E+01	.300000E+02	-.650000E+03	.000000E+00
15	0	.000000E+00	.350000E+02	-.650000E+03	.000000E+00
16	0	.750000E+01	.350000E+02	-.650000E+03	.000000E+00

17	0	.000000E+00	.400000E+02	-.650000E+03	.000000E+00
18	0	.750000E+01	.400000E+02	-.650000E+03	.000000E+00
19	0	.000000E+00	.450000E+02	-.650000E+03	.000000E+00
20	0	.750000E+01	.450000E+02	-.650000E+03	.000000E+00
21	0	.000000E+00	.500000E+02	-.650000E+03	.000000E+00
22	0	.750000E+01	.500000E+02	-.650000E+03	.000000E+00
23	0	.000000E+00	.550000E+02	-.650000E+03	.000000E+00
24	0	.750000E+01	.550000E+02	-.650000E+03	.000000E+00
25	0	.000000E+00	.600000E+02	-.650000E+03	.000000E+00
26	0	.750000E+01	.600000E+02	-.650000E+03	.000000E+00
27	0	.000000E+00	.650000E+02	-.650000E+03	.000000E+00
28	0	.750000E+01	.650000E+02	-.650000E+03	.000000E+00
29	0	.000000E+00	.700000E+02	-.650000E+03	.000000E+00
30	0	.750000E+01	.700000E+02	-.650000E+03	.000000E+00
31	0	.000000E+00	.750000E+02	-.650000E+03	.000000E+00
32	0	.750000E+01	.750000E+02	-.650000E+03	.000000E+00
33	0	.000000E+00	.800000E+02	-.650000E+03	.000000E+00
34	0	.750000E+01	.800000E+02	-.650000E+03	.000000E+00
35	0	.000000E+00	.850000E+02	-.650000E+03	.000000E+00
36	0	.750000E+01	.850000E+02	-.650000E+03	.000000E+00
37	0	.000000E+00	.900000E+02	-.650000E+03	.000000E+00
38	0	.750000E+01	.900000E+02	-.650000E+03	.000000E+00
39	0	.000000E+00	.950000E+02	-.650000E+03	.000000E+00
40	0	.750000E+01	.950000E+02	-.650000E+03	.000000E+00
41	0	.000000E+00	.100000E+03	-.650000E+03	.000000E+00
42	0	.750000E+01	.100000E+03	-.650000E+03	.000000E+00
43	0	.000000E+00	.105000E+03	-.650000E+03	.000000E+00
44	0	.750000E+01	.105000E+03	-.650000E+03	.000000E+00
45	0	.000000E+00	.110000E+03	-.650000E+03	.000000E+00
46	0	.750000E+01	.110000E+03	-.650000E+03	.000000E+00
47	0	.000000E+00	.115000E+03	-.650000E+03	.000000E+00
48	0	.750000E+01	.115000E+03	-.650000E+03	.000000E+00
49	0	.000000E+00	.120000E+03	-.650000E+03	.000000E+00
50	0	.750000E+01	.120000E+03	-.650000E+03	.000000E+00
51	0	.000000E+00	.125000E+03	-.650000E+03	.000000E+00
52	0	.750000E+01	.125000E+03	-.650000E+03	.000000E+00
53	0	.000000E+00	.130000E+03	-.650000E+03	.000000E+00
54	0	.750000E+01	.130000E+03	-.650000E+03	.000000E+00
55	0	.000000E+00	.135000E+03	-.650000E+03	.000000E+00
56	0	.750000E+01	.135000E+03	-.650000E+03	.000000E+00
57	0	.000000E+00	.140000E+03	-.650000E+03	.000000E+00
58	0	.750000E+01	.140000E+03	-.650000E+03	.000000E+00
59	0	.000000E+00	.145000E+03	-.650000E+03	.000000E+00
60	0	.750000E+01	.145000E+03	-.650000E+03	.000000E+00
61	0	.000000E+00	.150000E+03	-.650000E+03	.000000E+00
62	0	.750000E+01	.150000E+03	-.650000E+03	.000000E+00
63	0	.000000E+00	.155000E+03	-.650000E+03	.000000E+00
64	0	.750000E+01	.155000E+03	-.650000E+03	.000000E+00
65	0	.000000E+00	.160000E+03	-.650000E+03	.000000E+00
66	0	.750000E+01	.160000E+03	-.650000E+03	.000000E+00
67	0	.000000E+00	.165000E+03	-.650000E+03	.000000E+00
68	0	.750000E+01	.165000E+03	-.650000E+03	.000000E+00
69	0	.000000E+00	.170000E+03	-.650000E+03	.000000E+00
70	0	.750000E+01	.170000E+03	-.650000E+03	.000000E+00
71	0	.000000E+00	.175000E+03	-.650000E+03	.000000E+00
72	0	.750000E+01	.175000E+03	-.650000E+03	.000000E+00
73	0	.000000E+00	.180000E+03	-.650000E+03	.000000E+00
74	0	.750000E+01	.180000E+03	-.650000E+03	.000000E+00
75	0	.000000E+00	.200000E+03	-.650000E+03	.000000E+00
76	0	.750000E+01	.200000E+03	-.650000E+03	.000000E+00
77	0	.000000E+00	.220000E+03	-.650000E+03	.000000E+00
78	0	.750000E+01	.220000E+03	-.650000E+03	.000000E+00

79	0	.000000E+00	.240000E+03	-.650000E+03	.000000E+00
80	0	.750000E+01	.240000E+03	-.650000E+03	.000000E+00
81	0	.000000E+00	.260000E+03	-.650000E+03	.000000E+00
82	0	.750000E+01	.260000E+03	-.650000E+03	.000000E+00
83	0	.000000E+00	.280000E+03	-.650000E+03	.000000E+00
84	0	.750000E+01	.280000E+03	-.650000E+03	.000000E+00
85	0	.000000E+00	.300000E+03	-.650000E+03	.000000E+00
86	0	.750000E+01	.300000E+03	-.650000E+03	.000000E+00
87	0	.000000E+00	.320000E+03	-.650000E+03	.000000E+00
88	0	.750000E+01	.320000E+03	-.650000E+03	.000000E+00
89	0	.000000E+00	.340000E+03	-.650000E+03	.000000E+00
90	0	.750000E+01	.340000E+03	-.650000E+03	.000000E+00
91	0	.000000E+00	.360000E+03	-.650000E+03	.000000E+00
92	0	.750000E+01	.360000E+03	-.650000E+03	.000000E+00
93	0	.000000E+00	.380000E+03	-.650000E+03	.000000E+00
94	0	.750000E+01	.380000E+03	-.650000E+03	.000000E+00
95	0	.000000E+00	.400000E+03	-.650000E+03	.000000E+00
96	0	.750000E+01	.400000E+03	-.650000E+03	.000000E+00
97	0	.000000E+00	.420000E+03	-.650000E+03	.000000E+00
98	0	.750000E+01	.420000E+03	-.650000E+03	.000000E+00
99	0	.000000E+00	.440000E+03	-.650000E+03	.000000E+00
100	0	.750000E+01	.440000E+03	-.650000E+03	.000000E+00
101	0	.000000E+00	.460000E+03	-.650000E+03	.000000E+00
102	0	.750000E+01	.460000E+03	-.650000E+03	.000000E+00
103	0	.000000E+00	.480000E+03	-.650000E+03	.000000E+00
104	0	.750000E+01	.480000E+03	-.650000E+03	.000000E+00
105	0	.000000E+00	.500000E+03	-.650000E+03	.000000E+00
106	0	.750000E+01	.500000E+03	-.650000E+03	.000000E+00
107	0	.000000E+00	.520000E+03	-.650000E+03	.000000E+00
108	0	.750000E+01	.520000E+03	-.650000E+03	.000000E+00
109	0	.000000E+00	.540000E+03	-.650000E+03	.000000E+00
110	0	.750000E+01	.540000E+03	-.650000E+03	.000000E+00
111	0	.000000E+00	.560000E+03	-.650000E+03	.000000E+00
112	0	.750000E+01	.560000E+03	-.650000E+03	.000000E+00
113	0	.000000E+00	.580000E+03	-.650000E+03	.000000E+00
114	0	.750000E+01	.580000E+03	-.650000E+03	.000000E+00
115	0	.000000E+00	.600000E+03	-.650000E+03	.000000E+00
116	0	.750000E+01	.600000E+03	-.650000E+03	.000000E+00
117	0	.000000E+00	.620000E+03	-.650000E+03	.000000E+00
118	0	.750000E+01	.620000E+03	-.650000E+03	.000000E+00
119	0	.000000E+00	.640000E+03	-.650000E+03	.000000E+00
120	0	.750000E+01	.640000E+03	-.650000E+03	.000000E+00
121	0	.000000E+00	.660000E+03	-.650000E+03	.000000E+00
122	0	.750000E+01	.660000E+03	-.650000E+03	.000000E+00
123	0	.000000E+00	.680000E+03	-.650000E+03	.000000E+00
124	0	.750000E+01	.680000E+03	-.650000E+03	.000000E+00
125	0	.000000E+00	.700000E+03	-.650000E+03	.000000E+00
126	0	.750000E+01	.700000E+03	-.650000E+03	.000000E+00
127	0	.000000E+00	.720000E+03	-.650000E+03	.000000E+00
128	0	.750000E+01	.720000E+03	-.650000E+03	.000000E+00
129	0	.000000E+00	.740000E+03	-.650000E+03	.000000E+00
130	0	.750000E+01	.740000E+03	-.650000E+03	.000000E+00
131	0	.000000E+00	.760000E+03	-.650000E+03	.000000E+00
132	0	.750000E+01	.760000E+03	-.650000E+03	.000000E+00
133	0	.000000E+00	.780000E+03	-.650000E+03	.000000E+00
134	0	.750000E+01	.780000E+03	-.650000E+03	.000000E+00
135	0	.000000E+00	.800000E+03	-.650000E+03	.000000E+00
136	0	.750000E+01	.800000E+03	-.650000E+03	.000000E+00
137	0	.000000E+00	.820000E+03	-.650000E+03	.000000E+00
138	0	.750000E+01	.820000E+03	-.650000E+03	.000000E+00
139	0	.000000E+00	.840000E+03	-.650000E+03	.000000E+00
140	0	.750000E+01	.840000E+03	-.650000E+03	.000000E+00

141	0	.000000E+00	.860000E+03	-.650000E+03	.000000E+00
142	0	.750000E+01	.860000E+03	-.650000E+03	.000000E+00
143	0	.000000E+00	.880000E+03	-.650000E+03	.000000E+00
144	0	.750000E+01	.880000E+03	-.650000E+03	.000000E+00
145	0	.000000E+00	.900000E+03	-.650000E+03	.000000E+00
146	0	.750000E+01	.900000E+03	-.650000E+03	.000000E+00
147	0	.000000E+00	.920000E+03	-.650000E+03	.000000E+00
148	0	.750000E+01	.920000E+03	-.650000E+03	.000000E+00
149	0	.000000E+00	.940000E+03	-.200000E+04	.000000E+00
150	0	.750000E+01	.940000E+03	-.200000E+04	.000000E+00
151	0	.000000E+00	.960000E+03	-.200000E+04	.000000E+00
152	0	.750000E+01	.960000E+03	-.200000E+04	.000000E+00
153	0	.000000E+00	.980000E+03	-.200000E+04	.000000E+00
154	0	.750000E+01	.980000E+03	-.200000E+04	.000000E+00
155	0	.000000E+00	.100000E+04	-.200000E+04	.000000E+00
156	0	.750000E+01	.100000E+04	-.200000E+04	.000000E+00
157	0	.000000E+00	.102000E+04	-.200000E+04	.000000E+00
158	0	.750000E+01	.102000E+04	-.200000E+04	.000000E+00
159	0	.000000E+00	.104000E+04	-.200000E+04	.000000E+00
160	0	.750000E+01	.104000E+04	-.200000E+04	.000000E+00
161	0	.000000E+00	.106000E+04	-.200000E+04	.000000E+00
162	0	.750000E+01	.106000E+04	-.200000E+04	.000000E+00
163	0	.000000E+00	.108000E+04	-.200000E+04	.000000E+00
164	0	.750000E+01	.108000E+04	-.200000E+04	.000000E+00
165	0	.000000E+00	.110000E+04	-.200000E+04	.000000E+00
166	0	.750000E+01	.110000E+04	-.200000E+04	.000000E+00
167	0	.000000E+00	.112000E+04	-.200000E+04	.000000E+00
168	0	.750000E+01	.112000E+04	-.200000E+04	.000000E+00
169	0	.000000E+00	.114000E+04	-.200000E+04	.000000E+00
170	0	.750000E+01	.114000E+04	-.200000E+04	.000000E+00
171	0	.000000E+00	.116000E+04	-.200000E+04	.000000E+00
172	0	.750000E+01	.116000E+04	-.200000E+04	.000000E+00
173	0	.000000E+00	.118000E+04	-.200000E+04	.000000E+00
174	0	.750000E+01	.118000E+04	-.200000E+04	.000000E+00
175	0	.000000E+00	.120000E+04	-.200000E+04	.000000E+00
176	0	.750000E+01	.120000E+04	-.200000E+04	.000000E+00
177	0	.000000E+00	.122000E+04	-.200000E+04	.000000E+00
178	0	.750000E+01	.122000E+04	-.200000E+04	.000000E+00
179	0	.000000E+00	.124000E+04	-.200000E+04	.000000E+00
180	0	.750000E+01	.124000E+04	-.200000E+04	.000000E+00
181	0	.000000E+00	.126000E+04	-.200000E+04	.000000E+00
182	0	.750000E+01	.126000E+04	-.200000E+04	.000000E+00
183	0	.000000E+00	.128000E+04	-.200000E+04	.000000E+00
184	0	.750000E+01	.128000E+04	-.200000E+04	.000000E+00
185	0	.000000E+00	.130000E+04	-.200000E+04	.000000E+00
186	0	.750000E+01	.130000E+04	-.200000E+04	.000000E+00
187	0	.000000E+00	.132000E+04	-.200000E+04	.000000E+00
188	0	.750000E+01	.132000E+04	-.200000E+04	.000000E+00
189	0	.000000E+00	.134000E+04	-.200000E+04	.000000E+00
190	0	.750000E+01	.134000E+04	-.200000E+04	.000000E+00
191	0	.000000E+00	.136000E+04	-.200000E+04	.000000E+00
192	0	.750000E+01	.136000E+04	-.200000E+04	.000000E+00
193	0	.000000E+00	.138000E+04	-.200000E+04	.000000E+00
194	0	.750000E+01	.138000E+04	-.200000E+04	.000000E+00
195	0	.000000E+00	.140000E+04	-.200000E+04	.000000E+00
196	0	.750000E+01	.140000E+04	-.200000E+04	.000000E+00
197	0	.000000E+00	.142000E+04	-.200000E+04	.000000E+00
198	0	.750000E+01	.142000E+04	-.200000E+04	.000000E+00
199	0	.000000E+00	.144000E+04	-.200000E+04	.000000E+00
200	0	.750000E+01	.144000E+04	-.200000E+04	.000000E+00
201	0	.000000E+00	.146000E+04	-.200000E+04	.000000E+00
202	0	.750000E+01	.146000E+04	-.200000E+04	.000000E+00

203	0	.000000E+00	.146000E+04	-.200000E+04	.000000E+00
204	0	.750000E+01	.146000E+04	-.200000E+04	.000000E+00
205	0	.000000E+00	.150000E+04	-.200000E+04	.000000E+00
206	0	.750000E+01	.150000E+04	-.200000E+04	.000000E+00
207	0	.000000E+00	.152000E+04	-.200000E+04	.000000E+00
208	0	.750000E+01	.152000E+04	-.200000E+04	.000000E+00
209	0	.000000E+00	.154000E+04	-.200000E+04	.000000E+00
210	0	.750000E+01	.154000E+04	-.200000E+04	.000000E+00
211	0	.000000E+00	.156000E+04	-.200000E+04	.000000E+00
212	0	.750000E+01	.156000E+04	-.200000E+04	.000000E+00
213	0	.000000E+00	.158000E+04	-.200000E+04	.000000E+00
214	0	.750000E+01	.158000E+04	-.200000E+04	.000000E+00
215	0	.000000E+00	.160000E+04	-.200000E+04	.000000E+00
216	0	.750000E+01	.160000E+04	-.200000E+04	.000000E+00
217	0	.000000E+00	.162000E+04	-.200000E+04	.000000E+00
218	0	.750000E+01	.162000E+04	-.200000E+04	.000000E+00
219	0	.000000E+00	.164000E+04	-.200000E+04	.000000E+00
220	0	.750000E+01	.164000E+04	-.200000E+04	.000000E+00
221	0	.000000E+00	.166000E+04	-.200000E+04	.000000E+00
222	0	.750000E+01	.166000E+04	-.200000E+04	.000000E+00
223	0	.000000E+00	.168000E+04	-.200000E+04	.648000E-02
224	0	.750000E+01	.168000E+04	-.200000E+04	.648000E-02

ELEMENT INFORMATION

ELEMENT	C O R N E R		N O D E S		MATERIAL	ANGLE
1	1	2	4	3	1	.000E+00
2	3	4	6	5	1	.000E+00
3	5	6	8	7	1	.000E+00
4	7	8	10	9	1	.000E+00
5	9	10	12	11	1	.000E+00
6	11	12	14	13	1	.000E+00
7	13	14	16	15	1	.000E+00
8	15	16	18	17	1	.000E+00
9	17	18	20	19	1	.000E+00
10	19	20	22	21	1	.000E+00
11	21	22	24	23	1	.000E+00
12	23	24	26	25	1	.000E+00
13	25	26	28	27	1	.000E+00
14	27	28	30	29	1	.000E+00
15	29	30	32	31	1	.000E+00
16	31	32	34	33	1	.000E+00
17	33	34	36	35	1	.000E+00
18	35	36	38	37	1	.000E+00
19	37	38	40	39	1	.000E+00
20	39	40	42	41	1	.000E+00
21	41	42	44	43	1	.000E+00
22	43	44	46	45	1	.000E+00
23	45	46	48	47	1	.000E+00
24	47	48	50	49	1	.000E+00
25	49	50	52	51	1	.000E+00
26	51	52	54	53	1	.000E+00
27	53	54	56	55	1	.000E+00
28	55	56	58	57	1	.000E+00
29	57	58	60	59	1	.000E+00
30	59	60	62	61	1	.000E+00
31	61	62	64	63	1	.000E+00
32	63	64	66	65	1	.000E+00

33	65	66	68	67	1	.000E+00
34	67	68	70	69	1	.000E+00
35	69	70	72	71	1	.000E+00
36	71	72	74	73	2	.000E+00
37	73	74	76	75	2	.000E+00
[illegible]	75	76	78	77	2	.000E+00
[illegible]	77	78	80	79	2	.000E+00
[illegible]	79	80	82	81	2	.000E+00
41	81	82	84	83	2	.000E+00
42	83	84	86	85	2	.000E+00
43	85	86	88	87	2	.000E+00
44	87	88	90	89	2	.000E+00
45	89	90	92	91	2	.000E+00
46	91	92	94	93	2	.000E+00
47	93	94	96	95	2	.000E+00
48	95	96	98	97	2	.000E+00
49	97	98	100	99	2	.000E+00
50	99	100	102	101	2	.000E+00
51	101	102	104	103	2	.000E+00
52	103	104	106	105	2	.000E+00
53	105	106	108	107	2	.000E+00
54	107	108	110	109	2	.000E+00
55	109	110	112	111	2	.000E+00
56	111	112	114	113	2	.000E+00
57	113	114	116	115	2	.000E+00
58	115	116	118	117	2	.000E+00
59	117	118	120	119	2	.000E+00
60	119	120	122	121	2	.000E+00
61	121	122	124	123	2	.000E+00
62	123	124	126	125	2	.000E+00
63	125	126	128	127	2	.000E+00
[illegible]	127	128	130	129	2	.000E+00
[illegible]	129	130	132	131	2	.000E+00
66	131	132	134	133	2	.000E+00
67	133	134	136	135	2	.000E+00
68	135	136	138	137	2	.000E+00
69	137	138	140	139	2	.000E+00
70	139	140	142	141	2	.000E+00
71	141	142	144	143	2	.000E+00
72	143	144	146	145	2	.000E+00
73	145	146	148	147	2	.000E+00
74	147	148	150	149	3	.000E+00
75	149	150	152	151	3	.000E+00
76	151	152	154	153	3	.000E+00
77	153	154	156	155	3	.000E+00
78	155	156	158	157	3	.000E+00
79	157	158	160	159	3	.000E+00
80	159	160	162	161	3	.000E+00
81	161	162	164	163	3	.000E+00
82	163	164	166	165	3	.000E+00
83	165	166	168	167	3	.000E+00
84	167	168	170	169	3	.000E+00
85	169	170	172	171	3	.000E+00
86	171	172	174	173	3	.000E+00
87	173	174	176	175	3	.000E+00
88	175	176	178	177	3	.000E+00
[illegible]	177	178	180	179	3	.000E+00
[illegible]	179	180	182	181	3	.000E+00
91	181	182	184	183	3	.000E+00
92	183	184	186	185	3	.000E+00
93	185	186	188	187	3	.000E+00
94	187	188	190	189	3	.000E+00

95	189	190	192	191	3	.000E+00
96	191	192	194	193	3	.000E+00
97	193	194	196	195	3	.000E+00
98	195	196	198	197	3	.000E+00
99	197	198	200	199	3	.000E+00
100	199	200	202	201	3	.000E+00
101	201	202	204	203	3	.000E+00
102	203	204	206	205	3	.000E+00
103	205	206	208	207	3	.000E+00
104	207	208	210	209	3	.000E+00
105	209	210	212	211	3	.000E+00
106	211	212	214	213	3	.000E+00
107	213	214	216	215	3	.000E+00
108	215	216	218	217	3	.000E+00
109	217	218	220	219	3	.000E+00
110	219	220	222	221	3	.000E+00
111	221	222	224	223	3	.000E+00

GREEN RIVER: 1) GRN5420@93% 2) GRN5350@95% 3) GRN5350@95%; 2.0E-08cm/s cover flux

TIME = 5.0000 TIME STEP = 1

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .13880E+03 AT NODE 149

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 3 WAS .16151E+02 AT NODE 152

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 4 WAS .30201E+01 AT NODE 149

CUMULATIVE INFLOW INTO SYSTEM IS = .64800E-01
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.12906E+01
CUMULATIVE CHANGE IN SYSTEM IS = -.12258E+01

0 NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.65000E+03	-.65000E+03	-.12906E+00	2	-.65000E+03	-.65000E+03	-.12907E+00	3	-.64500E+03	-.65000E+03	.00000E+0
4	-.64500E+03	-.65000E+03	.00000E+00	5	-.64000E+03	-.65000E+03	.00000E+00	6	-.64000E+03	-.65000E+03	.00000E+0
7	-.63500E+03	-.65000E+03	.00000E+00	8	-.63500E+03	-.65000E+03	.00000E+00	9	-.63000E+03	-.65000E+03	.00000E+0
10	-.63000E+03	-.65000E+03	.00000E+00	11	-.62500E+03	-.65000E+03	.00000E+00	12	-.62500E+03	-.65000E+03	.00000E+0
13	-.62000E+03	-.65000E+03	.00000E+00	14	-.62000E+03	-.65000E+03	.00000E+00	15	-.61500E+03	-.65000E+03	.00000E+0
16	-.61500E+03	-.65000E+03	.00000E+00	17	-.61000E+03	-.65000E+03	.00000E+00	18	-.61000E+03	-.65000E+03	.00000E+0
19	-.60500E+03	-.65000E+03	.00000E+00	20	-.60500E+03	-.65000E+03	.00000E+00	21	-.60000E+03	-.65000E+03	.00000E+0
22	-.60000E+03	-.65000E+03	.00000E+00	23	-.59500E+03	-.65000E+03	.00000E+00	24	-.59500E+03	-.65000E+03	[illegible]00E+0
25	-.59000E+03	-.65000E+03	.00000E+00	26	-.59000E+03	-.65000E+03	.00000E+00	27	-.58500E+03	-.65000E+03	[illegible]0E+0
28	-.58500E+03	-.65000E+03	.00000E+00	29	-.58000E+03	-.65000E+03	.00000E+00	30	-.58000E+03	-.65000E+03	.00000E+0
31	-.57500E+03	-.65000E+03	.00000E+00	32	-.57500E+03	-.65000E+03	.00000E+00	33	-.57000E+03	-.65000E+03	.00000E+0
34	-.57000E+03	-.65000E+03	.00000E+00	35	-.56500E+03	-.65000E+03	.00000E+00	36	-.56500E+03	-.65000E+03	.00000E+0
37	-.56000E+03	-.65000E+03	.00000E+00	38	-.56000E+03	-.65000E+03	.00000E+00	39	-.55500E+03	-.65000E+03	.00000E+0

40	-.55500E+03	-.65000E+03	.00000E+00	41	-.55000E+03	-.65000E+03	.00000E+00	42	-.55000E+03	-.65000E+03	.00000E+00
43	-.54500E+03	-.65000E+03	.00000E+00	44	-.54500E+03	-.65000E+03	.00000E+00	45	-.54000E+03	-.65000E+03	.00000E+00
46	-.54000E+03	-.65000E+03	.00000E+00	47	-.53500E+03	-.65000E+03	.00000E+00	48	-.53500E+03	-.65000E+03	.00000E+00
49	-.53000E+03	-.65000E+03	.00000E+00	50	-.53000E+03	-.65000E+03	.00000E+00	51	-.52500E+03	-.65000E+03	.00000E+00
52	-.52500E+03	-.65000E+03	.00000E+00	53	-.52000E+03	-.65000E+03	.00000E+00	54	-.52000E+03	-.65000E+03	.00000E+00
	-.51500E+03	-.65000E+03	.00000E+00	56	-.51500E+03	-.65000E+03	.00000E+00	57	-.51000E+03	-.65000E+03	.00000E+00
	-.51000E+03	-.65000E+03	.00000E+00	59	-.50500E+03	-.65000E+03	.00000E+00	60	-.50500E+03	-.65000E+03	.00000E+00
61	-.50000E+03	-.65000E+03	.00000E+00	62	-.50000E+03	-.65000E+03	.00000E+00	63	-.49500E+03	-.65000E+03	.00000E+00
64	-.49500E+03	-.65000E+03	.00000E+00	65	-.49000E+03	-.65000E+03	.00000E+00	66	-.49000E+03	-.65000E+03	.00000E+00
67	-.48500E+03	-.65000E+03	.00000E+00	68	-.48500E+03	-.65000E+03	.00000E+00	69	-.48000E+03	-.65000E+03	.00000E+00
70	-.48000E+03	-.65000E+03	.00000E+00	71	-.47500E+03	-.65000E+03	.00000E+00	72	-.47500E+03	-.65000E+03	.00000E+00
73	-.47000E+03	-.65000E+03	.00000E+00	74	-.47000E+03	-.65000E+03	.00000E+00	75	-.45000E+03	-.65000E+03	.00000E+00
76	-.45000E+03	-.65000E+03	.00000E+00	77	-.43000E+03	-.65000E+03	.00000E+00	78	-.43000E+03	-.65000E+03	.00000E+00
79	-.41000E+03	-.65000E+03	.00000E+00	80	-.41000E+03	-.65000E+03	.00000E+00	81	-.39000E+03	-.65000E+03	.00000E+00
82	-.39000E+03	-.65000E+03	.00000E+00	83	-.37000E+03	-.65000E+03	.00000E+00	84	-.37000E+03	-.65000E+03	.00000E+00
85	-.35000E+03	-.65000E+03	.00000E+00	86	-.35000E+03	-.65000E+03	.00000E+00	87	-.33000E+03	-.65000E+03	.00000E+00
88	-.33000E+03	-.65000E+03	.00000E+00	89	-.31000E+03	-.65000E+03	.00000E+00	90	-.31000E+03	-.65000E+03	.00000E+00
91	-.29000E+03	-.65000E+03	.00000E+00	92	-.29000E+03	-.65000E+03	.00000E+00	93	-.27000E+03	-.65000E+03	.00000E+00
94	-.27000E+03	-.65000E+03	.00000E+00	95	-.25000E+03	-.65000E+03	.00000E+00	96	-.25000E+03	-.65000E+03	.00000E+00
97	-.23000E+03	-.65000E+03	.00000E+00	98	-.23000E+03	-.65000E+03	.00000E+00	99	-.21000E+03	-.65000E+03	.00000E+00
100	-.21000E+03	-.65000E+03	.00000E+00	101	-.19000E+03	-.65000E+03	.00000E+00	102	-.19000E+03	-.65000E+03	.00000E+00
103	-.17000E+03	-.65000E+03	.00000E+00	104	-.17000E+03	-.65000E+03	.00000E+00	105	-.15000E+03	-.65000E+03	.00000E+00
106	-.15000E+03	-.65000E+03	.00000E+00	107	-.13000E+03	-.65000E+03	.00000E+00	108	-.13000E+03	-.65000E+03	.00000E+00
109	-.11000E+03	-.65000E+03	.00000E+00	110	-.11000E+03	-.65000E+03	.00000E+00	111	-.90003E+02	-.65000E+03	.00000E+00
112	-.90003E+02	-.65000E+03	.00000E+00	113	-.70006E+02	-.65001E+03	.00000E+00	114	-.70006E+02	-.65001E+03	.00000E+00
115	-.50010E+02	-.65001E+03	.00000E+00	116	-.50010E+02	-.65001E+03	.00000E+00	117	-.30018E+02	-.65002E+03	.00000E+00
118	-.30018E+02	-.65002E+03	.00000E+00	119	-.10031E+02	-.65003E+03	.00000E+00	120	-.10031E+02	-.65003E+03	.00000E+00
121	.99437E+01	-.65006E+03	.00000E+00	122	.99437E+01	-.65006E+03	.00000E+00	123	.29898E+02	-.65010E+03	.00000E+00
124	.29898E+02	-.65010E+03	.00000E+00	125	.49817E+02	-.65018E+03	.00000E+00	126	.49817E+02	-.65018E+03	.00000E+00
127	.69671E+02	-.65033E+03	.00000E+00	128	.69671E+02	-.65033E+03	.00000E+00	129	.89408E+02	-.65059E+03	.00000E+00
130	.89409E+02	-.65059E+03	.00000E+00	131	.10893E+03	-.65107E+03	.00000E+00	132	.10894E+03	-.65106E+03	.00000E+00
	.12808E+03	-.65192E+03	.00000E+00	134	.12806E+03	-.65192E+03	.00000E+00	135	.14654E+03	-.65346E+03	.00000E+00
	.14654E+03	-.65346E+03	.00000E+00	137	.16374E+03	-.65626E+03	.00000E+00	138	.16375E+03	-.65625E+03	.00000E+00
139	.17865E+03	-.66135E+03	.00000E+00	140	.17865E+03	-.66135E+03	.00000E+00	141	.18923E+03	-.67077E+03	.00000E+00
142	.18923E+03	-.67077E+03	.00000E+00	143	.19145E+03	-.68855E+03	.00000E+00	144	.19143E+03	-.68857E+03	.00000E+00
145	.17640E+03	-.72360E+03	.00000E+00	146	.17624E+03	-.72376E+03	.00000E+00	147	.12150E+03	-.79850E+03	.00000E+00
148	.11891E+03	-.80109E+03	.00000E+00	149	-.21499E+03	-.11550E+04	.00000E+00	150	-.21069E+03	-.11507E+04	.00000E+00
151	-.93762E+03	-.18976E+04	.00000E+00	152	-.93095E+03	-.18909E+04	.00000E+00	153	-.10127E+04	-.19927E+04	.00000E+00
154	-.10124E+04	-.19924E+04	.00000E+00	155	-.99951E+03	-.19995E+04	.00000E+00	156	-.99950E+03	-.19995E+04	.00000E+00
157	-.97997E+03	-.20000E+04	.00000E+00	158	-.97997E+03	-.20000E+04	.00000E+00	159	-.96000E+03	-.20000E+04	.00000E+00
160	-.96000E+03	-.20000E+04	.00000E+00	161	-.94000E+03	-.20000E+04	.00000E+00	162	-.94000E+03	-.20000E+04	.00000E+00
163	-.92000E+03	-.20000E+04	.00000E+00	164	-.92000E+03	-.20000E+04	.00000E+00	165	-.90000E+03	-.20000E+04	.00000E+00
166	-.90000E+03	-.20000E+04	.00000E+00	167	-.88000E+03	-.20000E+04	.00000E+00	168	-.88000E+03	-.20000E+04	.00000E+00
169	-.86000E+03	-.20000E+04	.00000E+00	170	-.86000E+03	-.20000E+04	.00000E+00	171	-.84000E+03	-.20000E+04	.00000E+00
172	-.84000E+03	-.20000E+04	.00000E+00	173	-.82000E+03	-.20000E+04	.00000E+00	174	-.82000E+03	-.20000E+04	.00000E+00
175	-.80000E+03	-.20000E+04	.00000E+00	176	-.80000E+03	-.20000E+04	.00000E+00	177	-.78000E+03	-.20000E+04	.00000E+00
178	-.78000E+03	-.20000E+04	.00000E+00	179	-.76000E+03	-.20000E+04	.00000E+00	180	-.76000E+03	-.20000E+04	.00000E+00
181	-.74000E+03	-.20000E+04	.00000E+00	182	-.74000E+03	-.20000E+04	.00000E+00	183	-.72000E+03	-.20000E+04	.00000E+00
184	-.72000E+03	-.20000E+04	.00000E+00	185	-.70000E+03	-.20000E+04	.00000E+00	186	-.70000E+03	-.20000E+04	.00000E+00
187	-.68000E+03	-.20000E+04	.00000E+00	188	-.68000E+03	-.20000E+04	.00000E+00	189	-.66000E+03	-.20000E+04	.00000E+00
190	-.66000E+03	-.20000E+04	.00000E+00	191	-.64000E+03	-.20000E+04	.00000E+00	192	-.64000E+03	-.20000E+04	.00000E+00
193	-.62000E+03	-.20000E+04	.00000E+00	194	-.62000E+03	-.20000E+04	.00000E+00	195	-.60000E+03	-.20000E+04	.00000E+00
196	-.60000E+03	-.20000E+04	.00000E+00	197	-.58000E+03	-.20000E+04	.00000E+00	198	-.58000E+03	-.20000E+04	.00000E+00
199	-.56000E+03	-.20000E+04	.00000E+00	200	-.56000E+03	-.20000E+04	.00000E+00	201	-.54000E+03	-.20000E+04	.00000E+00
202	-.54000E+03	-.20000E+04	.00000E+00	203	-.52000E+03	-.20000E+04	.00000E+00	204	-.52000E+03	-.20000E+04	.00000E+00
205	-.50000E+03	-.20000E+04	.00000E+00	206	-.50000E+03	-.20000E+04	.00000E+00	207	-.48000E+03	-.20000E+04	.00000E+00
	-.48000E+03	-.20000E+04	.00000E+00	209	-.46000E+03	-.20000E+04	.00000E+00	210	-.46000E+03	-.20000E+04	.00000E+00
	-.44000E+03	-.20000E+04	.00000E+00	212	-.44000E+03	-.20000E+04	.00000E+00	213	-.42000E+03	-.20000E+04	.00000E+00
214	-.42000E+03	-.20000E+04	.00000E+00	215	-.40000E+03	-.20000E+04	.00000E+00	216	-.40000E+03	-.20000E+04	.00000E+00
217	-.37998E+03	-.20000E+04	.00000E+00	218	-.37998E+03	-.20000E+04	.00000E+00	219	-.35973E+03	-.19997E+04	.00000E+00
220	-.35974E+03	-.19997E+04	.00000E+00	221	-.33597E+03	-.19960E+04	.00000E+00	222	-.33626E+03	-.19963E+04	.00000E+00
223	-.25937E+03	-.19394E+04	.64800E-02	224	-.27000E+03	-.19500E+04	.64800E-02	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.12884E+00	2	.12884E+00	3	.12884E+00	4	.12884E+00	5	.12884E+00	6	.12884E+00
7	.12884E+00	8	.12884E+00	9	.12884E+00	10	.12884E+00	11	.12884E+00	12	.12884E+00
13	.12884E+00	14	.12884E+00	15	.12884E+00	16	.12884E+00	17	.12884E+00	18	.12884E+00
19	.12884E+00	20	.12884E+00	21	.12884E+00	22	.12884E+00	23	.12884E+00	24	.12884E+00
25	.12884E+00	26	.12884E+00	27	.12884E+00	28	.12884E+00	29	.12884E+00	30	.12884E+00
31	.12884E+00	32	.12884E+00	33	.12884E+00	34	.12884E+00	35	.12884E+00	36	.12884E+00
37	.12884E+00	38	.12884E+00	39	.12884E+00	40	.12884E+00	41	.12884E+00	42	.12884E+00
43	.12884E+00	44	.12884E+00	45	.12884E+00	46	.12884E+00	47	.12884E+00	48	.12884E+00
49	.12884E+00	50	.12884E+00	51	.12884E+00	52	.12884E+00	53	.12884E+00	54	.12884E+00
55	.12884E+00	56	.12884E+00	57	.12884E+00	58	.12884E+00	59	.12884E+00	60	.12884E+00
61	.12884E+00	62	.12884E+00	63	.12884E+00	64	.12884E+00	65	.12884E+00	66	.12884E+00
67	.12884E+00	68	.12884E+00	69	.12884E+00	70	.12884E+00	71	.12884E+00	72	.12884E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.12884E+00	72	.12884E+00	73	.12884E+00	74	.12884E+00	75	.12884E+00	76	.12884E+00
77	.12884E+00	78	.12884E+00	79	.12884E+00	80	.12884E+00	81	.12884E+00	82	.12884E+00
83	.12884E+00	84	.12884E+00	85	.12884E+00	86	.12884E+00	87	.12884E+00	88	.12884E+00
89	.12884E+00	90	.12884E+00	91	.12884E+00	92	.12884E+00	93	.12884E+00	94	.12884E+00
95	.12884E+00	96	.12884E+00	97	.12884E+00	98	.12884E+00	99	.12884E+00	100	.12884E+00
101	.12884E+00	102	.12884E+00	103	.12884E+00	104	.12884E+00	105	.12884E+00	106	.12884E+00
107	.12884E+00	108	.12884E+00	109	.12884E+00	110	.12884E+00	111	.12884E+00	112	.12884E+00
113	.12884E+00	114	.12884E+00	115	.12884E+00	116	.12884E+00	117	.12884E+00	118	.12884E+00
119	.12883E+00	120	.12883E+00	121	.12883E+00	122	.12883E+00	123	.12882E+00	124	.12882E+00
125	.12881E+00	126	.12881E+00	127	.12878E+00	128	.12878E+00	129	.12874E+00	130	.12874E+00
131	.12866E+00	132	.12866E+00	133	.12851E+00	134	.12851E+00	135	.12825E+00	136	.12825E+00
137	.12778E+00	138	.12778E+00	139	.12693E+00	140	.12693E+00	141	.12538E+00	142	.12538E+00
143	.12257E+00	144	.12257E+00	145	.11740E+00	146	.11738E+00	147	.10777E+00	148	.10747E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.95509E-01	148	.95239E-01	149	.70671E-01	150	.70869E-01	151	.51193E-01	152	.51292E-01
153	.49870E-01	154	.49873E-01	155	.49760E-01	156	.49780E-01	157	.49774E-01	158	.49774E-01
159	.49774E-01	160	.49774E-01	161	.49773E-01	162	.49773E-01	163	.49773E-01	164	.49773E-01
165	.49773E-01	166	.49773E-01	167	.49773E-01	168	.49773E-01	169	.49773E-01	170	.49773E-01
171	.49773E-01	172	.49773E-01	173	.49773E-01	174	.49773E-01	175	.49773E-01	176	.49773E-01
177	.49773E-01	178	.49773E-01	179	.49773E-01	180	.49773E-01	181	.49773E-01	182	.49773E-01
183	.49773E-01	184	.49773E-01	185	.49773E-01	186	.49773E-01	187	.49773E-01	188	.49773E-01
189	.49773E-01	190	.49773E-01	191	.49773E-01	192	.49773E-01	193	.49773E-01	194	.49773E-01
195	.49773E-01	196	.49773E-01	197	.49773E-01	198	.49773E-01	199	.49773E-01	200	.49773E-01
201	.49773E-01	202	.49773E-01	203	.49773E-01	204	.49773E-01	205	.49773E-01	206	.49773E-01
207	.49773E-01	208	.49773E-01	209	.49773E-01	210	.49773E-01	211	.49773E-01	212	.49773E-01
213	.49773E-01	214	.49773E-01	215	.49774E-01	216	.49774E-01	217	.49774E-01	218	.49774E-01
219	.49777E-01	220	.49777E-01	221	.49826E-01	222	.49822E-01	223	.50593E-01	224	.50445E-01

GREEN RIVER: 1) GRN542@93% 2) GRN535@95% 3) GRN535@95%; 2.0E-08cm/s cover flux

TIME = 67857.5900 TIME STEP = 150

M M CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .22095E-01 AT NODE 139

CUMULATIVE INFLOW INTO SYSTEM IS = .87943E+03
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.10031E+04
CUMULATIVE CHANGE IN SYSTEM IS = -.12368E+03

D NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.65000E+03	-.65000E+03	-.64189E-02	2	-.65000E+03	-.65000E+03	-.64900E-02	3	-.64975E+03	-.65475E+03	.00000E+00
4	-.64975E+03	-.65475E+03	.00000E+00	5	-.64948E+03	-.65948E+03	.00000E+00	6	-.64948E+03	-.65948E+03	.00000E+00
7	-.64921E+03	-.66421E+03	.00000E+00	8	-.64921E+03	-.66421E+03	.00000E+00	9	-.64893E+03	-.66893E+03	.00000E+00
10	-.64893E+03	-.66893E+03	.00000E+00	11	-.64864E+03	-.67364E+03	.00000E+00	12	-.64864E+03	-.67364E+03	.00000E+00
13	-.64834E+03	-.67834E+03	.00000E+00	14	-.64834E+03	-.67834E+03	.00000E+00	15	-.64803E+03	-.68303E+03	.00000E+00
16	-.64803E+03	-.68303E+03	.00000E+00	17	-.64772E+03	-.68772E+03	.00000E+00	18	-.64771E+03	-.68771E+03	.00000E+00
19	-.64739E+03	-.69239E+03	.00000E+00	20	-.64739E+03	-.69239E+03	.00000E+00	21	-.64705E+03	-.69705E+03	.00000E+00
22	-.64705E+03	-.69705E+03	.00000E+00	23	-.64670E+03	-.70170E+03	.00000E+00	24	-.64670E+03	-.70170E+03	.00000E+00
25	-.64634E+03	-.70634E+03	.00000E+00	26	-.64634E+03	-.70634E+03	.00000E+00	27	-.64596E+03	-.71096E+03	.00000E+00
28	-.64596E+03	-.71096E+03	.00000E+00	29	-.64558E+03	-.71558E+03	.00000E+00	30	-.64558E+03	-.71558E+03	.00000E+00
31	-.64519E+03	-.72019E+03	.00000E+00	32	-.64519E+03	-.72019E+03	.00000E+00	33	-.64478E+03	-.72478E+03	.00000E+00
34	-.64478E+03	-.72478E+03	.00000E+00	35	-.64436E+03	-.72936E+03	.00000E+00	36	-.64436E+03	-.72936E+03	.00000E+00
	-.64393E+03	-.73393E+03	.00000E+00	38	-.64393E+03	-.73393E+03	.00000E+00	39	-.64348E+03	-.73849E+03	.00000E+00
	-.64349E+03	-.73849E+03	.00000E+00	41	-.64303E+03	-.74303E+03	.00000E+00	42	-.64303E+03	-.74303E+03	.00000E+00
43	-.64256E+03	-.74756E+03	.00000E+00	44	-.64256E+03	-.74756E+03	.00000E+00	45	-.64207E+03	-.75207E+03	.00000E+00
46	-.64207E+03	-.75207E+03	.00000E+00	47	-.64158E+03	-.75658E+03	.00000E+00	48	-.64158E+03	-.75658E+03	.00000E+00
49	-.64107E+03	-.76107E+03	.00000E+00	50	-.64107E+03	-.76107E+03	.00000E+00	51	-.64054E+03	-.76554E+03	.00000E+00
52	-.64054E+03	-.76554E+03	.00000E+00	53	-.64000E+03	-.77000E+03	.00000E+00	54	-.64000E+03	-.77000E+03	.00000E+00
55	-.63944E+03	-.77444E+03	.00000E+00	56	-.63944E+03	-.77444E+03	.00000E+00	57	-.63887E+03	-.77887E+03	.00000E+00
58	-.63887E+03	-.77887E+03	.00000E+00	59	-.63829E+03	-.78329E+03	.00000E+00	60	-.63829E+03	-.78329E+03	.00000E+00
61	-.63769E+03	-.78769E+03	.00000E+00	62	-.63769E+03	-.78769E+03	.00000E+00	63	-.63707E+03	-.79207E+03	.00000E+00
64	-.63707E+03	-.79207E+03	.00000E+00	65	-.63643E+03	-.79643E+03	.00000E+00	66	-.63643E+03	-.79643E+03	.00000E+00
67	-.63578E+03	-.80078E+03	.00000E+00	68	-.63578E+03	-.80078E+03	.00000E+00	69	-.63511E+03	-.80511E+03	.00000E+00
70	-.63511E+03	-.80511E+03	.00000E+00	71	-.63443E+03	-.80943E+03	.00000E+00	72	-.63443E+03	-.80943E+03	.00000E+00
73	-.63373E+03	-.81373E+03	.00000E+00	74	-.63372E+03	-.81372E+03	.00000E+00	75	-.63074E+03	-.83074E+03	.00000E+00
76	-.63074E+03	-.83074E+03	.00000E+00	77	-.62744E+03	-.84744E+03	.00000E+00	78	-.62744E+03	-.84744E+03	.00000E+00
79	-.62383E+03	-.86383E+03	.00000E+00	80	-.62363E+03	-.86383E+03	.00000E+00	81	-.61987E+03	-.87987E+03	.00000E+00
82	-.61987E+03	-.87987E+03	.00000E+00	83	-.61556E+03	-.89556E+03	.00000E+00	84	-.61556E+03	-.89556E+03	.00000E+00
85	-.61087E+03	-.91087E+03	.00000E+00	86	-.61087E+03	-.91087E+03	.00000E+00	87	-.60579E+03	-.92579E+03	.00000E+00
88	-.60579E+03	-.92579E+03	.00000E+00	89	-.60030E+03	-.94030E+03	.00000E+00	90	-.60030E+03	-.94030E+03	.00000E+00
91	-.59440E+03	-.95440E+03	.00000E+00	92	-.59440E+03	-.95440E+03	.00000E+00	93	-.58806E+03	-.96806E+03	.00000E+00
94	-.58806E+03	-.96806E+03	.00000E+00	95	-.58129E+03	-.98129E+03	.00000E+00	96	-.58129E+03	-.98129E+03	.00000E+00
97	-.57405E+03	-.99405E+03	.00000E+00	98	-.57405E+03	-.99405E+03	.00000E+00	99	-.56636E+03	-.10064E+04	.00000E+00
100	-.56636E+03	-.10064E+04	.00000E+00	101	-.55821E+03	-.10162E+04	.00000E+00	102	-.55821E+03	-.10162E+04	.00000E+00
103	-.54958E+03	-.10296E+04	.00000E+00	104	-.54958E+03	-.10296E+04	.00000E+00	105	-.54049E+03	-.10405E+04	.00000E+00
106	-.54049E+03	-.10405E+04	.00000E+00	107	-.53093E+03	-.10509E+04	.00000E+00	108	-.53093E+03	-.10509E+04	.00000E+00
109	-.52090E+03	-.10609E+04	.00000E+00	110	-.52090E+03	-.10609E+04	.00000E+00	111	-.51041E+03	-.10704E+04	.00000E+00
	-.51041E+03	-.10704E+04	.00000E+00	113	-.49947E+03	-.10795E+04	.00000E+00	114	-.49947E+03	-.10795E+04	.00000E+00
	-.48807E+03	-.10881E+04	.00000E+00	116	-.48807E+03	-.10881E+04	.00000E+00	117	-.47624E+03	-.10962E+04	.00000E+00
118	-.47624E+03	-.10962E+04	.00000E+00	119	-.46397E+03	-.11040E+04	.00000E+00	120	-.46397E+03	-.11040E+04	.00000E+00
121	-.45128E+03	-.11113E+04	.00000E+00	122	-.45128E+03	-.11113E+04	.00000E+00	123	-.43819E+03	-.11182E+04	.00000E+00
124	-.43819E+03	-.11182E+04	.00000E+00	125	-.42471E+03	-.11247E+04	.00000E+00	126	-.42471E+03	-.11247E+04	.00000E+00
127	-.41084E+03	-.11308E+04	.00000E+00	128	-.41084E+03	-.11308E+04	.00000E+00	129	-.39661E+03	-.11366E+04	.00000E+00

130	-.39661E+03	-.11366E+04	.00000E+00	131	-.38203E+03	-.11420E+04	.00000E+00	132	-.38203E+03	-.11420E+04	.00000E+00
133	-.36712E+03	-.11471E+04	.00000E+00	134	-.36712E+03	-.11471E+04	.00000E+00	135	-.35188E+03	-.11519E+04	.00000E+00
136	-.35188E+03	-.11519E+04	.00000E+00	137	-.33634E+03	-.11563E+04	.00000E+00	138	-.33634E+03	-.11563E+04	.00000E+00
139	-.32051E+03	-.11605E+04	.00000E+00	140	-.32051E+03	-.11605E+04	.00000E+00	141	-.30441E+03	-.11644E+04	.00000E+00
142	-.30441E+03	-.11644E+04	.00000E+00	143	-.28805E+03	-.11680E+04	.00000E+00	144	-.28805E+03	-.11680E+04	.00000E+00
145	-.27144E+03	-.11714E+04	.00000E+00	146	-.27144E+03	-.11714E+04	.00000E+00	147	-.25460E+03	-.11746E+04	[illegible]
148	-.25460E+03	-.11746E+04	.00000E+00	149	-.22911E+03	-.11691E+04	.00000E+00	150	-.22910E+03	-.11691E+04	[illegible]
151	-.20420E+03	-.11642E+04	.00000E+00	152	-.20420E+03	-.11642E+04	.00000E+00	153	-.17980E+03	-.11598E+04	.00000E+00
154	-.17980E+03	-.11598E+04	.00000E+00	155	-.15587E+03	-.11559E+04	.00000E+00	156	-.15587E+03	-.11559E+04	.00000E+00
157	-.13233E+03	-.11523E+04	.00000E+00	158	-.13233E+03	-.11523E+04	.00000E+00	159	-.10915E+03	-.11491E+04	.00000E+00
160	-.10915E+03	-.11491E+04	.00000E+00	161	-.86287E+02	-.11463E+04	.00000E+00	162	-.86286E+02	-.11463E+04	.00000E+00
163	-.63706E+02	-.11437E+04	.00000E+00	164	-.63706E+02	-.11437E+04	.00000E+00	165	-.41378E+02	-.11414E+04	.00000E+00
166	-.41378E+02	-.11414E+04	.00000E+00	167	-.19275E+02	-.11393E+04	.00000E+00	168	-.19275E+02	-.11393E+04	.00000E+00
169	.26256E+01	-.11374E+04	.00000E+00	170	.26259E+01	-.11374E+04	.00000E+00	171	.24344E+02	-.11357E+04	.00000E+00
172	.24344E+02	-.11357E+04	.00000E+00	173	.45900E+02	-.11341E+04	.00000E+00	174	.45900E+02	-.11341E+04	.00000E+00
175	.67309E+02	-.11327E+04	.00000E+00	176	.67309E+02	-.11327E+04	.00000E+00	177	.88584E+02	-.11314E+04	.00000E+00
178	.88584E+02	-.11314E+04	.00000E+00	179	.10974E+03	-.11303E+04	.00000E+00	180	.10974E+03	-.11303E+04	.00000E+00
181	.13079E+03	-.11292E+04	.00000E+00	182	.13079E+03	-.11292E+04	.00000E+00	183	.15174E+03	-.11283E+04	.00000E+00
184	.15174E+03	-.11283E+04	.00000E+00	185	.17260E+03	-.11274E+04	.00000E+00	186	.17260E+03	-.11274E+04	.00000E+00
187	.19338E+03	-.11266E+04	.00000E+00	188	.19339E+03	-.11266E+04	.00000E+00	189	.21410E+03	-.11259E+04	.00000E+00
190	.21410E+03	-.11259E+04	.00000E+00	191	.23474E+03	-.11253E+04	.00000E+00	192	.23474E+03	-.11253E+04	.00000E+00
193	.25533E+03	-.11247E+04	.00000E+00	194	.25533E+03	-.11247E+04	.00000E+00	195	.27587E+03	-.11241E+04	.00000E+00
196	.27587E+03	-.11241E+04	.00000E+00	197	.29635E+03	-.11237E+04	.00000E+00	198	.29635E+03	-.11237E+04	.00000E+00
199	.31679E+03	-.11232E+04	.00000E+00	200	.31679E+03	-.11232E+04	.00000E+00	201	.33719E+03	-.11228E+04	.00000E+00
202	.33719E+03	-.11228E+04	.00000E+00	203	.35755E+03	-.11224E+04	.00000E+00	204	.35755E+03	-.11224E+04	.00000E+00
205	.37788E+03	-.11221E+04	.00000E+00	206	.37788E+03	-.11221E+04	.00000E+00	207	.39818E+03	-.11218E+04	.00000E+00
208	.39818E+03	-.11218E+04	.00000E+00	209	.41846E+03	-.11215E+04	.00000E+00	210	.41846E+03	-.11215E+04	.00000E+00
211	.43870E+03	-.11213E+04	.00000E+00	212	.43870E+03	-.11213E+04	.00000E+00	213	.45893E+03	-.11211E+04	.00000E+00
214	.45893E+03	-.11211E+04	.00000E+00	215	.47914E+03	-.11209E+04	.00000E+00	216	.47914E+03	-.11209E+04	.00000E+00
217	.49932E+03	-.11207E+04	.00000E+00	218	.49932E+03	-.11207E+04	.00000E+00	219	.51949E+03	-.11205E+04	.00000E+00
220	.51949E+03	-.11205E+04	.00000E+00	221	.53965E+03	-.11204E+04	.00000E+00	222	.53965E+03	-.11204E+04	.00000E+00
223	.55979E+03	-.11202E+04	.64800E-02	224	.55979E+03	-.11202E+04	.64800E-02	0	.00000E+00	.00000E+00	[illegible]

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.12884E+00	2	.12884E+00	3	.12803E+00	4	.12803E+00	5	.12724E+00	6	.12724E+00
7	.12645E+00	8	.12645E+00	9	.12568E+00	10	.12568E+00	11	.12492E+00	12	.12492E+00
13	.12417E+00	14	.12417E+00	15	.12343E+00	16	.12343E+00	17	.12270E+00	18	.12270E+00
19	.12198E+00	20	.12198E+00	21	.12128E+00	22	.12128E+00	23	.12058E+00	24	.12058E+00
25	.11989E+00	26	.11989E+00	27	.11921E+00	28	.11921E+00	29	.11854E+00	30	.11854E+00
31	.11789E+00	32	.11789E+00	33	.11724E+00	34	.11724E+00	35	.11660E+00	36	.11660E+00
37	.11596E+00	38	.11596E+00	39	.11534E+00	40	.11534E+00	41	.11473E+00	42	.11473E+00
43	.11412E+00	44	.11412E+00	45	.11353E+00	46	.11353E+00	47	.11294E+00	48	.11294E+00
49	.11236E+00	50	.11236E+00	51	.11179E+00	52	.11179E+00	53	.11123E+00	54	.11123E+00
55	.11067E+00	56	.11067E+00	57	.11012E+00	58	.11012E+00	59	.10958E+00	60	.10958E+00
61	.10905E+00	62	.10905E+00	63	.10853E+00	64	.10853E+00	65	.10801E+00	66	.10801E+00
67	.10750E+00	68	.10750E+00	69	.10700E+00	70	.10700E+00	71	.10650E+00	72	.10650E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.10650E+00	72	.10650E+00	73	.10602E+00	74	.10602E+00	75	.10413E+00	76	.10413E+00
77	.10235E+00	78	.10235E+00	79	.10067E+00	80	.10067E+00	81	.99089E-01	82	.99089E-01
83	.97593E-01	84	.97593E-01	85	.96183E-01	86	.96183E-01	87	.94853E-01	88	.94853E-01
89	.93601E-01	90	.93601E-01	91	.92421E-01	92	.92421E-01	93	.91310E-01	94	.91310E-01
95	.90265E-01	96	.90265E-01	97	.89283E-01	98	.89283E-01	99	.88360E-01	100	.88360E-01
101	.87493E-01	102	.87493E-01	103	.86680E-01	104	.86680E-01	105	.85917E-01	106	.85917E-01
107	.85203E-01	108	.85203E-01	109	.84534E-01	110	.84534E-01	111	.83908E-01	112	.83908E-01

113	.83322E-01	114	.83322E-01	115	.82775E-01	116	.82775E-01	117	.82264E-01	118	.82264E-01
119	.81788E-01	120	.81788E-01	121	.81343E-01	122	.81343E-01	123	.80929E-01	124	.80929E-01
125	.80543E-01	126	.80543E-01	127	.80184E-01	128	.80184E-01	129	.79850E-01	130	.79850E-01
131	.79540E-01	132	.79540E-01	133	.79251E-01	134	.79251E-01	135	.78984E-01	136	.78983E-01
137	.78735E-01	138	.78735E-01	139	.78504E-01	140	.78504E-01	141	.78290E-01	142	.78290E-01
	.78092E-01	144	.78092E-01	145	.77908E-01	146	.77908E-01	147	.77738E-01	148	.77737E-01
	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.69787E-01	148	.69787E-01	149	.70031E-01	150	.70031E-01	151	.70252E-01	152	.70252E-01
153	.70451E-01	154	.70451E-01	155	.70630E-01	156	.70630E-01	157	.70793E-01	158	.70793E-01
159	.70940E-01	160	.70940E-01	161	.71074E-01	162	.71074E-01	163	.71194E-01	164	.71194E-01
165	.71304E-01	166	.71304E-01	167	.71403E-01	168	.71403E-01	169	.71494E-01	170	.71494E-01
171	.71575E-01	172	.71575E-01	173	.71650E-01	174	.71650E-01	175	.71717E-01	176	.71717E-01
177	.71779E-01	178	.71779E-01	179	.71834E-01	180	.71834E-01	181	.71885E-01	182	.71885E-01
183	.71931E-01	184	.71931E-01	185	.71973E-01	186	.71973E-01	187	.72011E-01	188	.72011E-01
189	.72045E-01	190	.72045E-01	191	.72077E-01	192	.72077E-01	193	.72105E-01	194	.72105E-01
195	.72131E-01	196	.72131E-01	197	.72155E-01	198	.72155E-01	199	.72177E-01	200	.72177E-01
201	.72196E-01	202	.72196E-01	203	.72214E-01	204	.72214E-01	205	.72230E-01	206	.72230E-01
207	.72245E-01	208	.72245E-01	209	.72258E-01	210	.72258E-01	211	.72270E-01	212	.72270E-01
213	.72281E-01	214	.72281E-01	215	.72292E-01	216	.72292E-01	217	.72301E-01	218	.72301E-01
219	.72309E-01	220	.72309E-01	221	.72317E-01	222	.72317E-01	223	.72324E-01	224	.72324E-01

GREEN RIVER: 1) GRN542@93% 2) GRN535@95% 3) GRN535@95%; 2.0E-08cm/s cover flux

TIME = 142857.6000 TIME STEP = 300

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .28564E-01 AT NODE 224

CUMULATIVE INFLOW INTO SYSTEM IS = .18514E+04
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.19709E+04
CUMULATIVE CHANGE IN SYSTEM IS = -.11946E+03

D NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.65000E+03	-.65000E+03	-.64089E-02	2	-.65000E+03	-.65000E+03	-.64858E-02	3	-.64975E+03	-.65475E+03	.00000E+00
4	-.64975E+03	-.65475E+03	.00000E+00	5	-.64948E+03	-.65948E+03	.00000E+00	6	-.64948E+03	-.65948E+03	.00000E+00
7	-.64921E+03	-.66421E+03	.00000E+00	8	-.64921E+03	-.66421E+03	.00000E+00	9	-.64893E+03	-.66893E+03	.00000E+00
10	-.64893E+03	-.66893E+03	.00000E+00	11	-.64864E+03	-.67364E+03	.00000E+00	12	-.64864E+03	-.67364E+03	.00000E+00
13	-.64834E+03	-.67834E+03	.00000E+00	14	-.64834E+03	-.67834E+03	.00000E+00	15	-.64803E+03	-.68303E+03	.00000E+00
	-.64803E+03	-.68303E+03	.00000E+00	17	-.64772E+03	-.68772E+03	.00000E+00	18	-.64772E+03	-.68772E+03	.00000E+00
	-.64739E+03	-.69239E+03	.00000E+00	20	-.64739E+03	-.69239E+03	.00000E+00	21	-.64705E+03	-.69705E+03	.00000E+00
22	-.64705E+03	-.69705E+03	.00000E+00	23	-.64670E+03	-.70170E+03	.00000E+00	24	-.64670E+03	-.70170E+03	.00000E+00
25	-.64634E+03	-.70634E+03	.00000E+00	26	-.64634E+03	-.70634E+03	.00000E+00	27	-.64597E+03	-.71097E+03	.00000E+00
28	-.64597E+03	-.71097E+03	.00000E+00	29	-.64558E+03	-.71558E+03	.00000E+00	30	-.64558E+03	-.71558E+03	.00000E+00
31	-.64519E+03	-.72019E+03	.00000E+00	32	-.64519E+03	-.72019E+03	.00000E+00	33	-.64478E+03	-.72478E+03	.00000E+00

34	-.64478E+03	-.72478E+03	.00000E+00	35	-.64436E+03	-.72936E+03	.00000E+00	36	-.64436E+03	-.72936E+03	.00000E-00
37	-.64393E+03	-.73393E+03	.00000E+00	38	-.64393E+03	-.73393E+03	.00000E+00	39	-.64349E+03	-.73849E+03	.00000E-00
40	-.64349E+03	-.73849E+03	.00000E+00	41	-.64303E+03	-.74303E+03	.00000E+00	42	-.64303E+03	-.74303E+03	.00000E+00
43	-.64256E+03	-.74756E+03	.00000E+00	44	-.64256E+03	-.74756E+03	.00000E+00	45	-.64208E+03	-.75208E+03	.00000E+00
46	-.64208E+03	-.75208E+03	.00000E+00	47	-.64158E+03	-.75658E+03	.00000E+00	48	-.64158E+03	-.75658E+03	.00000E+00
49	-.64107E+03	-.76107E+03	.00000E+00	50	-.64107E+03	-.76107E+03	.00000E+00	51	-.64054E+03	-.76554E+03	[illegible]+00
52	-.64054E+03	-.76554E+03	.00000E+00	53	-.64000E+03	-.77000E+03	.00000E+00	54	-.64000E+03	-.77000E+03	[illegible]+00
55	-.63944E+03	-.77444E+03	.00000E+00	56	-.63944E+03	-.77444E+03	.00000E+00	57	-.63887E+03	-.77887E+03	.00000E+00
58	-.63887E+03	-.77887E+03	.00000E+00	59	-.63829E+03	-.78329E+03	.00000E+00	60	-.63829E+03	-.78329E+03	.00000E+00
61	-.63768E+03	-.78768E+03	.00000E+00	62	-.63768E+03	-.78768E+03	.00000E+00	63	-.63707E+03	-.79207E+03	.00000E-00
64	-.63707E+03	-.79207E+03	.00000E+00	65	-.63643E+03	-.79643E+03	.00000E+00	66	-.63643E+03	-.79643E+03	.00000E-00
67	-.63578E+03	-.80076E+03	.00000E+00	68	-.63578E+03	-.80078E+03	.00000E+00	69	-.63511E+03	-.80511E+03	.00000E+00
70	-.63511E+03	-.80511E+03	.00000E+00	71	-.63443E+03	-.80943E+03	.00000E+00	72	-.63443E+03	-.80943E+03	.00000E+00
73	-.63373E+03	-.81373E+03	.00000E+00	74	-.63372E+03	-.81372E+03	.00000E+00	75	-.63074E+03	-.83074E+03	.00000E+00
76	-.63074E+03	-.83074E+03	.00000E+00	77	-.62744E+03	-.84744E+03	.00000E+00	78	-.62744E+03	-.84744E+03	.00000E+00
79	-.62383E+03	-.86383E+03	.00000E+00	80	-.62383E+03	-.86383E+03	.00000E+00	81	-.61988E+03	-.87988E+03	.00000E+00
82	-.61988E+03	-.87988E+03	.00000E+00	83	-.61556E+03	-.89556E+03	.00000E+00	84	-.61556E+03	-.89556E+03	.00000E+00
85	-.61088E+03	-.91088E+03	.00000E+00	86	-.61088E+03	-.91088E+03	.00000E+00	87	-.60580E+03	-.92580E+03	.00000E+00
88	-.60580E+03	-.92580E+03	.00000E+00	89	-.60031E+03	-.94031E+03	.00000E+00	90	-.60031E+03	-.94031E+03	.00000E+00
91	-.59440E+03	-.95440E+03	.00000E+00	92	-.59440E+03	-.95440E+03	.00000E+00	93	-.58807E+03	-.96807E+03	.00000E+00
94	-.58807E+03	-.96807E+03	.00000E+00	95	-.58129E+03	-.98129E+03	.00000E+00	96	-.58129E+03	-.98129E+03	.00000E+00
97	-.57406E+03	-.99406E+03	.00000E+00	98	-.57406E+03	-.99406E+03	.00000E+00	99	-.56637E+03	-.10064E+04	.00000E+00
100	-.56637E+03	-.10064E+04	.00000E+00	101	-.55821E+03	-.10182E+04	.00000E+00	102	-.55821E+03	-.10182E+04	.00000E+00
103	-.54959E+03	-.10296E+04	.00000E+00	104	-.54959E+03	-.10296E+04	.00000E+00	105	-.54050E+03	-.10405E+04	.00000E+00
106	-.54050E+03	-.10405E+04	.00000E+00	107	-.53094E+03	-.10509E+04	.00000E+00	108	-.53094E+03	-.10509E+04	.00000E+00
109	-.52092E+03	-.10609E+04	.00000E+00	110	-.52092E+03	-.10609E+04	.00000E+00	111	-.51043E+03	-.10704E+04	.00000E+00
112	-.51043E+03	-.10704E+04	.00000E+00	113	-.49949E+03	-.10795E+04	.00000E+00	114	-.49949E+03	-.10795E+04	.00000E+00
115	-.48809E+03	-.10881E+04	.00000E+00	116	-.48809E+03	-.10881E+04	.00000E+00	117	-.47625E+03	-.10963E+04	.00000E+00
118	-.47625E+03	-.10963E+04	.00000E+00	119	-.46399E+03	-.11040E+04	.00000E+00	120	-.46399E+03	-.11040E+04	.00000E+00
121	-.45130E+03	-.11113E+04	.00000E+00	122	-.45130E+03	-.11113E+04	.00000E+00	123	-.43821E+03	-.11182E+04	.00000E+00
124	-.43822E+03	-.11182E+04	.00000E+00	125	-.42473E+03	-.11247E+04	.00000E+00	126	-.42473E+03	-.11247E+04	.00000E+00
127	-.41087E+03	-.11309E+04	.00000E+00	128	-.41087E+03	-.11309E+04	.00000E+00	129	-.39664E+03	-.11366E+04	[illegible]+00
130	-.39664E+03	-.11366E+04	.00000E+00	131	-.38206E+03	-.11421E+04	.00000E+00	132	-.38206E+03	-.11421E+04	[illegible]E+00
133	-.36714E+03	-.11471E+04	.00000E+00	134	-.36714E+03	-.11471E+04	.00000E+00	135	-.35191E+03	-.11519E+04	.00000E+00
136	-.35191E+03	-.11519E+04	.00000E+00	137	-.33637E+03	-.11564E+04	.00000E+00	138	-.33637E+03	-.11564E+04	.00000E+00
139	-.32054E+03	-.11605E+04	.00000E+00	140	-.32054E+03	-.11605E+04	.00000E+00	141	-.30444E+03	-.11644E+04	.00000E+00
142	-.30444E+03	-.11644E+04	.00000E+00	143	-.28807E+03	-.11681E+04	.00000E+00	144	-.28807E+03	-.11681E+04	.00000E+00
145	-.27146E+03	-.11715E+04	.00000E+00	146	-.27146E+03	-.11715E+04	.00000E+00	147	-.25462E+03	-.11746E+04	.00000E+00
148	-.25463E+03	-.11746E+04	.00000E+00	149	-.22912E+03	-.11691E+04	.00000E+00	150	-.22912E+03	-.11691E+04	.00000E+00
151	-.20421E+03	-.11642E+04	.00000E+00	152	-.20421E+03	-.11642E+04	.00000E+00	153	-.17981E+03	-.11598E+04	.00000E+00
154	-.17981E+03	-.11598E+04	.00000E+00	155	-.15587E+03	-.11559E+04	.00000E+00	156	-.15587E+03	-.11559E+04	.00000E+00
157	-.13233E+03	-.11523E+04	.00000E+00	158	-.13233E+03	-.11523E+04	.00000E+00	159	-.10915E+03	-.11491E+04	.00000E+00
160	-.10915E+03	-.11491E+04	.00000E+00	161	-.86281E+02	-.11463E+04	.00000E+00	162	-.86281E+02	-.11463E+04	.00000E+00
163	-.63699E+02	-.11437E+04	.00000E+00	164	-.63699E+02	-.11437E+04	.00000E+00	165	-.41369E+02	-.11414E+04	.00000E+00
166	-.41369E+02	-.11414E+04	.00000E+00	167	-.19265E+02	-.11393E+04	.00000E+00	168	-.19265E+02	-.11393E+04	.00000E+00
169	.26368E+01	-.11374E+04	.00000E+00	170	.26370E+01	-.11374E+04	.00000E+00	171	.24358E+02	-.11356E+04	.00000E+00
172	.24358E+02	-.11356E+04	.00000E+00	173	.45915E+02	-.11341E+04	.00000E+00	174	.45915E+02	-.11341E+04	.00000E+00
175	.67324E+02	-.11327E+04	.00000E+00	176	.67325E+02	-.11327E+04	.00000E+00	177	.88602E+02	-.11314E+04	.00000E+00
178	.88602E+02	-.11314E+04	.00000E+00	179	.10976E+03	-.11302E+04	.00000E+00	180	.10976E+03	-.11302E+04	.00000E+00
181	.13081E+03	-.11292E+04	.00000E+00	182	.13081E+03	-.11292E+04	.00000E+00	183	.15177E+03	-.11282E+04	.00000E+00
184	.15177E+03	-.11282E+04	.00000E+00	185	.17263E+03	-.11274E+04	.00000E+00	186	.17263E+03	-.11274E+04	.00000E+00
187	.19342E+03	-.11266E+04	.00000E+00	188	.19342E+03	-.11266E+04	.00000E+00	189	.21413E+03	-.11259E+04	.00000E+00
190	.21413E+03	-.11259E+04	.00000E+00	191	.23477E+03	-.11252E+04	.00000E+00	192	.23477E+03	-.11252E+04	.00000E+00
193	.25536E+03	-.11246E+04	.00000E+00	194	.25536E+03	-.11246E+04	.00000E+00	195	.27589E+03	-.11241E+04	.00000E+00
196	.27589E+03	-.11241E+04	.00000E+00	197	.29637E+03	-.11236E+04	.00000E+00	198	.29637E+03	-.11236E+04	.00000E+00
199	.31681E+03	-.11232E+04	.00000E+00	200	.31681E+03	-.11232E+04	.00000E+00	201	.33722E+03	-.11228E+04	[illegible]0E+0
202	.33722E+03	-.11228E+04	.00000E+00	203	.35758E+03	-.11224E+04	.00000E+00	204	.35758E+03	-.11224E+04	[illegible]E+0
205	.37791E+03	-.11221E+04	.00000E+00	206	.37791E+03	-.11221E+04	.00000E+00	207	.39821E+03	-.11218E+04	[illegible]E+0
208	.39821E+03	-.11218E+04	.00000E+00	209	.41848E+03	-.11215E+04	.00000E+00	210	.41848E+03	-.11215E+04	.00000E+0
211	.43873E+03	-.11213E+04	.00000E+00	212	.43873E+03	-.11213E+04	.00000E+00	213	.45895E+03	-.11210E+04	.00000E+0
214	.45895E+03	-.11210E+04	.00000E+00	215	.47915E+03	-.11208E+04	.00000E+00	216	.47915E+03	-.11208E+04	.00000E+0
217	.49934E+03	-.11207E+04	.00000E+00	218	.49934E+03	-.11207E+04	.00000E+00	219	.51951E+03	-.11205E+04	.00000E+0

220	.51951E+03	-.11205E+04	.00000E+00	221	.53966E+03	-.11203E+04	.00000E+00	222	.53967E+03	-.11203E+04	.00000E+00
223	.55961E+03	-.11202E+04	.64800E-02	224	.55981E+03	-.11202E+04	.64800E-02	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.12884E+00	2	.12884E+00	3	.12803E+00	4	.12803E+00	5	.12724E+00	6	.12724E+00
7	.12645E+00	8	.12645E+00	9	.12568E+00	10	.12568E+00	11	.12492E+00	12	.12492E+00
13	.12417E+00	14	.12417E+00	15	.12343E+00	16	.12343E+00	17	.12270E+00	18	.12270E+00
19	.12198E+00	20	.12198E+00	21	.12128E+00	22	.12128E+00	23	.12058E+00	24	.12058E+00
25	.11989E+00	26	.11989E+00	27	.11921E+00	28	.11921E+00	29	.11854E+00	30	.11854E+00
31	.11789E+00	32	.11789E+00	33	.11724E+00	34	.11724E+00	35	.11660E+00	36	.11660E+00
37	.11596E+00	38	.11596E+00	39	.11534E+00	40	.11534E+00	41	.11473E+00	42	.11473E+00
43	.11412E+00	44	.11412E+00	45	.11353E+00	46	.11353E+00	47	.11294E+00	48	.11294E+00
49	.11236E+00	50	.11236E+00	51	.11179E+00	52	.11179E+00	53	.11123E+00	54	.11123E+00
55	.11067E+00	56	.11067E+00	57	.11012E+00	58	.11012E+00	59	.10958E+00	60	.10958E+00
61	.10905E+00	62	.10905E+00	63	.10853E+00	64	.10853E+00	65	.10801E+00	66	.10801E+00
67	.10750E+00	68	.10750E+00	69	.10700E+00	70	.10700E+00	71	.10650E+00	72	.10650E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.10650E+00	72	.10650E+00	73	.10602E+00	74	.10602E+00	75	.10413E+00	76	.10413E+00
77	.10235E+00	78	.10235E+00	79	.10067E+00	80	.10067E+00	81	.99088E-01	82	.99088E-01
83	.97593E-01	84	.97593E-01	85	.96182E-01	86	.96182E-01	87	.94853E-01	88	.94853E-01
89	.93600E-01	90	.93600E-01	91	.92420E-01	92	.92420E-01	93	.91310E-01	94	.91309E-01
95	.90265E-01	96	.90265E-01	97	.89282E-01	98	.89282E-01	99	.88359E-01	100	.88359E-01
101	.87493E-01	102	.87493E-01	103	.86679E-01	104	.86679E-01	105	.85917E-01	106	.85917E-01
107	.85202E-01	108	.85202E-01	109	.84533E-01	110	.84533E-01	111	.83906E-01	112	.83906E-01
[illegible]	.83321E-01	114	.83321E-01	115	.82774E-01	116	.82774E-01	117	.82263E-01	118	.82263E-01
119	.81787E-01	120	.81787E-01	121	.81342E-01	122	.81342E-01	123	.80926E-01	124	.80928E-01
125	.80542E-01	126	.80542E-01	127	.80183E-01	128	.80183E-01	129	.79849E-01	130	.79849E-01
131	.79538E-01	132	.79538E-01	133	.79250E-01	134	.79250E-01	135	.78982E-01	136	.78982E-01
137	.78733E-01	138	.78733E-01	139	.78502E-01	140	.78502E-01	141	.78288E-01	142	.78288E-01
143	.78090E-01	144	.78090E-01	145	.77906E-01	146	.77906E-01	147	.77736E-01	148	.77736E-01
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.69786E-01	148	.69786E-01	149	.70031E-01	150	.70031E-01	151	.70251E-01	152	.70251E-01
153	.70450E-01	154	.70450E-01	155	.70630E-01	156	.70630E-01	157	.70793E-01	158	.70793E-01
159	.70940E-01	160	.70940E-01	161	.71074E-01	162	.71074E-01	163	.71195E-01	164	.71195E-01
165	.71304E-01	166	.71304E-01	167	.71404E-01	168	.71404E-01	169	.71494E-01	170	.71494E-01
171	.71576E-01	172	.71576E-01	173	.71650E-01	174	.71650E-01	175	.71718E-01	176	.71718E-01
177	.71779E-01	178	.71779E-01	179	.71835E-01	180	.71835E-01	181	.71886E-01	182	.71886E-01
183	.71932E-01	184	.71932E-01	185	.71974E-01	186	.71974E-01	187	.72012E-01	188	.72012E-01
189	.72047E-01	190	.72047E-01	191	.72078E-01	192	.72078E-01	193	.72107E-01	194	.72107E-01
195	.72133E-01	196	.72133E-01	197	.72156E-01	198	.72156E-01	199	.72178E-01	200	.72178E-01
201	.72197E-01	202	.72197E-01	203	.72215E-01	204	.72215E-01	205	.72231E-01	206	.72231E-01
207	.72246E-01	208	.72246E-01	209	.72259E-01	210	.72259E-01	211	.72271E-01	212	.72271E-01
213	.72282E-01	214	.72282E-01	215	.72292E-01	216	.72292E-01	217	.72302E-01	218	.72302E-01
219	.72310E-01	220	.72310E-01	221	.72318E-01	222	.72318E-01	223	.72325E-01	224	.72325E-01

GREEN RIVER: 1) GRN542093% 2) GRN535095% 3) GRN535095%: 2.0E-06cm/s cover [illegible]

TIME = 162500.0000 TIME STEP = 380

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .16418E-01 AT NODE 85

CUMULATIVE INFLOW INTO SYSTEM IS = .23652E+04
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.24826E+04
CUMULATIVE CHANGE IN SYSTEM IS = -.11739E+03

D NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.65000E+03	-.65000E+03	-.64172E-02	2	-.65000E+03	-.65000E+03	-.64881E-02	3	-.64975E+03	-.65475E+03	.00000E+00
4	-.64975E+03	-.65475E+03	.00000E+00	5	-.64948E+03	-.65948E+03	.00000E+00	6	-.64948E+03	-.65948E+03	.00000E+00
7	-.64921E+03	-.66421E+03	.00000E+00	8	-.64921E+03	-.66421E+03	.00000E+00	9	-.64893E+03	-.66893E+03	.00000E+00
10	-.64893E+03	-.66893E+03	.00000E+00	11	-.64864E+03	-.67364E+03	.00000E+00	12	-.64864E+03	-.67364E+03	.00000E+00
13	-.64834E+03	-.67834E+03	.00000E+00	14	-.64834E+03	-.67834E+03	.00000E+00	15	-.64804E+03	-.68304E+03	.00000E+00
16	-.64804E+03	-.68304E+03	.00000E+00	17	-.64772E+03	-.68772E+03	.00000E+00	18	-.64772E+03	-.68772E+03	.00000E+00
19	-.64739E+03	-.69239E+03	.00000E+00	20	-.64739E+03	-.69239E+03	.00000E+00	21	-.64705E+03	-.69705E+03	.00000E+00
22	-.64705E+03	-.69705E+03	.00000E+00	23	-.64670E+03	-.70170E+03	.00000E+00	24	-.64670E+03	-.70170E+03	.00000E+00
25	-.64634E+03	-.70634E+03	.00000E+00	26	-.64634E+03	-.70634E+03	.00000E+00	27	-.64597E+03	-.71097E+03	.00000E+00
28	-.64597E+03	-.71097E+03	.00000E+00	29	-.64558E+03	-.71558E+03	.00000E+00	30	-.64558E+03	-.71558E+03	.00000E+00
31	-.64519E+03	-.72019E+03	.00000E+00	32	-.64519E+03	-.72019E+03	.00000E+00	33	-.64478E+03	-.72478E+03	[illegible]+00
34	-.64478E+03	-.72478E+03	.00000E+00	35	-.64436E+03	-.72936E+03	.00000E+00	36	-.64436E+03	-.72936E+03	.00000E+00
37	-.64393E+03	-.73393E+03	.00000E+00	38	-.64393E+03	-.73393E+03	.00000E+00	39	-.64349E+03	-.73849E+03	.00000E+00
40	-.64349E+03	-.73849E+03	.00000E+00	41	-.64303E+03	-.74303E+03	.00000E+00	42	-.64303E+03	-.74303E+03	.00000E+00
43	-.64256E+03	-.74756E+03	.00000E+00	44	-.64256E+03	-.74756E+03	.00000E+00	45	-.64208E+03	-.75208E+03	.00000E+00
46	-.64208E+03	-.75208E+03	.00000E+00	47	-.64158E+03	-.75658E+03	.00000E+00	48	-.64158E+03	-.75658E+03	.00000E+00
49	-.64107E+03	-.76107E+03	.00000E+00	50	-.64107E+03	-.76107E+03	.00000E+00	51	-.64054E+03	-.76554E+03	.00000E+00
52	-.64054E+03	-.76554E+03	.00000E+00	53	-.64000E+03	-.77000E+03	.00000E+00	54	-.64000E+03	-.77000E+03	.00000E+00
55	-.63945E+03	-.77445E+03	.00000E+00	56	-.63945E+03	-.77445E+03	.00000E+00	57	-.63888E+03	-.77888E+03	.00000E+00
58	-.63888E+03	-.77888E+03	.00000E+00	59	-.63829E+03	-.78329E+03	.00000E+00	60	-.63829E+03	-.78329E+03	.00000E+00
61	-.63769E+03	-.78769E+03	.00000E+00	62	-.63769E+03	-.78769E+03	.00000E+00	63	-.63707E+03	-.79207E+03	.00000E+00
64	-.63707E+03	-.79207E+03	.00000E+00	65	-.63644E+03	-.79644E+03	.00000E+00	66	-.63644E+03	-.79644E+03	.00000E+00
67	-.63578E+03	-.80078E+03	.00000E+00	68	-.63578E+03	-.80078E+03	.00000E+00	69	-.63512E+03	-.80512E+03	.00000E+00
70	-.63512E+03	-.80512E+03	.00000E+00	71	-.63443E+03	-.80943E+03	.00000E+00	72	-.63443E+03	-.80943E+03	.00000E+00
73	-.63373E+03	-.81373E+03	.00000E+00	74	-.63373E+03	-.81373E+03	.00000E+00	75	-.63074E+03	-.83074E+03	.00000E+00
76	-.63074E+03	-.83074E+03	.00000E+00	77	-.62745E+03	-.84745E+03	.00000E+00	78	-.62745E+03	-.84745E+03	.00000E+00
79	-.62383E+03	-.86383E+03	.00000E+00	80	-.62383E+03	-.86383E+03	.00000E+00	81	-.61988E+03	-.87988E+03	.00000E+00
82	-.61988E+03	-.87988E+03	.00000E+00	83	-.61557E+03	-.89557E+03	.00000E+00	84	-.61557E+03	-.89557E+03	.00000E+00
85	-.61088E+03	-.91088E+03	.00000E+00	86	-.61088E+03	-.91088E+03	.00000E+00	87	-.60581E+03	-.92581E+03	.00000E+00
88	-.60581E+03	-.92581E+03	.00000E+00	89	-.60032E+03	-.94032E+03	.00000E+00	90	-.60032E+03	-.94032E+03	.00000E+00
91	-.59442E+03	-.95442E+03	.00000E+00	92	-.59442E+03	-.95442E+03	.00000E+00	93	-.58809E+03	-.96809E+03	.00000E+00
94	-.58809E+03	-.96809E+03	.00000E+00	95	-.58131E+03	-.98131E+03	.00000E+00	96	-.58131E+03	-.98131E+03	.00000E+00
97	-.57408E+03	-.99408E+03	.00000E+00	98	-.57408E+03	-.99408E+03	.00000E+00	99	-.56640E+03	-.10064E+04	.00000E+00
100	-.56640E+03	-.10064E+04	.00000E+00	101	-.55824E+03	-.10182E+04	.00000E+00	102	-.55824E+03	-.10182E+04	.00000E+00
103	-.54962E+03	-.10296E+04	.00000E+00	104	-.54962E+03	-.10296E+04	.00000E+00	105	-.54054E+03	-.10405E+04	[illegible]0E+00
106	-.54054E+03	-.10405E+04	.00000E+00	107	-.53098E+03	-.10510E+04	.00000E+00	108	-.53098E+03	-.10510E+04	[illegible]E+00
109	-.52095E+03	-.10610E+04	.00000E+00	110	-.52095E+03	-.10610E+04	.00000E+00	111	-.51047E+03	-.10705E+04	.00000E+00
112	-.51047E+03	-.10705E+04	.00000E+00	113	-.49952E+03	-.10795E+04	.00000E+00	114	-.49952E+03	-.10795E+04	.00000E+00
115	-.48813E+03	-.10881E+04	.00000E+00	116	-.48813E+03	-.10881E+04	.00000E+00	117	-.47629E+03	-.10963E+04	.00000E+00
118	-.47629E+03	-.10963E+04	.00000E+00	119	-.46403E+03	-.11040E+04	.00000E+00	120	-.46403E+03	-.11040E+04	.00000E+00
121	-.45134E+03	-.11113E+04	.00000E+00	122	-.45134E+03	-.11113E+04	.00000E+00	123	-.43825E+03	-.11182E+04	.00000E+00

124	-.43825E+03	-.11182E+04	.00000E+00	125	-.42476E+03	-.11248E+04	.00000E+00	126	-.42476E+03	-.11248E+04	.00000E+00
127	-.41093E+03	-.11309E+04	.00000E+00	128	-.41090E+03	-.11309E+04	.00000E+00	129	-.39667E+03	-.11367E+04	.00000E+00
130	-.39667E+03	-.11367E+04	.00000E+00	131	-.38209E+03	-.11421E+04	.00000E+00	132	-.38209E+03	-.11421E+04	.00000E+00
133	-.36718E+03	-.11472E+04	.00000E+00	134	-.36718E+03	-.11472E+04	.00000E+00	135	-.35194E+03	-.11519E+04	.00000E+00
136	-.35194E+03	-.11519E+04	.00000E+00	137	-.33640E+03	-.11564E+04	.00000E+00	138	-.33640E+03	-.11564E+04	.00000E+00
[illegible]	-.32057E+03	-.11606E+04	.00000E+00	140	-.32058E+03	-.11606E+04	.00000E+00	141	-.30447E+03	-.11645E+04	.00000E+00
[illegible]	.30447E+03	-.11645E+04	.00000E+00	143	-.28811E+03	-.11681E+04	.00000E+00	144	-.28811E+03	-.11681E+04	.00000E+00
145	-.27150E+03	-.11715E+04	.00000E+00	146	-.27150E+03	-.11715E+04	.00000E+00	147	-.25466E+03	-.11747E+04	.00000E+00
148	-.25466E+03	-.11747E+04	.00000E+00	149	-.22916E+03	-.11692E+04	.00000E+00	150	-.22916E+03	-.11692E+04	.00000E+00
151	-.20425E+03	-.11642E+04	.00000E+00	152	-.20425E+03	-.11642E+04	.00000E+00	153	-.17985E+03	-.11599E+04	.00000E+00
154	-.17985E+03	-.11599E+04	.00000E+00	155	-.15591E+03	-.11559E+04	.00000E+00	156	-.15591E+03	-.11559E+04	.00000E+00
157	-.13237E+03	-.11524E+04	.00000E+00	158	-.13237E+03	-.11524E+04	.00000E+00	159	-.10919E+03	-.11492E+04	.00000E+00
160	-.10919E+03	-.11492E+04	.00000E+00	161	-.86325E+02	-.11463E+04	.00000E+00	162	-.86324E+02	-.11463E+04	.00000E+00
163	-.63741E+02	-.11437E+04	.00000E+00	164	-.63741E+02	-.11437E+04	.00000E+00	165	-.41412E+02	-.11414E+04	.00000E+00
166	-.41412E+02	-.11414E+04	.00000E+00	167	-.19307E+02	-.11393E+04	.00000E+00	168	-.19307E+02	-.11393E+04	.00000E+00
169	.25942E+01	-.11374E+04	.00000E+00	170	.25945E+01	-.11374E+04	.00000E+00	171	.24313E+02	-.11357E+04	.00000E+00
172	.24313E+02	-.11357E+04	.00000E+00	173	.45870E+02	-.11341E+04	.00000E+00	174	.45870E+02	-.11341E+04	.00000E+00
175	.67279E+02	-.11327E+04	.00000E+00	176	.67279E+02	-.11327E+04	.00000E+00	177	.88555E+02	-.11314E+04	.00000E+00
178	.88555E+02	-.11314E+04	.00000E+00	179	.10971E+03	-.11303E+04	.00000E+00	180	.10971E+03	-.11303E+04	.00000E+00
181	.13076E+03	-.11292E+04	.00000E+00	182	.13076E+03	-.11292E+04	.00000E+00	183	.15171E+03	-.11283E+04	.00000E+00
184	.15171E+03	-.11283E+04	.00000E+00	185	.17257E+03	-.11274E+04	.00000E+00	186	.17257E+03	-.11274E+04	.00000E+00
187	.19336E+03	-.11266E+04	.00000E+00	188	.19336E+03	-.11266E+04	.00000E+00	189	.21407E+03	-.11259E+04	.00000E+00
190	.21407E+03	-.11259E+04	.00000E+00	191	.23472E+03	-.11253E+04	.00000E+00	192	.23472E+03	-.11253E+04	.00000E+00
193	.25530E+03	-.11247E+04	.00000E+00	194	.25530E+03	-.11247E+04	.00000E+00	195	.27584E+03	-.11242E+04	.00000E+00
196	.27584E+03	-.11242E+04	.00000E+00	197	.29633E+03	-.11237E+04	.00000E+00	198	.29633E+03	-.11237E+04	.00000E+00
199	.31677E+03	-.11232E+04	.00000E+00	200	.31677E+03	-.11232E+04	.00000E+00	201	.33717E+03	-.11228E+04	.00000E+00
202	.33717E+03	-.11228E+04	.00000E+00	203	.35753E+03	-.11225E+04	.00000E+00	204	.35753E+03	-.11225E+04	.00000E+00
205	.37786E+03	-.11221E+04	.00000E+00	206	.37786E+03	-.11221E+04	.00000E+00	207	.39817E+03	-.11218E+04	.00000E+00
208	.39817E+03	-.11218E+04	.00000E+00	209	.41844E+03	-.11216E+04	.00000E+00	210	.41844E+03	-.11216E+04	.00000E+00
211	.43869E+03	-.11213E+04	.00000E+00	212	.43869E+03	-.11213E+04	.00000E+00	213	.45892E+03	-.11211E+04	.00000E+00
214	.45892E+03	-.11211E+04	.00000E+00	215	.47913E+03	-.11209E+04	.00000E+00	216	.47913E+03	-.11209E+04	.00000E+00
[illegible]	.49931E+03	-.11207E+04	.00000E+00	218	.49931E+03	-.11207E+04	.00000E+00	219	.51949E+03	-.11205E+04	.00000E+00
[illegible]	.51949E+03	-.11205E+04	.00000E+00	221	.53964E+03	-.11204E+04	.00000E+00	222	.53964E+03	-.11204E+04	.00000E+00
223	.55978E+03	-.11202E+04	.64800E-02	224	.55978E+03	-.11202E+04	.64800E-02	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.12884E+00	2	.12884E+00	3	.12803E+00	4	.12803E+00	5	.12724E+00	6	.12724E+00
7	.12645E+00	8	.12645E+00	9	.12568E+00	10	.12568E+00	11	.12492E+00	12	.12492E+00
13	.12417E+00	14	.12417E+00	15	.12343E+00	16	.12343E+00	17	.12270E+00	18	.12270E+00
19	.12198E+00	20	.12198E+00	21	.12128E+00	22	.12128E+00	23	.12058E+00	24	.12058E+00
25	.11989E+00	26	.11989E+00	27	.11921E+00	28	.11921E+00	29	.11854E+00	30	.11854E+00
31	.11788E+00	32	.11788E+00	33	.11724E+00	34	.11724E+00	35	.11659E+00	36	.11659E+00
37	.11596E+00	38	.11596E+00	39	.11534E+00	40	.11534E+00	41	.11473E+00	42	.11473E+00
43	.11412E+00	44	.11412E+00	45	.11353E+00	46	.11353E+00	47	.11294E+00	48	.11294E+00
49	.11236E+00	50	.11236E+00	51	.11179E+00	52	.11179E+00	53	.11123E+00	54	.11123E+00
55	.11067E+00	56	.11067E+00	57	.11012E+00	58	.11012E+00	59	.10958E+00	60	.10958E+00
61	.10905E+00	62	.10905E+00	63	.10853E+00	64	.10853E+00	65	.10801E+00	66	.10801E+00
67	.10750E+00	68	.10750E+00	69	.10700E+00	70	.10700E+00	71	.10650E+00	72	.10650E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

[illegible]	.10650E+00	72	.10650E+00	73	.10602E+00	74	.10602E+00	75	.10413E+00	76	.10413E+00
77	.10235E+00	78	.10235E+00	79	.10067E+00	80	.10067E+00	81	.99088E-01	82	.99088E-01
83	.97592E-01	84	.97592E-01	85	.96182E-01	86	.96182E-01	87	.94852E-01	88	.94852E-01
89	.93599E-01	90	.93599E-01	91	.92419E-01	92	.92419E-01	93	.91308E-01	94	.91308E-01
95	.90263E-01	96	.90263E-01	97	.89280E-01	98	.89280E-01	99	.88357E-01	100	.88357E-01

101	.87490E-01	102	.87490E-01	103	.86677E-01	104	.86677E-01	105	.85914E-01	106	.85914E-01
107	.85199E-01	108	.85199E-01	109	.84530E-01	110	.84530E-01	111	.83904E-01	112	.83904E-01
113	.83319E-01	114	.83319E-01	115	.82772E-01	116	.82772E-01	117	.82261E-01	118	.82261E-01
119	.81784E-01	120	.81784E-01	121	.81340E-01	122	.81340E-01	123	.80926E-01	124	.80926E-01
125	.80540E-01	126	.80540E-01	127	.80181E-01	128	.80181E-01	129	.79847E-01	130	.79847E-01
131	.79537E-01	132	.79537E-01	133	.79248E-01	134	.79248E-01	135	.78980E-01	136	.78980E-01
137	.78731E-01	138	.78731E-01	139	.78501E-01	140	.78501E-01	141	.78287E-01	142	.78287E-01
143	.78088E-01	144	.78088E-01	145	.77904E-01	146	.77904E-01	147	.77734E-01	148	.77734E-01
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.69785E-01	148	.69784E-01	149	.70029E-01	150	.70029E-01	151	.70249E-01	152	.70249E-01
153	.70448E-01	154	.70448E-01	155	.70628E-01	156	.70628E-01	157	.70791E-01	158	.70791E-01
159	.70938E-01	160	.70938E-01	161	.71072E-01	162	.71072E-01	163	.71193E-01	164	.71193E-01
165	.71302E-01	166	.71302E-01	167	.71402E-01	168	.71402E-01	169	.71492E-01	170	.71492E-01
171	.71574E-01	172	.71574E-01	173	.71648E-01	174	.71648E-01	175	.71716E-01	176	.71716E-01
177	.71777E-01	178	.71777E-01	179	.71833E-01	180	.71833E-01	181	.71883E-01	182	.71883E-01
183	.71929E-01	184	.71929E-01	185	.71971E-01	186	.71971E-01	187	.72009E-01	188	.72009E-01
189	.72044E-01	190	.72044E-01	191	.72075E-01	192	.72075E-01	193	.72104E-01	194	.72104E-01
195	.72130E-01	196	.72130E-01	197	.72154E-01	198	.72154E-01	199	.72175E-01	200	.72175E-01
201	.72195E-01	202	.72195E-01	203	.72213E-01	204	.72213E-01	205	.72229E-01	206	.72229E-01
207	.72244E-01	208	.72244E-01	209	.72257E-01	210	.72257E-01	211	.72270E-01	212	.72270E-01
213	.72281E-01	214	.72281E-01	215	.72291E-01	216	.72291E-01	217	.72300E-01	218	.72300E-01
219	.72309E-01	220	.72309E-01	221	.72316E-01	222	.72316E-01	223	.72323E-01	224	.72323E-01

STORAGE CHECK

THE DIMENSION OF BC SHOULD BE GREATER THAN 897
THE DIMENSION OF BS SHOULD BE GREATER THAN 3051

Name of the Input File: grnia6.INU
Name of the Output File: grnia6.UNS
Name of the Plot File: grnia6.PRN

NoCover
Fixed UB FLUX = 2E10^-8
Fixed LB -650 cm

1 VERTICAL PLANE FLOW

GREEN RIVER: 1) GRN542@93% 2) GRN535@95% 3) GRN535@95%; 5.0E-08cm/s cover flux

NUMBER OF NODAL POINTS------- 224
MAX NODES IN A TRNSVRS LINE-- 2
NUMBER OF ELEMENTS---------- 111
NUMBER OF MATERIALS---------- 3
MAX NUMBER OF ITERATIONS----- 100

UNITS ARE CONTROLED BY THE FOLLOWING CONSTANTS -

CONS1 = .100E+01 CONS2 = .100E+01

MATERIAL	K1	K2	POROSITY	SS	RWC	EN	ALPHA	ID MODEL
1	.86400E+01	.86400E+01	.33000E+00	.00000E+00	.25000E-01	.22500E+01	.34000E-02	1
2	.86400E+01	.86400E+01	.33000E+00	.00000E+00	.25000E-01	.22500E+01	.34000E-02	1
3	.51800E+02	.51800E+02	.45000E+00	.00000E+00	.30000E-01	.23260E+01	.50000E-02	1

NODAL POINT INFORMATION

NODE NO.	KODE	X,R	Y,Z	.PSI.	Q
1	1	.000000E+00	.000000E+00	-.650000E+03	.000000E+00
2	1	.750000E+01	.000000E+00	-.650000E+03	.000000E+00
3	0	.000000E+00	.500000E+01	-.650000E+03	.000000E+00
4	0	.750000E+01	.500000E+01	-.650000E+03	.000000E+00
5	0	.000000E+00	.100000E+02	-.650000E+03	.000000E+00
6	0	.750000E+01	.100000E+02	-.650000E+03	.000000E+00
7	0	.000000E+00	.150000E+02	-.650000E+03	.000000E+00
8	0	.750000E+01	.150000E+02	-.650000E+03	.000000E+00
9	0	.000000E+00	.200000E+02	-.650000E+03	.000000E+00
10	0	.750000E+01	.200000E+02	-.650000E+03	.000000E+00
11	0	.000000E+00	.250000E+02	-.650000E+03	.000000E+00
12	0	.750000E+01	.250000E+02	-.650000E+03	.000000E+00
13	0	.000000E+00	.300000E+02	-.650000E+03	.000000E+00
14	0	.750000E+01	.300000E+02	-.650000E+03	.000000E+00
15	0	.000000E+00	.350000E+02	-.650000E+03	.000000E+00
16	0	.750000E+01	.350000E+02	-.650000E+03	.000000E+00

17	0	.000000E+00	.400000E+02	-.650000E+03	.000000E+00
18	0	.750000E+01	.400000E+02	-.650000E+03	.000000E+00
19	0	.000000E+00	.450000E+02	-.650000E+03	.000000E+00
20	0	.750000E+01	.450000E+02	-.650000E+03	.000000E+00
21	0	.000000E+00	.500000E+02	-.650000E+03	.000000E+00
22	0	.750000E+01	.500000E+02	-.650000E+03	.000000E+00
23	0	.000000E+00	.550000E+02	-.650000E+03	.000000E+00
24	0	.750000E+01	.550000E+02	-.650000E+03	.000000E+00
25	0	.000000E+00	.600000E+02	-.650000E+03	.000000E+00
26	0	.750000E+01	.600000E+02	-.650000E+03	.000000E+00
27	0	.000000E+00	.650000E+02	-.650000E+03	.000000E+00
28	0	.750000E+01	.650000E+02	-.650000E+03	.000000E+00
29	0	.000000E+00	.700000E+02	-.650000E+03	.000000E+00
30	0	.750000E+01	.700000E+02	-.650000E+03	.000000E+00
31	0	.000000E+00	.750000E+02	-.650000E+03	.000000E+00
32	0	.750000E+01	.750000E+02	-.650000E+03	.000000E+00
33	0	.000000E+00	.800000E+02	-.650000E+03	.000000E+00
34	0	.750000E+01	.800000E+02	-.650000E+03	.000000E+00
35	0	.000000E+00	.850000E+02	-.650000E+03	.000000E+00
36	0	.750000E+01	.850000E+02	-.650000E+03	.000000E+00
37	0	.000000E+00	.900000E+02	-.650000E+03	.000000E+00
38	0	.750000E+01	.900000E+02	-.650000E+03	.000000E+00
39	0	.000000E+00	.950000E+02	-.650000E+03	.000000E+00
40	0	.750000E+01	.950000E+02	-.650000E+03	.000000E+00
41	0	.000000E+00	.100000E+03	-.650000E+03	.000000E+00
42	0	.750000E+01	.100000E+03	-.650000E+03	.000000E+00
43	0	.000000E+00	.105000E+03	-.650000E+03	.000000E+00
44	0	.750000E+01	.105000E+03	-.650000E+03	.000000E+00
45	0	.000000E+00	.110000E+03	-.650000E+03	.000000E+00
46	0	.750000E+01	.110000E+03	-.650000E+03	.000000E+00
47	0	.000000E+00	.115000E+03	-.650000E+03	.000000E+00
48	0	.750000E+01	.115000E+03	-.650000E+03	.000000E+00
49	0	.000000E+00	.120000E+03	-.650000E+03	.000000E+00
50	0	.750000E+01	.120000E+03	-.650000E+03	.000000E+00
51	0	.000000E+00	.125000E+03	-.650000E+03	.000000E+00
52	0	.750000E+01	.125000E+03	-.650000E+03	.000000E+00
53	0	.000000E+00	.130000E+03	-.650000E+03	.000000E+00
54	0	.750000E+01	.130000E+03	-.650000E+03	.000000E+00
55	0	.000000E+00	.135000E+03	-.650000E+03	.000000E+00
56	0	.750000E+01	.135000E+03	-.650000E+03	.000000E+00
57	0	.000000E+00	.140000E+03	-.650000E+03	.000000E+00
58	0	.750000E+01	.140000E+03	-.650000E+03	.000000E+00
59	0	.000000E+00	.145000E+03	-.650000E+03	.000000E+00
60	0	.750000E+01	.145000E+03	-.650000E+03	.000000E+00
61	0	.000000E+00	.150000E+03	-.650000E+03	.000000E+00
62	0	.750000E+01	.150000E+03	-.650000E+03	.000000E+00
63	0	.000000E+00	.155000E+03	-.650000E+03	.000000E+00
64	0	.750000E+01	.155000E+03	-.650000E+03	.000000E+00
65	0	.000000E+00	.160000E+03	-.650000E+03	.000000E+00
66	0	.750000E+01	.160000E+03	-.650000E+03	.000000E+00
67	0	.000000E+00	.165000E+03	-.650000E+03	.000000E+00
68	0	.750000E+01	.165000E+03	-.650000E+03	.000000E+00
69	0	.000000E+00	.170000E+03	-.650000E+03	.000000E+00
70	0	.750000E+01	.170000E+03	-.650000E+03	.000000E+00
71	0	.000000E+00	.175000E+03	-.650000E+03	.000000E+00
72	0	.750000E+01	.175000E+03	-.650000E+03	.000000E+00
73	0	.000000E+00	.180000E+03	-.650000E+03	.000000E+00
74	0	.750000E+01	.180000E+03	-.650000E+03	.000000E+00
75	0	.000000E+00	.200000E+03	-.650000E+03	.000000E+00
76	0	.750000E+01	.200000E+03	-.650000E+03	.000000E+00
77	0	.000000E+00	.220000E+03	-.650000E+03	.000000E+00
78	0	.750000E+01	.220000E+03	-.650000E+03	.000000E+00

79	0	.000000E+00	.240000E+03	-.650000E+03	.000000E+00
80	0	.750000E+01	.240000E+03	-.650000E+03	.000000E+00
81	0	.000000E+00	.260000E+03	-.650000E+03	.000000E+00
82	0	.750000E+01	.260000E+03	-.650000E+03	.000000E+00
83	0	.000000E+00	.280000E+03	-.650000E+03	.000000E+00
84	0	.750000E+01	.280000E+03	-.650000E+03	.000000E+00
85	0	.000000E+00	.300000E+03	-.650000E+03	.000000E+00
86	0	.750000E+01	.300000E+03	-.650000E+03	.000000E+00
87	0	.000000E+00	.320000E+03	-.650000E+03	.000000E+00
88	0	.750000E+01	.320000E+03	-.650000E+03	.000000E+00
89	0	.000000E+00	.340000E+03	-.650000E+03	.000000E+00
90	0	.750000E+01	.340000E+03	-.650000E+03	.000000E+00
91	0	.000000E+00	.360000E+03	-.650000E+03	.000000E+00
92	0	.750000E+01	.360000E+03	-.650000E+03	.000000E+00
93	0	.000000E+00	.380000E+03	-.650000E+03	.000000E+00
94	0	.750000E+01	.380000E+03	-.650000E+03	.000000E+00
95	0	.000000E+00	.400000E+03	-.650000E+03	.000000E+00
96	0	.750000E+01	.400000E+03	-.650000E+03	.000000E+00
97	0	.000000E+00	.420000E+03	-.650000E+03	.000000E+00
98	0	.750000E+01	.420000E+03	-.650000E+03	.000000E+00
99	0	.000000E+00	.440000E+03	-.650000E+03	.000000E+00
100	0	.750000E+01	.440000E+03	-.650000E+03	.000000E+00
101	0	.000000E+00	.460000E+03	-.650000E+03	.000000E+00
102	0	.750000E+01	.460000E+03	-.650000E+03	.000000E+00
103	0	.000000E+00	.480000E+03	-.650000E+03	.000000E+00
104	0	.750000E+01	.480000E+03	-.650000E+03	.000000E+00
105	0	.000000E+00	.500000E+03	-.650000E+03	.000000E+00
106	0	.750000E+01	.500000E+03	-.650000E+03	.000000E+00
107	0	.000000E+00	.520000E+03	-.650000E+03	.000000E+00
108	0	.750000E+01	.520000E+03	-.650000E+03	.000000E+00
109	0	.000000E+00	.540000E+03	-.650000E+03	.000000E+00
110	0	.750000E+01	.540000E+03	-.650000E+03	.000000E+00
111	0	.000000E+00	.560000E+03	-.650000E+03	.000000E+00
112	0	.750000E+01	.560000E+03	-.650000E+03	.000000E+00
113	0	.000000E+00	.580000E+03	-.650000E+03	.000000E+00
114	0	.750000E+01	.580000E+03	-.650000E+03	.000000E+00
115	0	.000000E+00	.600000E+03	-.650000E+03	.000000E+00
116	0	.750000E+01	.600000E+03	-.650000E+03	.000000E+00
117	0	.000000E+00	.620000E+03	-.650000E+03	.000000E+00
118	0	.750000E+01	.620000E+03	-.650000E+03	.000000E+00
119	0	.000000E+00	.640000E+03	-.650000E+03	.000000E+00
120	0	.750000E+01	.640000E+03	-.650000E+03	.000000E+00
121	0	.000000E+00	.660000E+03	-.650000E+03	.000000E+00
122	0	.750000E+01	.660000E+03	-.650000E+03	.000000E+00
123	0	.000000E+00	.680000E+03	-.650000E+03	.000000E+00
124	0	.750000E+01	.680000E+03	-.650000E+03	.000000E+00
125	0	.000000E+00	.700000E+03	-.650000E+03	.000000E+00
126	0	.750000E+01	.700000E+03	-.650000E+03	.000000E+00
127	0	.000000E+00	.720000E+03	-.650000E+03	.000000E+00
128	0	.750000E+01	.720000E+03	-.650000E+03	.000000E+00
129	0	.000000E+00	.740000E+03	-.650000E+03	.000000E+00
130	0	.750000E+01	.740000E+03	-.650000E+03	.000000E+00
131	0	.000000E+00	.760000E+03	-.650000E+03	.000000E+00
132	0	.750000E+01	.760000E+03	-.650000E+03	.000000E+00
133	0	.000000E+00	.780000E+03	-.650000E+03	.000000E+00
134	0	.750000E+01	.780000E+03	-.650000E+03	.000000E+00
135	0	.000000E+00	.800000E+03	-.650000E+03	.000000E+00
136	0	.750000E+01	.800000E+03	-.650000E+03	.000000E+00
137	0	.000000E+00	.820000E+03	-.650000E+03	.000000E+00
138	0	.750000E+01	.820000E+03	-.650000E+03	.000000E+00
139	0	.000000E+00	.840000E+03	-.650000E+03	.000000E+00
140	0	.750000E+01	.840000E+03	-.650000E+03	.000000E+00

141	0	.000000E+00	.860000E+03	-.650000E+03	.000000E+00
142	0	.750000E+01	.860000E+03	-.650000E+03	.000000E+00
143	0	.000000E+00	.880000E+03	-.650000E+03	.000000E+00
144	0	.750000E+01	.880000E+03	-.650000E+03	.000000E+00
145	0	.000000E+00	.900000E+03	-.650000E+03	.000000E+00
146	0	.750000E+01	.900000E+03	-.650000E+03	.000000E+00
147	0	.000000E+00	.920000E+03	-.650000E+03	.000000E+00
148	0	.750000E+01	.920000E+03	-.650000E+03	.000000E+00
149	0	.000000E+00	.940000E+03	-.200000E+04	.000000E+00
150	0	.750000E+01	.940000E+03	-.200000E+04	.000000E+00
151	0	.000000E+00	.960000E+03	-.200000E+04	.000000E+00
152	0	.750000E+01	.960000E+03	-.200000E+04	.000000E+00
153	0	.000000E+00	.980000E+03	-.200000E+04	.000000E+00
154	0	.750000E+01	.980000E+03	-.200000E+04	.000000E+00
155	0	.000000E+00	.100000E+04	-.200000E+04	.000000E+00
156	0	.750000E+01	.100000E+04	-.200000E+04	.000000E+00
157	0	.000000E+00	.102000E+04	-.200000E+04	.000000E+00
158	0	.750000E+01	.102000E+04	-.200000E+04	.000000E+00
159	0	.000000E+00	.104000E+04	-.200000E+04	.000000E+00
160	0	.750000E+01	.104000E+04	-.200000E+04	.000000E+00
161	0	.000000E+00	.106000E+04	-.200000E+04	.000000E+00
162	0	.750000E+01	.106000E+04	-.200000E+04	.000000E+00
163	0	.000000E+00	.108000E+04	-.200000E+04	.000000E+00
164	0	.750000E+01	.108000E+04	-.200000E+04	.000000E+00
165	0	.000000E+00	.110000E+04	-.200000E+04	.000000E+00
166	0	.750000E+01	.110000E+04	-.200000E+04	.000000E+00
167	0	.000000E+00	.112000E+04	-.200000E+04	.000000E+00
168	0	.750000E+01	.112000E+04	-.200000E+04	.000000E+00
169	0	.000000E+00	.114000E+04	-.200000E+04	.000000E+00
170	0	.750000E+01	.114000E+04	-.200000E+04	.000000E+00
171	0	.000000E+00	.116000E+04	-.200000E+04	.000000E+00
172	0	.750000E+01	.116000E+04	-.200000E+04	.000000E+00
173	0	.000000E+00	.118000E+04	-.200000E+04	.000000E+00
174	0	.750000E+01	.118000E+04	-.200000E+04	.000000E+00
175	0	.000000E+00	.120000E+04	-.200000E+04	.000000E+00
176	0	.750000E+01	.120000E+04	-.200000E+04	.000000E+00
177	0	.000000E+00	.122000E+04	-.200000E+04	.000000E+00
178	0	.750000E+01	.122000E+04	-.200000E+04	.000000E+00
179	0	.000000E+00	.124000E+04	-.200000E+04	.000000E+00
180	0	.750000E+01	.124000E+04	-.200000E+04	.000000E+00
181	0	.000000E+00	.126000E+04	-.200000E+04	.000000E+00
182	0	.750000E+01	.126000E+04	-.200000E+04	.000000E+00
183	0	.000000E+00	.128000E+04	-.200000E+04	.000000E+00
184	0	.750000E+01	.128000E+04	-.200000E+04	.000000E+00
185	0	.000000E+00	.130000E+04	-.200000E+04	.000000E+00
186	0	.750000E+01	.130000E+04	-.200000E+04	.000000E+00
187	0	.000000E+00	.132000E+04	-.200000E+04	.000000E+00
188	0	.750000E+01	.132000E+04	-.200000E+04	.000000E+00
189	0	.000000E+00	.134000E+04	-.200000E+04	.000000E+00
190	0	.750000E+01	.134000E+04	-.200000E+04	.000000E+00
191	0	.000000E+00	.136000E+04	-.200000E+04	.000000E+00
192	0	.750000E+01	.136000E+04	-.200000E+04	.000000E+00
193	0	.000000E+00	.138000E+04	-.200000E+04	.000000E+00
194	0	.750000E+01	.138000E+04	-.200000E+04	.000000E+00
195	0	.000000E+00	.140000E+04	-.200000E+04	.000000E+00
196	0	.750000E+01	.140000E+04	-.200000E+04	.000000E+00
197	0	.000000E+00	.142000E+04	-.200000E+04	.000000E+00
198	0	.750000E+01	.142000E+04	-.200000E+04	.000000E+00
199	0	.000000E+00	.144000E+04	-.200000E+04	.000000E+00
200	0	.750000E+01	.144000E+04	-.200000E+04	.000000E+00
201	0	.000000E+00	.146000E+04	-.200000E+04	.000000E+00
202	0	.750000E+01	.146000E+04	-.200000E+04	.000000E+00

203	0	.000000E+00	.148000E+04	-.200000E+04	.000000E+00
204	0	.750000E+01	.148000E+04	-.200000E+04	.000000E+00
205	0	.000000E+00	.150000E+04	-.200000E+04	.000000E+00
206	0	.750000E+01	.150000E+04	-.200000E+04	.000000E+00
207	0	.000000E+00	.152000E+04	-.200000E+04	.000000E+00
208	0	.750000E+01	.152000E+04	-.200000E+04	.000000E+00
209	0	.000000E+00	.154000E+04	-.200000E+04	.000000E+00
210	0	.750000E+01	.154000E+04	-.200000E+04	.000000E+00
211	0	.000000E+00	.156000E+04	-.200000E+04	.000000E+00
212	0	.750000E+01	.156000E+04	-.200000E+04	.000000E+00
213	0	.000000E+00	.158000E+04	-.200000E+04	.000000E+00
214	0	.750000E+01	.158000E+04	-.200000E+04	.000000E+00
215	0	.000000E+00	.160000E+04	-.200000E+04	.000000E+00
216	0	.750000E+01	.160000E+04	-.200000E+04	.000000E+00
217	0	.000000E+00	.162000E+04	-.200000E+04	.000000E+00
218	0	.750000E+01	.162000E+04	-.200000E+04	.000000E+00
219	0	.000000E+00	.164000E+04	-.200000E+04	.000000E+00
220	0	.750000E+01	.164000E+04	-.200000E+04	.000000E+00
221	0	.000000E+00	.166000E+04	-.200000E+04	.000000E+00
222	0	.750000E+01	.166000E+04	-.200000E+04	.000000E+00
223	0	.000000E+00	.168000E+04	-.200000E+04	.162000E-01
224	0	.750000E+01	.168000E+04	-.200000E+04	.162000E-01

ELEMENT INFORMATION

ELEMENT	C O R N E R	N O D E S			MATERIAL	ANGLE
1	1	2	4	3	1	.000E+00
2	3	4	6	5	1	.000E+00
	5	6	8	7	1	.000E+00
4	7	8	10	9	1	.000E+00
5	9	10	12	11	1	.000E+00
6	11	12	14	13	1	.000E+00
7	13	14	16	15	1	.000E+00
8	15	16	18	17	1	.000E+00
9	17	18	20	19	1	.000E+00
10	19	20	22	21	1	.000E+00
11	21	22	24	23	1	.000E+00
12	23	24	26	25	1	.000E+00
13	25	26	28	27	1	.000E+00
14	27	28	30	29	1	.000E+00
15	29	30	32	31	1	.000E+00
16	31	32	34	33	1	.000E+00
17	33	34	36	35	1	.000E+00
18	35	36	38	37	1	.000E+00
19	37	38	40	39	1	.000E+00
20	39	40	42	41	1	.000E+00
21	41	42	44	43	1	.000E+00
22	43	44	46	45	1	.000E+00
23	45	46	48	47	1	.000E+00
24	47	48	50	49	1	.000E+00
25	49	50	52	51	1	.000E+00
26	51	52	54	53	1	.000E+00
	53	54	56	55	1	.000E+00
	55	56	58	57	1	.000E+00
29	57	58	60	59	1	.000E+00
30	59	60	62	61	1	.000E+00
31	61	62	64	63	1	.000E+00
32	63	64	66	65	1	.000E+00

33	65	66	68	67	1	.000E+00
34	67	68	70	69	1	.000E+00
35	69	70	72	71	1	.000E+00
36	71	72	74	73	2	.000E+00
37	73	74	76	75	2	.000E+00
38	75	76	78	77	2	.000E+00
39	77	78	80	79	2	.000E+00
40	79	80	82	81	2	.000E+00
41	81	82	84	83	2	.000E+00
42	83	84	86	85	2	.000E+00
43	85	86	88	87	2	.000E+00
44	87	88	90	89	2	.000E+00
45	89	90	92	91	2	.000E+00
46	91	92	94	93	2	.000E+00
47	93	94	96	95	2	.000E+00
48	95	96	98	97	2	.000E+00
49	97	98	100	99	2	.000E+00
50	99	100	102	101	2	.000E+00
51	101	102	104	103	2	.000E+00
52	103	104	106	105	2	.000E+00
53	105	106	108	107	2	.000E+00
54	107	108	110	109	2	.000E+00
55	109	110	112	111	2	.000E+00
56	111	112	114	113	2	.000E+00
57	113	114	116	115	2	.000E+00
58	115	116	118	117	2	.000E+00
59	117	118	120	119	2	.000E+00
60	119	120	122	121	2	.000E+00
61	121	122	124	123	2	.000E+00
62	123	124	126	125	2	.000E+00
63	125	126	128	127	2	.000E+00
64	127	128	130	129	2	.000E+00
65	129	130	132	131	2	.000E+00
66	131	132	134	133	2	.000E+00
67	133	134	136	135	2	.000E+00
68	135	136	138	137	2	.000E+00
69	137	138	140	139	2	.000E+00
70	139	140	142	141	2	.000E+00
71	141	142	144	143	2	.000E+00
72	143	144	146	145	2	.000E+00
73	145	146	148	147	2	.000E+00
74	147	148	150	149	3	.000E+00
75	149	150	152	151	3	.000E+00
76	151	152	154	153	3	.000E+00
77	153	154	156	155	3	.000E+00
78	155	156	158	157	3	.000E+00
79	157	158	160	159	3	.000E+00
80	159	160	162	161	3	.000E+00
81	161	162	164	163	3	.000E+00
82	163	164	166	165	3	.000E+00
83	165	166	168	167	3	.000E+00
84	167	168	170	169	3	.000E+00
85	169	170	172	171	3	.000E+00
86	171	172	174	173	3	.000E+00
87	173	174	176	175	3	.000E+00
88	175	176	178	177	3	.000E+00
89	177	178	180	179	3	.000E+00
90	179	180	182	181	3	.000E+00
91	181	182	184	183	3	.000E+00
92	183	184	186	185	3	.000E+00
93	185	186	188	187	3	.000E+00
94	187	188	190	189	3	.000E+00

95	189	190	192	191	3	.000E+00
96	191	192	194	193	3	.000E+00
97	193	194	196	195	3	.000E+00
98	195	196	198	197	3	.000E+00
99	197	198	200	199	3	.000E+00
	199	200	202	201	3	.000E+00
	201	202	204	203	3	.000E+00
102	203	204	206	205	3	.000E+00
103	205	206	208	207	3	.000E+00
104	207	208	210	209	3	.000E+00
105	209	210	212	211	3	.000E+00
106	211	212	214	213	3	.000E+00
107	213	214	216	215	3	.000E+00
108	215	216	218	217	3	.000E+00
109	217	218	220	219	3	.000E+00
110	219	220	222	221	3	.000E+00
111	221	222	224	223	3	.000E+00

GREEN RIVER: 1) GRN5428@93% 2) GRN5358@95% 3) GRN5358@95%; 5.0E-08cm/s cover flux

TIME = 5.0000 TIME STEP = 1

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .13880E+03 AT NODE 149

UM CHANGE IN PRESSURE HEAD DURING ITERATION 3 WAS .16151E+02 AT NODE 152

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 4 WAS .30201E+01 AT NODE 149

CUMULATIVE INFLOW INTO SYSTEM IS = .16200E+00
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.12906E+01
CUMULATIVE CHANGE IN SYSTEM IS = -.11286E+01

0 NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.65000E+03	-.65000E+03	-.12906E+00	2	-.65000E+03	-.65000E+03	-.12907E+00	3	-.64500E+03	-.65000E+03	.00000E+00
4	-.64500E+03	-.65000E+03	.00000E+00	5	-.64000E+03	-.65000E+03	.00000E+00	6	-.64000E+03	-.65000E+03	.00000E+00
7	-.63500E+03	-.65000E+03	.00000E+00	8	-.63500E+03	-.65000E+03	.00000E+00	9	-.63000E+03	-.65000E+03	.00000E+00
10	-.63000E+03	-.65000E+03	.00000E+00	11	-.62500E+03	-.65000E+03	.00000E+00	12	-.62500E+03	-.65000E+03	.00000E+00
13	-.62000E+03	-.65000E+03	.00000E+00	14	-.62000E+03	-.65000E+03	.00000E+00	15	-.61500E+03	-.65000E+03	.00000E+00
16	-.61500E+03	-.65000E+03	.00000E+00	17	-.61000E+03	-.65000E+03	.00000E+00	18	-.61000E+03	-.65000E+03	.00000E+00
19	-.60500E+03	-.65000E+03	.00000E+00	20	-.60500E+03	-.65000E+03	.00000E+00	21	-.60000E+03	-.65000E+03	.00000E+00
	-.60000E+03	-.65000E+03	.00000E+00	23	-.59500E+03	-.65000E+03	.00000E+00	24	-.59500E+03	-.65000E+03	.00000E+00
	-.59000E+03	-.65000E+03	.00000E+00	26	-.59000E+03	-.65000E+03	.00000E+00	27	-.58500E+03	-.65000E+03	.00000E+00
28	-.58500E+03	-.65000E+03	.00000E+00	29	-.58000E+03	-.65000E+03	.00000E+00	30	-.58000E+03	-.65000E+03	.00000E+00
31	-.57500E+03	-.65000E+03	.00000E+00	32	-.57500E+03	-.65000E+03	.00000E+00	33	-.57000E+03	-.65000E+03	.00000E+00
34	-.57000E+03	-.65000E+03	.00000E+00	35	-.56500E+03	-.65000E+03	.00000E+00	36	-.56500E+03	-.65000E+03	.00000E+00
37	-.56000E+03	-.65000E+03	.00000E+00	38	-.56000E+03	-.65000E+03	.00000E+00	39	-.55500E+03	-.65000E+03	.00000E+00

40	-.55500E+03	-.65000E+03	.00000E+00	41	-.55000E+03	-.65000E+03	.00000E+00	42	-.55000E+03	-.65000E+03	.00000E+00
43	-.54500E+03	-.65000E+03	.00000E+00	44	-.54500E+03	-.65000E+03	.00000E+00	45	-.54000E+03	-.65000E+03	.00000E+00
46	-.54000E+03	-.65000E+03	.00000E+00	47	-.53500E+03	-.65000E+03	.00000E+00	48	-.53500E+03	-.65000E+03	.00000E+00
49	-.53000E+03	-.65000E+03	.00000E+00	50	-.53000E+03	-.65000E+03	.00000E+00	51	-.52500E+03	-.65000E+03	.00000E+00
52	-.52500E+03	-.65000E+03	.00000E+00	53	-.52000E+03	-.65000E+03	.00000E+00	54	-.52000E+03	-.65000E+03	.00000E+00
55	-.51500E+03	-.65000E+03	.00000E+00	56	-.51500E+03	-.65000E+03	.00000E+00	57	-.51000E+03	-.65000E+03	[illegible]+00
58	-.51000E+03	-.65000E+03	.00000E+00	59	-.50500E+03	-.65000E+03	.00000E+00	60	-.50500E+03	-.65000E+03	[illegible]+00
61	-.50000E+03	-.65000E+03	.00000E+00	62	-.50000E+03	-.65000E+03	.00000E+00	63	-.49500E+03	-.65000E+03	.00000E+00
64	-.49500E+03	-.65000E+03	.00000E+00	65	-.49000E+03	-.65000E+03	.00000E+00	66	-.49000E+03	-.65000E+03	.00000E+00
67	-.48500E+03	-.65000E+03	.00000E+00	68	-.48500E+03	-.65000E+03	.00000E+00	69	-.48000E+03	-.65000E+03	.00000E+00
70	-.48000E+03	-.65000E+03	.00000E+00	71	-.47500E+03	-.65000E+03	.00000E+00	72	-.47500E+03	-.65000E+03	.00000E+00
73	-.47000E+03	-.65000E+03	.00000E+00	74	-.47000E+03	-.65000E+03	.00000E+00	75	-.45000E+03	-.65000E+03	.00000E+00
76	-.45000E+03	-.65000E+03	.00000E+00	77	-.43000E+03	-.65000E+03	.00000E+00	78	-.43000E+03	-.65000E+03	.00000E+00
79	-.41000E+03	-.65000E+03	.00000E+00	80	-.41000E+03	-.65000E+03	.00000E+00	81	-.39000E+03	-.65000E+03	.00000E+00
82	-.39000E+03	-.65000E+03	.00000E+00	83	-.37000E+03	-.65000E+03	.00000E+00	84	-.37000E+03	-.65000E+03	.00000E+00
85	-.35000E+03	-.65000E+03	.00000E+00	86	-.35000E+03	-.65000E+03	.00000E+00	87	-.33000E+03	-.65000E+03	.00000E+00
88	-.33000E+03	-.65000E+03	.00000E+00	89	-.31000E+03	-.65000E+03	.00000E+00	90	-.31000E+03	-.65000E+03	.00000E+00
91	-.29000E+03	-.65000E+03	.00000E+00	92	-.29000E+03	-.65000E+03	.00000E+00	93	-.27000E+03	-.65000E+03	.00000E+00
94	-.27000E+03	-.65000E+03	.00000E+00	95	-.25000E+03	-.65000E+03	.00000E+00	96	-.25000E+03	-.65000E+03	.00000E+00
97	-.23000E+03	-.65000E+03	.00000E+00	98	-.23000E+03	-.65000E+03	.00000E+00	99	-.21000E+03	-.65000E+03	.00000E+00
100	-.21000E+03	-.65000E+03	.00000E+00	101	-.19000E+03	-.65000E+03	.00000E+00	102	-.19000E+03	-.65000E+03	.00000E+00
103	-.17000E+03	-.65000E+03	.00000E+00	104	-.17000E+03	-.65000E+03	.00000E+00	105	-.15000E+03	-.65000E+03	.00000E+00
106	-.15000E+03	-.65000E+03	.00000E+00	107	-.13000E+03	-.65000E+03	.00000E+00	108	-.13000E+03	-.65000E+03	.00000E+00
109	-.11000E+03	-.65000E+03	.00000E+00	110	-.11000E+03	-.65000E+03	.00000E+00	111	-.90003E+02	-.65000E+03	.00000E+00
112	-.90003E+02	-.65000E+03	.00000E+00	113	-.70006E+02	-.65001E+03	.00000E+00	114	-.70006E+02	-.65001E+03	.00000E+00
115	-.50010E+02	-.65001E+03	.00000E+00	116	-.50010E+02	-.65001E+03	.00000E+00	117	-.30018E+02	-.65002E+03	.00000E+00
118	-.30018E+02	-.65002E+03	.00000E+00	119	-.10031E+02	-.65003E+03	.00000E+00	120	-.10031E+02	-.65003E+03	.00000E+00
121	.99437E+01	-.65006E+03	.00000E+00	122	.99437E+01	-.65006E+03	.00000E+00	123	.29898E+02	-.65010E+03	.00000E+00
124	.29898E+02	-.65010E+03	.00000E+00	125	.49817E+02	-.65018E+03	.00000E+00	126	.49817E+02	-.65018E+03	.00000E+00
127	.69671E+02	-.65033E+03	.00000E+00	128	.69671E+02	-.65033E+03	.00000E+00	129	.89408E+02	-.65059E+03	.00000E+00
130	.89409E+02	-.65059E+03	.00000E+00	131	.10893E+03	-.65107E+03	.00000E+00	132	.10894E+03	-.65106E+03	.00000E+00
133	.12808E+03	-.65192E+03	.00000E+00	134	.12808E+03	-.65192E+03	.00000E+00	135	.14654E+03	-.65346E+03	[illegible]+00
136	.14654E+03	-.65346E+03	.00000E+00	137	.16374E+03	-.65626E+03	.00000E+00	138	.16375E+03	-.65625E+03	[illegible]+00
139	.17865E+03	-.66135E+03	.00000E+00	140	.17865E+03	-.66135E+03	.00000E+00	141	.18923E+03	-.67077E+03	.00000E+00
142	.18923E+03	-.67077E+03	.00000E+00	143	.19145E+03	-.68855E+03	.00000E+00	144	.19143E+03	-.68857E+03	.00000E+00
145	.17640E+03	-.72360E+03	.00000E+00	146	.17624E+03	-.72376E+03	.00000E+00	147	.12150E+03	-.79850E+03	.00000E+00
148	.11891E+03	-.80109E+03	.00000E+00	149	-.21499E+03	-.11550E+04	.00000E+00	150	-.21069E+03	-.11507E+04	.00000E+00
151	-.93762E+03	-.18976E+04	.00000E+00	152	-.93095E+03	-.18909E+04	.00000E+00	153	-.10127E+04	-.19927E+04	.00000E+00
154	-.10124E+04	-.19924E+04	.00000E+00	155	-.99951E+03	-.19995E+04	.00000E+00	156	-.99950E+03	-.19995E+04	.00000E+00
157	-.97997E+03	-.20000E+04	.00000E+00	158	-.97997E+03	-.20000E+04	.00000E+00	159	-.96000E+03	-.20000E+04	.00000E+00
160	-.96000E+03	-.20000E+04	.00000E+00	161	-.94000E+03	-.20000E+04	.00000E+00	162	-.94000E+03	-.20000E+04	.00000E+00
163	-.92000E+03	-.20000E+04	.00000E+00	164	-.92000E+03	-.20000E+04	.00000E+00	165	-.90000E+03	-.20000E+04	.00000E+00
166	-.90000E+03	-.20000E+04	.00000E+00	167	-.88000E+03	-.20000E+04	.00000E+00	168	-.88000E+03	-.20000E+04	.00000E+00
169	-.86000E+03	-.20000E+04	.00000E+00	170	-.86000E+03	-.20000E+04	.00000E+00	171	-.84000E+03	-.20000E+04	.00000E+00
172	-.84000E+03	-.20000E+04	.00000E+00	173	-.82000E+03	-.20000E+04	.00000E+00	174	-.82000E+03	-.20000E+04	.00000E+00
175	-.80000E+03	-.20000E+04	.00000E+00	176	-.80000E+03	-.20000E+04	.00000E+00	177	-.78000E+03	-.20000E+04	.00000E+00
178	-.78000E+03	-.20000E+04	.00000E+00	179	-.76000E+03	-.20000E+04	.00000E+00	180	-.76000E+03	-.20000E+04	.00000E+00
181	-.74000E+03	-.20000E+04	.00000E+00	182	-.74000E+03	-.20000E+04	.00000E+00	183	-.72000E+03	-.20000E+04	.00000E+00
184	-.72000E+03	-.20000E+04	.00000E+00	185	-.70000E+03	-.20000E+04	.00000E+00	186	-.70000E+03	-.20000E+04	.00000E+00
187	-.68000E+03	-.20000E+04	.00000E+00	188	-.68000E+03	-.20000E+04	.00000E+00	189	-.66000E+03	-.20000E+04	.00000E+00
190	-.66000E+03	-.20000E+04	.00000E+00	191	-.64000E+03	-.20000E+04	.00000E+00	192	-.64000E+03	-.20000E+04	.00000E+00
193	-.62000E+03	-.20000E+04	.00000E+00	194	-.62000E+03	-.20000E+04	.00000E+00	195	-.60000E+03	-.20000E+04	.00000E+00
196	-.60000E+03	-.20000E+04	.00000E+00	197	-.58000E+03	-.20000E+04	.00000E+00	198	-.58000E+03	-.20000E+04	.00000E+00
199	-.56000E+03	-.20000E+04	.00000E+00	200	-.56000E+03	-.20000E+04	.00000E+00	201	-.54000E+03	-.20000E+04	.00000E+00
202	-.54000E+03	-.20000E+04	.00000E+00	203	-.52000E+03	-.20000E+04	.00000E+00	204	-.52000E+03	-.20000E+04	.00000E+00
205	-.50000E+03	-.20000E+04	.00000E+00	206	-.50000E+03	-.20000E+04	.00000E+00	207	-.48000E+03	-.20000E+04	.00000E+00
208	-.48000E+03	-.20000E+04	.00000E+00	209	-.46000E+03	-.20000E+04	.00000E+00	210	-.46000E+03	-.20000E+04	[illegible]E+00
211	-.44000E+03	-.20000E+04	.00000E+00	212	-.44000E+03	-.20000E+04	.00000E+00	213	-.42000E+03	-.20000E+04	[illegible]0E+00
214	-.42000E+03	-.20000E+04	.00000E+00	215	-.40000E+03	-.20000E+04	.00000E+00	216	-.40000E+03	-.20000E+04	.00000E+00
217	-.37995E+03	-.20000E+04	.00000E+00	218	-.37995E+03	-.20000E+04	.00000E+00	219	-.35930E+03	-.19993E+04	.00000E+00
220	-.35932E+03	-.19993E+04	.00000E+00	221	-.32950E+03	-.19895E+04	.00000E+00	222	-.33030E+03	-.19903E+04	.00000E+00
223	-.17053E+03	-.18505E+04	.16200E-01	224	-.19551E+03	-.18755E+04	.16200E-01	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

	.12884E+00	2	.12884E+00	3	.12884E+00	4	.12884E+00	5	.12884E+00	6	.12884E+00
	.12884E+00	8	.12884E+00	9	.12884E+00	10	.12884E+00	11	.12884E+00	12	.12884E+00
13	.12884E+00	14	.12884E+00	15	.12884E+00	16	.12884E+00	17	.12884E+00	18	.12884E+00
19	.12884E+00	20	.12884E+00	21	.12884E+00	22	.12884E+00	23	.12884E+00	24	.12884E+00
25	.12884E+00	26	.12884E+00	27	.12884E+00	28	.12884E+00	29	.12884E+00	30	.12884E+00
31	.12884E+00	32	.12884E+00	33	.12884E+00	34	.12884E+00	35	.12884E+00	36	.12884E+00
37	.12884E+00	38	.12884E+00	39	.12884E+00	40	.12884E+00	41	.12884E+00	42	.12884E+00
43	.12884E+00	44	.12884E+00	45	.12884E+00	46	.12884E+00	47	.12884E+00	48	.12884E+00
49	.12884E+00	50	.12884E+00	51	.12884E+00	52	.12884E+00	53	.12884E+00	54	.12884E+00
55	.12884E+00	56	.12884E+00	57	.12884E+00	58	.12884E+00	59	.12884E+00	60	.12884E+00
61	.12884E+00	62	.12884E+00	63	.12884E+00	64	.12884E+00	65	.12884E+00	66	.12884E+00
67	.12884E+00	68	.12884E+00	69	.12884E+00	70	.12884E+00	71	.12884E+00	72	.12884E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.12884E+00	72	.12884E+00	73	.12884E+00	74	.12884E+00	75	.12884E+00	76	.12884E+00
77	.12884E+00	78	.12884E+00	79	.12884E+00	80	.12884E+00	81	.12884E+00	82	.12884E+00
83	.12884E+00	84	.12884E+00	85	.12884E+00	86	.12884E+00	87	.12884E+00	88	.12884E+00
89	.12884E+00	90	.12884E+00	91	.12884E+00	92	.12884E+00	93	.12884E+00	94	.12884E+00
95	.12884E+00	96	.12884E+00	97	.12884E+00	98	.12884E+00	99	.12884E+00	100	.12884E+00
101	.12884E+00	102	.12884E+00	103	.12884E+00	104	.12884E+00	105	.12884E+00	106	.12884E+00
107	.12884E+00	108	.12884E+00	109	.12884E+00	110	.12884E+00	111	.12884E+00	112	.12884E+00
113	.12884E+00	114	.12884E+00	115	.12884E+00	116	.12884E+00	117	.12884E+00	118	.12884E+00
9	.12883E+00	120	.12883E+00	121	.12883E+00	122	.12883E+00	123	.12882E+00	124	.12882E+00
5	.12881E+00	126	.12881E+00	127	.12878E+00	128	.12878E+00	129	.12874E+00	130	.12874E+00
131	.12866E+00	132	.12866E+00	133	.12851E+00	134	.12851E+00	135	.12825E+00	136	.12825E+00
137	.12778E+00	138	.12778E+00	139	.12693E+00	140	.12693E+00	141	.12538E+00	142	.12538E+00
143	.12257E+00	144	.12257E+00	145	.11740E+00	146	.11738E+00	147	.10777E+00	148	.10747E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.95509E-01	148	.95239E-01	149	.70671E-01	150	.70869E-01	151	.51193E-01	152	.51292E-01
153	.49870E-01	154	.49873E-01	155	.49760E-01	156	.49780E-01	157	.49774E-01	158	.49774E-01
159	.49774E-01	160	.49774E-01	161	.49773E-01	162	.49773E-01	163	.49773E-01	164	.49773E-01
165	.49773E-01	166	.49773E-01	167	.49773E-01	168	.49773E-01	169	.49773E-01	170	.49773E-01
171	.49773E-01	172	.49773E-01	173	.49773E-01	174	.49773E-01	175	.49773E-01	176	.49773E-01
177	.49773E-01	178	.49773E-01	179	.49773E-01	180	.49773E-01	181	.49773E-01	182	.49773E-01
183	.49773E-01	184	.49773E-01	185	.49773E-01	186	.49773E-01	187	.49773E-01	188	.49773E-01
189	.49773E-01	190	.49773E-01	191	.49773E-01	192	.49773E-01	193	.49773E-01	194	.49773E-01
195	.49773E-01	196	.49773E-01	197	.49773E-01	198	.49773E-01	199	.49773E-01	200	.49773E-01
201	.49773E-01	202	.49773E-01	203	.49773E-01	204	.49773E-01	205	.49773E-01	206	.49773E-01
207	.49773E-01	208	.49773E-01	209	.49773E-01	210	.49773E-01	211	.49773E-01	212	.49773E-01
213	.49773E-01	214	.49773E-01	215	.49774E-01	216	.49774E-01	217	.49774E-01	218	.49774E-01
219	.49783E-01	220	.49782E-01	221	.49911E-01	222	.49901E-01	223	.51907E-01	224	.51523E-01

GREEN RIVER: 1) GRN5420@93% 2) GRN5350@95% 3) GRN5350@95%; 5.0E-08cm/s cover flux

TIME = 67857.5900 TIME STEP = 150

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .26062E-01 AT NODE 115

CUMULATIVE INFLOW INTO SYSTEM IS = .21986E+04
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.22172E+04
CUMULATIVE CHANGE IN SYSTEM IS = -.18610E+02

0 NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.65000E+03	-.65000E+03	-.16076E-01	2	-.65000E+03	-.65000E+03	-.16234E-01	3	-.64936E+03	-.65436E+03	.00000E+00
4	-.64936E+03	-.65436E+03	.00000E+00	5	-.64871E+03	-.65871E+03	.00000E+00	6	-.64871E+03	-.65871E+03	.00000E+00
7	-.64803E+03	-.66303E+03	.00000E+00	8	-.64803E+03	-.66303E+03	.00000E+00	9	-.64734E+03	-.66734E+03	.00000E+00
10	-.64734E+03	-.66734E+03	.00000E+00	11	-.64662E+03	-.67162E+03	.00000E+00	12	-.64662E+03	-.67162E+03	.00000E+00
13	-.64589E+03	-.67589E+03	.00000E+00	14	-.64589E+03	-.67589E+03	.00000E+00	15	-.64513E+03	-.68013E+03	.00000E+00
16	-.64513E+03	-.68013E+03	.00000E+00	17	-.64435E+03	-.68435E+03	.00000E+00	18	-.64435E+03	-.68435E+03	.00000E+00
19	-.64354E+03	-.68854E+03	.00000E+00	20	-.64354E+03	-.68654E+03	.00000E+00	21	-.64272E+03	-.69272E+03	.00000E+00
22	-.64272E+03	-.69272E+03	.00000E+00	23	-.64187E+03	-.69687E+03	.00000E+00	24	-.64187E+03	-.69687E+03	.00000E+00
25	-.64100E+03	-.70100E+03	.00000E+00	26	-.64100E+03	-.70100E+03	.00000E+00	27	-.64010E+03	-.70510E+03	.00000E+00
28	-.64010E+03	-.70510E+03	.00000E+00	29	-.63918E+03	-.70918E+03	.00000E+00	30	-.63916E+03	-.70918E+03	.00000E+00
31	-.63623E+03	-.71323E+03	.00000E+00	32	-.63823E+03	-.71323E+03	.00000E+00	33	-.63726E+03	-.71726E+03	.00000E+00
34	-.63726E+03	-.71726E+03	.00000E+00	35	-.63627E+03	-.72127E+03	.00000E+00	36	-.63627E+03	-.72127E+03	.00000E+00
37	-.63524E+03	-.72524E+03	.00000E+00	38	-.63524E+03	-.72524E+03	.00000E+00	39	-.63419E+03	-.72919E+03	[illegible]E+00
40	-.63419E+03	-.72919E+03	.00000E+00	41	-.63312E+03	-.73312E+03	.00000E+00	42	-.63312E+03	-.73312E+03	[illegible]E+00
43	-.63202E+03	-.73702E+03	.00000E+00	44	-.63202E+03	-.73702E+03	.00000E+00	45	-.63089E+03	-.74089E+03	.00000E+00
46	-.63089E+03	-.74089E+03	.00000E+00	47	-.62973E+03	-.74473E+03	.00000E+00	48	-.62973E+03	-.74473E+03	.00000E+00
49	-.62854E+03	-.74854E+03	.00000E+00	50	-.62854E+03	-.74854E+03	.00000E+00	51	-.62733E+03	-.75233E+03	.00000E+00
52	-.62733E+03	-.75233E+03	.00000E+00	53	-.62608E+03	-.75608E+03	.00000E+00	54	-.62608E+03	-.75608E+03	.00000E+00
55	-.62481E+03	-.75981E+03	.00000E+00	56	-.62481E+03	-.75981E+03	.00000E+00	57	-.62351E+03	-.76351E+03	.00000E+00
58	-.62351E+03	-.76351E+03	.00000E+00	59	-.62218E+03	-.76718E+03	.00000E+00	60	-.62218E+03	-.76718E+03	.00000E+00
61	-.62081E+03	-.77081E+03	.00000E+00	62	-.62081E+03	-.77081E+03	.00000E+00	63	-.61942E+03	-.77442E+03	.00000E+00
64	-.61942E+03	-.77442E+03	.00000E+00	65	-.61800E+03	-.77800E+03	.00000E+00	66	-.61800E+03	-.77800E+03	.00000E+00
67	-.61654E+03	-.78154E+03	.00000E+00	68	-.61654E+03	-.78154E+03	.00000E+00	69	-.61506E+03	-.78506E+03	.00000E+00
70	-.61506E+03	-.78506E+03	.00000E+00	71	-.61354E+03	-.78854E+03	.00000E+00	72	-.61354E+03	-.78854E+03	.00000E+00
73	-.61199E+03	-.79199E+03	.00000E+00	74	-.61199E+03	-.79199E+03	.00000E+00	75	-.60547E+03	-.80547E+03	.00000E+00
76	-.60547E+03	-.80547E+03	.00000E+00	77	-.59843E+03	-.81843E+03	.00000E+00	78	-.59844E+03	-.81844E+03	.00000E+00
79	-.59086E+03	-.83086E+03	.00000E+00	80	-.59086E+03	-.83086E+03	.00000E+00	81	-.58273E+03	-.84273E+03	.00000E+00
82	-.58273E+03	-.84273E+03	.00000E+00	83	-.57405E+03	-.85405E+03	.00000E+00	84	-.57405E+03	-.85405E+03	.00000E+00
85	-.56482E+03	-.86482E+03	.00000E+00	86	-.56482E+03	-.86482E+03	.00000E+00	87	-.55503E+03	-.87503E+03	.00000E+00
88	-.55503E+03	-.87503E+03	.00000E+00	89	-.54470E+03	-.88470E+03	.00000E+00	90	-.54470E+03	-.88470E+03	.00000E+00
91	-.53382E+03	-.89382E+03	.00000E+00	92	-.53382E+03	-.89382E+03	.00000E+00	93	-.52241E+03	-.90241E+03	.00000E+00
94	-.52241E+03	-.90241E+03	.00000E+00	95	-.51048E+03	-.91048E+03	.00000E+00	96	-.51049E+03	-.91049E+03	.00000E+00
97	-.49805E+03	-.91805E+03	.00000E+00	98	-.49805E+03	-.91805E+03	.00000E+00	99	-.48513E+03	-.92513E+03	.00000E+00
100	-.48513E+03	-.92513E+03	.00000E+00	101	-.47174E+03	-.93174E+03	.00000E+00	102	-.47174E+03	-.93174E+03	.00000E+00
103	-.45790E+03	-.93790E+03	.00000E+00	104	-.45790E+03	-.93790E+03	.00000E+00	105	-.44363E+03	-.94363E+03	.00000E+00
106	-.44363E+03	-.94363E+03	.00000E+00	107	-.42894E+03	-.94894E+03	.00000E+00	108	-.42894E+03	-.94894E+03	.00000E+00
109	-.41387E+03	-.95387E+03	.00000E+00	110	-.41387E+03	-.95387E+03	.00000E+00	111	-.39843E+03	-.95843E+03	.00000E+00
112	-.39843E+03	-.95843E+03	.00000E+00	113	-.38264E+03	-.96264E+03	.00000E+00	114	-.38264E+03	-.96264E+03	[illegible]E+00
115	-.36652E+03	-.96652E+03	.00000E+00	116	-.36652E+03	-.96652E+03	.00000E+00	117	-.35010E+03	-.97010E+03	[illegible]0E+00
118	-.35010E+03	-.97010E+03	.00000E+00	119	-.33339E+03	-.97339E+03	.00000E+00	120	-.33339E+03	-.97339E+03	.00000E+00
121	-.31642E+03	-.97642E+03	.00000E+00	122	-.31642E+03	-.97642E+03	.00000E+00	123	-.29920E+03	-.97920E+03	.00000E+00
124	-.29920E+03	-.97920E+03	.00000E+00	125	-.28175E+03	-.98175E+03	.00000E+00	126	-.28175E+03	-.98175E+03	.00000E+00
127	-.26408E+03	-.98408E+03	.00000E+00	128	-.26408E+03	-.98408E+03	.00000E+00	129	-.24622E+03	-.98622E+03	.00000E+00

130	-.24622E+03	-.98622E+03	.00000E+00	131	-.22818E+03	-.98818E+03	.00000E+00	132	-.22818E+03	-.98818E+03	.00000E+00
133	-.20997E+03	-.98997E+03	.00000E+00	134	-.20997E+03	-.98997E+03	.00000E+00	135	-.19161E+03	-.99161E+03	.00000E+00
136	-.19161E+03	-.99161E+03	.00000E+00	137	-.17310E+03	-.99310E+03	.00000E+00	138	-.17310E+03	-.99310E+03	.00000E+00
139	-.15447E+03	-.99447E+03	.00000E+00	140	-.15447E+03	-.99447E+03	.00000E+00	141	-.13571E+03	-.99571E+03	.00000E+00
142	-.13571E+03	-.99571E+03	.00000E+00	143	-.11685E+03	-.99685E+03	.00000E+00	144	-.11685E+03	-.99685E+03	.00000E+00
[illegible]	-.97880E+02	-.99788E+03	.00000E+00	146	-.97861E+02	-.99788E+03	.00000E+00	147	-.78817E+02	-.99882E+03	.00000E+00
[illegible]	.78827E+02	-.99883E+03	.00000E+00	149	-.51703E+02	-.99170E+03	.00000E+00	150	-.51702E+02	-.99170E+03	.00000E+00
[illegible]	-.25515E+02	-.98551E+03	.00000E+00	152	-.25514E+02	-.98551E+03	.00000E+00	153	-.11584E+00	-.98012E+03	.00000E+00
154	-.11475E+00	-.98011E+03	.00000E+00	155	.24610E+02	-.97539E+03	.00000E+00	156	.24611E+02	-.97539E+03	.00000E+00
157	.48757E+02	-.97124E+03	.00000E+00	158	.48758E+02	-.97124E+03	.00000E+00	159	.72407E+02	-.96759E+03	.00000E+00
160	.72408E+02	-.96759E+03	.00000E+00	161	.95624E+02	-.96438E+03	.00000E+00	162	.95624E+02	-.96438E+03	.00000E+00
163	.11846E+03	-.96154E+03	.00000E+00	164	.11846E+03	-.96154E+03	.00000E+00	165	.14098E+03	-.95902E+03	.00000E+00
166	.14098E+03	-.95902E+03	.00000E+00	167	.16320E+03	-.95680E+03	.00000E+00	168	.16320E+03	-.95680E+03	.00000E+00
169	.18517E+03	-.95463E+03	.00000E+00	170	.18517E+03	-.95463E+03	.00000E+00	171	.20692E+03	-.95308E+03	.00000E+00
172	.20692E+03	-.95308E+03	.00000E+00	173	.22848E+03	-.95152E+03	.00000E+00	174	.22848E+03	-.95152E+03	.00000E+00
175	.24986E+03	-.95014E+03	.00000E+00	176	.24986E+03	-.95014E+03	.00000E+00	177	.27109E+03	-.94891E+03	.00000E+00
178	.27109E+03	-.94891E+03	.00000E+00	179	.29218E+03	-.94782E+03	.00000E+00	180	.29218E+03	-.94782E+03	.00000E+00
181	.31316E+03	-.94684E+03	.00000E+00	182	.31316E+03	-.94684E+03	.00000E+00	183	.33403E+03	-.94597E+03	.00000E+00
184	.33403E+03	-.94597E+03	.00000E+00	185	.35480E+03	-.94520E+03	.00000E+00	186	.35480E+03	-.94520E+03	.00000E+00
187	.37550E+03	-.94450E+03	.00000E+00	188	.37550E+03	-.94450E+03	.00000E+00	189	.39612E+03	-.94388E+03	.00000E+00
190	.39612E+03	-.94388E+03	.00000E+00	191	.41667E+03	-.94333E+03	.00000E+00	192	.41667E+03	-.94333E+03	.00000E+00
193	.43716E+03	-.94284E+03	.00000E+00	194	.43716E+03	-.94284E+03	.00000E+00	195	.45760E+03	-.94240E+03	.00000E+00
196	.45760E+03	-.94240E+03	.00000E+00	197	.47799E+03	-.94201E+03	.00000E+00	198	.47799E+03	-.94201E+03	.00000E+00
199	.49834E+03	-.94166E+03	.00000E+00	200	.49834E+03	-.94166E+03	.00000E+00	201	.51866E+03	-.94134E+03	.00000E+00
202	.51866E+03	-.94134E+03	.00000E+00	203	.53894E+03	-.94106E+03	.00000E+00	204	.53894E+03	-.94106E+03	.00000E+00
205	.55919E+03	-.94081E+03	.00000E+00	206	.55919E+03	-.94081E+03	.00000E+00	207	.57942E+03	-.94058E+03	.00000E+00
208	.57942E+03	-.94058E+03	.00000E+00	209	.59962E+03	-.94038E+03	.00000E+00	210	.59962E+03	-.94038E+03	.00000E+00
211	.61980E+03	-.94020E+03	.00000E+00	212	.61980E+03	-.94020E+03	.00000E+00	213	.63996E+03	-.94004E+03	.00000E+00
214	.63996E+03	-.94004E+03	.00000E+00	215	.66011E+03	-.93989E+03	.00000E+00	216	.66011E+03	-.93989E+03	.00000E+00
217	.68024E+03	-.93976E+03	.00000E+00	218	.68024E+03	-.93976E+03	.00000E+00	219	.70035E+03	-.93965E+03	.00000E+00
220	.70035E+03	-.93965E+03	.00000E+00	221	.72045E+03	-.93955E+03	.00000E+00	222	.72045E+03	-.93955E+03	.00000E+00
[illegible]	.74055E+03	-.93945E+03	.16200E-01	224	.74055E+03	-.93945E+03	.16200E-01	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.12884E+00	2	.12884E+00	3	.12810E+00	4	.12810E+00	5	.12737E+00	6	.12737E+00
7	.12665E+00	8	.12665E+00	9	.12594E+00	10	.12594E+00	11	.12525E+00	12	.12525E+00
13	.12456E+00	14	.12456E+00	15	.12389E+00	16	.12389E+00	17	.12323E+00	18	.12323E+00
19	.12257E+00	20	.12257E+00	21	.12193E+00	22	.12193E+00	23	.12130E+00	24	.12130E+00
25	.12068E+00	26	.12068E+00	27	.12007E+00	28	.12007E+00	29	.11947E+00	30	.11947E+00
31	.11888E+00	32	.11888E+00	33	.11830E+00	34	.11830E+00	35	.11773E+00	36	.11773E+00
37	.11717E+00	38	.11717E+00	39	.11662E+00	40	.11662E+00	41	.11608E+00	42	.11608E+00
43	.11554E+00	44	.11554E+00	45	.11502E+00	46	.11502E+00	47	.11450E+00	48	.11450E+00
49	.11399E+00	50	.11399E+00	51	.11349E+00	52	.11349E+00	53	.11300E+00	54	.11300E+00
55	.11252E+00	56	.11252E+00	57	.11205E+00	58	.11205E+00	59	.11158E+00	60	.11158E+00
61	.11112E+00	62	.11112E+00	63	.11067E+00	64	.11067E+00	65	.11023E+00	66	.11023E+00
67	.10980E+00	68	.10980E+00	69	.10937E+00	70	.10937E+00	71	.10895E+00	72	.10895E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.10695E+00	72	.10895E+00	73	.10854E+00	74	.10854E+00	75	.10696E+00	76	.10696E+00
[illegible]7	.10549E+00	78	.10549E+00	79	.10412E+00	80	.10412E+00	81	.10285E+00	82	.10285E+00
[illegible]3	.10167E+00	84	.10167E+00	85	.10057E+00	86	.10057E+00	87	.99561E-01	88	.99561E-01
89	.98623E-01	90	.98623E-01	91	.97756E-01	92	.97756E-01	93	.96956E-01	94	.96956E-01
95	.96218E-01	96	.96218E-01	97	.95538E-01	98	.95538E-01	99	.94911E-01	100	.94911E-01
101	.94335E-01	102	.94335E-01	103	.93805E-01	104	.93805E-01	105	.93319E-01	106	.93319E-01
107	.92873E-01	108	.92873E-01	109	.92464E-01	110	.92464E-01	111	.92090E-01	112	.92090E-01

113	.91747E-01	114	.91747E-01	115	.91434E-01	116	.91434E-01	117	.91147E-01	118	.91147E-01
119	.90885E-01	120	.90885E-01	121	.90646E-01	122	.90646E-01	123	.90428E-01	124	.90428E-01
125	.90229E-01	126	.90229E-01	127	.90047E-01	128	.90047E-01	129	.89882E-01	130	.89882E-01
131	.89731E-01	132	.89731E-01	133	.89594E-01	134	.89594E-01	135	.89469E-01	136	.89469E-01
137	.89355E-01	138	.89355E-01	139	.89251E-01	140	.89251E-01	141	.89157E-01	142	.89157E-01
143	.89071E-01	144	.89071E-01	145	.88993E-01	146	.88993E-01	147	.88923E-01	148	.88922E-01
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.79123E-01	148	.79123E-01	149	.79580E-01	150	.79580E-01	151	.79984E-01	152	.79984E-01
153	.80340E-01	154	.80340E-01	155	.80656E-01	156	.80656E-01	157	.80936E-01	158	.80936E-01
159	.81185E-01	160	.81185E-01	161	.81405E-01	162	.81405E-01	163	.81602E-01	164	.81602E-01
165	.81777E-01	166	.81777E-01	167	.81932E-01	168	.81932E-01	169	.82071E-01	170	.82071E-01
171	.82194E-01	172	.82194E-01	173	.82304E-01	174	.82304E-01	175	.82403E-01	176	.82403E-01
177	.82490E-01	178	.82490E-01	179	.82569E-01	180	.82569E-01	181	.82639E-01	182	.82639E-01
183	.82701E-01	184	.82701E-01	185	.82757E-01	186	.82757E-01	187	.82807E-01	188	.82807E-01
189	.82852E-01	190	.82852E-01	191	.82892E-01	192	.82892E-01	193	.82927E-01	194	.82927E-01
195	.82959E-01	196	.82959E-01	197	.82987E-01	198	.82987E-01	199	.83013E-01	200	.83013E-01
201	.83036E-01	202	.83036E-01	203	.83057E-01	204	.83057E-01	205	.83075E-01	206	.83075E-01
207	.83091E-01	208	.83091E-01	209	.83106E-01	210	.83106E-01	211	.83119E-01	212	.83119E-01
213	.83131E-01	214	.83131E-01	215	.83142E-01	216	.83142E-01	217	.83151E-01	218	.83151E-01
219	.83159E-01	220	.83159E-01	221	.83167E-01	222	.83167E-01	223	.83174E-01	224	.83174E-01

GREEN RIVER: 1) GRN542@93% 2) GRN535@95% 3) GRN535@95%; 5.0E-08cm/s cover flux

TIME = 142857.6000 TIME STEP = 300

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .22888E-01 AT NODE 194

CUMULATIVE INFLOW INTO SYSTEM IS = .46286E+04
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.46419E+04
CUMULATIVE CHANGE IN SYSTEM IS = -.13303E+02

0 NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.65000E+03	-.65000E+03	-.16081E-01	2	-.65000E+03	-.65000E+03	-.16238E-01	3	-.64936E+03	-.65436E+03	.00000E+0
4	-.64936E+03	-.65436E+03	.00000E+00	5	-.64871E+03	-.65871E+03	.00000E+00	6	-.64871E+03	-.65871E+03	.00000E+0
7	-.64803E+03	-.66303E+03	.00000E+00	8	-.64803E+03	-.66303E+03	.00000E+00	9	-.64734E+03	-.66734E+03	.00000E+0
10	-.64734E+03	-.66734E+03	.00000E+00	11	-.64662E+03	-.67162E+03	.00000E+00	12	-.64662E+03	-.67162E+03	.00000E+0
13	-.64589E+03	-.67589E+03	.00000E+00	14	-.64589E+03	-.67589E+03	.00000E+00	15	-.64513E+03	-.68013E+03	.00000E+0
16	-.64513E+03	-.68013E+03	.00000E+00	17	-.64435E+03	-.68435E+03	.00000E+00	18	-.64435E+03	-.68435E+03	0E+0
19	-.64354E+03	-.68854E+03	.00000E+00	20	-.64354E+03	-.68854E+03	.00000E+00	21	-.64272E+03	-.69272E+03	0E+0
22	-.64272E+03	-.69272E+03	.00000E+00	23	-.64187E+03	-.69687E+03	.00000E+00	24	-.64187E+03	-.69687E+03	.00000E+0
25	-.64100E+03	-.70100E+03	.00000E+00	26	-.64100E+03	-.70100E+03	.00000E+00	27	-.64010E+03	-.70510E+03	.00000E+0
28	-.64010E+03	-.70510E+03	.00000E+00	29	-.63918E+03	-.70918E+03	.00000E+00	30	-.63918E+03	-.70918E+03	.00000E+0
31	-.63823E+03	-.71323E+03	.00000E+00	32	-.63823E+03	-.71323E+03	.00000E+00	33	-.63726E+03	-.71726E+03	.00000E+0

34	-.63726E+03	-.71726E+03	.00000E+00	35	-.63626E+03	-.72126E+03	.00000E+00	36	-.63626E+03	-.72126E+03	.00000E+00
37	-.63524E+03	-.72524E+03	.00000E+00	38	-.63524E+03	-.72524E+03	.00000E+00	39	-.63419E+03	-.72919E+03	.00000E+00
40	-.63419E+03	-.72919E+03	.00000E+00	41	-.63312E+03	-.73312E+03	.00000E+00	42	-.63312E+03	-.73312E+03	.00000E+00
43	-.63201E+03	-.73701E+03	.00000E+00	44	-.63201E+03	-.73701E+03	.00000E+00	45	-.63088E+03	-.74088E+03	.00000E+00
46	-.63088E+03	-.74088E+03	.00000E+00	47	-.62973E+03	-.74473E+03	.00000E+00	48	-.62973E+03	-.74473E+03	.00000E+00
	-.62854E+03	-.74854E+03	.00000E+00	50	-.62854E+03	-.74854E+03	.00000E+00	51	-.62732E+03	-.75232E+03	.00000E+00
	.62732E+03	-.75232E+03	.00000E+00	53	-.62608E+03	-.75608E+03	.00000E+00	54	-.62608E+03	-.75608E+03	.00000E+00
	-.62481E+03	-.75981E+03	.00000E+00	56	-.62481E+03	-.75981E+03	.00000E+00	57	-.62350E+03	-.76350E+03	.00000E+00
58	-.62350E+03	-.76350E+03	.00000E+00	59	-.62217E+03	-.76717E+03	.00000E+00	60	-.62217E+03	-.76717E+03	.00000E+00
61	-.62081E+03	-.77081E+03	.00000E+00	62	-.62081E+03	-.77081E+03	.00000E+00	63	-.61941E+03	-.77441E+03	.00000E+00
64	-.61941E+03	-.77441E+03	.00000E+00	65	-.61799E+03	-.77799E+03	.00000E+00	66	-.61799E+03	-.77799E+03	.00000E+00
67	-.61654E+03	-.78154E+03	.00000E+00	68	-.61654E+03	-.78154E+03	.00000E+00	69	-.61505E+03	-.78505E+03	.00000E+00
70	-.61505E+03	-.78505E+03	.00000E+00	71	-.61353E+03	-.78853E+03	.00000E+00	72	-.61353E+03	-.78853E+03	.00000E+00
73	-.61198E+03	-.79198E+03	.00000E+00	74	-.61198E+03	-.79198E+03	.00000E+00	75	-.60546E+03	-.80546E+03	.00000E+00
76	-.60546E+03	-.80546E+03	.00000E+00	77	-.59842E+03	-.81842E+03	.00000E+00	78	-.59842E+03	-.81842E+03	.00000E+00
79	-.59084E+03	-.83084E+03	.00000E+00	80	-.59084E+03	-.83084E+03	.00000E+00	81	-.58271E+03	-.84271E+03	.00000E+00
82	-.58272E+03	-.84272E+03	.00000E+00	83	-.57404E+03	-.85404E+03	.00000E+00	84	-.57404E+03	-.85404E+03	.00000E+00
85	-.56480E+03	-.86480E+03	.00000E+00	86	-.56480E+03	-.86480E+03	.00000E+00	87	-.55501E+03	-.87501E+03	.00000E+00
88	-.55502E+03	-.87502E+03	.00000E+00	89	-.54468E+03	-.88468E+03	.00000E+00	90	-.54468E+03	-.88468E+03	.00000E+00
91	-.53380E+03	-.89380E+03	.00000E+00	92	-.53380E+03	-.89380E+03	.00000E+00	93	-.52239E+03	-.90239E+03	.00000E+00
94	-.52239E+03	-.90239E+03	.00000E+00	95	-.51046E+03	-.91046E+03	.00000E+00	96	-.51046E+03	-.91046E+03	.00000E+00
97	-.49803E+03	-.91803E+03	.00000E+00	98	-.49803E+03	-.91803E+03	.00000E+00	99	-.48510E+03	-.92510E+03	.00000E+00
100	-.48510E+03	-.92510E+03	.00000E+00	101	-.47171E+03	-.93171E+03	.00000E+00	102	-.47171E+03	-.93171E+03	.00000E+00
103	-.45786E+03	-.93786E+03	.00000E+00	104	-.45787E+03	-.93787E+03	.00000E+00	105	-.44359E+03	-.94359E+03	.00000E+00
106	-.44359E+03	-.94359E+03	.00000E+00	107	-.42890E+03	-.94890E+03	.00000E+00	108	-.42890E+03	-.94890E+03	.00000E+00
109	-.41383E+03	-.95383E+03	.00000E+00	110	-.41383E+03	-.95383E+03	.00000E+00	111	-.39838E+03	-.95838E+03	.00000E+00
112	-.39838E+03	-.95838E+03	.00000E+00	113	-.38259E+03	-.96259E+03	.00000E+00	114	-.38259E+03	-.96259E+03	.00000E+00
115	-.36647E+03	-.96647E+03	.00000E+00	116	-.36647E+03	-.96647E+03	.00000E+00	117	-.35005E+03	-.97005E+03	.00000E+00
118	-.35005E+03	-.97005E+03	.00000E+00	119	-.33334E+03	-.97334E+03	.00000E+00	120	-.33334E+03	-.97334E+03	.00000E+00
121	-.31636E+03	-.97636E+03	.00000E+00	122	-.31636E+03	-.97636E+03	.00000E+00	123	-.29914E+03	-.97914E+03	.00000E+00
124	-.29914E+03	-.97914E+03	.00000E+00	125	-.28169E+03	-.98169E+03	.00000E+00	126	-.28169E+03	-.98169E+03	.00000E+00
	-.26403E+03	-.98403E+03	.00000E+00	128	-.26403E+03	-.98403E+03	.00000E+00	129	-.24617E+03	-.98617E+03	.00000E+00
	-.24617E+03	-.98617E+03	.00000E+00	131	-.22813E+03	-.98813E+03	.00000E+00	132	-.22813E+03	-.98813E+03	.00000E+00
	-.20992E+03	-.98992E+03	.00000E+00	134	-.20992E+03	-.98992E+03	.00000E+00	135	-.19155E+03	-.99155E+03	.00000E+00
136	-.19155E+03	-.99155E+03	.00000E+00	137	-.17305E+03	-.99305E+03	.00000E+00	138	-.17305E+03	-.99305E+03	.00000E+00
139	-.15441E+03	-.99441E+03	.00000E+00	140	-.15441E+03	-.99441E+03	.00000E+00	141	-.13566E+03	-.99566E+03	.00000E+00
142	-.13566E+03	-.99566E+03	.00000E+00	143	-.11679E+03	-.99679E+03	.00000E+00	144	-.11679E+03	-.99679E+03	.00000E+00
145	-.97827E+02	-.99783E+03	.00000E+00	146	-.97828E+02	-.99783E+03	.00000E+00	147	-.78766E+02	-.99877E+03	.00000E+00
148	-.78776E+02	-.99878E+03	.00000E+00	149	-.51655E+02	-.99166E+03	.00000E+00	150	-.51654E+02	-.99165E+03	.00000E+00
151	-.25466E+02	-.98547E+03	.00000E+00	152	-.25467E+02	-.98547E+03	.00000E+00	153	-.67871E-01	-.98007E+03	.00000E+00
154	-.66895E-01	-.98007E+03	.00000E+00	155	.24659E+02	-.97534E+03	.00000E+00	156	.24660E+02	-.97534E+03	.00000E+00
157	.48805E+02	-.97119E+03	.00000E+00	158	.48806E+02	-.97119E+03	.00000E+00	159	.72453E+02	-.96755E+03	.00000E+00
160	.72453E+02	-.96755E+03	.00000E+00	161	.95667E+02	-.96433E+03	.00000E+00	162	.95667E+02	-.96433E+03	.00000E+00
163	.11850E+03	-.96150E+03	.00000E+00	164	.11851E+03	-.96149E+03	.00000E+00	165	.14101E+03	-.95899E+03	.00000E+00
166	.14102E+03	-.95898E+03	.00000E+00	167	.16324E+03	-.95676E+03	.00000E+00	168	.16324E+03	-.95676E+03	.00000E+00
169	.18521E+03	-.95479E+03	.00000E+00	170	.18521E+03	-.95479E+03	.00000E+00	171	.20696E+03	-.95304E+03	.00000E+00
172	.20696E+03	-.95304E+03	.00000E+00	173	.22851E+03	-.95149E+03	.00000E+00	174	.22851E+03	-.95149E+03	.00000E+00
175	.24990E+03	-.95010E+03	.00000E+00	176	.24990E+03	-.95010E+03	.00000E+00	177	.27113E+03	-.94887E+03	.00000E+00
178	.27113E+03	-.94887E+03	.00000E+00	179	.29222E+03	-.94778E+03	.00000E+00	180	.29222E+03	-.94778E+03	.00000E+00
181	.31320E+03	-.94680E+03	.00000E+00	182	.31320E+03	-.94680E+03	.00000E+00	183	.33407E+03	-.94593E+03	.00000E+00
184	.33407E+03	-.94593E+03	.00000E+00	185	.35484E+03	-.94516E+03	.00000E+00	186	.35484E+03	-.94516E+03	.00000E+00
187	.37553E+03	-.94447E+03	.00000E+00	188	.37553E+03	-.94447E+03	.00000E+00	189	.39615E+03	-.94385E+03	.00000E+00
190	.39615E+03	-.94385E+03	.00000E+00	191	.41670E+03	-.94330E+03	.00000E+00	192	.41670E+03	-.94330E+03	.00000E+00
193	.43719E+03	-.94281E+03	.00000E+00	194	.43719E+03	-.94281E+03	.00000E+00	195	.45763E+03	-.94237E+03	.00000E+00
196	.45763E+03	-.94237E+03	.00000E+00	197	.47802E+03	-.94198E+03	.00000E+00	198	.47802E+03	-.94198E+03	.00000E+00
199	.49837E+03	-.94163E+03	.00000E+00	200	.49837E+03	-.94163E+03	.00000E+00	201	.51868E+03	-.94132E+03	.00000E+00
	.51868E+03	-.94132E+03	.00000E+00	203	.53897E+03	-.94103E+03	.00000E+00	204	.53897E+03	-.94103E+03	.00000E+00
	.55922E+03	-.94078E+03	.00000E+00	206	.55922E+03	-.94078E+03	.00000E+00	207	.57944E+03	-.94056E+03	.00000E+00
208	.57944E+03	-.94056E+03	.00000E+00	209	.59964E+03	-.94036E+03	.00000E+00	210	.59964E+03	-.94036E+03	.00000E+00
211	.61982E+03	-.94018E+03	.00000E+00	212	.61982E+03	-.94018E+03	.00000E+00	213	.63998E+03	-.94002E+03	.00000E+00
214	.63998E+03	-.94002E+03	.00000E+00	215	.66012E+03	-.93988E+03	.00000E+00	216	.66012E+03	-.93988E+03	.00000E+00
217	.68025E+03	-.93975E+03	.00000E+00	218	.68025E+03	-.93975E+03	.00000E+00	219	.70037E+03	-.93963E+03	.00000E+00

220	.70037E+03	-.93963E+03	.00000E+00	221	.72047E+03	-.93953E+03	.00000E+00	222	.72047E+03	-.93953E+03	.00000E+00
223	.74056E+03	-.93944E+03	.16200E-01	224	.74056E+03	-.93944E+03	.16200E-01	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.12884E+00	2	.12884E+00	3	.12810E+00	4	.12810E+00	5	.12737E+00	6	.12737E+00
7	.12665E+00	8	.12665E+00	9	.12594E+00	10	.12594E+00	11	.12525E+00	12	.12525E+00
13	.12456E+00	14	.12456E+00	15	.12389E+00	16	.12389E+00	17	.12323E+00	18	.12323E+00
19	.12258E+00	20	.12258E+00	21	.12193E+00	22	.12193E+00	23	.12130E+00	24	.12130E+00
25	.12068E+00	26	.12068E+00	27	.12007E+00	28	.12007E+00	29	.11947E+00	30	.11947E+00
31	.11888E+00	32	.11888E+00	33	.11830E+00	34	.11830E+00	35	.11773E+00	36	.11773E+00
37	.11717E+00	38	.11717E+00	39	.11662E+00	40	.11662E+00	41	.11608E+00	42	.11608E+00
43	.11554E+00	44	.11554E+00	45	.11502E+00	46	.11502E+00	47	.11450E+00	48	.11450E+00
49	.11399E+00	50	.11399E+00	51	.11349E+00	52	.11349E+00	53	.11300E+00	54	.11300E+00
55	.11252E+00	56	.11252E+00	57	.11205E+00	58	.11205E+00	59	.11158E+00	60	.11158E+00
61	.11112E+00	62	.11112E+00	63	.11067E+00	64	.11067E+00	65	.11023E+00	66	.11023E+00
67	.10980E+00	68	.10980E+00	69	.10937E+00	70	.10937E+00	71	.10895E+00	72	.10895E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.10895E+00	72	.10895E+00	73	.10854E+00	74	.10854E+00	75	.10696E+00	76	.10696E+00
77	.10549E+00	78	.10549E+00	79	.10412E+00	80	.10412E+00	81	.10285E+00	82	.10285E+00
83	.10167E+00	84	.10167E+00	85	.10058E+00	86	.10058E+00	87	.99562E-01	88	.99562E-01
89	.98625E-01	90	.98625E-01	91	.97758E-01	92	.97758E-01	93	.96958E-01	94	.96958E-01
95	.96220E-01	96	.96220E-01	97	.95540E-01	98	.95540E-01	99	.94914E-01	100	.94914E-01
101	.94338E-01	102	.94338E-01	103	.93808E-01	104	.93808E-01	105	.93322E-01	106	.93322E-01
107	.92877E-01	108	.92877E-01	109	.92468E-01	110	.92468E-01	111	.92094E-01	112	.92094E-01
113	.91751E-01	114	.91751E-01	115	.91438E-01	116	.91438E-01	117	.91151E-01	118	.91151E-01
119	.90890E-01	120	.90890E-01	121	.90650E-01	122	.90650E-01	123	.90432E-01	124	.90432E-01
125	.90233E-01	126	.90233E-01	127	.90052E-01	128	.90052E-01	129	.89886E-01	130	.89886E-01
131	.89735E-01	132	.89735E-01	133	.89598E-01	134	.89598E-01	135	.89473E-01	136	.89473E-01
137	.89359E-01	138	.89359E-01	139	.89256E-01	140	.89256E-01	141	.89161E-01	142	.89161E-01
143	.89075E-01	144	.89075E-01	145	.88997E-01	146	.88997E-01	147	.88926E-01	148	.88926E-01
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.79127E-01	148	.79126E-01	149	.79583E-01	150	.79583E-01	151	.79987E-01	152	.79987E-01
153	.80343E-01	154	.80344E-01	155	.80659E-01	156	.80659E-01	157	.80939E-01	158	.80939E-01
159	.81188E-01	160	.81188E-01	161	.81408E-01	162	.81408E-01	163	.81605E-01	164	.81605E-01
165	.81779E-01	166	.81779E-01	167	.81935E-01	168	.81935E-01	169	.82073E-01	170	.82073E-01
171	.82197E-01	172	.82197E-01	173	.82307E-01	174	.82307E-01	175	.82405E-01	176	.82405E-01
177	.82493E-01	178	.82493E-01	179	.82571E-01	180	.82571E-01	181	.82641E-01	182	.82641E-01
183	.82704E-01	184	.82704E-01	185	.82760E-01	186	.82760E-01	187	.82810E-01	188	.82810E-01
189	.82854E-01	190	.82854E-01	191	.82894E-01	192	.82894E-01	193	.82930E-01	194	.82930E-01
195	.82961E-01	196	.82961E-01	197	.82990E-01	198	.82990E-01	199	.83015E-01	200	.83015E-01
201	.83038E-01	202	.83038E-01	203	.83058E-01	204	.83058E-01	205	.83077E-01	206	.83077E-01
207	.83093E-01	208	.83093E-01	209	.83108E-01	210	.83108E-01	211	.83121E-01	212	.83121E-01
213	.83132E-01	214	.83132E-01	215	.83143E-01	216	.83143E-01	217	.83152E-01	218	.83152E-01
219	.83161E-01	220	.83161E-01	221	.83168E-01	222	.83168E-01	223	.83175E-01	224	.83175E-01

GREEN RIVER: 1) GRN542093% 2) GRN535095% 3) GRN535095%; 5.0E-08cm/s cover flux

TIME = 182500.0000 TIME STEP = 380

MAXIMUM CHANGE IN PRESSURE HEAD DURING ITERATION 2 WAS .16846E-01 AT NODE 200

CUMULATIVE INFLOW INTO SYSTEM IS = .59130E+04
CUMULATIVE OUTFLOW FROM SYSTEM IS = -.59235E+04
CUMULATIVE CHANGE IN SYSTEM IS = -.10506E+02

D NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE	NODE	HEAD	PRESS HEAD	DISCHARGE
1	-.65000E+03	-.65000E+03	-.16088E-01	2	-.65000E+03	-.65000E+03	-.16242E-01	3	-.64936E+03	-.65436E+03	.00000E+00
4	-.64936E+03	-.65436E+03	.00000E+00	5	-.64871E+03	-.65871E+03	.00000E+00	6	-.64871E+03	-.65871E+03	.00000E+00
7	-.64803E+03	-.66303E+03	.00000E+00	8	-.64803E+03	-.66303E+03	.00000E+00	9	-.64734E+03	-.66734E+03	.00000E+00
10	-.64734E+03	-.66734E+03	.00000E+00	11	-.64662E+03	-.67162E+03	.00000E+00	12	-.64662E+03	-.67162E+03	.00000E+00
13	-.64588E+03	-.67588E+03	.00000E+00	14	-.64588E+03	-.67588E+03	.00000E+00	15	-.64512E+03	-.68012E+03	.00000E+00
16	-.64512E+03	-.68012E+03	.00000E+00	17	-.64434E+03	-.68434E+03	.00000E+00	18	-.64434E+03	-.68434E+03	.00000E+00
19	-.64354E+03	-.68854E+03	.00000E+00	20	-.64354E+03	-.68854E+03	.00000E+00	21	-.64271E+03	-.69271E+03	.00000E+00
22	-.64271E+03	-.69271E+03	.00000E+00	23	-.64186E+03	-.69686E+03	.00000E+00	24	-.64186E+03	-.69686E+03	.00000E+00
25	-.64099E+03	-.70099E+03	.00000E+00	26	-.64099E+03	-.70099E+03	.00000E+00	27	-.64009E+03	-.70509E+03	.00000E+00
28	-.64009E+03	-.70509E+03	.00000E+00	29	-.63917E+03	-.70917E+03	.00000E+00	30	-.63917E+03	-.70917E+03	.00000E+00
	-.63823E+03	-.71323E+03	.00000E+00	32	-.63823E+03	-.71323E+03	.00000E+00	33	-.63725E+03	-.71725E+03	.00000E+00
	-.63725E+03	-.71725E+03	.00000E+00	35	-.63626E+03	-.72126E+03	.00000E+00	36	-.63626E+03	-.72126E+03	.00000E+00
37	-.63524E+03	-.72524E+03	.00000E+00	38	-.63524E+03	-.72524E+03	.00000E+00	39	-.63419E+03	-.72919E+03	.00000E+00
40	-.63419E+03	-.72919E+03	.00000E+00	41	-.63311E+03	-.73311E+03	.00000E+00	42	-.63311E+03	-.73311E+03	.00000E+00
43	-.63201E+03	-.73701E+03	.00000E+00	44	-.63201E+03	-.73701E+03	.00000E+00	45	-.63088E+03	-.74088E+03	.00000E+00
46	-.63088E+03	-.74088E+03	.00000E+00	47	-.62972E+03	-.74472E+03	.00000E+00	48	-.62972E+03	-.74472E+03	.00000E+00
49	-.62853E+03	-.74853E+03	.00000E+00	50	-.62853E+03	-.74853E+03	.00000E+00	51	-.62732E+03	-.75232E+03	.00000E+00
52	-.62732E+03	-.75232E+03	.00000E+00	53	-.62608E+03	-.75608E+03	.00000E+00	54	-.62608E+03	-.75608E+03	.00000E+00
55	-.62480E+03	-.75980E+03	.00000E+00	56	-.62480E+03	-.75980E+03	.00000E+00	57	-.62350E+03	-.76350E+03	.00000E+00
58	-.62350E+03	-.76350E+03	.00000E+00	59	-.62217E+03	-.76717E+03	.00000E+00	60	-.62217E+03	-.76717E+03	.00000E+00
61	-.62080E+03	-.77080E+03	.00000E+00	62	-.62080E+03	-.77080E+03	.00000E+00	63	-.61941E+03	-.77441E+03	.00000E+00
64	-.61941E+03	-.77441E+03	.00000E+00	65	-.61799E+03	-.77799E+03	.00000E+00	66	-.61799E+03	-.77799E+03	.00000E+00
67	-.61653E+03	-.78153E+03	.00000E+00	68	-.61653E+03	-.78153E+03	.00000E+00	69	-.61504E+03	-.78504E+03	.00000E+00
70	-.61504E+03	-.78504E+03	.00000E+00	71	-.61353E+03	-.78853E+03	.00000E+00	72	-.61353E+03	-.78853E+03	.00000E+00
73	-.61198E+03	-.79198E+03	.00000E+00	74	-.61197E+03	-.79197E+03	.00000E+00	75	-.60546E+03	-.80546E+03	.00000E+00
76	-.60546E+03	-.80546E+03	.00000E+00	77	-.59842E+03	-.81842E+03	.00000E+00	78	-.59842E+03	-.81842E+03	.00000E+00
79	-.59084E+03	-.83084E+03	.00000E+00	80	-.59084E+03	-.83084E+03	.00000E+00	81	-.58271E+03	-.84271E+03	.00000E+00
82	-.58271E+03	-.84271E+03	.00000E+00	83	-.57403E+03	-.85403E+03	.00000E+00	84	-.57403E+03	-.85403E+03	.00000E+00
85	-.56480E+03	-.86480E+03	.00000E+00	86	-.56480E+03	-.86480E+03	.00000E+00	87	-.55501E+03	-.87501E+03	.00000E+00
88	-.55501E+03	-.87501E+03	.00000E+00	89	-.54468E+03	-.88468E+03	.00000E+00	90	-.54468E+03	-.88468E+03	.00000E+00
91	-.53380E+03	-.89380E+03	.00000E+00	92	-.53380E+03	-.89380E+03	.00000E+00	93	-.52239E+03	-.90239E+03	.00000E+00
94	-.52239E+03	-.90239E+03	.00000E+00	95	-.51046E+03	-.91046E+03	.00000E+00	96	-.51046E+03	-.91046E+03	.00000E+00
97	-.49803E+03	-.91803E+03	.00000E+00	98	-.49803E+03	-.91803E+03	.00000E+00	99	-.48511E+03	-.92511E+03	.00000E+00
100	-.48511E+03	-.92511E+03	.00000E+00	101	-.47172E+03	-.93172E+03	.00000E+00	102	-.47172E+03	-.93172E+03	.00000E+00
103	-.45787E+03	-.93787E+03	.00000E+00	104	-.45787E+03	-.93787E+03	.00000E+00	105	-.44360E+03	-.94360E+03	.00000E+00
	-.44360E+03	-.94360E+03	.00000E+00	107	-.42892E+03	-.94892E+03	.00000E+00	108	-.42892E+03	-.94892E+03	.00000E+00
	-.41384E+03	-.95384E+03	.00000E+00	110	-.41384E+03	-.95384E+03	.00000E+00	111	-.39840E+03	-.95840E+03	.00000E+00
112	-.39840E+03	-.95840E+03	.00000E+00	113	-.38261E+03	-.96261E+03	.00000E+00	114	-.38261E+03	-.96261E+03	.00000E+00
115	-.36649E+03	-.96649E+03	.00000E+00	116	-.36649E+03	-.96649E+03	.00000E+00	117	-.35007E+03	-.97007E+03	.00000E+00
118	-.35007E+03	-.97007E+03	.00000E+00	119	-.33336E+03	-.97336E+03	.00000E+00	120	-.33336E+03	-.97336E+03	.00000E+00
121	-.31639E+03	-.97639E+03	.00000E+00	122	-.31639E+03	-.97639E+03	.00000E+00	123	-.29917E+03	-.97917E+03	.00000E+00

124	-.29917E+03	-.97917E+03	.00000E+00	125	-.28172E+03	-.98172E+03	.00000E+00	126	-.28172E+03	-.98172E+03	.00000E+00
127	-.26406E+03	-.98406E+03	.00000E+00	128	-.26406E+03	-.98406E+03	.00000E+00	129	-.24620E+03	-.98620E+03	.00000E+00
130	-.24620E+03	-.98620E+03	.00000E+00	131	-.22816E+03	-.98816E+03	.00000E+00	132	-.22816E+03	-.98816E+03	.00000E+00
133	-.20995E+03	-.98995E+03	.00000E+00	134	-.20995E+03	-.98995E+03	.00000E+00	135	-.19158E+03	-.99158E+03	.00000E+00
136	-.19158E+03	-.99158E+03	.00000E+00	137	-.17308E+03	-.99308E+03	.00000E+00	138	-.17308E+03	-.99308E+03	.00000E+00
139	-.15444E+03	-.99444E+03	.00000E+00	140	-.15444E+03	-.99444E+03	.00000E+00	141	-.13569E+03	-.99569E+03	[illegible]
142	-.13569E+03	-.99569E+03	.00000E+00	143	-.11682E+03	-.99682E+03	.00000E+00	144	-.11682E+03	-.99682E+03	[illegible]
145	-.97853E+02	-.99785E+03	.00000E+00	146	-.97853E+02	-.99785E+03	.00000E+00	147	-.76790E+02	-.99679E+03	.00000E+00
148	-.78801E+02	-.99880E+03	.00000E+00	149	-.51678E+02	-.99168E+03	.00000E+00	150	-.51677E+02	-.99168E+03	.00000E+00
151	-.25492E+02	-.98549E+03	.00000E+00	152	-.25491E+02	-.98549E+03	.00000E+00	153	-.94055E-01	-.98009E+03	.00000E+00
154	-.93079E-01	-.98009E+03	.00000E+00	155	.24632E+02	-.97537E+03	.00000E+00	156	.24633E+02	-.97537E+03	.00000E+00
157	.48778E+02	-.97122E+03	.00000E+00	158	.48779E+02	-.97122E+03	.00000E+00	159	.72425E+02	-.96757E+03	.00000E+00
160	.72426E+02	-.96757E+03	.00000E+00	161	.95638E+02	-.96436E+03	.00000E+00	162	.95639E+02	-.96436E+03	.00000E+00
163	.11848E+03	-.96152E+03	.00000E+00	164	.11848E+03	-.96152E+03	.00000E+00	165	.14099E+03	-.95901E+03	.00000E+00
166	.14099E+03	-.95901E+03	.00000E+00	167	.16321E+03	-.95679E+03	.00000E+00	168	.16321E+03	-.95679E+03	.00000E+00
169	.18518E+03	-.95482E+03	.00000E+00	170	.18518E+03	-.95482E+03	.00000E+00	171	.20693E+03	-.95307E+03	.00000E+00
172	.20693E+03	-.95307E+03	.00000E+00	173	.22848E+03	-.95152E+03	.00000E+00	174	.22848E+03	-.95152E+03	.00000E+00
175	.24987E+03	-.95013E+03	.00000E+00	176	.24987E+03	-.95013E+03	.00000E+00	177	.27110E+03	-.94890E+03	.00000E+00
178	.27110E+03	-.94890E+03	.00000E+00	179	.29219E+03	-.94781E+03	.00000E+00	180	.29219E+03	-.94781E+03	.00000E+00
181	.31317E+03	-.94683E+03	.00000E+00	182	.31317E+03	-.94683E+03	.00000E+00	183	.33404E+03	-.94596E+03	.00000E+00
184	.33404E+03	-.94596E+03	.00000E+00	185	.35482E+03	-.94518E+03	.00000E+00	186	.35482E+03	-.94518E+03	.00000E+00
187	.37551E+03	-.94449E+03	.00000E+00	188	.37551E+03	-.94449E+03	.00000E+00	189	.39613E+03	-.94387E+03	.00000E+00
190	.39613E+03	-.94387E+03	.00000E+00	191	.41669E+03	-.94331E+03	.00000E+00	192	.41669E+03	-.94331E+03	.00000E+00
193	.43718E+03	-.94282E+03	.00000E+00	194	.43718E+03	-.94282E+03	.00000E+00	195	.45762E+03	-.94238E+03	.00000E+00
196	.45762E+03	-.94238E+03	.00000E+00	197	.47802E+03	-.94198E+03	.00000E+00	198	.47802E+03	-.94198E+03	.00000E+00
199	.49837E+03	-.94163E+03	.00000E+00	200	.49837E+03	-.94163E+03	.00000E+00	201	.51868E+03	-.94132E+03	.00000E+00
202	.51868E+03	-.94132E+03	.00000E+00	203	.53896E+03	-.94104E+03	.00000E+00	204	.53896E+03	-.94104E+03	.00000E+00
205	.55922E+03	-.94078E+03	.00000E+00	206	.55922E+03	-.94078E+03	.00000E+00	207	.57944E+03	-.94056E+03	.00000E+00
208	.57944E+03	-.94056E+03	.00000E+00	209	.59964E+03	-.94036E+03	.00000E+00	210	.59964E+03	-.94036E+03	.00000E+00
211	.61982E+03	-.94018E+03	.00000E+00	212	.61982E+03	-.94018E+03	.00000E+00	213	.63998E+03	-.94002E+03	.00000E+00
214	.63998E+03	-.94002E+03	.00000E+00	215	.66012E+03	-.93988E+03	.00000E+00	216	.66012E+03	-.93987E+03	.00000E+00
217	.68025E+03	-.93975E+03	.00000E+00	218	.68025E+03	-.93975E+03	.00000E+00	219	.70037E+03	-.93963E+03	[illegible]
220	.70037E+03	-.93963E+03	.00000E+00	221	.72047E+03	-.93953E+03	.00000E+00	222	.72047E+03	-.93953E+03	[illegible]
223	.74056E+03	-.93944E+03	.16200E-01	224	.74056E+03	-.93944E+03	.16200E-01	0	.00000E+00	.00000E+00	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 1

1	.12884E+00	2	.12884E+00	3	.12810E+00	4	.12810E+00	5	.12737E+00	6	.12737E+00
7	.12665E+00	8	.12665E+00	9	.12594E+00	10	.12594E+00	11	.12525E+00	12	.12525E+00
13	.12456E+00	14	.12456E+00	15	.12389E+00	16	.12389E+00	17	.12323E+00	18	.12323E+00
19	.12258E+00	20	.12258E+00	21	.12193E+00	22	.12193E+00	23	.12130E+00	24	.12130E+00
25	.12068E+00	26	.12068E+00	27	.12007E+00	28	.12007E+00	29	.11947E+00	30	.11947E+00
31	.11888E+00	32	.11888E+00	33	.11830E+00	34	.11830E+00	35	.11773E+00	36	.11773E+00
37	.11717E+00	38	.11717E+00	39	.11662E+00	40	.11662E+00	41	.11608E+00	42	.11608E+00
43	.11554E+00	44	.11554E+00	45	.11502E+00	46	.11502E+00	47	.11450E+00	48	.11450E+00
49	.11399E+00	50	.11399E+00	51	.11350E+00	52	.11350E+00	53	.11301E+00	54	.11301E+00
55	.11252E+00	56	.11252E+00	57	.11205E+00	58	.11205E+00	59	.11158E+00	60	.11158E+00
61	.11113E+00	62	.11113E+00	63	.11068E+00	64	.11068E+00	65	.11023E+00	66	.11023E+00
67	.10980E+00	68	.10980E+00	69	.10937E+00	70	.10937E+00	71	.10895E+00	72	.10895E+00
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 2

71	.10895E+00	72	.10895E+00	73	.10854E+00	74	.10854E+00	75	.10696E+00	76	.10696E+00
77	.10549E+00	78	.10549E+00	79	.10412E+00	80	.10412E+00	81	.10285E+00	82	.10285E+00
83	.10167E+00	84	.10167E+00	85	.10058E+00	86	.10058E+00	87	.99563E-01	88	.99563E-01
89	.98625E-01	90	.98625E-01	91	.97758E-01	92	.97758E-01	93	.96958E-01	94	.96958E-01
95	.96220E-01	96	.96220E-01	97	.95540E-01	98	.95540E-01	99	.94913E-01	100	.94913E-01

101	.94337E-01	102	.94337E-01	103	.93808E-01	104	.93808E-01	105	.93301E-01	106	.93301E-01
107	.92875E-01	108	.92875E-01	109	.92467E-01	110	.92467E-01	111	.92082E-01	112	.92082E-01
113	.91750E-01	114	.91749E-01	115	.91436E-01	116	.91436E-01	117	.91132E-01	118	.91132E-01
119	.90888E-01	120	.90888E-01	121	.90649E-01	122	.90649E-01	123	.90438E-01	124	.90438E-01
125	.90231E-01	126	.90231E-01	127	.90050E-01	128	.90050E-01	129	.89884E-01	130	.89884E-01
	.89733E-01	132	.89733E-01	133	.89596E-01	134	.89596E-01	135	.89471E-01	136	.89471E-01
	.89357E-01	138	.89357E-01	139	.89253E-01	140	.89253E-01	141	.89159E-01	142	.89159E-01
143	.89073E-01	144	.89073E-01	145	.88995E-01	146	.88995E-01	147	.88925E-01	148	.88924E-01
0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00	0	.00000E+00

MOISTURE CONTENT AT UNSATURATED NODES CORRESPONDING TO MATERIAL 3

147	.79125E-01	148	.79125E-01	149	.79582E-01	150	.79582E-01	151	.79985E-01	152	.79985E-01
153	.80342E-01	154	.80342E-01	155	.80658E-01	156	.80658E-01	157	.80937E-01	158	.80937E-01
159	.81186E-01	160	.81186E-01	161	.81406E-01	162	.81406E-01	163	.81603E-01	164	.81603E-01
165	.81777E-01	166	.81777E-01	167	.81933E-01	168	.81933E-01	169	.82071E-01	170	.82071E-01
171	.82195E-01	172	.82195E-01	173	.82305E-01	174	.82305E-01	175	.82403E-01	176	.82403E-01
177	.82491E-01	178	.82491E-01	179	.82570E-01	180	.82570E-01	181	.82640E-01	182	.82640E-01
183	.82702E-01	184	.82702E-01	185	.82756E-01	186	.82756E-01	187	.82806E-01	188	.82806E-01
189	.82853E-01	190	.82853E-01	191	.82893E-01	192	.82893E-01	193	.82929E-01	194	.82929E-01
195	.82961E-01	196	.82961E-01	197	.82989E-01	198	.82989E-01	199	.83015E-01	200	.83015E-01
201	.83038E-01	202	.83038E-01	203	.83058E-01	204	.83058E-01	205	.83077E-01	206	.83077E-01
207	.83093E-01	208	.83093E-01	209	.83108E-01	210	.83108E-01	211	.83121E-01	212	.83121E-01
213	.83132E-01	214	.83132E-01	215	.83143E-01	216	.83143E-01	217	.83152E-01	218	.83152E-01
219	.83161E-01	220	.83161E-01	221	.83168E-01	222	.83168E-01	223	.83175E-01	224	.83175E-01

COLUMN AND BATCH LEACHING TEST RESULTS

JEGG/JEG/0789-0902

JACOBS ENGINEERING GROUP INC., ALBUQUERQUE OPERATIONS

TO: BPeel

FROM: LCoons

DATE: July 20, 1989

SUBJECT: Green River Conditional Concurrence Items 2 and 7

Attached is Calc. # GRN-07-89-12-07-00, preliminary analysis of batch and column leaching tests on samples of uranium mill tailings, buffer material, and contaminated windblown soils from the Green River site.

In response to Item No. 2, results show that, for all of the hazardous constituents identified at the Green River site, except for uranium and vanadium, the extract concentrations from batch experiments using windblown soils are below the interim concentration limits proposed by NRC (see Table 5.1 of NRC/DOE Summary of Meeting Notes, 4/5/89). Concentrations of vanadium slightly exceed the NRC proposed interim concentration of 0.09 mg/l, but are below the observed range of maximum values from background groundwater samples beneath the disposal site (0.38 mg/l maximum). Uranium concentrations from the windblown extract are above both the interim concentration limit of 0.044 mg/l (which is EPA's established MCL) and the maximum observed value in groundwater of 0.146 mg/l. However, the column feed experiments show that uranium is attenuated by the buffer material to a concentration which is greater than one order of magnitude less than the feed concentration (from tailings solution). Based on the batch and column experiments, I believe we are justified (and MWeber of NRC was justified) in assuming the windblown soils are "clean" and can also assume to be "buffer" material in addition to the clean select-fill buffer material placed in the bottom of the cell. With this assumption, travel time of contaminants can be assumed to be from the base of the tailings (top of the windblown soils) through the base of the buffer materials.

In response to Item No. 7, neither beryllium nor thallium were detected in the tailings or windblown batch solutions.

Let me know if you have any questions regarding these analyses.

LC/ll
Attachment

w/o attachment
cc: BDowns
SHill
RRager
FTitus
Document Control

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

CALCULATION COVER SHEET

CALC NO. GRN-07-89-12-07 DISCIPLINE HYDRO NO. OF SHEETS 41

PROJECT:
DOE-UMTRA

SITE:
Green River, Utah

FEATURE:
Chemical Characterization of windblown and buffer materials by column leaching and batch testing

SOURCES OF DATA:
Water Analysis Report - ACZ Labs, 4/89 - 5/89
Batch and Column Testing by TAC, 4/89 - 5/89

SOURCES OF FORMULAE & REFERENCES:
DOE Standard Operating Procedure 16.1.9 (9/12/88) for Batch and Column Experiments

PRELIMINARY CALC. ☒ FINAL CALC. ☐ SUPERSEDES CALC. NO. _____

REV. NO.	REVISION	CALCULATION BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
		L Coon	7/19/89	[illegible]	7/19/89		

N/85

JACOBS ENGINEERING

DATE 7/18/89 SUBJECT GRN-07-89-12-07-00 SHEET NO. 1 of 41

BY LMC CHKD. [illegible] JOB NO.

PURPOSE

TO DETERMINE THE MOBILITY OF CONTAMINANTS CONTAINED WITHIN WINDBLOWN AND BUFFER MATERIALS USED IN THE DISPOSAL CELL AT THE GREEN RIVER SITE. BATCH SAMPLES OF WATER EXTRACT WILL BE PREPARED USING STANDARD BATCHING TECHNIQUES (SEE "OVERVIEW AND PROCEDURES") FOR REPRESENTATIVE BUFFER MATERIAL, WINDBLOWN SOILS, AND TAILINGS. THE BUFFER MATERIAL IS SELECTED CLEAN FILL SOIL PLACED IN THE BOTTOM 6 FT OF THE DISPOSAL CELL TO RETARD THE MOVEMENT OF CONTAMINANTS EXITING THE BASE OF THE CELL. THE WINDBLOWN SOILS ARE CONTAMINATED WITH RADIOLOGICAL, BUT RELATIVELY IMMOBILE INORGANIC HAZARDOUS CONSTITUENTS. THE REASONS FOR CONDUCTING THESE TESTS ARE AS FOLLOWS:

1. DETERMINE IF THE WINDBLOWN SOILS ARE "CONTAMINATED" AS SOILS VIA MOBILIZATION OF HAZARDOUS CONSTITUENTS BY BATCHING WITH DIONIZED WATER.

2. COMPARE RESULTANT CONCENTRATIONS OF BATCH WATER WITH PROPOSED INTERIM CONCENTRATION LIMITS FOR THE HAZARDOUS CONSTITUENTS IDENTIFIED AT THE GREEN RIVER SITE TO SEE IF WINDBLOWN SOILS CAN BE JUSTIFIED FOR USE AS BUFFER MATERIALS TO SUPPLEMENT THE SELECTED "CLEAN" BUFFER MATERIALS AT THE BASE OF THE CELL.

3. PREPARE BATCH SOLUTIONS OF TAILINGS EXTRACT FOR THE FOLLOWING REASONS:
   a) COMPARE CONCENTRATIONS WITH BUFFER AND WINDBLOWN SOIL EXTRACT CONCENTRATIONS.

b) USE AS COLUMN FEED SOLUTION TO EXAMINE THE ATTENUATION CAPACITY OF THE SELECT CLEAN BUFFER MATERIALS USING STANDARD COLUMN FEED TECHNIQUES (SEE "OVERVIEW AND PROCEDURES").

c) DETERMINE IF BERYLLIUM IS A HAZARDOUS CONSTITUENT IN THE GREEN RIVER TAILINGS

THIS ANALYSIS IS BEING CONDUCTED TO ANSWER SPECIFIC QUESTIONS AS PART OF A CONDITIONAL CONCURRENCE AGREEMENT BETWEEN THE DOE AND NRC ON THE GREEN RIVER REMEDIAL ACTION IN UTAH. THE FOLLOWING ARE THE SPECIFIC AGREEMENT ITEMS (NRC, 1989):

2. DOE commits to assessing whether the contaminated windblown and vicinity property materials are significant sources of hazardous constituents to groundwater by leaching representative samples of the materials using EPA's EP Toxicity Test Procedure (40 CFR Part 261, Appendix II) or comparable NRC-approved procedure and comparing hazardous constituent concentrations in the leachate with concentrations in leachate from representative soil samples collected in the vicinity of the site.

7. DOE commits to evaluating whether beryllium is a hazardous constituent in the contaminated materials at Green River by determining its concentration in representative samples of the tailings or pore fluid within the tailings. If present at elevated concentrations in the contaminated materials, DOE will include beryllium in the list of hazardous constituents for the Green River disposal site.

OVERVIEW AND PROCEDURES

A COMBINATION OF BATCH AND COLUMN EXPERIMENTS WERE CONDUCTED IN ACCORDANCE WITH THE UMTRA STANDARD OPERATING PROCEDURE 16.1.8 (9/12/88). THE BATCH EXPERIMENTS WERE INTENDED TO DETERMINE THE CONSTITUENTS THAT WOULD BE RELEASED FROM WINDBLOWN CONTAMINATED SOILS, BUFFER SOILS, AND URANIUM MILL TAILINGS FROM THE GREEN RIVER UMTRA PROJECT SITE, UTAH. EACH SERIES OF TESTS FOR A GIVEN MATERIAL CONSISTED OF THREE REPLICATES. THE EXTRACT SOLUTIONS WERE COLLECTED AND ANALYZED INDIVIDUALLY

ASSUMPTIONS

1. THE SOLID MATERIAL SAMPLES ARE REPRESENTATIVE OF THE MATERIALS AT THE GREEN RIVER SITE.

2. BATCH EXTRACT CONCENTRATIONS ARE REPRESENTATIVE OF CONSERVATIVELY HIGH VALUES FOR THE ELEMENTS THAT CAN BE REMOVED FROM THE SOLID MATERIALS.

3. THE BATCH SOLUTIONS HAVE REACHED EQUILIBRIUM WITH THE SOLID MATERIALS IN 72 HOURS OF SHAKING.

4. THE PORE FLUIDS EQUILIBRATE WITH THE SOLIDS IN THE COLUMN TESTS.

5. ALL OF THE CONSTITUENTS IN SOLUTION ARE BEING ANALYZED.

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

CALCULATION COVER SHEET

CALC NO. GRN-07-89-12-07 DISCIPLINE HYDRO NO. OF SHEETS 41

PROJECT:
DOE-UMTRA

SITE:
Green River, Utah

FEATURE:
Chemical Characterization of windblown and buffer materials by column leaching and batch testing

SOURCES OF DATA:
Water Analysis Report - ACZ Labs, 4/89 - 5/89
Batch and Column Testing by TAC, 4/89 - 5/89

SOURCES OF FORMULAE & REFERENCES:
DOE Standard Operating Procedure 16.1.9 (9/12/88) for Batch and Column Experiments

PRELIMINARY CALC. ☒ FINAL CALC. ☐ SUPERSEDES CALC. NO.

REV. NO.	REVISION	CALCULATION BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
		L Coon	7/19/89	[illegible]	7/19/89	[illegible]	[illegible]

W185

JACOBS ENGINEERING

DATE 7/18/89 SUBJECT GRN-07-89-12-07-00 SHEET NO. 1 of 41

BY LMC CHKD. [illegible] JOB NO.

PURPOSE

TO DETERMINE THE MOBILITY OF CONTAMINANTS CONTAINED WITHIN WINDBLOWN AND BUFFER MATERIALS USED IN THE DISPOSAL CELL AT THE GREEN RIVER SITE. BATCH SAMPLES OF WATER EXTRACT WILL BE PREPARED USING STANDARD BATCHING TECHNIQUES (SEE "OVERVIEW AND PROCEDURES") FOR REPRESENTATIVE BUFFER MATERIAL, WINDBLOWN SOILS, AND TAILINGS. THE BUFFER MATERIAL IS SELECTED CLEAN FILL SOIL PLACED IN THE BOTTOM 6 FT OF THE DISPOSAL CELL TO RETARD THE MOVEMENT OF CONTAMINANTS EXITING THE BASE OF THE CELL. THE WINDBLOWN SOILS ARE CONTAMINATED WITH RADIOLOGICAL, BUT RELATIVELY IMMOBILE INORGANIC HAZARDOUS CONSTIUENTS. THE REASONS FOR CONDUCTING THESE TESTS ARE AS FOLLOWS:

1. DETERMINE IF THE WINDBLOWN SOILS ARE "CONTAMINATED" AS SOILS VIA MOBILIZATION OF HAZARDOUS CONSTIUENTS BY BATCHING WITH DIONIZED WATER.

2. COMPARE RESULTANT CONCENTRATIONS OF BATCH WATER WITH PROPOSED INTERIM CONCENTRATION LIMITS FOR THE HAZARDOUS CONSTITUENTS IDENTIFIED AT THE GREEN RIVER SITE TO SEE IF WINDBLOWN SOILS CAN BE JUSTIFIED FOR USE AS BUFFER MATERIALS TO SUPPLEMENT THE SELECTED "CLEAN" BUFFER MATERIALS AT THE BASE OF THE CELL.

3. PREPARE BATCH SOLUTIONS OF TAILINGS EXTRACT FOR THE FOLLOWIN REASONS:
   a) COMPARE CONCENTRATIONS WITH BUFFER AND WINDBLOWN SOIL EXTRACT CONCENTRATIONS.

b) USE AS COLUMN FEED SOLUTION TO EXAMINE THE ATTENUATION CAPACITY OF THE SELECT CLEAN BUFFER MATERIALS USING STANDARD COLUMN FEED TECHNIQUES (SEE "OVERVIEW AND PROCEDURES").

c) DETERMINE IF BERYLLIUM IS A HAZARDOUS CONSTITUENT IN THE GREEN RIVER TAILINGS

THIS ANALYSIS IS BEING CONDUCTED TO ANSWER SPECIFIC QUESTIONS AS PART OF A CONDITIONAL CONCURRENCE AGREEMENT BETWEEN THE DOE AND NRC ON THE GREEN RIVER REMEDIAL ACTION IN UTAH, THE FOLLOWING ARE THE SPECIFIC AGREEMENT ITEMS (NRC, 1989):

2. DOE commits to assessing whether the contaminated windblown and vicinity property materials are significant sources of hazardous constituents to groundwater by leaching representative samples of the materials using EPA's EP Toxicity Test Procedure (40 CFR Part 261, Appendix II) or comparable NRC-approved procedure and comparing hazardous constituent concentrations in the leachate with concentrations in leachate from representative soil samples collected in the vicinity of the site.

7. DOE commits to evaluating whether beryllium is a hazardous constituent in the contaminated materials at Green River by determining its concentration in representative samples of the tailings or pore fluid within the tailings. If present at elevated concentrations in the contaminated materials, DOE will include beryllium in the list of hazardous constituents for the Green River disposal site.

OVERVIEW AND PROCEDURES

A COMBINATION OF BATCH AND COLUMN EXPERIMENTS WERE CONDUCTED IN ACCORDANCE WITH THE UMTRA STANDARD OPERATING PROCEDURE 16.1.8 (9/12/88). THE BATCH EXPERIMENTS WERE INTENDED TO DETERMINE THE CONSTITUENTS THAT WOULD BE RELEASED FROM WINDBLOWN CONTAMINATED SOILS, BUFFER SOILS, AND URANIUM MILL TAILINGS FROM THE GREEN RIVER UMTRA PROJECT SITE, UTAH. EACH SERIES OF TESTS FOR A GIVEN MATERIAL CONSISTED OF THREE REPLICATES. THE EXTRACT SOLUTIONS WERE COLLECTED AND ANALYZED INDIVIDUALLY

ASSUMPTIONS

1. THE SOLID MATERIAL SAMPLES ARE REPRESENTATIVE OF THE MATERIALS AT THE GREEN RIVER SITE.

2. BATCH ETRACT CONCENTRATIONS ARE REPRESENTATIVE OF CONSERVATIVELY HIGH VALUES FOR THE ELEMENTS THAT CAN BE REMOVED FROM THE SOLID MATERIALS.

3. THE BATCH SOLUTIONS HAVE REACHED EQUILIBRIUM WITH THE SOLID MATERIALS IN 72 HOURS OF SHAKING.

4. THE PORE FLUIDS EQUILIBRATE WITH THE SOLIDS IN THE COLUMN TESTS.

5. ALL OF THE CONSTITUENTS IN SOLUTION ARE BEING ANALYZED.

JACOBS ENGINEERING

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BY Lnc CHKD. [illegible] JOB NO.

DATA SOURCES

THE SOILS AND TAILINGS SAMPLES WERE COLLECTED FROM REPRESENTATIVE STOCKPILES OF THOSE MATERIALS AT THE GREEN RIVER SITE ON MARCH 23, 1989. A MEMO FROM JFRITTS (TAC) TO LCOWS (TAC) IS ATTACHED (PAGES 9 and 10) DESCRIBING HOW AND WHERE THE SAMPLES WERE COLLECTED

THE WATER EXTRACT WAS ANALYZED BY ACZ LABS IN MAY, 1989. THE ANALYTICAL RESULTS ARE ATTACHED AS PAGES 11 THROUGH 24. RADIONUCLIDES WERE NOT ANALYZED BECAUSE OF THE LIMITED QUANTITY OF EXTRACT. PAGES 25 THROUGH 29 ARE NOTES FROM THE COLUMN AND BATCH TESTING.

ANALYSIS OF ANALYTICAL RESULTS

THE FOLLOWING IS THE LIST OF HAZARDOUS CONSTITUENTS IDENTIFIED AT THE GREEN RIVER SITE:

Table 5.1 Hazardous Constituents and Concentration Limits for Disposal at the Green River UMTRAP Site (units in mg/l, unless noted otherwise)

Constituent	DOE Proposed Limits	Interim Concentration Limits
Arsenic	-	0.05 (MCL)
Cadmium	0.01 (MCL)	0.01 (MCL)
Chromium	0.09 (Background)	0.05 (MCL)
Lead	-	0.05 (MCL)
Methylene Chloride	-	0.005 (Background)
Molybdenum	0.24 (Background)	0.1 (MCL)
Nickel	0.09 (Background)	0.06 (Background)
Nitrate	180 (Background)	60 (Background)
Selenium	2.50 (Background)	0.66 (Background)
Uranium-234/238	0.146 (Background)	0.044 (MCL)
Vanadium Pentoxide	0.38 (Background)	0.09 (Background)
Radium-226/228	5.0 pCi/l (MCL)	5.0 pCi/l (MCL)
Gross-Alpha (excluding U and Rn)	195 pCi/l (Background)	24.5 pCi/l (Background)

REF: SUMMARY OF MEETING NOTES, NRC/DOE MEETING ON THE GREEN RIVER REMEDIAL ACTION, APRIL 5, 1989

THE LIST ALSO PRESENTS THE CONCENTRATION LIMITS PROPOSED BY THE DOE IN THE FINAL REMEDIAL ACTION PLAN (DOE, 1989, volume IIA) AND THE INTERIM CONCENTRATION LIMITS PROPOSED BY NRC. THE DOE'S LIMITS REFLECT THE NATURAL VARIABILITY OF THE CONTAMINANT CONCENTRATIONS IN BACKGROUND WATER QUALITY SAMPLES FROM BENEATH THE NEW DISPOSAL SITE; THEY THEREFORE ARE EQUAL TO ONE OF THE FOLLOWING: (1) THE MCL FOR THAT CONSTITUENT (ESTABLISHED BY EPA); (2) THE MAXIMUM OBSERVED OR STATISTICAL MAXIMUM ($\bar{X} + 2s$) BACKGROUND CONCENTRATION FOR THAT CONSTITUENT. NRC'S PROPOSED INTERIM LIMITS ARE STATISTICAL MEAN VALUES RATHER THAN MAXIMUM VALUES. WHERE THE MCL WAS DETERMINED TO BE GREATER THAN OR EQUAL TO MEAN BACKGROUND CONCENTRATIONS, THE MCL WAS PROPOSED. IN ADDITION TO THE HAZARDOUS CONSTITUENTS IDENTIFIED BY DOE, NRC PROPOSED THAT ARSENIC (As), LEAD (Pb), AND METHYLENE CHLORIDE BE ADDED TO THE LIST, AND DOE CONCURRED. AS STATED BELOW BY THE NRC (1989), NRC RECOGNIZED THAT INSUFFICIENT DATA ARE AVAILABLE TO BE ABLE TO ASSESS THE EXCURSION CRITERIA FOR THE HAZARDOUS CONSTITUENTS AS PROPOSED:

9. DOE commits to the concentration limits listed in the enclosed table as the appropriate interim concentration limits for hazardous constituents in groundwater in the uppermost aquifer at the Point of Compliance. NRC may revise these interim limits based on new monitoring data to be collected during and following construction of the disposal unit.

10. DOE commits to collecting and analyzing representative samples of groundwater from monitoring wells 807, 812, 813, 818, and 823 on a quarterly basis during construction of the disposal unit; DOE commits to collecting and analyzing representative samples of groundwater from these monitoring wells and new wells at the Point of Compliance and background locations on a quarterly basis for two years after completion of the disposal unit. DOE will establish details of the monitoring program in the Surveillance and Maintenance Plan or another appropriate document upon NRC concurrence with the Plan or other document.

THE IMPORTANT DISTINCTION BETWEEN THE CONCENTRATION LIMITS PROPOSED BY DOE AND THOSE PROPOSED BY NRC IS THAT NRC'S INTERIM LIMITS DO NOT ACCOUNT FOR NATURAL VARIABILITY OF THESE CONSTITUENTS AS THEY ARE PRESENT IN GROUNDWATER (UNAFFECTED BY THE REMEDIAL ACTION). IN FACT, THE RANGE OF CONCENTRATIONS OBSERVED IN ANALYTICAL RESULTS OF WATER SAMPLES SHOW THAT NRC'S PROPOSED INTERIM LIMITS ALREADY HAVE BEEN EXCEEDED ONE OR MORE TIMES FOR: Chromium; Molybdenum; nickel; nitrate; Selenium; uranium; Vanadium; and gross alpha activity. ADDITIONALLY, BY PROPOSING A CONCENTRATION LIMIT OF A MEAN VALUE OF OBSERVED BACKGROUND CONCENTRATIONS, A LARGE PERCENTAGE OF OF BACKGROUND FLUIDS SUBSEQUENT ANALYSIS WILL RESULT IN AN EXCEEDANCE OF THAT LIMIT (STATISTICALLY).

THE UNDERSTANDING OF THIS DISTINCTION AND RATIONALE IS IMPORTANT IN ASSESSING THE CHEMICAL NATURE OF THE WINDBLOWN MATERIALS AND DETERMINING IF THE WINDBLOWN MATERIALS CAN ASSUMED TO BE A "CLEAN" BUFFER MATERIAL WITHIN THE GREEN RIVER DISPOSAL CELL.

ATTACHED FIGURES 1 THROUGH 12 (PAGES 30 THROUGH 41) ARE REPRESENTATIONS OF THE ANALYTICAL RESULTS FOR THE BATCH AND COLUMN TESTS FOR ALL IDENTIFIED HAZARDOUS CONSTITUENTS EXCEPT: METHYLENE CHLORIDE; RADIUM 226; 228; AND GROSS ALPHA ACTIVITY. THESE WERE NOT INCLUDED IN THE ANALYSES BECAUSE: (1) THERE IS NO REASON METHYLENE CHLORIDE WOULD BE IN THE WINDBLOWN SOILS, AND (2) AND INADEQUATE VOLUME OF EXTRACT WAS AVAILABLE TO PERFORM RADIONUCLIDE ANALYSES AND CONCENTRATIONS/ACTIVITIES OF THESE CONSTITUENTS ARE NOT EXPECTED TO BE SIGNIFICANT (MOBILE) IN THE WINDBLOWN SOILS.

CONCLUSIONS

ALL HAZARDOUS CONSTITUENT CONCENTRATIONS ARE BELOW NRC'S PROPOSED INTERIM CONCENTRATION LIMITS, EXCEPT FOR URANIUM AND VANADIUM. THE COLUMN FEED TESTS, HOWEVER, INDICATE THAT THE BUFFER MATERIAL HAS THE ATTENUATING CAPACITY TO REDUCE URANIUM CONCENTRATIONS TO A VALUE WHICH IS LESS THAN ONE ORDER OF MAGNITUDE LOWER THAN THE COLUMN FEED CONCENTRATION OF 2.80 mg/l. VANADIUM CONCENTRATIONS ARE ALL BELOW THE RANGE OF OBSERVED MAXIMUM BACKGROUND GROUNDWATER CONCENTRATIONS OF VANADIUM (lower than 0.38 mg/l). GIVEN THESE RESULTS, ALL HAZARDOUS CONSTITUENTS CONSIDERED ARE NOT MOBILE WITHIN THE WINDBLOWN SOILS WITH THE EXCEPTION OF URANIUM AND VANADIUM. URANIUM, HOWEVER, APPEARS TO BE IMMOBILIZED (BUFFERED) BY THE UNDERLYING "CLEAN" SELECT FILL BUFFER MATERIAL. ALSO, THE EXTRACT CONCENTRATIONS FOR VANADIUM FOR THE WINDBLOWN SOILS ARE ALL WITHIN THE OBSERVED RANGE OF NATURALLY-OCCURRING BACKGROUND CONCENTRATIONS IN GROUNDWATER BENEATH THE SITE.

BATCH EXTRACT ANALYSES INDICATE THAT NEITHER BERYLLIUM NOR THALLIUM IS PRESENT IN THE TAILINGS, WINDBLOWN SOILS, OR BUFFER MATERIALS. ANALYSES OF THESE ELEMENTS WERE PREVIOUSLY NOT DONE.

RECOMMENDATIONS

1. THE WINDBLOWN SOILS CAN ASSUMED TO BE "CLEAN" AND WILL NOT CONTRIBUTE TO CONTAMINATION OF THE UNDERLYING GROUNDWATER AT THE GREEN RIVER SITE.

JACOBS ENGINEERING

DATE 7/18/89 SUBJECT GRN-07-89-12-07-00 SHEET NO. 8 of 41

BY LMC CHKD. NJH JOB NO.

② NEITHER BERYLLIUM NOR THALLIUM ARE PRESENT AT THE GREEN RIVER SITE AND SHOULD NOT BE ADDED TO THE LIST OF HAZARDOUS CONSTITUENTS.

JACOBS ENGINEERING GROUP INC., ALBUQUERQUE OPERATIONS

GRN-07-89-12-07-00

LMC
MJFH

TO: ~~LGeons~~

FROM: JFritts JFritts

DATE: March 28, 1989

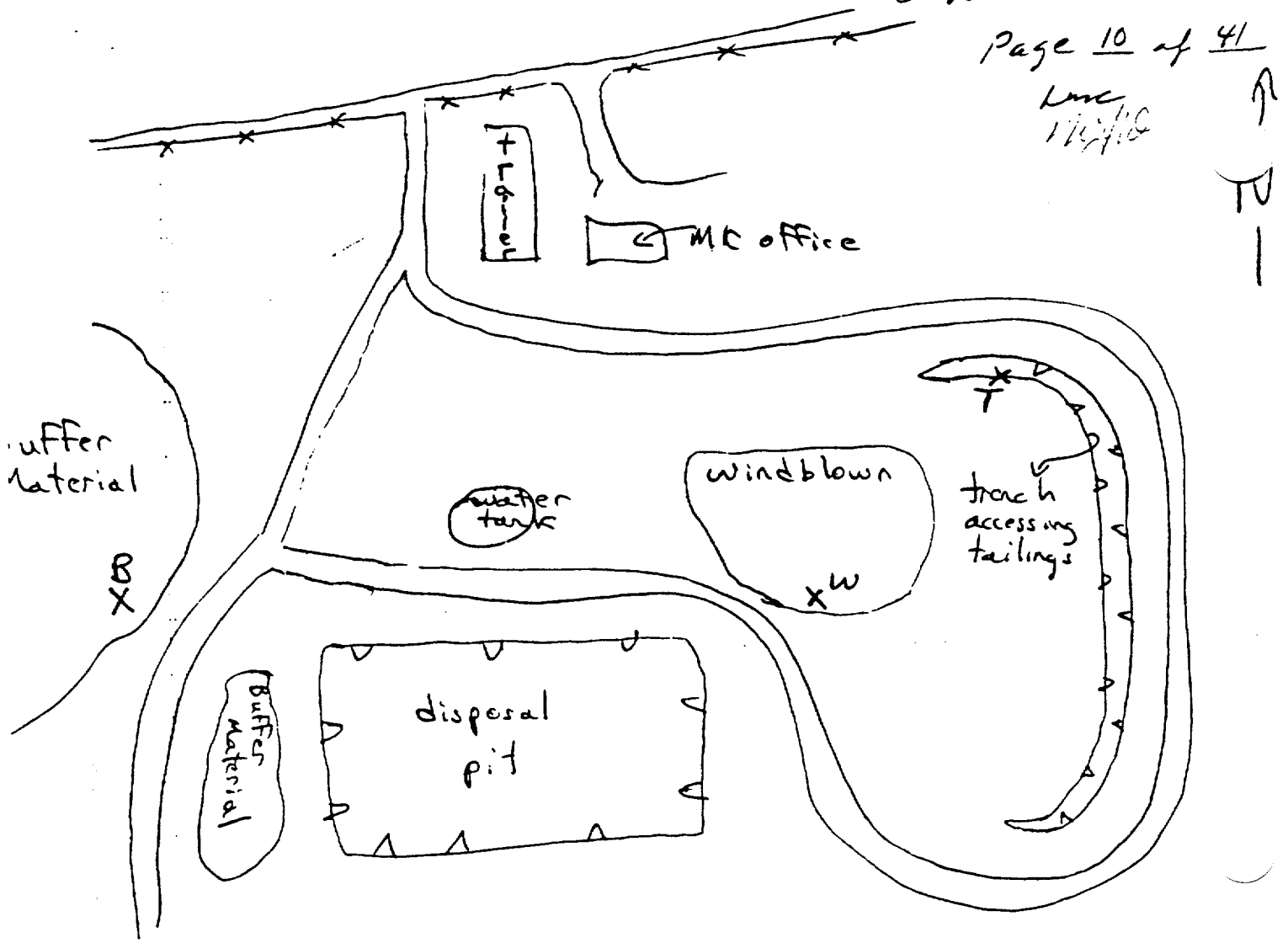
SUBJECT: Green River Tailings and Soil Samples

A total of (7) 5 gallon buckets of tailings and soil samples were collected from the Green River site on March 23, 1989. Fifteen gallons (approximately 150 lbs.) of tailings, ten gallons (approximately 100 lbs.) of windblown and ten gallons (approximately 100 lbs.) of buffer material were collected.

The MK site engineer indicated locations to collect the windblown and buffer material. Garth Stowe of Chem-Nuclear assisted in locating and verifying the tailings samples. The locations are plotted on the attached sketch. Due to the low activity of the samples, they were shipped on Northwest Freight and labeled as soil samples.

JF/bj
Attachment

cc: (w/o attachment)
AGroffman
BPeel
FTitus
Document Control



Sketch of Tailings and Soil Samples Collected on 3/23/89

3/27/89
Green River
J Fritts

Legend
B X - Buffer Material location
W X - Windblown Material location
T X - Tailings sample location

- No scale intended -

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Client : Jacobs Enginneering Group Inc.
Address : 5301 Central Avenue N.E. - Suite 1700
Albuquerque, New Mexico 87108
Attn : Ms. Mary Gilbert
P.O. No.: 34-6704-S-88-0033

Windblown Batch

Site Code: CRN01
Location ID: 825
Sample ID: 01
Sample Date Time: 04/10/89

Lab No. : 89-WI/02425
Date Received: 05/10/89

Parameters

Aluminum, dissolved	.05	mg/l
Antimony, dissolved	.009	mg/l
Arsenic, dissolved	.033	mg/l
Barium, dissolved	.06	mg/l
Beryllium, dissolved	-.005	mg/l
Calcium, dissolved	71.	mg/l
Cadmium, dissolved	.0030	mg/l
Chloride	8.	mg/l
Chromium, dissolved	-.01	mg/l
Cobalt, dissolved	-.02	mg/l
Copper, dissolved	.04	mg/l
Fluoride	.4	mg/l
Iron, dissolved	.02	mg/l
Mercury, dissolved	-.0001	mg/l
Potassium, dissolved	8.	mg/l
Magnesium, dissolved	9.	mg/l
Manganese, dissolved	-.01	mg/l
Molybdenum, dissolved	.007	mg/l
Nitrogen, ammonia	.19	mg/l
Sodium, dissolved	29.	mg/l
Nickel, dissolved	-.02	mg/l
Nitrate as N, dissolved	.40	mg/l
Nitrate as NO3	1.8	mg/l
Lead, dissolved	.003	mg/l
Selenium, dissolved	.011	mg/l
Silica, dissolved	13.3	mg/l
Sulfate	187.	mg/l
Strontium, dissolved	.71	mg/l
Solids, total dissolved	388.	mg/l
Thallium, dissolved	-.001	mg/l
Tin, dissolved	-.001	mg/l
Uranium, dissolved	.182	mg/l
Vanadium, dissolved	.24	mg/l
Zinc, dissolved	.02	mg/l

PRELIMINARY

Remarks:
Note: Negative sign " " denotes that the value is less than "<"

Ralph V. Poulsen, Laboratory Director
Ralph V. Poulsen, Lab.

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Windblown Batch

Client : Jacobs Enginneering Group Inc.
Address : 5301 Central Avenue N.E. - Suite 1700
Albuquerque, New Mexico 87108
Attn. : Ms. Mary Gilbert
P.O. No.: 34 6704-S-88-0033

Site Code: GRN01
Location ID: B26
Sample ID: 01
Sample Date Time: 04/10/89

Lab No. : 89-W1/02426
Date Received: 05/10/89

Parameters

Aluminum, dissolved	.06	mg/l
Antimony, dissolved	.004	mg/l
Arsenic, dissolved	.043	mg/l
Barium, dissolved	.07	mg/l
Beryllium, dissolved	-.005	mg/l
Calcium, dissolved	57.	mg/l
Cadmium, dissolved	-.0001	mg/l
Chloride	7.	mg/l
Chromium, dissolved	-.01	mg/l
Cobalt, dissolved	-.02	mg/l
Copper, dissolved	.02	mg/l
Fluoride	.3	mg/l
Iron, dissolved	.03	mg/l
Mercury, dissolved	-.0001	mg/l
Potassium, dissolved	7.	mg/l
Magnesium, dissolved	8.	mg/l
Manganese, dissolved	-.01	mg/l
Molybdenum, dissolved	.004	mg/l
Nitrogen, ammonia	.17	mg/l
Sodium, dissolved	24.	mg/l
Nickel, dissolved	-.02	mg/l
Nitrate as N, dissolved	.04	mg/l
Nitrate as NO3	.2	mg/l
Lead, dissolved	-.001	mg/l
Selenium, dissolved	.010	mg/l
Silica, dissolved	11.4	mg/l
Sulfate	152.	mg/l
Strontium, dissolved	.60	mg/l
Solids, total dissolved	302.	mg/l
Thallium, dissolved	-.001	mg/l
Tin, dissolved	-.001	mg/l
Uranium, dissolved	.177	mg/l
Vanadium, dissolved	.25	mg/l
Zinc, dissolved	.02	mg/l

Preliminary

Remarks:
Note: Negative sign "-" denotes that the value is less than "<"

Ralph V. Poulsen, Laboratory Director
Ralph V. Poulsen/S.H.

| ACZ Laboratories, In | Data Management System |
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Windblown Batch Mgt

Client : Jacobs Enginneering Group Inc.
Address : 5301 Central Avenue N.E. - Suite 1700
Albuquerque, New Mexico 87108
A[illegible] : Ms. Mary Gilbert
P.O. No.: 34 6704 S-88-0033

Site Code: CRN01
Location ID: 827
Sample ID: 01
Sample Date Time: 04/10/89

Lab No. : 89-WI/02427
Date Received: 05/10/89

Parameters

Aluminum, dissolved	-.05	mg/l
Antimony, dissolved	.002	mg/l
Arsenic, dissolved	.040	mg/l
Barium, dissolved	.08	mg/l
Beryllium, dissolved	-.005	mg/l
Calcium, dissolved	59.	mg/l
Cadmium, dissolved	-.0001	mg/l
Chloride	7.	mg/l
Chromium, dissolved	-.01	mg/l
Cobalt, dissolved	-.02	mg/l
Copper, dissolved	.04	mg/l
Fluoride	.3	mg/l
Iron, dissolved	-.02	mg/l
Mercury, dissolved	-.0001	mg/l
Potassium, dissolved	8.	mg/l
Magnesium, dissolved	8.	mg/l
Manganese, dissolved	-.01	mg/l
Molybdenum, dissolved	.003	mg/l
Nitrogen, ammonia	.09	mg/l
Sodium, dissolved	23.	mg/l
Nickel, dissolved	-.02	mg/l
Nitrate as N, dissolved	.07	mg/l
Nitrate as NO3	.3	mg/l
Lead, dissolved	-.001	mg/l
Selenium, dissolved	.009	mg/l
Silica, dissolved	11.7	mg/l
Sulfate	156.	mg/l
Strontium, dissolved	.62	mg/l
Solids, total dissolved	295.	mg/l
Thallium, dissolved	-.001	mg/l
Tin, dissolved	-.001	mg/l
Uranium, dissolved	.168	mg/l
Vanadium, dissolved	.24	mg/l
Zinc, dissolved	-.01	mg/l

PRELIMINARY

Remarks:
Note: Negative sign "-" denotes that the value is less than "<"

Ralph V. Poulsen, Laboratory Director

Ralph V. Poulsen /S.H.

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Windblown Batch

Client : Jacobs Enginneering Group Inc.
Address : 5301 Central Avenue N.E. - Suite 1700
Albuquerque, New Mexico 87108
Attn. : Ms. Mary Gilbert
P.O. No.: 34 6704 S-88-0033

Site Code: GRN01
Location ID: 828
Sample ID: 01
Sample Date Time: 04/10/89

Lab No. : 89-WI/02428
Date Received: 05/10/89

Parameters

Aluminum, dissolved	-.05	mg/l
Antimony, dissolved	.010	mg/l
Arsenic, dissolved	.032	mg/l
Barium, dissolved	.06	mg/l
Beryllium, dissolved	-.005	mg/l
Calcium, dissolved	60.	mg/l
Cadmium, dissolved	-.0001	mg/l
Chloride	6.	mg/l
Chromium, dissolved	-.01	mg/l
Cobalt, dissolved	-.02	mg/l
Copper, dissolved	.06	mg/l
Fluoride	.4	mg/l
Iron, dissolved	-.02	mg/l
Mercury, dissolved	-.0001	mg/l
Potassium, dissolved	7.	mg/l
Magnesium, dissolved	8.	mg/l
Manganese, dissolved	-.01	mg/l
Molybdenum, dissolved	.002	mg/l
Nitrogen, ammonia	.13	mg/l
Sodium, dissolved	22.	mg/l
Nickel, dissolved	-.02	mg/l
Nitrate as N, dissolved	.46	mg/l
Nitrate as NO3	2.0	mg/l
Lead, dissolved	-.001	mg/l
Selenium, dissolved	.011	mg/l
Silica, dissolved	11.1	mg/l
Sulfate	169.	mg/l
Strontium, dissolved	.63	mg/l
Solids, total dissolved	315.	mg/l
Thallium, dissolved	-.001	mg/l
Tin, dissolved	.001	mg/l
Uranium, dissolved	.172	mg/l
Vanadium, dissolved	.22	mg/l
Zinc, dissolved	.02	mg/l

PRELIMINARY

Remarks:
Note: Negative sign " " denotes that the value is less than "<"

Ralph V. Poulsen, Laboratory Director

Ralph V. Poulsen /S.H.

| ACZ Laboratories, In | Data Management System |
| 05/30/89 | Water Analysis Report | 14:36 |
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Batch Tailing Dyfi...

Client : Jacobs Enginneering Group Inc.
Address : 5301 Central Avenue N.E. - Suite 1700
Albuquerque, New Mexico 87108
A... : Ms. Mary Gilbert
P.O. No.: 34-6704-S-88-0033

Site Code: CRN01
Location ID: 833
Sample ID: 01
Sample Date Time: 05/08/89

Lab No. : 89-WI/02433
Date Received: 05/10/89

Parameters

Aluminum, dissolved	-.05	mg/l
Antimony, dissolved	.008	mg/l
Arsenic, dissolved	.012	mg/l
Barium, dissolved	.02	mg/l
Beryllium, dissolved	-.005	mg/l
Calcium, dissolved	607.	mg/l
Cadmium, dissolved	.0031	mg/l
Chloride	5.	mg/l
Chromium, dissolved	-.01	mg/l
Cobalt, dissolved	-.02	mg/l
Copper, dissolved	.03	mg/l
Fluoride	.6	mg/l
Iron, dissolved	-.02	mg/l
Mercury, dissolved	-.0001	mg/l
Potassium, dissolved	4.	mg/l
Magnesium, dissolved	32.	mg/l
Manganese, dissolved	.02	mg/l
Molybdenum, dissolved	.083	mg/l
Nitrogen, ammonia	.44	mg/l
Sodium, dissolved	20.	mg/l
Nickel, dissolved	-.02	mg/l
Nitrate as N, dissolved	3.35	mg/l
Nitrate as NO3	14.7	mg/l
Lead, dissolved	-.001	mg/l
Selenium, dissolved	.167	mg/l
Silica, dissolved	7.0	mg/l
Sulfate	1655.	mg/l
Strontium, dissolved	.99	mg/l
Solids, total dissolved	2325.	mg/l
Thallium, dissolved	-.001	mg/l
Tin, dissolved	.017	mg/l
Uranium, dissolved	.296	mg/l
Vanadium, dissolved	.07	mg/l
Zinc, dissolved	.04	mg/l

PRELIMINARY

Remarks:
Note: Negative sign "-" denotes that the value is less than "<"

Ralph V. Poulsen, Laboratory Director
Ralph V. Poulsen /S.H.

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Batch Tailings

Client : Jacobs Enginneering Group Inc.
Address : 5301 Central Avenue N.E. - Suite 1700
Albuquerque, New Mexico 87108
Attn. : Ms. Mary Gilbert
P.O. No.: 34-6704-S-88-0033

Site Code: GRN01
Location ID: 834
Sample ID: 01
Sample Date Time: 05/08/89

Lab No. : 89-WI/02434
Date Received: 05/10/89

Parameters

Aluminum, dissolved	-.05	mg/l
Antimony, dissolved	.002	mg/l
Arsenic, dissolved	.010	mg/l
Barium, dissolved	.02	mg/l
Beryllium, dissolved	-.005	mg/l
Calcium, dissolved	656.	mg/l
Cadmium, dissolved	.0033	mg/l
Chloride	5.	mg/l
Chromium, dissolved	-.01	mg/l
Cobalt, dissolved	-.02	mg/l
Copper, dissolved	.02	mg/l
Fluoride	.6	mg/l
Iron, dissolved	-.02	mg/l
Mercury, dissolved	-.0001	mg/l
Potassium, dissolved	4.	mg/l
Magnesium, dissolved	32.	mg/l
Manganese, dissolved	.01	mg/l
Molybdenum, dissolved	.088	mg/l
Nitrogen, ammonia	.17	mg/l
Sodium, dissolved	22.	mg/l
Nickel, dissolved	-.02	mg/l
Nitrate as N, dissolved	3.69	mg/l
Nitrate as NO3	16.2	mg/l
Lead, dissolved	-.001	mg/l
Selenium, dissolved	.183	mg/l
Silica, dissolved	6.9	mg/l
Sulfate	1712.	mg/l
Strontium, dissolved	1.00	mg/l
Solids, total dissolved	2305.	mg/l
Thallium, dissolved	-.001	mg/l
Tin, dissolved	.015	mg/l
Uranium, dissolved	.306	mg/l
Vanadium, dissolved	.07	mg/l
Zinc, dissolved	.02	mg/l

PRELIMINARY

Remarks:
Note: Negative sign "-" denotes that the value is less than "<"

Ralph V. Poulsen, Laboratory Director

Ralph V. Poulsen/S.H.

GRN-07-89-12-07-00
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Batch Tailings

Client : Jacobs Enginneering Group Inc.
Address : 5301 Central Avenue N.E. - Suite 1700
Albuquerque, New Mexico 87108
Attn. : Ms. Mary Gilbert
P.O. No.: 34-6704-S-88-0033

Site Code: CRN01
Location ID: 835
Sample ID: 01
Sample Date Time: 05/08/89

Lab No. : 89-WI/02435
Date Received: 05/10/89

Parameters

Aluminum, dissolved	-.05	mg/l
Antimony, dissolved	.009	mg/l
Arsenic, dissolved	.005	mg/l
Barium, dissolved	.02	mg/l
Beryllium, dissolved	-.005	mg/l
Calcium, dissolved	655.	mg/l
Cadmium, dissolved	.0028	mg/l
Chloride	5.	mg/l
Chromium, dissolved	-.01	mg/l
Cobalt, dissolved	-.02	mg/l
Copper, dissolved	.03	mg/l
Fluoride	.7	mg/l
Iron, dissolved	-.02	mg/l
Mercury, dissolved	-.0001	mg/l
Potassium, dissolved	4.	mg/l
Magnesium, dissolved	26.	mg/l
Manganese, dissolved	.01	mg/l
Molybdenum, dissolved	.091	mg/l
Nitrogen, ammonia	.48	mg/l
Sodium, dissolved	21.	mg/l
Nickel, dissolved	-.02	mg/l
Nitrate as N, dissolved	3.74	mg/l
Nitrate as NO3	16.5	mg/l
Lead, dissolved	-.001	mg/l
Selenium, dissolved	.187	mg/l
Silica, dissolved	5.5	mg/l
Sulfate	1712.	mg/l
Strontium, dissolved	1.09	mg/l
Solids, total dissolved	2350.	mg/l
Thallium, dissolved	-.001	mg/l
Tin, dissolved	.018	mg/l
Uranium, dissolved	.316	mg/l
Vanadium, dissolved	.07	mg/l
Zinc, dissolved	.02	mg/l

Preliminary

Remarks:
Note: Negative sign "-" denotes that the value is less than "<"

Ralph V. Poulsen, Laboratory Director

Ralph V. Poulsen/S.H.

GRN-07-89-12-07-00
Page 18 of 41
Batch Butterfield

Client : Jacobs Enginneering Group Inc.
Address : 5301 Central Avenue N.E. - Suite 1700
Albuquerque, New Mexico 87108
Attn. : Ms. Mary Gilbert
P.O. No.: 34-6704-S-89-0033

Site Code: CRN01
Location ID: 836
Sample ID: 01
Sample Date Time: 05/08/89

Lab No. : 89-WI/02436
Date Received: 05/10/89

PRELIMINARY

Parameters

Aluminum, dissolved	-.05	mg/l
Antimony, dissolved	.008	mg/l
Arsenic, dissolved	.002	mg/l
Barium, dissolved	.04	mg/l
Beryllium, dissolved	-.005	mg/l
Calcium, dissolved	135.	mg/l
Cadmium, dissolved	-.0001	mg/l
Chloride	6.	mg/l
Chromium, dissolved	-.01	mg/l
Cobalt, dissolved	-.02	mg/l
Copper, dissolved	.03	mg/l
Fluoride	1.0	mg/l
Iron, dissolved	-.02	mg/l
Mercury, dissolved	-.0001	mg/l
Potassium, dissolved	1.	mg/l
Magnesium, dissolved	22.	mg/l
Manganese, dissolved	-.01	mg/l
Molybdenum, dissolved	.006	mg/l
Nitrogen, ammonia	.23	mg/l
Sodium, dissolved	31.	mg/l
Nickel, dissolved	-.02	mg/l
Nitrate as N, dissolved	.10	mg/l
Nitrate as NO3	.4	mg/l
Lead, dissolved	-.001	mg/l
Selenium, dissolved	.005	mg/l
Silica, dissolved	8.9	mg/l
Sulfate	521.	mg/l
Strontium, dissolved	1.97	mg/l
Solids, total dissolved	750.	mg/l
Thallium, dissolved	-.001	mg/l
Tin, dissolved	.007	mg/l
Uranium, dissolved	.010	mg/l
Vanadium, dissolved	.01	mg/l
Zinc, dissolved	.01	mg/l

Remarks:
Note: Negative sign "-" denotes that the value is less than "<"

Ralph V. Poulsen, Laboratory Director

Ralph V. Poulsen/S.H.

ACZ Laboratories, In
05/30/89 Water Analysis Report

Data Management System
14:37
Page 1

GRN-07-89-12-07-00
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Batch Buffer

Client : Jacobs Enginneering Group Inc.
Address : 5301 Central Avenue N.E. - Suite 1700
Albuquerque, New Mexico 87108
Attn. : Ms. Mary Gilbert
P.O. No.: 34-6704-S-88-0033

Site Code: CRN01
Location ID: 837
Sample ID: 01
Sample Date Time: 05/08/89

Lab No. : 89-WI/02437
Date Received: 05/10/89

Parameters

Aluminum, dissolved	.26	mg/l
Antimony, dissolved	.001	mg/l
Arsenic, dissolved	.002	mg/l
Barium, dissolved	.06	mg/l
Beryllium, dissolved	-.005	mg/l
Calcium, dissolved	139.	mg/l
Cadmium, dissolved	.0004	mg/l
Chloride	9.	mg/l
Chromium, dissolved	-.01	mg/l
Cobalt, dissolved	-.02	mg/l
Copper, dissolved	.04	mg/l
Fluoride	1.1	mg/l
Iron, dissolved	.18	mg/l
Mercury, dissolved	-.0001	mg/l
Potassium, dissolved	1.	mg/l
Magnesium, dissolved	25.	mg/l
Manganese, dissolved	-.01	mg/l
Molybdenum, dissolved	.003	mg/l
Nitrogen, ammonia	.30	mg/l
Sodium, dissolved	38.	mg/l
Nickel, dissolved	-.02	mg/l
Nitrate as N, dissolved	.08	mg/l
Nitrate as NO3	.4	mg/l
Lead, dissolved	-.001	mg/l
Selenium, dissolved	.004	mg/l
Silica, dissolved	9.4	mg/l
Sulfate	512.	mg/l
Strontium, dissolved	2.10	mg/l
Solids, total dissolved	705.	mg/l
Thallium, dissolved	-.001	mg/l
Tin, dissolved	.006	mg/l
Uranium, dissolved	.060	mg/l
Vanadium, dissolved	.01	mg/l
Zinc, dissolved	.02	mg/l

PRELIMINARY

Remarks:
Note: Negative sign "-" denotes that the value is less than "<"

Ralph V. Poulsen, Laboratory Director

Ralph V. Poulsen /S.H.

ACZ Laboratories, In — Data Management System
05/30/89 — Water Analysis Report — 14:37
Page 1

GRN-07-89-12-07-
Page 20 of 4
Batch Buffer Line

Client : Jacobs Enginnoering Group Inc.
Address : 5301 Central Avenue N.E. - Suite 1700
Albuquerque, New Mexico 87108
Attn. : Ms. Mary Gilbert
P.O. No.: 34-6704-S 88-0033

Site Code: GRN01
Location ID: 838
Sample ID: 01
Sample Date Time: 05/08/89

Lab No. : 89-W1/02438
Date Received: 05/10/89

Parameters

Aluminum, dissolved	-.05	mg/l
Antimony, dissolved	.007	mg/l
Arsenic, dissolved	.003	mg/l
Barium, dissolved	.04	mg/l
Beryllium, dissolved	-.005	mg/l
Calcium, dissolved	127.	mg/l
Cadmium, dissolved	-.0001	mg/l
Chloride	6.	mg/l
Chromium, dissolved	-.01	mg/l
Cobalt, dissolved	-.02	mg/l
Copper, dissolved	.02	mg/l
Fluoride	1.1	mg/l
Iron, dissolved	-.02	mg/l
Mercury, dissolved	-.0001	mg/l
Potassium, dissolved	-1.	mg/l
Magnesium, dissolved	22.	mg/l
Manganese, dissolved	-.01	mg/l
Molybdenum, dissolved	.005	mg/l
Nitrogen, ammonia	.16	mg/l
Sodium, dissolved	31.	mg/l
Nickel, dissolved	-.02	mg/l
Nitrate as N, dissolved	.06	mg/l
Nitrate as NO3	.3	mg/l
Lead, dissolved	-.001	mg/l
Selenium, dissolved	.006	mg/l
Silica, dissolved	9.5	mg/l
Sulfate	480.	mg/l
Strontium, dissolved	1.91	mg/l
Solids, total dissolved	675.	mg/l
Thallium, dissolved	-.001	mg/l
Tin, dissolved	.007	mg/l
Uranium, dissolved	.010	mg/l
Vanadium, dissolved	.01	mg/l
Zinc, dissolved	-.01	mg/l

Preliminary

Remarks:
Note: Negative sign " - " denotes that the value is less than "<"

Ralph V. Poulsen, Laboratory Director

Ralph V. Poulsen /S.H.

GRN-07-89-12-07-00

Page 21 of 41

Client : Jacobs Enginneering Group Inc.
Address : 5301 Central Avenue N.E. - Suite 1700
Albuquerque, New Mexico 87108
Attn : Ms. Mary Gilbert
P.O. No.: 34 6704-S-88-0033

Tailings Batch Used as Column Feed

Site Code: GRN01
Location ID: 829
Sample ID: 01
Sample Date Time: 04/28/89

Lab No. : 89-WI/02429
Date Received: 05/10/89

Parameters

Aluminum, dissolved	-.05	mg/l
Antimony, dissolved	.004	mg/l
Arsenic, dissolved	.011	mg/l
Barium, dissolved	.02	mg/l
Beryllium, dissolved	-.005	mg/l
Calcium, dissolved	661.	mg/l
Cadmium, dissolved	-.0001	mg/l
Chloride	4.	mg/l
Chromium, dissolved	-.01	mg/l
Cobalt, dissolved	-.02	mg/l
Copper, dissolved	.01	mg/l
Fluoride	.5	mg/l
Iron, dissolved	-.02	mg/l
Mercury, dissolved	-.0001	mg/l
Potassium, dissolved	5.	mg/l
Magnesium, dissolved	33.	mg/l
Manganese, dissolved	.08	mg/l
Molybdenum, dissolved	.082	mg/l
Nitrogen, ammonia	.32	mg/l
Sodium, dissolved	18.	mg/l
Nickel, dissolved	-.02	mg/l
Nitrate as N, dissolved	2.91	mg/l
Nitrate as NO3	12.8	mg/l
Lead, dissolved	-.001	mg/l
Selenium, dissolved	.170	mg/l
Silica, dissolved	6.4	mg/l
Sulfate	1720.	mg/l
Strontium, dissolved	1.00	mg/l
Solids, total dissolved	2412.	mg/l
Thallium, dissolved	-.001	mg/l
Tin, dissolved	.017	mg/l
Uranium, dissolved	2.800	mg/l
Vanadium, dissolved	.07	mg/l
Zinc, dissolved	.03	mg/l

PRELIMINARY

Remarks:
Note: Negative sign "-" denotes that the value is less than "<"

Ralph V. Poulsen, Laboratory Director
Ralph V. Poulsen 15th.

GRN-07-89-12-07-00
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Client : Jacobs Enginneering Group Inc.
Address : 5301 Central Avenue N.E. - Suite 1700
Albuquerque, New Mexico 87108
Attn. : Ms. Mary Gilbert
P.O. No.: 34-6704-S-88-0033

Buffer material leachate w/ Tailings Feed (829)

Site Code: CRN01
Location ID: 830
Sample ID: 01
Sample Date Time: 04/28/89

Lab No. : 89-W1/02430
Date Received: 05/10/89

PRELIMINARY

Parameters

Aluminum, dissolved	-.05	mg/l
Antimony, dissolved	.001	mg/l
Arsenic, dissolved	.004	mg/l
Barium, dissolved	.02	mg/l
Beryllium, dissolved	-.005	mg/l
Calcium, dissolved	550.	mg/l
Cadmium, dissolved	.0001	mg/l
Chloride	19.	mg/l
Chromium, dissolved	-.01	mg/l
Cobalt, dissolved	-.02	mg/l
Copper, dissolved	.01	mg/l
Fluoride	1.5	mg/l
Iron, dissolved	-.02	mg/l
Mercury, dissolved	-.0001	mg/l
Potassium, dissolved	1.	mg/l
Magnesium, dissolved	138.	mg/l
Manganese, dissolved	-.01	mg/l
Molybdenum, dissolved	.063	mg/l
Nitrogen, ammonia	.11	mg/l
Sodium, dissolved	150.	mg/l
Nickel, dissolved	-.02	mg/l
Nitrate as N, dissolved	2.85	mg/l
Nitrate as NO3	12.5	mg/l
Lead, dissolved	-.001	mg/l
Selenium, dissolved	.091	mg/l
Silica, dissolved	22.8	mg/l
Sulfate	2231.	mg/l
Strontium, dissolved	3.70	mg/l
Solids, total dissolved	3126.	mg/l
Thallium, dissolved	-.001	mg/l
Tin, dissolved	.022	mg/l
Uranium, dissolved	.168	mg/l
Vanadium, dissolved	.02	mg/l
Zinc, dissolved	.03	mg/l

Remarks:
Note: Negative sign "-" denotes that the value is less than "<"

Ralph V. Poulsen, Laboratory Director

Ralph V. Poulsen/S.H.

ACZ Laboratories, In	Data Management System
05/30/89 Water Analysis Report	14:36

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GRN-01-89-12-07-00

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Client : Jacobs Enginneering Group Inc.
Address : 5301 Central Avenue N.E. - Suite 1700
Albuquerque, New Mexico 87108
Attn : Ms. Mary Gilbert
P.O. No.: 34-6704-S-88-0033

Buffer Material Leached w/ Tailings Feed (829)

Site Code: GRN01
Location ID: 831
Sample ID: 01
Sample Date Time: 04/28/89

Lab No. : 89-W1/02431
Date Received: 05/10/89

Parameters

Aluminum, dissolved	-.05	mg/l
Antimony, dissolved	.002	mg/l
Arsenic, dissolved	.003	mg/l
Barium, dissolved	.02	mg/l
Beryllium, dissolved	-.005	mg/l
Calcium, dissolved	560.	mg/l
Cadmium, dissolved	-.0001	mg/l
Chloride	16.	mg/l
Chromium, dissolved	-.01	mg/l
Cobalt, dissolved	-.02	mg/l
Copper, dissolved	.26	mg/l
Fluoride	1.6	mg/l
Iron, dissolved	-.02	mg/l
Mercury, dissolved	-.0001	mg/l
Potassium, dissolved	-1.	mg/l
Magnesium, dissolved	128.	mg/l
Manganese, dissolved	-.01	mg/l
Molybdenum, dissolved	.063	mg/l
Nitrogen, ammonia	.12	mg/l
Sodium, dissolved	126.	mg/l
Nickel, dissolved	-.02	mg/l
Nitrate as N, dissolved	2.80	mg/l
Nitrate as NO3	12.3	mg/l
Lead, dissolved	-.001	mg/l
Selenium, dissolved	.091	mg/l
Silica, dissolved	21.7	mg/l
Sulfate	2165.	mg/l
Strontium, dissolved	4.00	mg/l
Solids, total dissolved	3052.	mg/l
Thallium, dissolved	-.001	mg/l
Tin, dissolved	.018	mg/l
Uranium, dissolved	.398	mg/l
Vanadium, dissolved	.02	mg/l
Zinc, dissolved	.04	mg/l

Preliminary

Remarks:
Note: Negative sign "-" denotes that the value is less than "<"

Ralph V. Poulsen, Laboratory Director

Ralph V. Poulsen I.S.H.

GRW-07-89-12-07-00
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Client : Jacobs Enginneering Group Inc.
Address : 5301 Central Avenue N.E. - Suite 1700
Albuquerque, New Mexico 87108
Attn. : Ms. Mary Gilbert
P.O. No.: 34-6704-S-88-0033

Buffer Material Leached w/ Tailings Feed (829)

Site Code: GRN01
Location ID: 832
Sample ID: 01
Sample Date Time: 04/28/89

Lab No. : 89-WI/02432
Date Received: 05/10/89

Parameters

Aluminum, dissolved	-.05	mg/l
Antimony, dissolved	.007	mg/l
Arsenic, dissolved	.003	mg/l
Barium, dissolved	.02	mg/l
Beryllium, dissolved	-.005	mg/l
Calcium, dissolved	511.	mg/l
Cadmium, dissolved	-.0001	mg/l
Chloride	25.	mg/l
Chromium, dissolved	-.01	mg/l
Cobalt, dissolved	-.02	mg/l
Copper, dissolved	.03	mg/l
Fluoride	1.6	mg/l
Iron, dissolved	-.02	mg/l
Mercury, dissolved	-.0001	mg/l
Potassium, dissolved	1.	mg/l
Magnesium, dissolved	150.	mg/l
Manganese, dissolved	-.01	mg/l
Molybdenum, dissolved	.058	mg/l
Nitrogen, ammonia	.27	mg/l
Sodium, dissolved	209.	mg/l
Nickel, dissolved	-.02	mg/l
Nitrate as N, dissolved	2.81	mg/l
Nitrate as NO3	12.4	mg/l
Lead, dissolved	-.001	mg/l
Selenium, dissolved	.074	mg/l
Silica, dissolved	23.0	mg/l
Sulfate	2437.	mg/l
Strontium, dissolved	5.00	mg/l
Solids, total dissolved	3520.	mg/l
Thallium, dissolved	-.001	mg/l
Tin, dissolved	.027	mg/l
Uranium, dissolved	.077	mg/l
Vanadium, dissolved	.04	mg/l
Zinc, dissolved	.02	mg/l

PRELIMINARY

Remarks:
Note: Negative sign "-" denotes that the value is less than "<"

Ralph V. Poulsen, Laboratory Director

Ralph V. Poulsen/S.H.

GREEN RIVER BATCH / COLUMN ANALYSIS

D.I. water pH = 6.22 5 springs Double DI.

I.D.#	Category	pH * Dilute	Titration @ 4.5 * Titration Diluted soln @ 5% soln 95% DI. water	Ec µmHOS	Temp (°C)
825	Windblown	6.26	(13) → x 20 = 260	550	6°
826	Windblown	6.72	(12) x20 = 240	400	10°
827	Windblown	6.74	(6) x 20 = 120	400	12.5
828	Windblown	6.46	(3) x 20 = 60	450	14.5
829	Batch Feed blend for Columns. 829 – sent in for comparison.	← NOT DILUTED → 7.40	106	1850	22.0°
		5% / 95% ← Diluted Titration / pH →			
830	Columns of buffer Fed by Tailings batch material.	6.64	2 (x20) = 40	2240	18.5
831		6.93	9 (x 20) = 180	2050	18.0
832		7.02	10 (x20) = 200	2025	20.0
	Diluted Titration / Analysis [5%/95%].				
833	Batch Buffer material	Dilute – 6.29 Not Dilute – 7.62	2 (x20) = 40	900	24.0
834		Dilute – 6.33 Not Dilute – 7.67	3 (x20) = 60	920	25.0
835		Dilute – 6.41 Not Dilute – 7.64	5 (x20) = 100	870	25.0
	Diluted titration / Analysis (5%/95%).				
836	Tailings Batch	Dilute – 6.71 Not Dilute – 7.38	8 (x20) = 160	1930	25.0
837		Dilute – 6.76 Not Dilute – 7.31	5 (x20) = 100	1950	23.0
838		Dilute – 6.76	2 (x20) = 40	1970	24.0

Monday
4-10-84 Grn.-01 A. Groffman

11:00 A.M. -
Obtained 10 gelmans from sampling Vehicles.
- Prepare containers for Tailings Batch test; Defoam & Fill.

Windblown Contaminants GRN:
Samples taken from homogenized windblown material.

	I.D. #	Initial Value	Diluted Value * pts. Titration A.	B	C.	E.C. (umhs)	Temp °C
0. GRN [825]	1-2	6.26	6.50 -			550	@ 6°C
			5.70 - 9				
			5.10 - 11				
			4.80 - 12				
			* 4.50 - 13			× 20 = 260	
			4.25 - 13				
			4.00 - 13				
[826]	3-4	6.72	6.50 -			400	@ 10°C
		6.10 after adjitation	5.70 - 7				
			5.10 - 10				
			4.80 - 11				
			* 4.60 - 12			× 20 = 240	
			4.25 -				
			4.00 -				
[827]	5-6	A 6.74	6.50 -			400	@ 12.5°C
		Adjitated -	5.70 - 5	3			
		B. 6.52	5.10 - 6	4			
			4.80 -	5			
			* 4.50 -	6		× 20 = 120	
			4.25 -	7			
			4.00 -	8			
[828]	7-8	A. 6.46	6.50 -			450	@ 14.5°C
		B. 6.43	5.70 - 6	3	1		
			5.10 - 18		2		
			4.80 - 20				
			* 4.50 - 22		3	× 20 = 60	
			4.25 - 26				
			4.00 - 27				

Arithmatic Average = 170 Deviation: 110 low to 90 low of 60 to high of 260

* pH titrations are diluted at ratio of 5% Liquor 95% DI H_2O.
USE MULTIPLIER OF 20

Lmc
Mtt

Friday 4-14-89 A. Groffman

8:10 Arrive at Rad lab. Prep for filtration & sample blending. Thurough blending of 2 sets to prep for blend/resivoir. Need another 2 sets. Will try 1 l polycarbon flasks with 200 ml Tailings / 800 ml H_2O.

GRN-T

I.D.	weight Tails (g)	weight H_2O g	P.M. Adjitations 4-14	4-15	4-16	P.M. 14-17
17	200.1	~800	1	1 1	1	
18	200.1	800.1	1	1 1	1	
19	200.7	800.2	1	1 1	1	
20	201.4	800.0	1	1 1	1	
21	200.0	807.4	1	1 1	1	
22	200.4	800.1	1	1 1	1	
23	199.9	800.1	1	1 1	1	
24	200.0	803.5	1	1 1	1	

11:30 Lv. Lab got ICE. Back to Office. Lk. up A.G.

I.D. # 829

2:00 Arrive back at Lab. [Tailings]

Filter Tailings samples 9-16 500 ml beakers. Yeild = ~2.5 l. Blended all 8 Flasks, stored in carboy.

Initial pH = 7.40, Ec = A. 1780, B. 1850 yes, T = 22° C

Alkalinity Titration 1.6 N H_2SO_4

7.00 - 65
6.50 - 79
5.70 - 92
5.10 - 95
4.80 - 105
4.50 - 106
4.25 - 107
4.00 - 107

Not Diluted

5:15 Leave Lab Lock. up A. Groffman

Lance
[illegible]

4-27-89 A. Groffman GRN
Thursday

8:00 Arrive at lab to ck. drip system. Decanted soln from column 7 & 9. Hope to ship on the 27th. Lock up & leave ~8:20. A.G.

4-28-89 A. Groffman GRN.

1:20 P.M. Arrive at lab to obtain parameters & ship.

Diluted

I.D. #	Column #	PH (initial)	* Titration pts.		Ec	
* 832	9	6.64	6.5	1	2240	1
		corrected 5.34	6.0	1		
			5.7	↓		
			5.10	↓		
			4.80	2		
			4.50	↓		
			4.25	3		
			4.00	↓		
* 831	8	6.93	6.50	4	2050	18
		corrected by 5.62 multiplying x 20	6.00	1		
			5.70	6		
			5.10	8		
			4.80	9		
			4.50	9		
			4.25	1		
			4.00	10		
* 830	7	7.02	6.50	↓	2025	2
		5.72	6.00	1		
			5.70	2		
			5.10	6		
			4.80	9		
			4.50	10		
			4.25	11		
			4.00	13		

4:00 Shipped to ACZ.
Leave Lab, Lock up A.G.

* Diluted to 5 ml Elute / 95 ml H_2O(DI).

5-3-89 GRN Line Meth A. Groffman

8:00 Arrive at Rad Lab - set system shaking -
9:00 Next batch set shaking.
Leave Lab ~ 9:30 A.M. Lock up -

5-5-89 Arrive at Lab. Last shake. A.G.

1:30 Arrive at Lab for sampling (preservation). (x 20)
* undiluted measurement > 7.33 ✱ All Alkalinities Diluted .5ml/95ml

I.D.	ID #		Initial pH	EC	Alkalinity	pH pts.	T °C
833	B 1	7.42	6.29.	900	6.00 5.70 5.10 4.80 * 4.50 4.25 4.00	 1 1 2 ↓	24°
Batch Grn-09 834	B2	* 7.67	6.33	920	6.00 5.70 5.10 4.80 * 4.50 4.25 4.00	↓ 1 2 3 1 4	25°
835	B3	* 7.64	6.41	870	6.00 5.70 5.10 4.80 * 4.50 4.25 4.00	↓ 1 ↓ 4 5 ↓ 6	25°
836	T1	7.36	6.71	1930	6.00 5.70 5.10 4.80 * 4.60 4.25 4.00	1 5 6 7 8 ↓ 9	25°
Tail Grn-01 837	T2	* 7.39	6.70	1950	6.00 5.70 5.10 4.80 * 4.50 4.25 4.00	1 3 4 5 5 6 7	23°
838	T3	7.33	6.76	1970	6.50 6.00 5.70 5.10 4.80 * 4.50 4.25 4.00	↓ 1 ↓ ↓ 2 3 4	24°
5.30	Leave Lab						

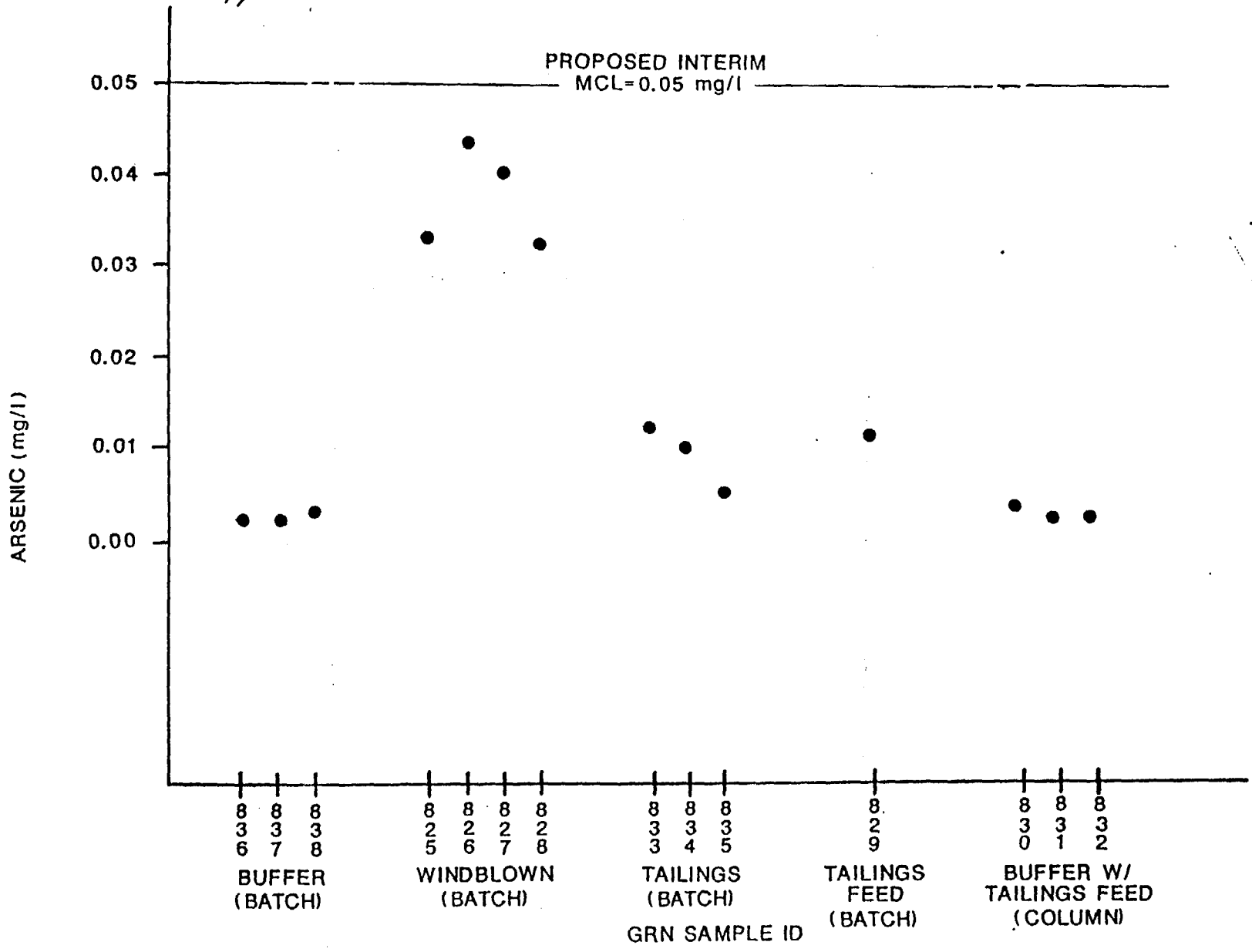

FIGURE 1
DISSOLVED ARS C CONCENTRATIONS

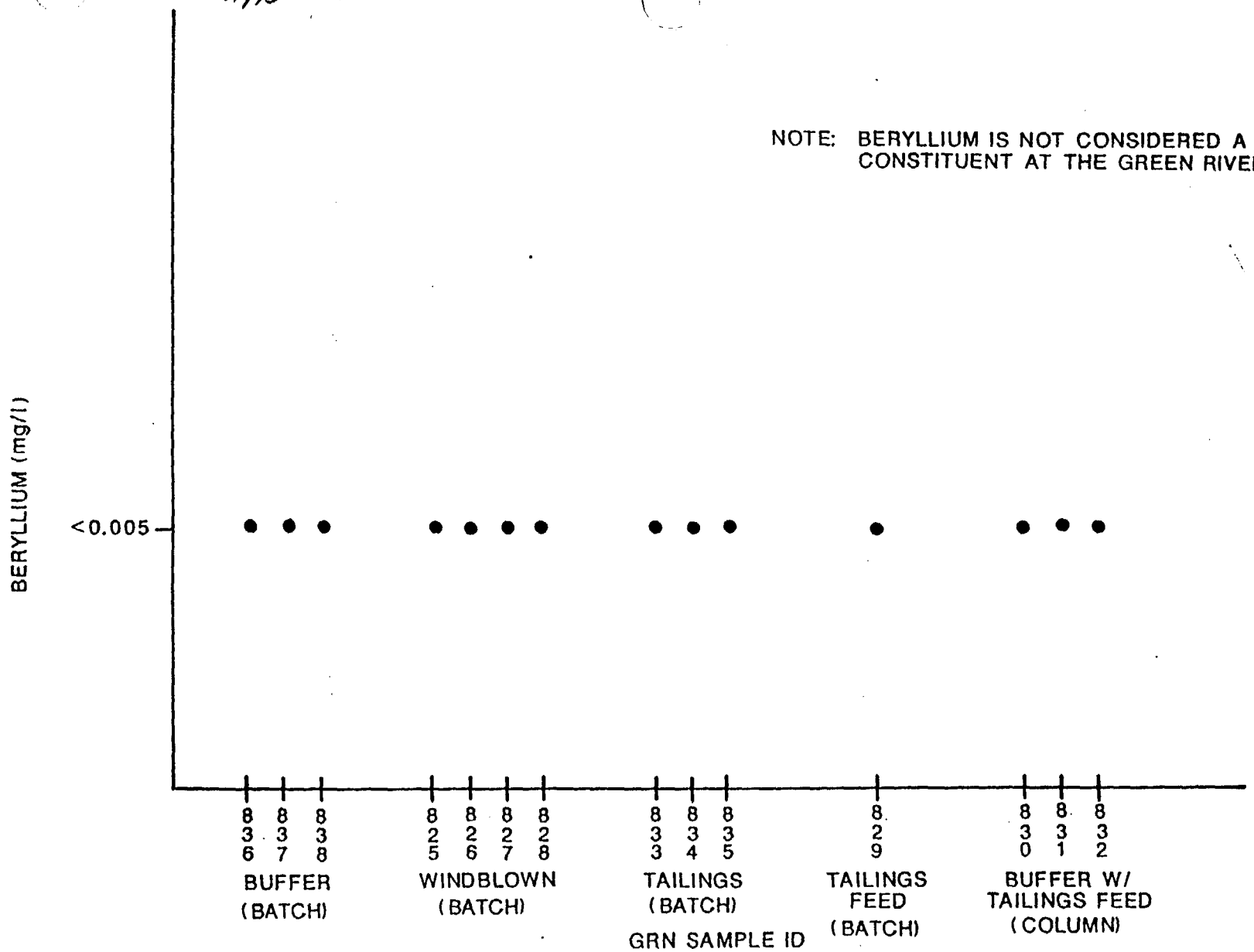

FIGURE 2

DISSOLVED BERYLLIUM CONCENTRATIONS

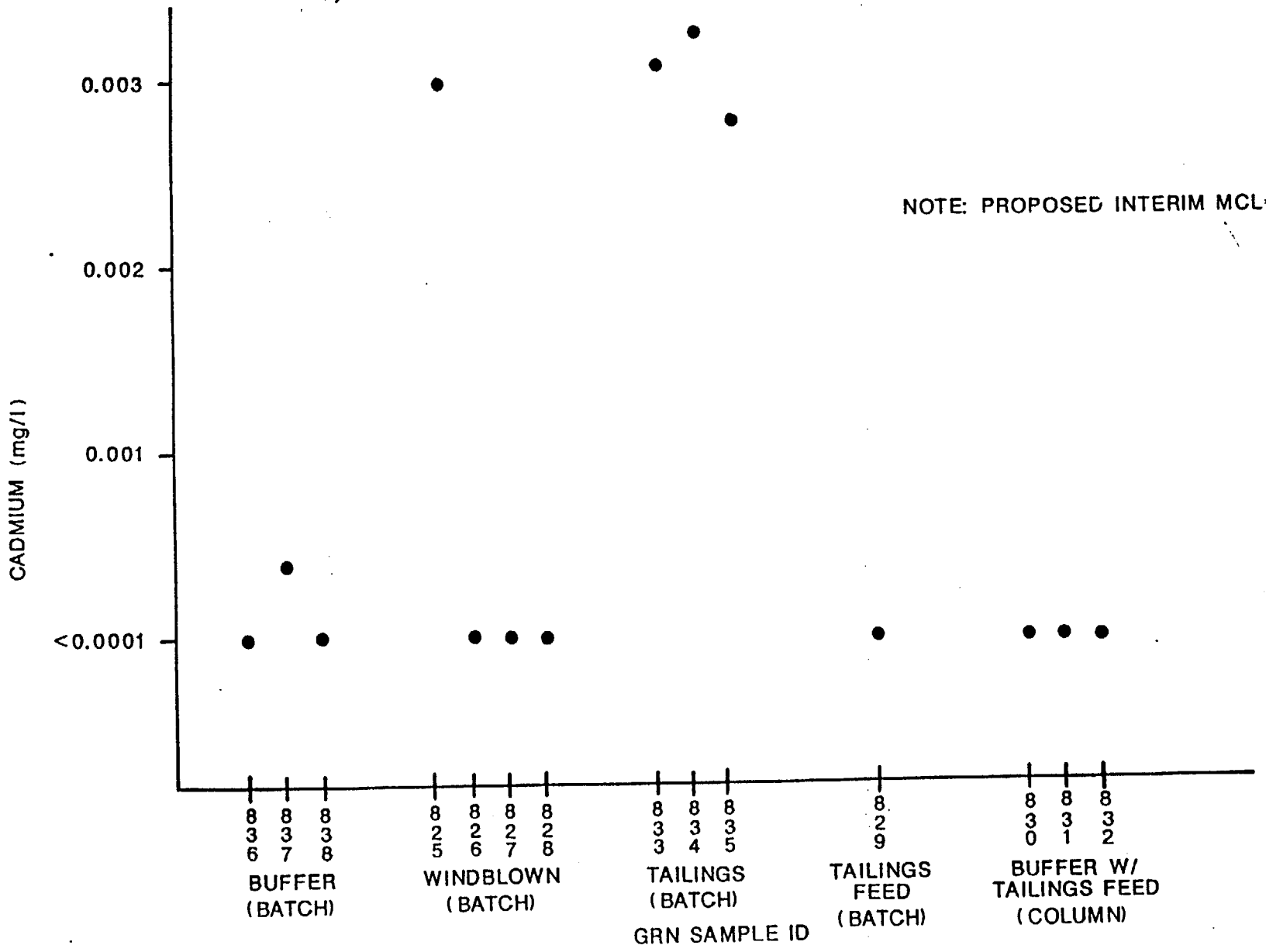

FIGURE 3

DISSOLVED CADMIUM CONCENTRATIONS

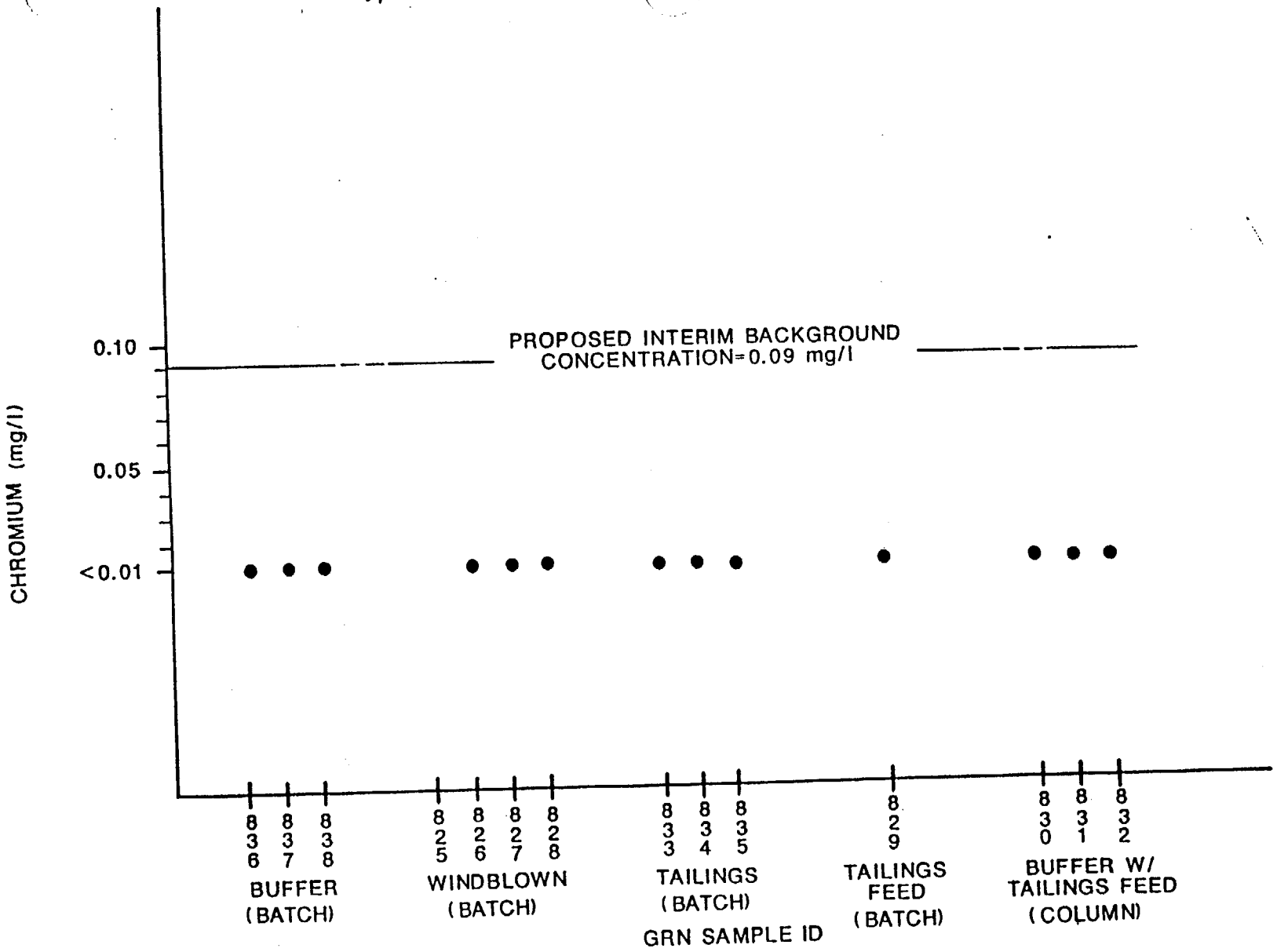

FIGURE 4
DISSOLVED CHROMIUM CONCENTRATIONS

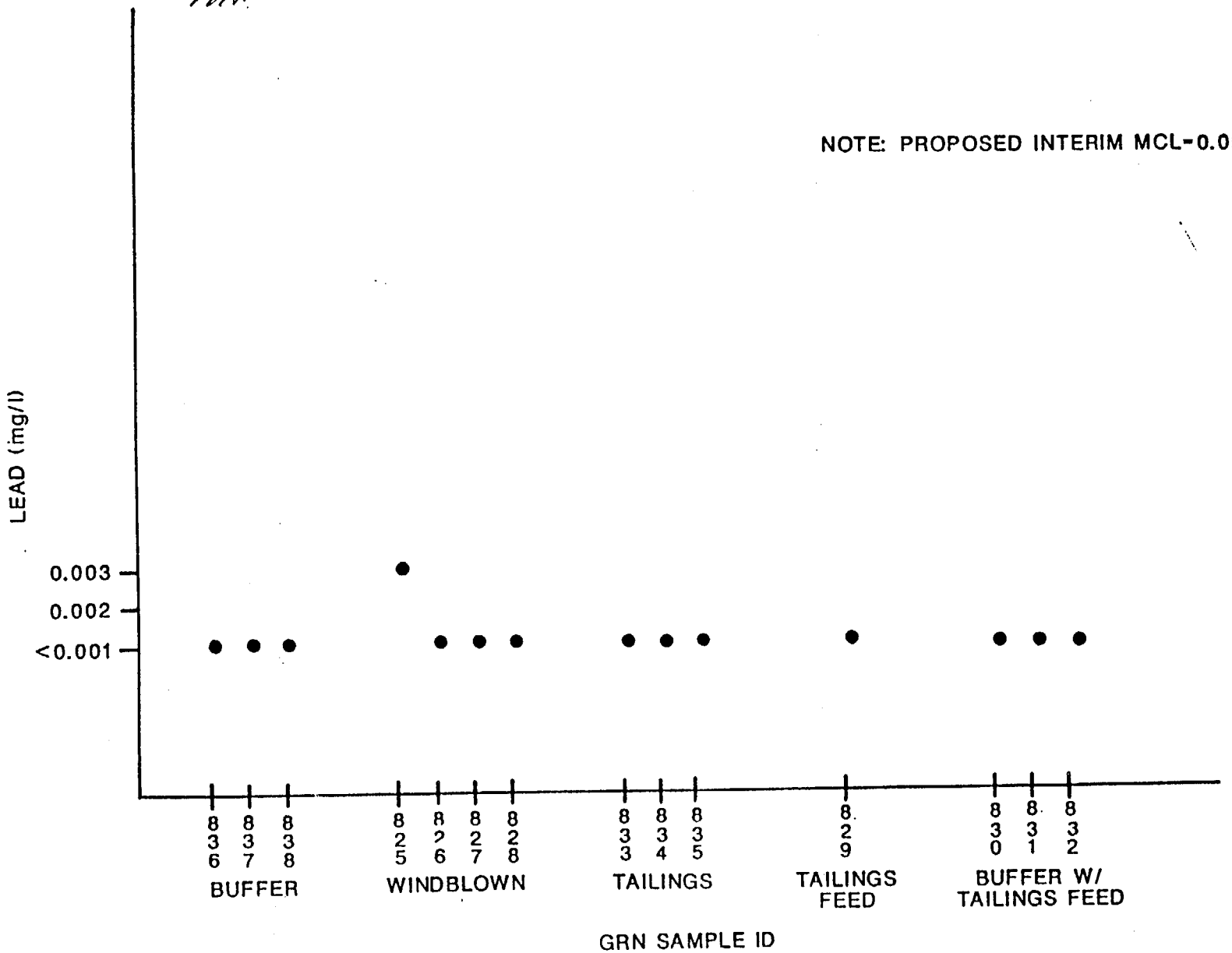

FIGURE 5
DISSOLVED D CONCENTRATIONS

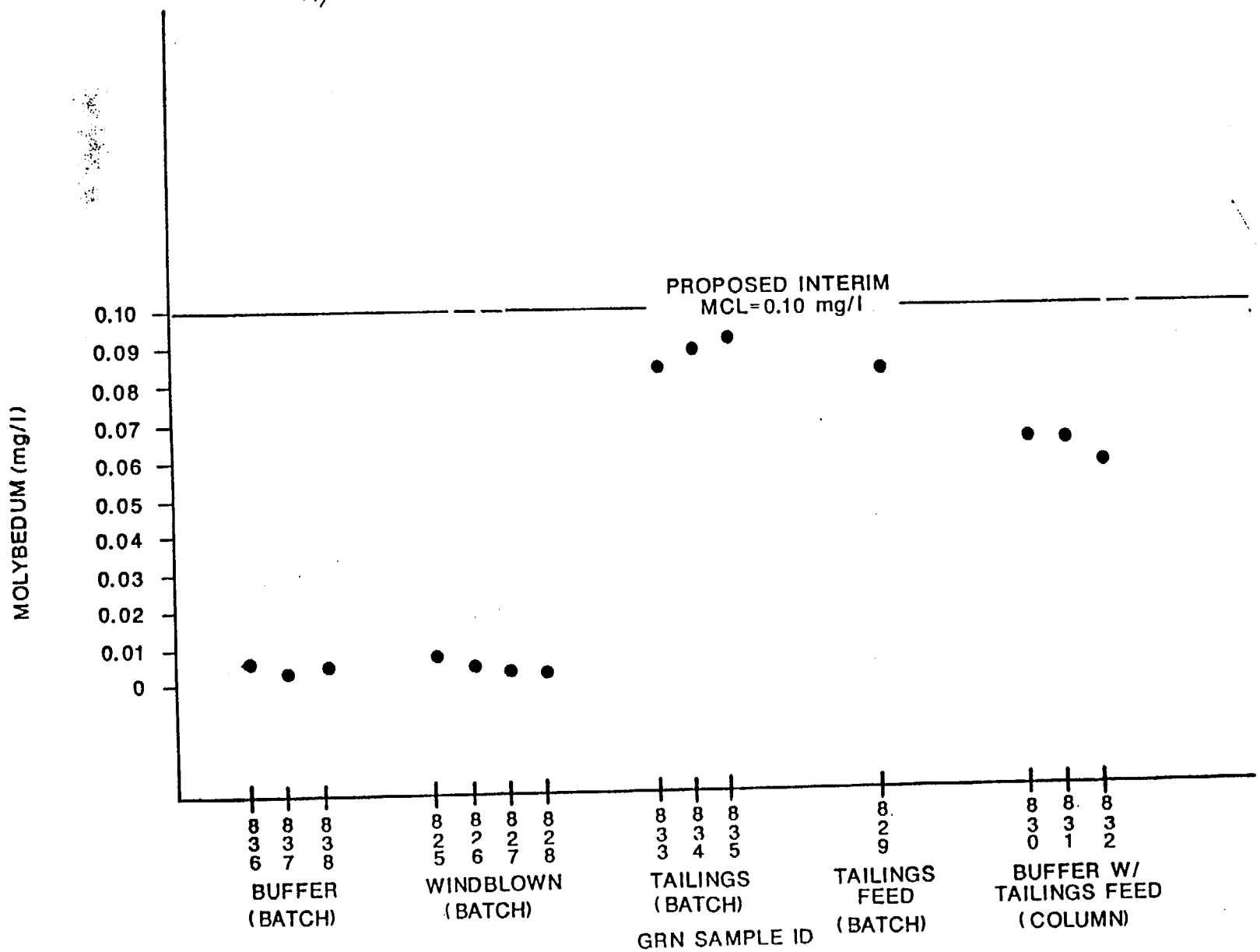

FIGURE 6

DISSOLVED MOLYBDENUM CONCENTRATIONS

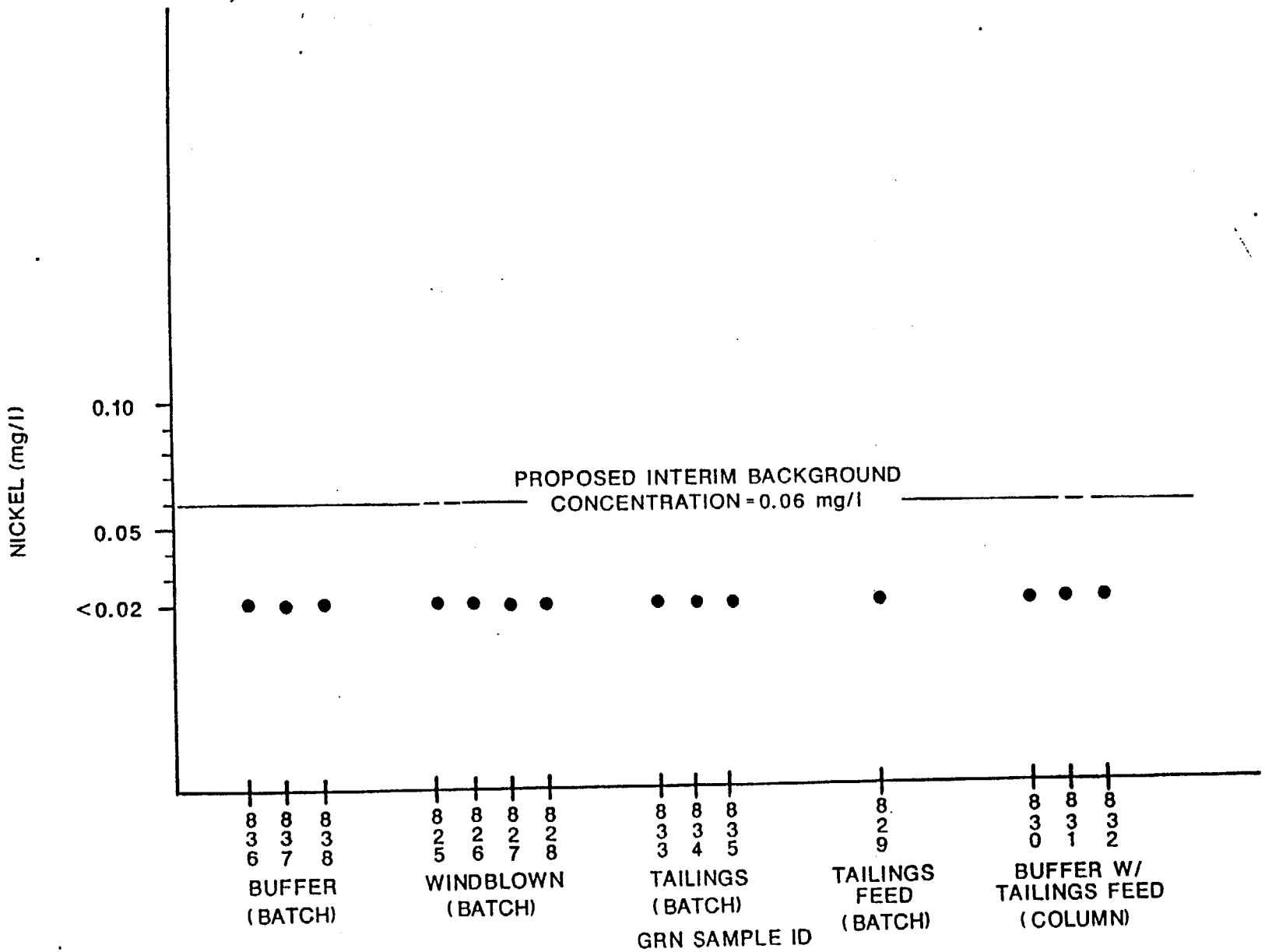

FIGURE 7

DISSOLVED NIC CONCENTRATIONS

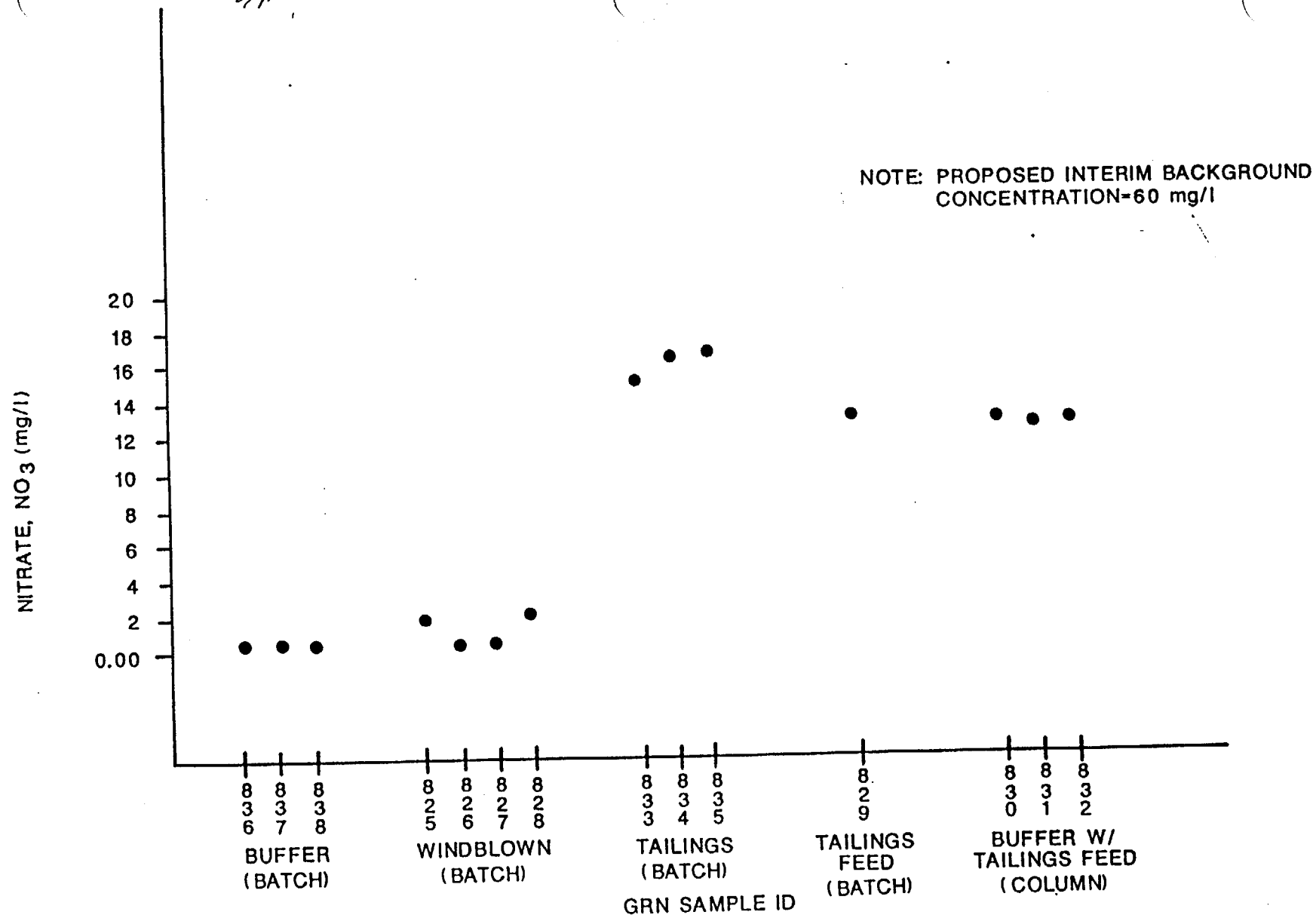

FIGURE 8
DISSOLVED NITRATE (NO_3) CONCENTRATIONS

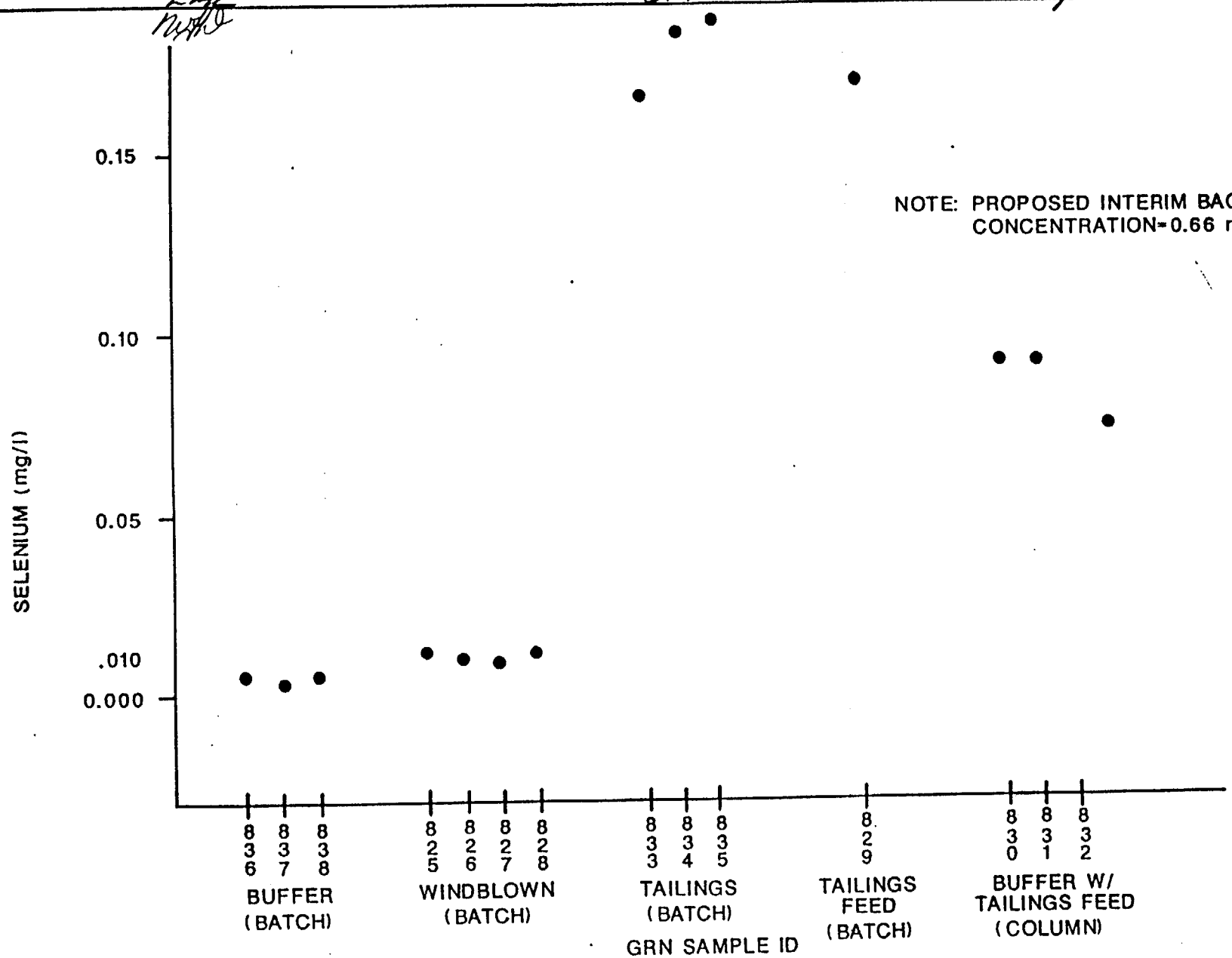

FIGURE 9

DISSOLVED SELENIUM CONCENTRATIONS

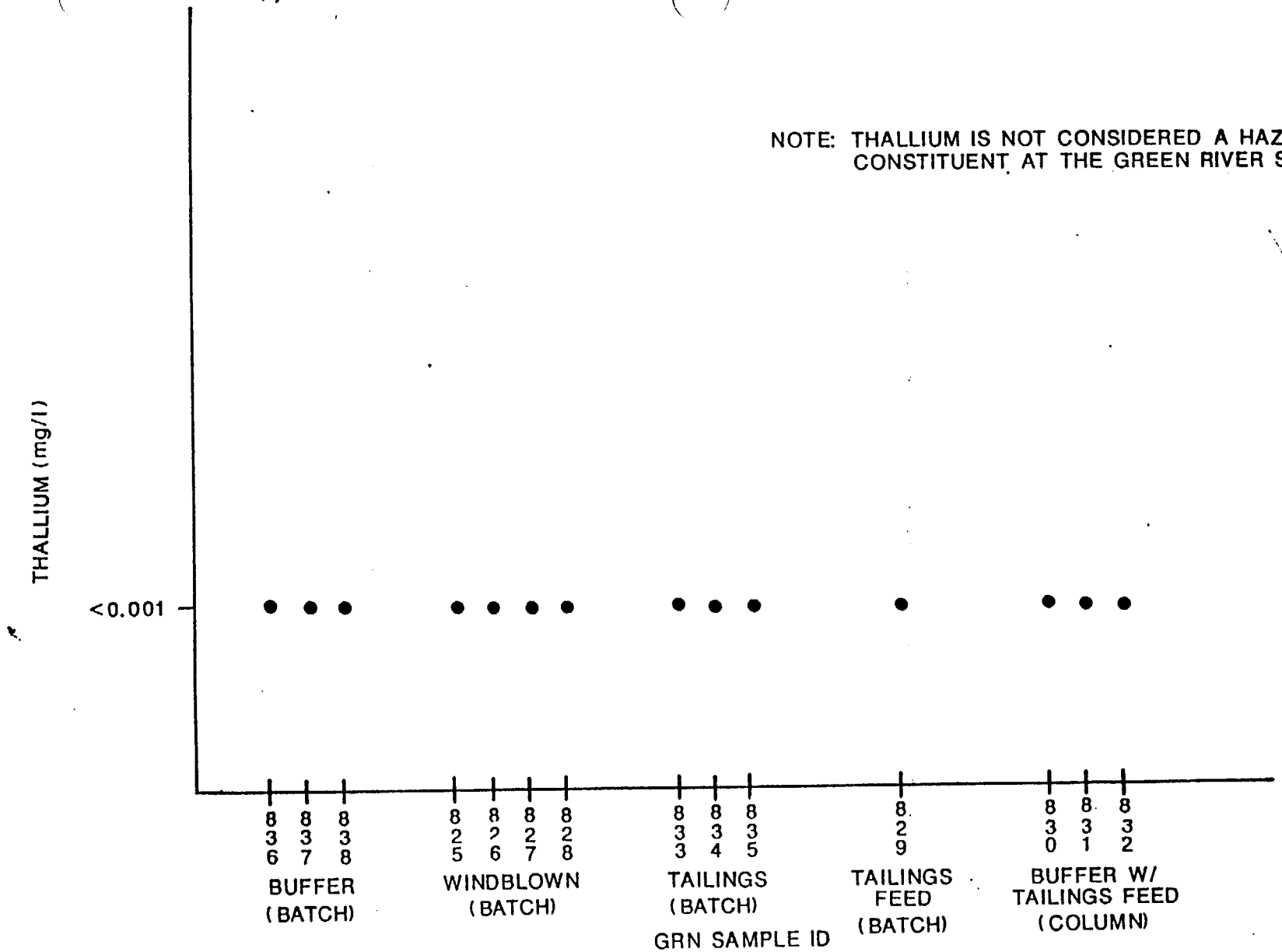

FIGURE 10
DISSOLVED THALLIUM CONCENTRATIONS

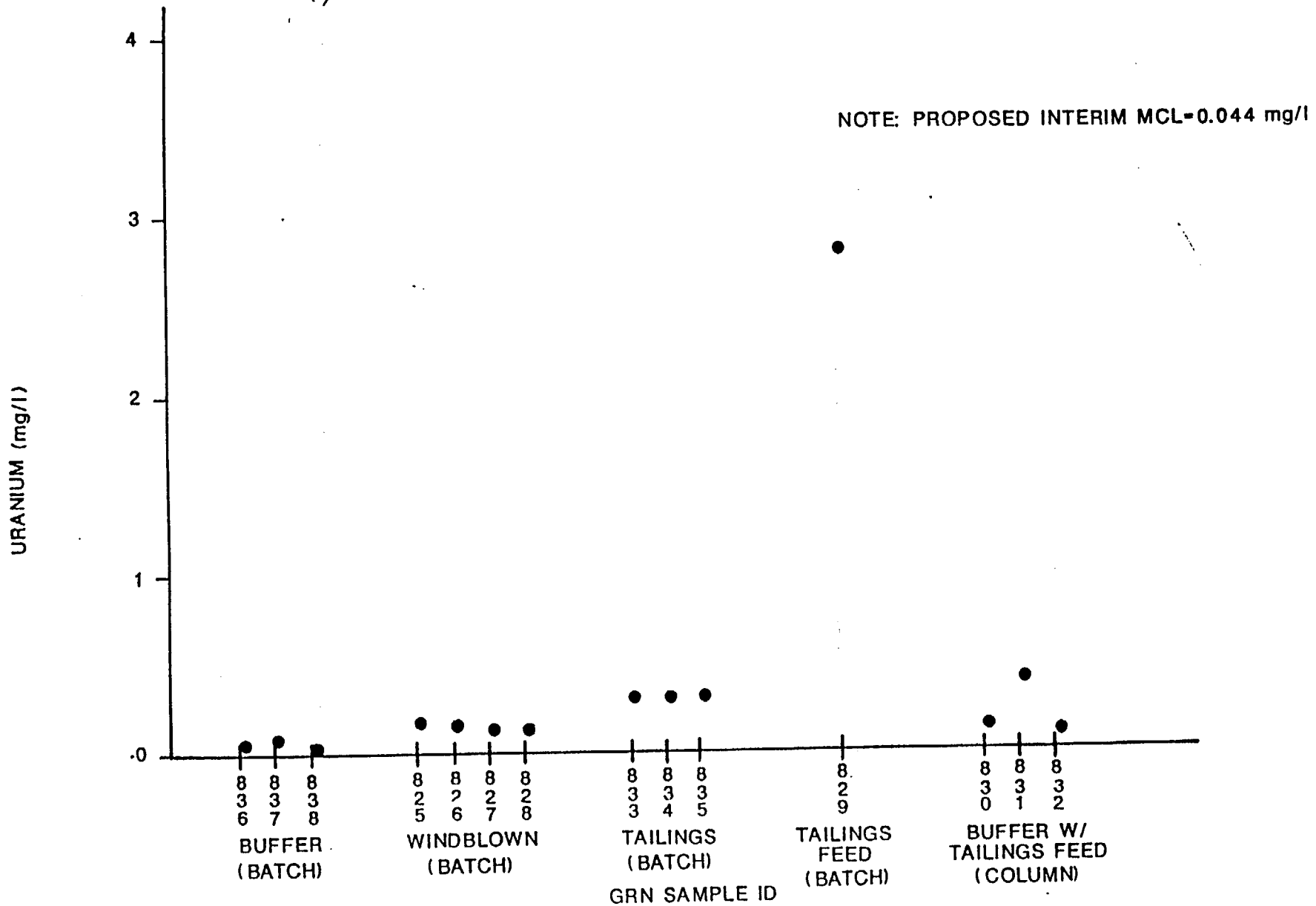

FIGURE 11
DISSOLVED URANIUM CONCENTRATIONS

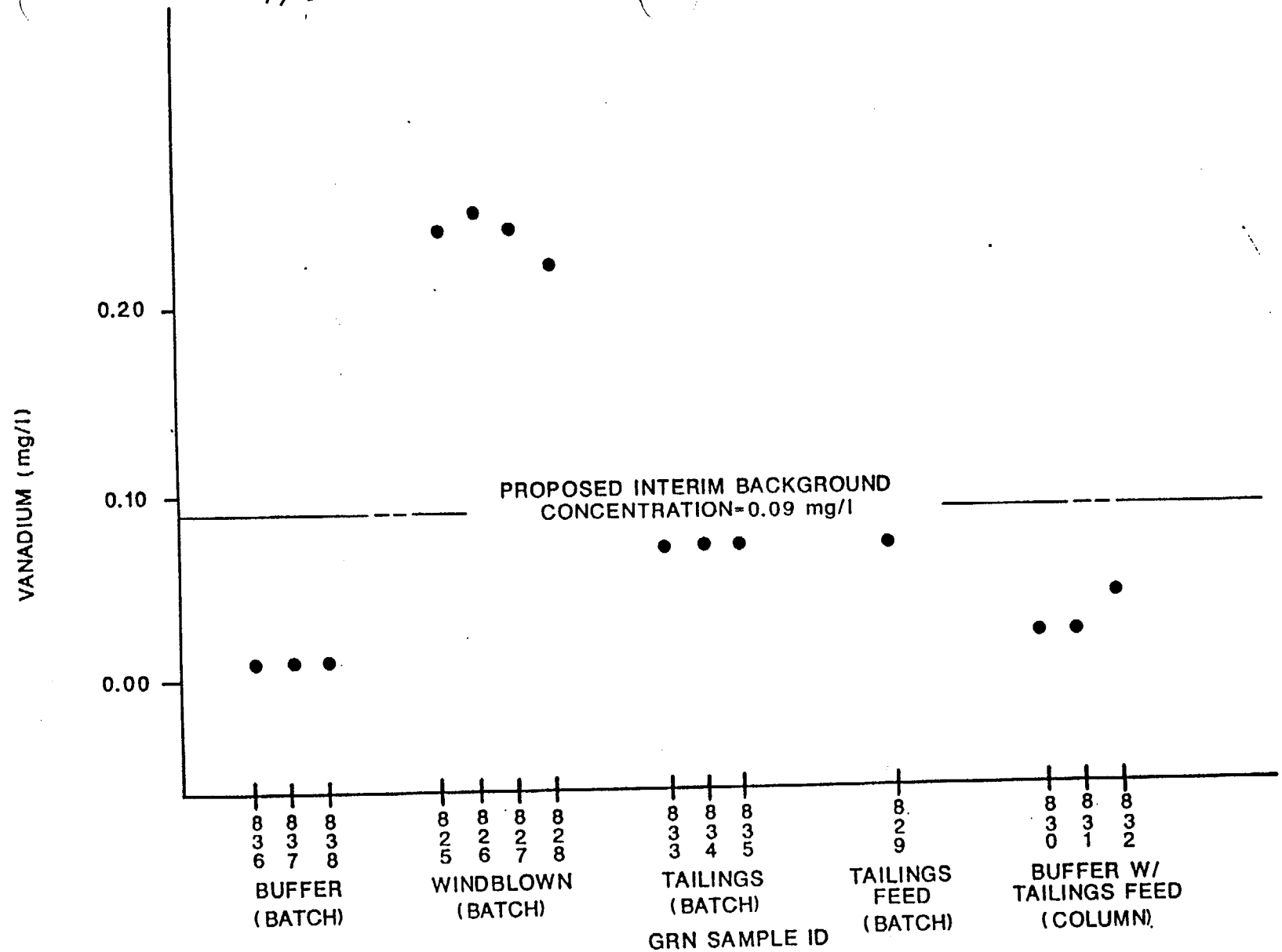

FIGURE 12
DISSOLVED VANADIUM CONCENTRATIONS

ANALYSIS OF CONTAMINATED MATERIAL

MOISTURE CONTENT AND DENSITY

MORRISON-KNUDSEN ENGINEERS, INC.
A MORRISON-KNUDSEN COMPANY

DOCUMENT TRANSMITTAL

TO : J. G. Oldham Attention: R. E. Cooney	**DATE :** 14 November 1989
LOCATION : MK - Boise	**SITE :** GRN
NO. : 5057-GRN-N-01-01760-00	**COPY NO.(S) :**

Enclosed is a copy of our revised responses to the NRC comments on the RAIP regarding adequacy of the frequency of density and moisture content testing. Please provide a copy to John Singleton. Copies of the "Contaminated Material Moisture Content, Density and Compaction Data" enclosure to the responses have already been supplied under separate cover.

COMMENTS :

F.J. Feliz

F. J. Feliz

NRCCOMMENTS.GRN

UMTRA DOCUMENT REVIEW FORM

SECTION 1

Site: Green River

Date: 31 October 1989

Document: Comments on RAIP

Commentor: NRC

Comment:

ADDITIONAL INFORMATION AND JUSTIFICATION NEEDED IN GREEN RIVER FINAL REMEDIAL ACTION PLAN

ISSUE: Tests to verify the placement density and moisture content of the contaminated materials placed in the disposal cell were not required at a frequency of one test per 1000 cubic yards of material placed, as recommended in NRC staff guidance and as generally performed at other UMTRA sites. Rather, a performance specification was set and less frequent "non-record" verification tests were performed.

RESOLUTION: DOE needs to provide a detailed justification that the field and laboratory testing performed, in conjunction with the performance specification, is adequate to provide reasonable assurance that the in-place contaminated materials meet the RAP design requirements for density and moisture. In formulating this justification, DOE should consider, and provide detailed information on, the following:

- The uniformity of the contaminated materials, as supported gradation tests, resulting gradation parameters, and Proctor compaction tests.
- The results and locations of all density and moisture tests that were performed, including results of the trial compaction, and an analysis of the data which provides the basis for confidence that the moisture/density requirements are met.

SECTION 2

Moisture content and density testing frequency requirements given in Rev. C of the Remedial Action Inspection Plan (RAIP) are considered adequate based on the characteristics of the contaminated materials and the success of the compaction procedures used. Specific characteristics of contaminated materials include both the predominantly dry moisture contents in situ and predominantly coarse-grained nature which made the material easily amenable to two consistent compaction procedures. The compaction procedures were verified both at the beginning of placement of tailings and off-pile materials and during placement. The enclosed analysis of density and moisture data provides the detailed documentation justifying the adequacy of testing.

Additional justification of adequacy of the as-placed moisture contents of contaminated materials for groundwater protection compliance has been made elsewhere by DOE and is not repeated in this response. This response only serves to document that the testing frequency for moisture content is sufficient to show that the as-placed moisture contents of all materials are known with a high level of confidence.

Plans for Implementation: As above.

SECTION 3

Confirmation of Implementation:

Checked By: _____ Date: _____

Approved By: _____ Date: _____

UMTRA PROJECT - GREEN RIVER
ANALYSIS OF CONTAMINATED
MATERIAL MOISTURE CONTENT AND DENSITY IN-PLACE

Analysis and information are provided below to document that in-place density of contaminated materials meets the requirements of the Remedial Action Plan and that in-place moisture content is known with confidence.

A list of types of information requested by the Nuclear Regulatory Commission is reproduced below in boldface with accompanying information and analyses.

1. **"RAP design requirements to be complied with in terms of placement density and moisture content of contaminated materials placed in the disposal cell.**

   - **Tailings materials.**
   - **Windblown and Vicinity Property materials".**

   All tailings, windblown contamination and contaminated vicinity property material are specified to be compacted to at least 90% of maximum dry density based on ASTM D-698 (Reference 1, Section 02200, Rev. 4, Part 3.8A). Moisture content requirements proposed by DOE have been submitted to the NRC, including documentation that the as-placed moisture contents comply with groundwater protection requirements.

2. **"Basis and supporting justification for the proposed density and moisture requirements."**

   The contaminated materials density requirement is the UMTRA project standard. Design calculations submitted previously demonstrate that the density requirement is adequate for the Green River site.

   Moisture content requirements for the contaminated materials will limit infiltration seepage from the embankment during the 1000-year design period.

   Rationale for moisture content requirements for contaminated materials was presented by DOE previously and is currently under NRC review.

3. **"QA/QC qualified data from all field and laboratory tests performed by the DOE on these materials. The types of information to be provided are:**

- **Information on the particle size gradation of the contaminated materials. In addition to the particle size gradation curves, provide parameters that reflect the particle gradation such as - Effective Diameter (D10), Percent grain size (D30, D60, D85), Coefficient of Uniformity (Cu), percent finer than No. 200 sieve size, etc. Provide analyses of these data to evaluate the uniformity nature of these materials".**

Gradation data for tailings are presented on pages D-222 through D-224, D-249, D-254 through D-256, D-261 through D-262, D-265 and D-276 through D-279 of Reference 2 and on pages D-1 through D-3 of Reference 3. Inspection of the tailings gradation data, taken prior to construction, indicates the tailings generally consist of fine SAND with a maximum of about 20% by weight of silty and/or clayey fines.

Contaminated soils other than tailings (described herein as "offpile" contaminated soils) consisted of the following:

- Subpile soils
- Windblown-contaminated soils, both from on-site and vicinity properties adjacent to the site.
- Vicinity property soils from several locations away from the site.

Gradation data for subpile and windblown contaminated soils are presented on pages D-251 through D-253, D-257 through D-258, D-263, D-266 through D-267 and D-280 of Reference 2.

Visual descriptions of contaminated materials are also available from borings made prior to construction (RAP) and during construction (Reference 4 enclosed). These data indicate that off-pile contaminated materials predominantly consist of silty sands with some sandy SILTS and gravelly SANDS.

- **Information on Proctor compaction tests performed to establish the design placement density. The compaction curves should also include information on density at moisture contents dry of optimum and in the vicinity of the actual placement moisture contents achieved in the field.**

Data from compaction tests performed on tailings are presented on pages D-299 through D-301 of Reference 2 and on pages D-8 through D-10 of Reference 3.

Results of compaction tests, performed to control placement of "windblown" contaminated materials and tailings in the field, are presented in Reference 4 and summarized Tables 1 and 2, respectively.

- **Information on the trial compaction conducted at the beginning of contaminated material placement and the final compaction procedure that was adopted for placing the contaminated materials in the disposal cell. Information should also include density and moisture content tests performed in this phase.**

Compaction procedures were verified both at the beginning of placement of contaminated materials and continuously during subsequent placement and compaction work. Verification testing was performed at the beginning of tailings placement, resulting in two compaction procedures (Reference 1, Rev. 4, Specification Section 02200, Part 3.5.D). The predominant portion of off-pile materials were placed prior to tailings pile and subpile materials. Following initial verification testing, quality control personnel verified that the established compaction procedures were followed for all contaminated materials.

Even though compaction procedures were continuously verified, in-place density tests and determinations of relative compaction were made at a minimum frequency of one test for every 6,000 cubic yards placed. The combination of verification of compaction method at the beginning of placement and continuous confirmation that the adopted procedure was used made it unnecessary to apply a testing frequency of one in-place density test for every 1000 cubic yards placed. The greater frequency is primarily applicable to cases where specific compaction procedures are not required and may be highly variable, i.e., where the density and relative compaction results stand as the sole documentation of adequate compaction. At the Green River site, entries in the "Daily Inspection Reports"* provide documentation that established compaction procedures were followed.

The requirement for in-place density tests following verification of a suitable compaction procedure could have been considered superfluous. It was deemed prudent, however, to record in-place density in order to provide precise information on the as-built condition of the tailings embankment. The information was considered particularly important if a reanalysis of seepage through the contaminated materials was required, and in fact, such an analysis was made. Since in-place density tests were made, relative compaction was readily determined to serve as additional confirmation that unforeseen conditions did not result in inadequate compaction.

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* Available on request.

Nine in-place density tests made at the beginning of off-pile material placement (Reference 4, Test Nos. CM-S-001 through CM-S-009) resulted in a compaction procedure that required 4 passes with a static tamping-foot roller and 4 passes of a vibratory smooth-drum roller. Initial test results indicated that 4 passes of the vibratory smooth-drum roller alone would not consistently result in a minimum density of 90 percent of maximum dry density by ASTM D698 (Reference 4, Test Nos. CM-S-001 through CM-S-005). Subsequently, materials were compacted by 4 passes of each roller, and density test results confirmed that in-place densities gave relative compaction values significantly greater than 90 percent consistently (Reference 4, Test Nos. CM-S-006 through CM-S-009).

Nine in-place density tests taken at the beginning of tailings material placement confirmed that 4 passes of the specified smooth-drum vibratory roller gave densities consistently greater than 90 percent of maximum dry density by ASTM D698 (Reference 4, Test Nos. CM-S-010 through CM-S-018).

- **Information on all density and moisture content tests performed to verify the placement density and moisture contents of the contaminated materials placed in the disposal cell. The location of the tests should be shown on a plan of the cell along with the elevation of the test location. This is the areal and vertical control information for the test locations.**

- **Data on all moisture content tests performed to determine the placement moisture contents for the contaminated materials placed in the disposal cell. This will be the raw data of the as-placed moisture contents that will be used by DOE in justifying the groundmoisture protection design for this project. For all these moisture contents, the DOE may estimate the as-placed density based on actual density/moisture data collected earlier during the trial compaction at this site. However, these estimated densities should be identified as such and should not be combined with the measured densities in the statistical analyses of the data.**

- **Information on the locations (both areal and vertical) of density determinations within the disposal cell locations of actual density determination by field tests and of estimated density (based on placement moisture contents) should be identified separately.**

Dry density, percentage compaction, moisture content and moisture content relative to optimum moisture content of all density determinations performed on contaminated materials are presented in Tables 3A and 3B. Coordinates and elevations of the compaction determinations are presented in Tables 4A and 4B and plotted on Figure 1. Based on the scatter of test locations on Figure 1, it

is judged the moisture cotent-density data are not biased to any particular zone of the disposal cell.

Numerous additional moisture content determinations without density measurements were made on contaminated materials to comply with the specified frequency of a minimum of one moisture content test for each 2000 cubic yards placed. As reported in Reference 5, there is no significant statistical difference between the moisture content values of the moisture content-density pairs and the moisture content only data.

"Statistical analyses of the data (mean, standard deviation, coefficient of variances etc.) and a basis for the confidence in the data".

Mean values, standard deviations and coefficients of variation (i.e., standard deviation divided by mean value) of the density, moisture content, percent compaction and moisture content relative to optimum moisture content of contaminated materials are presented in Tables 3A and 3B. Mean and standard deviation values of optimum moisture content and maximum dry density of "windblown" contaminated soils and tailings are presented in Tables 1 and 2, respectively.

The theoretical upper bound on the probability that dry density of contaminated material at any random location in the disposal cell will be less than the density corresponding to 90 percent compaction is presented in Table 5 (see Reference 6, enclosed).

The actual probability of non-compliance at any random location is expected to be much smaller than the theoretical upper bound probability. In point of fact, of the 79 measurements made on contaminated materials compacted in accordance with the procedural specification in Reference 1, only one had a density smaller than 90 percent compaction.

REFERENCES

1. "UMTRAP, Green River, Utah Subcontract Documents - Final Design for Construction", Rev. 4, September, 1988.

2. "Remedial Action Plan and Final Design For Stabilization of the Inactive Uranium Mill Tailings at Green River, Utah - Final -Volume II, Appendix D", February 1988.

3. "Remedial Action Plan and Final Design for Stabilization of the Inactive Uranium Mill Tailings at Green River, Utah - Final, Volume IIA - Appendix D: Supplement, Site Characterization", January 1989.

4. "Contaminated Material Moisture Content, Density and Compaction Data - Green River, Utah", prepared by MK-ES, (enclosed).

5. "MK-ES Calculation", UMTRA-GRN, Tailings, Off-pile, Buffer Materials In-place Parameter Characterization", 27 July 1989 (enclosed).

6. MK-ES Calculation, "UMTRA-GRN, Compaction of Contaminated Materials - Statistical Evaluation", 25 October 1989 (enclosed).

TABLE 1

"Windblown" Contaminated Soils

Test No.	Optimum Moisture Content	Maxium Dry Density (pcf)
CM-4-008	10.9	120.6
CM-4-009	10.9	124.7
CM-4-010	10.7	124.2
CM-4-011	10.2	125.2
CM-4-019	13.2	111.2
CM-4-020	11.9	116.5
CM-4-021	7.9	130.9
MEAN	10.8	121.9
STANDARD DEVIATION	1.6	6.5

TABLE 2

TAILINGS

TEST NO.	Optimum Moisture Content (%)	Maximum Dry Density (%)
CM-4-029	15.2	102.3
CM-4-033	13.5	104.4
CM-4-034	13.8	103.5
CM-4-036	13.1	107.6
CM-4-037	15.0	101.0
CM-4-038	15.0	102.3
CM-4-039	13.7	104.2
CM-4-040	14.8	103.1
CM-4-042	13.8	101.2
MEAN	14.2	103.3
STANDARD DEVIATION	0.8	2.0

TABLE 3A

OFF-PILE CONTAMINATED MATERIAL
(Sheet 1 of 2)

Sample No.*	Dry Density (pcf)	Percent Compaction	Moisture Content(%)	Percent Dryer than OMC
MKE-001	108.7	97.8	5.5	7.6
MKE-002	113.4	91.3	5.6	5.1
MKE-003	105.2	90.3	6.3	5.6
MKE-004	112.2	90.3	5.6	5.1
MKE-005	114.1	91.1	6.8	3.4
MKE-006	118.2	94.4	5.6	4.6
MKE-007	120.7	92.2	4.1	3.8
MKE-008	118.7	94.5	7.0	3.0
MKE-009	117.2	94.4	5.4	5.3
MKE-010-R1	118.1	95.1	5.1	5.6
MKE-011	117.2	96.3	7.5	3.3
MKE-012	115.0	94.5	5.7	5.1
MKE-013	116.8	96.0	6.3	4.5
MKE-014	115.3	94.7	4.4	6.4
MKE-015	119.5	96.8	6.0	4.6
MKE-016	119.0	96.4	5.0	5.6
MKE-017	115.6	93.7	6.6	4.0
MKE-018	111.2	96.9	7.0	5.3
MKE-019	117.0	94.8	6.8	3.8
MKE-020	118.1	95.7	6.0	4.7
MKE-021	111.7	90.5	6.6	4.0
MKE-022	119.3	96.1	7.6	3.1
MKE-023	114.2	91.9	5.8	4.9
MKE-024	117.8	96.8	4.8	6.0
MKE-025	121.3	99.7	6.4	4.4
MKE-026	114.5	98.3	5.8	6.1
MKE-027	114.6	98.4	5.7	6.2
MKE-028	119.7	96.2	4.8	6.0
MKE-029	113.1	91.1	5.3	5.9
MKE-030	113.0	97.0	5.3	6.6

*Note: 1 failed point not included.

TABLE 3A

OFF-PILE CONTAMINATED MATERIAL
(Sheet 2 of 2)

Sample No.*	Dry Density (pcf)	Percent Compaction	Moisture Content(%)	Percent Dryer Than OMC
MKE-031	105.2	90.3	6.3	5.6
MKE-032	114.9	98.6	4.7	7.2
MKE-033	114.0	91.6	7.0	3.8
MKE-034	115.1	92.5	7.7	3.1
MKE-035	119.4	97.1	5.7	5.2
MKE-036	119.2	96.9	4.1	6.8
MKE-037	105.5	90.9	5.4	7.1
MKE-077	108.7	96.4	4.9	7.6
MKE-078	115.1	92.7	6.1	4.6
MKE-079	120.0	96.6	5.7	5.0
MEAN	115.19	94.67	5.85	5.14
STANDARD DEVIATION	4.19	2.71	0.91	1.25
Coefficient of Variation	.0364	0.0286	0.1560	0.2435
Coefficient of Skewness	--	-0.215	--	--

*Note: 1 failed point not included.

TABLE 3B

TAILINGS
(Sheet 1 of 2)

Sample No.	Dry Density (pcf)	Percent Compaction	Moisture Content(%)	Percent Dryer Than OMC
MKE-038	104.2	93.7	5.9	7.4
MKE-039	104.9	94.3	3.3	9.9
MKE-040	106.9	90.0	5.5	7.7
MKE-041	102.3	98.0	2.9	10.6
MKE-042	99.4	95.2	4.4	9.1
MKE-043	100.0	95.8	4.7	8.8
MKE-044	97.1	95.2	3.7	10.8
MKE-045	96.2	95.2	3.9	11.1
MKE-046	97.8	96.8	2.8	12.2
MKE-047	98.8	96.6	3.3	11.7
MKE-048	102.0	99.7	3.0	12.2
MKE-049	99.6	97.4	5.3	9.9
MKE-050	101.2	97.1	3.9	10.4
MKE-051	97.6	93.5	4.1	9.4
MKE-052	98.8	94.6	3.4	10.1
MKE-053	95.7	91.7	5.1	8.3
MKE-054	96.3	93.0	6.3	7.5
MKE-055	99.2	95.8	3.3	10.5
MKE-056	99.1	95.7	3.3	10.5
MKE-057	97.9	96.9	6.1	8.9
MKE-058	97.0	96.0	3.2	11.8
MKE-059	96.8	95.8	4.0	11.0
MKE-060	98.1	95.2	3.7	11.1
MKE-061	101.9	98.8	5.8	8.9
MKE-062	103.1	100.0	5.4	9.4
MKE-063	98.7	97.7	1.9	13.1
MKE-064	98.1	97.1	6.7	8.9
MKE-065	97.5	96.5	5.3	9.7
MKE-066	98.4	91.4	4.1	9.0
MKE-067	101.0	93.9	5.3	7.8

TABLE 3B

TAILINGS
(Sheet 2 of 2)

Sample No.	Dry Density (pcf)	Percent Compaction	Moisture Content(%)	Percent Dryer Than OMC
MKE-068	104.4	95.0	6.7	6.6
MKE-069	102.9	99.4	4.8	9.0
MKE-070	99.5	96.1	3.9	10.2
MKE-071	96.8	93.5	5.0	8.8
MKE-072	109.9	95.1	3.9	8.8
MKE-073	97.9	96.9	3.9	11.1
MKE-074	95.2	94.3	4.2	10.8
MKE-075	98.7	95.7	5.9	8.9
MKE-076	98.7	95.7	5.2	9.6
MEAN	99.73	95.65	4.44	9.78
STANDARD DEVIATION	3.21	2.16	1.18	1.46
COEFFICIENT OF VARIATION	0.0321	0.0226	0.2654	0.1494
Coefficient of Skewness	--	-0.265	--	--

TABLE 4A

OFF-PILE CONTAMINATED MATERIALS
(Sheet 1 of 2)

Sample #	Northing (ft)	Easting (ft)	Elevation (ft)
MKE-001	59,470	58,890	4108
MKE-002	59,345	58,972	4109
MKE-003	59,528	59,230	4108
MKE-004	59,520	58,962	4109
MKE-005	59,582	59,165	4109
MKE-006	59,535	59,047	4109
MKE-007	59,535	59,848	4110
MKE-008	59,450	59,172	4111
MKE-009	59,432	59,453	4113
MKE-010-R1	59,292	59,068	4112
MKE-011	59,665	59,080	4113
MKE-012	59,452	59,047	4115
MKE-013	59,470	59,239	4115
MKE-014	59,735	59,015	4116
MKE-015	59,452	58,806	4117
MKE-016	59,398	59,172	4117
MKE-017	59,489	59,101	4119
MKE-018	59,598	58,962	4120
MKE-019	59,388	58,416	4120
MKE-020	59,610	59,108	4119
MKE-021	59,322	59,103	4121
MKE-022	59,536	59,110	4122
MKE-023	59,475	58,967	4123
MKE-024	59,616	59,030	4124
MKE-025	59,510	59,172	4125
MKE-026	59,352	59,130	4126
MKE-027	59,555	58,961	4127
MKE-028	59,413	58,870	4128
MKE-029	59,588	59,092	4128
MKE-030	59,438	59,128	4129

TABLE 4B

OFF-PILE CONTAMINATED MATERIALS
(Sheet 1 of 2)

Sample #	Northing (ft)	Easting (ft)	Elevation (ft)
MKE-038	59,338	59,055	4133
MKE-039	59,603	58,995	4132
MKE-040	59,495	59,009	4134
MKE-041	59,547	59,187	4135
MKE-042	59,674	59,040	4135
MKE-043	59,484	59,137	4136
MKE-044	59,422	59,004	4137
MKE-045	59,468	58,843	4137
MKE-046	59,508	59,078	4138
MKE-047	59,581	59,028	4138
MKE-048	59,437	59,061	4139
MKE-049	59,496	58,928	4139
MKE-050	59,411	59,228	4140
MKE-051	59,302	59,122	4141
MKE-052	59,529	59,006	4141
MKE-053	59,562	59,131	4141
MKE-054	59,443	58,918	4141
MKE-055	59,353	59,230	4142
MKE-056	59,407	59,030	4142
MKE-057	59,453	58,992	4143
MKE-058	59,277	59,151	4143
MKE-059	59,600	59,061	4143
MKE-060	59,512	58,377	4144
MKE-061	59,394	59,300	4144
MKE-062	59,468	59,059	4145
MKE-063	58,920	58,900	4145
MKE-064	59,217	59,150	4146
MKE-065	59,504	58,982	4147
MKE-066	59,436	59,198	4148
MKE-067	59,368	59,089	4149

TABLE 4B

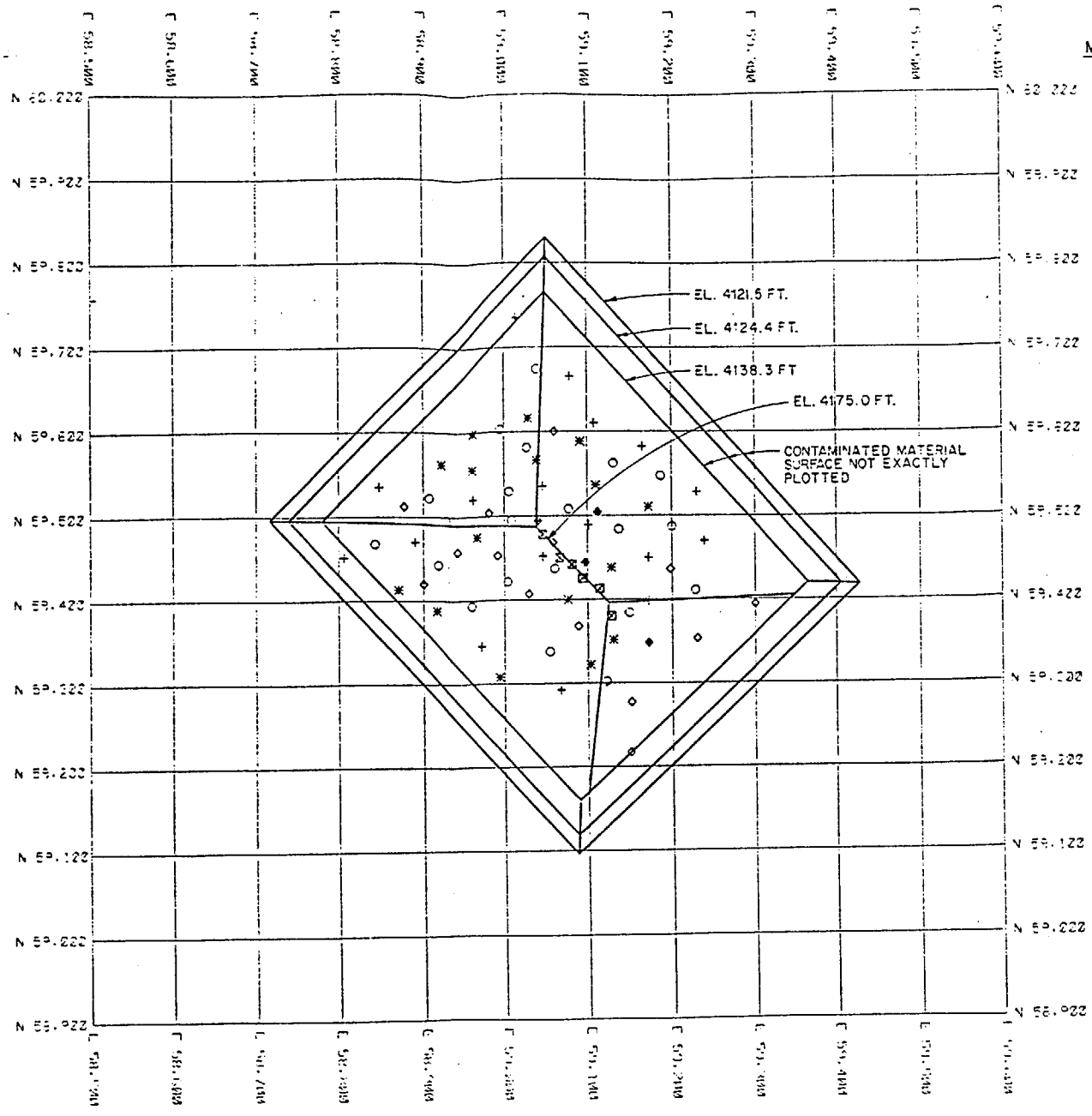
OFF-PILE CONTAMINATED MATERIALS
(Sheet 2 of 2)

Sample #	Northing (ft)	Easting (ft)	Elevation (ft)
MKE-068	59,458	58,442	4150
MKE-069	59,384	59,149	4152
MKE-070	59,494	59,041	4154
MKE-071	59,444	59,097	4157
MKE-072	59,348	59,172	4160
MKE-073	59,504	59,112	4162
MKE-074	59,425	59,094	4164
MKE-075	59,450	59,067	4168
MKE-076	59,413	59,114	4174

TABLE 5

Material	Theoretical Upper Bound on Probability of Non-Compliance with Density Specifications (%)
Off-Pile ("windblown")	7.5
Tailings	3.3

MOISTURE CONTENT/DENSITY TEST LOCATIONS



LEGEND:

TEST LOCATION ELEVATION RANGES (FT.)

4125 ≤ + ≤ 4129
4129 < ✱ ≤ 4132
4132 < O ≤ 4141
4141 < ◇ ≤ 4152
4152 < ◆ ≤ 4163
4163 < ⊠ ≤ 4174

FIGURE 4

SCALE

Mke Doc. 5057-Grn-C-01-01652-00

Calculation Cover Sheet

Calc. No. 10-591-01-00

Contract No. 5057-05 Discipline ESCI No. of Sheets 31

Project UMTRA-GRN

Feature Tailings, Off-pile, Buffer Materials

Item In-place Parameter Characterization

Sources of Data

1. MKE document # 5057-GRN-R-02-01587-00, "Contaminated Materials and Type "A" Fill Test Results", supplied by MK-F.

~~Sources of Formulae & References~~

Preliminary Calc. ☐ Final Calc. ☒ Supersedes Calc. No. —

Rev. No.	Revision	Calculation By	Date	Checked By	Date	Approved By	Date
0	—	Martin Goodman	7/27/89	W.O. CHAN	7/28/89	[illegible]	8-16-89

Form 42-110

SUMMARY

Based on available construction data, in-place buffer and contaminated material mean water content and density values are as follows (see Table 4):

MAT'L TYPE	W(%)	γ_d (pcf)	$\frac{\lambda}{U}$ (%)
Tailings	4.6	99.0	7.0
Offpile	5.5	115.2	10.8
Buffer	8.3	119.2	15.8

Mean values of optimum water content and maximum dry density of D-698 compaction tests used to control placement of tailings, "windblown" and buffer materials are presented in Table 10, sheet A-29.

PURPOSE

Estimate inplace (as-compacted) mean values of the following parameters for the tailings, offpile contaminated material ("windblown" and vicinity property) and buffer materials:

- gravimetric water content (w)
- dry density (γ_d)
- volumetric water content (θ).

PROCEDURE

1. w and γ_d test data for tailings, offpile and buffer materials presented in ref. 1, are reproduced in Tables 1-3, respectively.
2. Data from tests designated as "failed" or from tests performed on tailings/native soil mixtures are excluded from the data base.
3. Mean and standard deviation values of water content and dry density tests in the data base are then estimated for the tailings, offpile and buffer materials. It is assumed these mean test values are approximately equivalent to mean inplace values because tests were performed at an approximate frequency dictated by specifications in the project's Subcontract Documents. [The same remark also applies to the volumetric water content, θ].

...

⟨PROCEDURE CONTINUED ON p. A-20⟩...

MJG
7/26/89
UMTRA-GJN
5057-05
CKD. WOC 7/28/89

A-2

TAILINGS*

* All data compacted in-place.

SAMPLE #	w(%)/θ(%)	γ_d (pcf)	
MKE - 038	~~5.9~~	~~104.2~~	tailings mixture
- 039	~~3.3~~	~~104.9~~	" "
- 040	~~5.5~~	~~106.9~~	" "
- 041	2.9 / (4.8)	102.3	
- 042	4.4 / 7.0	99.4	
- 043	4.7 / 7.5	100.0	
- 044	3.7 / 5.8	97.1	
- 045	3.9 / 6.0	96.2	
- 046	2.8 / 4.4	97.8	
- 047	3.3 / 5.2	98.8	
- 048	3.0 / 4.9	102.0	
- 049	5.3 / 8.5	99.6	
- 050	3.9 / 6.3	101.2	
- 051	4.1 / 6.4	97.6	
- 052	3.4 / 5.4	98.8	
- 053	5.1 / 7.8	95.7	
- 054	6.3 / 9.7	96.3	
- 055	3.3 / 5.2	99.2	
- 056	3.3 / 5.2	99.1	
- 057	6.1 / 9.6	97.9	
- 058	3.2 / 5.0	97.0	
- 059	4.0 / 6.2	96.8	
- 060	3.7 / 5.8	98.1	
- 061	5.8 / 9.5	101.9	
- 062	5.4 / 8.9	103.1	
- 063	1.9 / 3.0	98.7	
- 064	6.7 / 10.5	98.1	
- 065	5.3 / 8.3	97.5	
- 066	4.1 / 6.5	98.4	
- 067	5.3 / 8.6	101.0	
- 068	6.7 / 11.2	104.4	
- 069	4.8 / 7.9	102.9	
- 070	3.9 / 6.2	99.5	
- 071	5.0 / 7.8	96.8	

TABLE 1
(adapted from 1)

MJG
26 July 89
UMTRA-GRN
5057-05

CKD. WOC. 7/28/89

TAILINGS

Sample #	In Place		
	$w\%$ / $\theta\%$	γ_d (pcf)	
MK-E-072	~~3.9~~	~~109.9~~	mixture
-073	3.9 / 6.1	97.9	
-074	4.2 / 6.4	95.2	
-075	5.9 / 9.3	98.7	
-076	5.2 / 8.2	98.7	
CM-M-142	4.6	—	
-143	3.1	—	
-144	3.4	—	
-145	5.7		
-146	3.8		
-147	6.7		
-148	5.0		
-149	3.8		
-150	6.9		
-151	4.8		
-152	2.5		
-153	2.0		
-154	3.5		
-155	3.7		
-156	3.6		
-157	3.2		
-158	3.8		
-159	3.3		
-160	4.0		
-161	6.0		
-162	4.3		
-163	3.9		
-164	4.2		
-165	4.3		
-166	2.7		
-167	5.2		
-168	8.0		
-169	6.3		
-170	5.0		
-171	4.5		

TABLE 1 (cont)
(adapted from ref 1)

TAILINGS

MJG
26 July 89
UMTRA GRN
5057-05
CKD: WOC 7/28/89

Sample #	w(%)
CM-M-172	3.1
-173	2.5
-174	4.0
-175	4.8
-176	4.6
-177	3.3
-178	7.4
-179	5.4
-180	4.1
-181	5.2
-182	3.4
-183	4.7
-184	4.1
-185	3.0
-186	2.6
-187	2.2
-188	2.6
-189	3.0
-190	2.4
-191	2.5
-192	2.5
-193	3.9
-194	4.0
-195	3.8
-196	4.1
-197	5.7
-198	6.6
-199	4.3
-200	3.9
-201	1.1
-202	3.9
-203	3.4
-204	3.0
-205	5.3
-206	3.2

Sample #	w(%)
CM-M-207	3.1
-208	3.3
-209	4.5
-210	4.9
-211	5.7
-212	5.1
-213	5.0
-214	6.9
-215	4.8
-216	3.5
-217	5.1
-218	5.6
-219	4.0
-220	3.9
-221	5.1
-222	4.4
-223	6.7
-224	4.4
-225	5.2
-226	5.5
-227	6.0
-228	5.3
-229	5.6
-230	8.0
-231	9.2
-232	7.4
-233	5.9
-234	6.9
-235	8.0
-236	5.5
-237	5.5
-238	4.0
-239	5.4
-240	5.6
-241	7.0

Sample #	w(%)	
CM-M-242	5.0	
-243	6.1	
-244	6.0	
-245	~~7.8~~	F.
-245-R1	~~5.7~~	M
-246	~~6.0~~	m
-247	~~4.6~~	m.

~~0~~ (summary)
$n = 35$
$\bar{x} = 7.0$
$\sigma_x = 1.91$
$V = \frac{\sigma_x}{\bar{x}} = 0.27$

TABLE 1 (cont)
(adapted from ref 1)

13 July 89
MJG
5057-05
UMTRA-GRN

OTTPILE

MJG
7/27/89
UMTRA-GRN
5057-05
CKD WOC 7/28/89

Sample #	In-place		
	$w(\%)/\theta(\%)$	γ_d (pcf)	
MKE -001	5.5 / 9.6	108.7	
-002	5.6 / 10.2	113.4	
-003	6.3 / 10.6	105.2	
-004	5.6 / 10.1	112.2	
-005	6.8 / 12.4	114.1	
-006	5.6 / 10.6	118.2	
-007	4.1 / 7.9	120.7	
-008	7.0 / 13.3	118.7	
-009	5.4 / 10.1	117.2	
-010	~~4.7~~	~~110.6~~	Failed
-010 R1	5.1 / 9.7	118.1	
-011	7.5 / 14.1	117.2	
-012	5.7 / 10.5	115.0	
-013	6.3 / 11.8	116.8	
-014	4.4 / 8.1	115.3	
-015	6.0 / 11.5	119.5	
-016	5.0 / 9.5	119.0	
-017	6.6 / 12.2	115.6	
-018	7.0 / 12.5	111.2	
-019	6.8 / 12.8	117.0	
-020	6.0 / 11.4	118.1	
-021	6.6 / 11.8	111.7	
-022	7.6 / 14.5	119.3	
-023	5.8 / 10.6	114.2	
-024	4.8 / 9.1	117.8	
-025	6.4 / 12.4	121.3	
-026	5.8 / 10.6	114.5	
-027	5.7 / 10.5	114.6	
-028	4.8 / 9.2	119.7	
-029	5.3 / 9.6	113.1	
-030	5.3 / 9.6	113.0	
-031	6.3 / 10.6	105.2	
-032	4.7 / 8.7	114.9	
-033	7.0 / 12.8	114.0	
-034	7.7 / 14.2	115.1	

TABLE 2
(adapted from ref 1)

MJG
7/27/89
UMTRA-GRN
5057-05
CKD WOC 7/28/89

Off pile

Sample #	In-Place W% / θ%	In-Place γ_d (pcf)	
MK-E-035	5.7 / 10.9	119.4	
-036	4.1 / 7.8	119.2	
-037	5.4 / 9.1	105.5	
-077	4.9 / 5.5	108.7	
-078	6.1 / 11.3	115.1	
-079	5.7 / 11.0	120.0	
CM-M-001	7.4		
-002	7.2		
-003	~~10.~~		FAIL
-004	5.4		
-005	~~9.4~~		FAIL
-006	6.3		
-007	~~10.2~~		FAIL
-008	7.7		
-005-R1	4.0		
-003-R1	6.7		
-009	~~8.0~~		FAIL
-009-R1	5.7		
-010	5.5		
-011	5.8		
-012	5.7		
-007-R1	6.2		
-013	5.5		
-014	7.3		
-015	7.0		
-016	7.7		
-017	5.9		
-018	5.4		
-019	5.6		
-020	6.5		
-021	6.2		
-022	5.9		
-023	5.8		
-024	5.1		
-025	5.3		

TABLE 2 (cont)
(adapted from ref 1)

MJG
7/27/89
UMTRA-GRN
5057-05
CKD. WOC 7/28/89

OFFPILE

SAMPLE #	INPLACE w (%)	
CM-M 026	6.3	
-027	5.6	
-028	4.9	
-029	4.8	
-030	5.6	
-031	4.6	
-032	3.7	
-033	5.0	
-034	5.9	
-035	6.8	
-036	4.6	
-037	5.6	
-038	4.1	
-039	4.2	
-040	~~5.3~~	Fail
-041	3.9	
-042	~~5.5~~	Fail
-043	5.7	
-040-R1	4.2	
-042-R1	4.3	
-044	5.5	
-045	5.0	
-046	5.4	
-047	4.0	
-048	4.7	
-049	5.4	
-050	4.4	
-051	4.0	
-052	5.4	
-053	4.6	
054	5.2	
-055	4.9	
-056	6.8	
-057	5.7	
-058	6.5	

Sample #	Inplace w(%)
CM-M-059	6.7
-060	6.7
-061	5.9
-062	6.1
-063	5.5
-064	6.3
-065	5.5
-066	4.8
-067	4.0
-068	5.2
-069	6.0
-070	7.6
-071	6.0
-072	4.8
-073	4.3
-074	7.0
-075	5.8
-076	5.9
-077	4.6
-078	5.8
-079	6.0
-080	7.1
-081	6.5
-082	5.7
-083	6.7
-084	4.7
-085	6.5
-086	6.0
-087	6.7
-088	6.3
-089	6.4
-090	6.1
-091	5.7
-092	5.9
-093	6.2

TABLE 2 (cont) (adapted from ref 1)

OFFPILE

MJG
7/27/89
UMTRA-GRN
5057-05
CKD. WOC 7/28/89

4-8

SAMPLE #	Inplace W%	
CM-M-094	7.0	
-095	4.9	
-096	6.9	
-097	4.9	
-098	4.9	
-099	6.0	
-100	5.4	
-101	5.9	
-102	5.4	
-103	5.2	
-104	7.2	
-105	7.3	
-106	6.1	
-107	5.5	
-108	5.8	
-109	4.7	
-110	5.5	
-111	5.1	
-112	4.7	
-113	5.7	
-114	5.4	
-115	~~8.5~~	F
-116	~~10.4~~	F
-115-R1	5.5	
-116-R1	5.8	
-117	7.5	
-118	5.4	
-119	4.9	
-120	4.3	
-121	4.8	
-122	5.6	
-123	4.1	
-124	6.0	
-125	5.6	
-126	5.9	

Sample #	Inplace W%
CM-M-127	6.6
-128	6.5
-129	5.4
-130	4.2
-131	1.9
-132	3.6
-133	2.8
-134	2.8
-135	3.3
-136	4.4
-137	3.9
-138	3.5
-139	2.0
-140	5.1
-141	3.6
-248	5.3
-249	3.6
-250	7.8
-251	6.3
-252	4.2
-253	1.9
-254	3.6

~~0~~ (summary)

$n = 40$

$\bar{X} = 10.8$

$\sigma_x = 1.70$

$V = \frac{\sigma_x}{\bar{X}} = 0.16$

TABLE 2 (cont)

(calculated from ref 1)

Buffer Mat'l
(e.g., Type A Special Fill)

MJS
7/27/89
UNITRA-GRN
5057-05
CKD. WOL 7/28/89

TEST #	(data) γ_d (pcf)	(data) w (%)	(calculated) σ (%)	
SFA-S-004	118.9	5.1	9.72	
-005	120.0	6.7	12.83	
-006	122.2	4.7	9.20	
-007	123.0	4.6	9.07	
SFA-N-003 ↓ 061	see attached sheets			
SFA-S-062	~~116.4~~	~~6.0~~		Fail
-062-R1	117.5	6.0	11.30	
-062-R2	118.3	9.2	17.44	
-063	~~116.0~~	~~5.8~~		Fail
-063-R1	119.0	6.6	12.59	
-064	119.0	6.3	12.01	
-065	123.4	6.6	13.05	
-066	125.3	7.5	15.06	
-067	118.0	7.7	14.56	
-068	121.1	7.3	14.17	
-069	119.8	10.1	19.39	
-070	124.8	8.1	16.2	
-071	122.6	8.9	17.49	
-072	~~116.4~~	~~5.0~~		Fail
-072-R1	120.2	9.3	17.91	
-073	120.1	7.8	15.01	
-074	123.6	8.0	15.85	
-075	125.0	7.0	14.02	
-076	119.1	10.0	19.09	
-077	123.4	9.5	18.79	
-078	121.0	8.9	17.26	
-079	123.3	7.6	15.02	

TABLE 3
(adapted from ref 1)

JOB: 3050 GREEN RIVER DATE: 3/29/89 CONTRACT # 3050-
GREEN RIVER, UTAH

ITY REQUIREMENTS
BY SDM 3/30/89
QA ENTRY NO. 617

TEST SPECIFICATIONS: 02200 REV. - 95% OF A D698
02200 REV. OPT. MOISTURE TO -4% OF OPT. MOISTURE

TEST NO.	LOCATION	CURVE ENTRY NO.	TYPE OF MATERIAL	MAX. DRY DENSITY	OPTIMUM MOISTURE	WET DENSITY	DRY DENSITY	PERCENT MOISTURE		% OF MAX. DRY DENSITY	PASS/ FAIL
SFA-N-008	N59,450 E58,850 ELEV 4099 1ST 12" LIFT	SFA-4-001	SILTY SAND	124.9	8.7	130.2	121.3	7.3	14.19	SD 3 89 97.X2	PASS
SFA-N-009	N59,330 E58,978 ELEV 4099 1ST 12" LIFT	SFA-4-001	SILTY SAND	124.9	8.7	124.7	119.1	4.8	7.15	95.4	PASS
* ** SFA-N-010	N59,390 E59,052 ELEV 4099 1ST 12" LIFT	SFA-4-004	SILTY SAND	(ONE-POINT) 127.8	SDM 3/21/89 10.1 ~~8.7~~	130.2	122.1	6.7	13.11	95.5	PASS
SFA-N-011	N59,482 E58,955 ELEV 4099 1ST 12" LIFT	SFA-4-004	SILTY SAND	127.8	10.1	129.7	122.3	6.1	11.96	95.7	PASS
SFA-N-012	N59,528 E58,891 ELEV 4100 2ND 12" LIFT	SFA-4-004	SILTY SAND	127.8	10.1	128.3	119.1	7.7		93.2	FAIL
(RETEST) SFA-N-012-R1	N59,528 E58,891 ELEV 4100 2ND 12" LIFT	SFA-4-004	SILTY SAND	127.8	10.1	132.7	121.7	9.0	17.54	SD 3 89 95.~~8~~2	PASS
** SFA-N-013	N59,408 E58,890 ELEV 4100 2ND 12" LIFT	SFA-4-005	CLAYEY SILT	(FOUR POINT) 125.4	10.8	127.7	119.5	6.9	13.21	SD 3 89 95.~~4~~3	PASS
SFA-N-014	N59,414 E59,058 ELEV 4100 2ND 12" LIFT	SFA-4-005	CLAYEY SILT	125.4	10.8	130.3	119.3	9.2	17.59	95.1 ~~97.0~~ SDM 3/30/89	PASS
SFA-N-015	N59,302 E59,012 ELEV 4100 2ND 12" LIFT	SFA-4-005	CLAYEY SILT	125.4	10.8	131.2	122.2	7.4	15.49	97.4	PASS

(TICKLER 3440 CS-50 5337 AM-4711737)

TABLE 3 (cont) Embankment Control

5 of 5
CRD. WOC 7/28/89

OPERATOR: Steven Smith REVIEWED BY: Steve Dike

ORIGINAL

JOB: 50- Green River DATE: ~~3-30-89~~ BY: SDM 3/31/89

CONTRACT # 3050

Y NO. 634

GREEN RIVER, UTAH

TEST SPECIFICATIONS: 02200 REV 2 -95% OF A D698

02200 REV 2 OPT. MOISTURE TO -4% OF OPT. MOISTURE

TEST NO.	LOCATION	CURVE ENTRY NO.	TYPE OF MATERIAL	MAX. DRY DENSITY	OPTIMUM MOISTURE	WET DENSITY	DRY DENSITY	PERCENT MOISTURE	% OF MAX. DRY DENSITY	PASS/ FAIL
SFA-N-016	N59635 E58964 Elev. 4099	SFA-4-005	Clayey Silt	125.4	10.8	132.5	122.2	8.4	97.4	PASS
SFA-N-017	N59633 E59097 Elev. 4099	SFA-4-005	Clayey Silt			130.3	119.9	8.7	95.6	PASS
* ** SFA-N-018	N59500 E59111 Elev. 4099	SFA-4-005				131.9	121.5	8.6	96.9	PASS
SFA-N-019	N59475 E59212 Elev. 4099	SFA-4-005				131.7	120.5	9.3	96.1	PASS
SFA-N-020	N59585 E59135 Elev. 4099	SFA-4-005	Clayey Silt	125.4	10.8	131.1	119.4	9.8	95.2	PASS
SFA-N-021	N59355 E59050 Elev. 4101	SFA-4-005	Clayey Silt	125.4	10.8	131.2	120.7	8.7	96.3	PASS
SFA-N-022	N59360 E59125 Elev. 4101	SFA-4-005	Clayey Silt	125.4	10.8	130.5	119.7	9.0	95.5	PASS
** SFA-N-023	N59380 E58975 Elev. 4101	SFA-4-003	Silty Sand	123.9	10.0	132.3	120.8	9.5	97.5	PASS
SFA-N-024	N59450 E58960 Elev. 4101	SFA-4-003	Silty Sand			132.9	120.9	9.9	97.6	PASS
* ~~SFA-N-025~~	~~N59490 E58810 Elev. 4101~~	~~SFA 4-003~~	~~Silty Sand~~	~~123.9~~	~~10.0~~	~~134.4~~	~~121.4~~	10.7	98.0	FAIL
(TROXLER 3440		CS-50 50		5337	AM-47	11737)				

TABLE 3 (cont) {adapted from ... rev 1

CONTRACT NO. 3050 GREEN RIVER, UTAH

CAD. MOD. 7/28/89

OPERATOR: Steve Dike

REVIEWED BY: Steven Mack

* Subgrade condition conducted

** One point or four point conducted

JOB: ~~3050~~ Green River DATE: ~~3-31-89~~ CONTRACT # 3050 GREEN RIVER, UTAH

G / REQUIREMENTS
B SDM 4/3/89
QA ENTRY NO. 643

TEST SPECIFICATIONS: 02200 REV 2 - 95% OF A 0698
02200 REV C OPT. MOISTURE TO -4% OF OPT. MOISTURE

TEST NO.	LOCATION	CURVE ENTRY NO.	TYPE OF MATERIAL	MAX. DRY DENSITY	OPTIMUM MOISTURE	WET DENSITY	DRY DENSITY	PERCENT MOISTURE	Ø	% OF MAX. DRY DENSITY	PASS/ FAIL
SFA-N-025-R1	N59490 E58810 Elev. 4101	SFA-4-003	Silty Sand	123.9	10.0	133.4	122.0	9.4	18.38	98.5	PASS
SFA-N-026	N59637 E58963 Elev. 4100	SFA-4-003	Silty Sand	123.9	10.0	125.0	117.9	6.1	11.53	95.2	PASS
SFA-N-027	N59568 E59062 Elev. 4100	SFA-4-003	Silty Sand	123.9	10.0	133.4	122.6	8.8	17.29	99.0	SD A 89 ~~X~~ PASS
SFA-N-028	N59460 E59160 Elev. 4100	SFA-4-003	Silty Sand	123.9	10.0	131.6	122.1	7.7	15.07	98.5	PASS
* SFA-N-029	N59470 E59258 Elev. 4100	SFA-4-003	Silty Sand	123.9	10.0	131.2	120.3	9.0	17.35	97.1	PASS

(TROXLER 3440 CS-50 5337 AM-4711737)

TABLE 3 (cont)

(adapted from ref 1)

CKD. WOC 7/28/89

7/27/89 UMTRA-GRD 5057-05

MJG

OPERATOR: Steve Dike REVIEWED BY: Steven Matt

ORIGINAL

JOB: 3050 · Green River

DATE: ~~3/31/89~~

CONTRACT # 3050
GREEN RIVER, UTAH

SOIL 4/5/89
ENTRY NO. 6-1

TEST SPECIFICATIONS: 02200 REV 2 - 95% OF A D698
02200 REV C OPT. MOISTURE TO -4% OF OPT. MOISTURE

TEST NO.	LOCATION	CURVE ENTRY NO.	TYPE OF MATERIAL	MAX. DRY DENSITY	OPTIMUM MOISTURE	WET DENSITY	DRY DENSITY	PERCENT MOISTURE	∅	% OF MAX. DRY DENSITY	PASS/FAIL
SFA-N-030	N 59,560 E 59,180 @ ELEV 4100	SFA-4-003	SILTY SAND	123.9	10.0	129.7	119.5	8.5	16.28	96.4	PASS
SFA-N-031	N 59,696 E 59,065 @ ELEV 4100	SFA-4-003	SILTY SAND	123.9	10.0	128.1	118.2	8.4	15.91	95.4	PASS
SFA-N-032	N 59,444 E 58,830 @ ELEV 4102	SFA-4-003	SILTY SAND	123.9	10.0	132.4	121.7	8.8	17.16	98.2	PASS
SFA-N-033	N 59,365 E 58,918 @ ELEV 4102	SFA-4-003	SILTY SAND	123.9	10.0	130.8	120.7	8.4	16.25	97.4	PASS
* SFA-N-034	N 59,270 E 59,020 @ ELEV 4102	SFA-4-005	CLAYEY SILT	125.4	10.8	129.4	120.4	7.5	14.47	96.0	PASS
SFA-N-035	N 59,505 E 58,922 @ ELEV 4102	SFA-4-005	CLAYEY SILT	125.4	10.8	132.1	122.3	8.0	15.66	97.5	PASS
SFA-N-036	N 59,394 E 59,038 @ ELEV 4102	SFA-4-005	CLAYEY SILT	125.4	10.8	133.2	122.3	8.9	17.44	97.5	PASS

(TEOXER 3440 CS-50 53337 AM 471737)

CAL. MOC. 7/28/89

TABLE 3 (cont)

(adapted from ref 1)

OPERATOR: [illegible] SIEVE DATE

REVIEWED BY: [illegible]

COMMENTS: * 1 SAND CONE CERTIFICATION AND 1 ONE POINT PROCTOR (SEE SFA-C-001)

ORIGINAL
~~CONTRACT # 3050~~
GREEN RIVER, UTAH

JOB: ~~3050~~ GREEN RIVER DATE: ~~4/3/89~~

Q VIEWED FOR QUALITY REQUIREMENTS BY SDM 4/4/89 QA ENTRY NO. 662

TEST SPECIFICATIONS: 95% of A D698 02200 REV 2
02200 REV C OPT. MOISTURE TO -4% OF OPTIMUM MOISTURE

TEST NO.	LOCATION	CURVE ENTRY NO.	TYPE OF MATERIAL	MAX. DRY DENSITY	OPTIMUM MOISTURE	WET DENSITY	DRY DENSITY	PERCENT MOISTURE	% OF MAX. DRY DENSITY	PASS/ FAIL
~~SFA-N-037~~	N59635 E58990 Elev. 4101	SFA-4-006	Silty Sand	** ~~118.2~~	~~12.3~~	~~116.0~~	~~109.5~~	5.9	92.6	FAIL
SFA-N-038	N59640 E59100 Elev. 4101			~~118.2~~	~~12.3~~	~~115.1~~	~~109.6~~	5.0	92.7	~~FAIL~~
* SFA-N-039	N59515 E59100 Elev. 4101 SD 4/3/89			118.2	12.3	132.2	118.0	12.0	99.8	PASS
SFA-N-037-R1	N59635 E58990 Elev. 4101			~~118.2~~	~~12.3~~	~~122.9~~	109.4 ~~113.2~~	~~8.6~~	92.6 ~~95.8~~	FAIL ~~PASS~~
SFA-N-038-R1	N59640 E59100 Elev. 4101			~~118.2~~	~~12.3~~	~~126.7~~	112.2 ~~116.1~~	~~9.1~~	94.9 ~~98.2~~	FAIL ~~PASS~~
SFA-N-040	N59545 E59215 Elev. 4101 SD 4/3/89			~~118.2~~	~~12.3~~	~~122.8~~	109.2 ~~113.0~~	~~8.7~~	92.4 ~~95.6~~	FAIL ~~PASS~~
SFA-N-041	N59255 E59050 Elev. 4103	SFA-4-006	Silty Sand	~~118.2~~	~~12.3~~	~~124.5~~	110.2 ~~114.0~~	~~9.2~~	93.2 ~~96.4~~	FAIL ~~PASS~~
* SFA-N-042	N59320 E58965 Elev. 4103	SFA-4-007	Silty Sand	** ~~117.2~~	~~11.7~~	~~126.7~~	110.1 ~~113.9~~	~~11.2~~	93.9 ~~97.2~~	FAIL ~~PASS~~

→ SEE SAND CONE CORRELATION SFA-C-009. TEST NUMBERS SFA-N-037-R1, SFA-N-038-R1, SFA-N-040, SFA-N041 AND SFA-N-042 WERE RETESTED ON 4/4/89. SEE DENSITY EVALUATION FOR SAND CONE CORRELATION SFA-C-009. (SEE SFA-DE-009)

TABLE 3 (cont) {adapted from ref ⊥}

OPERATOR: Steve Dike REVIEWED BY: Steven Marts

ORIGINAL

JOB: 3050 GREEN RIVER DATE: 4/3/89 CONTRACT # 3050 GREEN RIVER, UTAH

QUA... REQUIREMENTS BY: 4/4/89 Q... NO. 665

TEST SPECIFICATIONS: 02200 REV 2 - 95% OF # 0698
02200 REV C OPT. MOISTURE TO -4% OF OPT. MOISTURE

TEST NO.	LOCATION	CURVE ENTRY NO.	TYPE OF MATERIAL	MAX. DRY DENSITY	OPTIMUM MOISTURE	WET DENSITY	DRY DENSITY	PERCENT MOISTURE		% OF MAX. DRY DENSITY	PASS/ FAIL
SFA-N-043	N59460 E59040 Elev. 4103	SFA-4 -007	SILTY SAND	117.2	11.7	122.3	112.4	8.8	15.85	95.9	PASS
SFA-N-044	N59,515 E58,830 @ ELEV 4103	SFA-4 -007	SILTY SAND	117.2	11.7	124.0	114.1	8.7	15.91	97.4	PASS
SFA-N-045	N59,430 E58,930 @ ELEV 4103	SFA-4 -007	SILTY SAND	117.2	11.7	123.5	112.8	9.5	17.17	96.2	PASS
SFA-N-046	N59,620 E58,965 @ ELEV 4102	SFA-4 -007	SILTY SAND	117.2	11.7	125.1	115.~~0~~1 SD 489	8.7	16.05	98.~~1~~2 SD 489	PASS
* SFA-N-047	N59,440 E59,195 @ ELEV 4102	SFA-4 -007	SILTY SAND	117.2	11.7	126.1	113.~~0~~7 SD 489	10.9	19.86	97.0 SD 489 ~~96.9~~	PASS

(TROXLER 3440 AM 4711737 CS-50 5337)

TABLE 3 (cont)

(adapted from ref 1)

CKD. WOC 7/28/89

OPERATOR: Steve Dike REVIEWED BY: [signature]

COMMENTS: [illegible]

JOB: ~~3050~~ Green River DATE: ~~4-4-89~~

ORIGINAL
~~CONTRACT #~~ 3050
GREEN RIVER, UTAH

QU. REQUIREMENTS
BY SOM 4/5/89
QA ENTRY NO. 627

TEST SPECIFICATIONS: 02200 GEN 2 - 95% OF A D628
02200 GEN C OPT. MOISTURE TO -4% OF OPT. MOISTURE

TEST NO.	LOCATION	CURVE ENTRY NO.	TYPE OF MATERIAL	MAX. DRY DENSITY	OPTIMUM MOISTURE	WET DENSITY	DRY DENSITY	PERCENT MOISTURE		% OF MAX. DRY DENSITY	PASS/ FAIL
SFA N-037-R2	N59635 E58990 Elev. 4101	SFA-4-006	Silty Sand	118.2	12.3	128.9	118.1	9.2	17.41	99.9	PASS
SFA N-038-R2	N59640 E59100 Elev. 4101					124.8	113.0	10.4	18.83	95.6	PASS
SFA N-040 R1	N59545 E59215 Elev. 4101					128.9	116.9	10.3	19.3	98.9	PASS
SFA N-041-R1	N59255 E59050 Elev. 4103					123.9	113.6	9.1	16.57	96.1	PASS
* SFA N-042-R1	N59320 E58965 Elev. 4103	SFA-4-006	Silty Sand	~~118.2~~ 117.2	~~12.3~~ 11.7	125.9	114.~~34~~ SP 4-4-89	10.1	18.53	SOM 4/4/89 97.6 ~~96.8~~	PASS
SFA-N-048	N59505 E59255 Elev. 4102	SFA-4-007	Silty Sand	117.2	11.7	124.9	115.2	8.4	15.51	98.3	PASS
SFA-N-049	N59565 E59060 Elev. 4102					126.8	116.3	9.0	16.77	99.2	PASS
SFA N-050	N59590 E58980 Elev. 4103					127.8	116.9	9.3	17.42	99.7	PASS
SFA-N-051	N59430 E58860 Elev. 4104	SFA-4-007	Silty Sand	117.2	11.7	126.7	116.2	9.0	16.76	99.1	PASS
* SFA-N-052	N59535 E58930 Elev. 4104	SFA-4-002	Silty Sand	** 119.2	10.8	130.1	119.9	8.5	16.33	100.6	PASS

** - MAINTAIN SAME ORIGINAL CURVE FOR ALL RETESTS.

TABLE 3 (cont)

CQ. NOC 7/27/89

OPERATOR: Steve Dike REVIEWED BY: Steven Martz

ORIGINAL
CONTRACT # 3050
GREEN RIVER, UTAH

JOB: ~~750~~ Green River DATE 4-4-89

REVIEWED FOR QUALITY REQUIREMENTS
[illegible] 4/5/89
ENTRY NO. 675

TEST SPECIFICATIONS: 02200 BEV. 2 - 95% OF A D698
02200 BEV. C - OPT. MOISTURE TO -4% OF OPT. MOISTURE

TEST NO.	LOCATION	CURVE ENTRY NO.	TYPE OF MATERIAL	MAX. DRY DENSITY	OPTIMUM MOISTURE	WET DENSITY	DRY DENSITY	PERCENT MOISTURE		% OF MAX. DRY DENSITY	PASS/ FAIL
STA N-053	N59675 E59080 Elev. 4103	STA-4-002	Silty Sand	119.2	10.8	122.8	114.2	7.5	13.73	95.8	PASS
STA N-054	N59380 E59020 Elev. 4104					126.6	115.4	9.7	17.94	96.8	PASS
STA N-055	N59350 E59140 Elev. 4104					126.8	115.9	9.4	17.46	97.2	PASS
STA N-056	N59490 E59155 Elev. 4103	STA-4-002	Silty Sand	119.2	10.8	127.2	117.5	8.3	15.63	98.6	PASS

(TROXLER 3440 CS-50 5337 AM-4711737)

TABLE 3 (cont)
(adapted from ref 1)

OPERATOR: Steve Dike REVIEWED BY: [illegible]

ORIGINAL

JOB: 3050 Green River DATE: 4-5-89

CONTRACT # 3050
GREEN RIVER, UTAH

REVIEWED FOR QUALITY REQUIREMENTS BY SDM 4/6/89
QA ENTRY NO. 692

TEST SPECIFICATIONS: 02200-BN2 95% OF A D698
02200-BN2 OPT. MOISTURE TO -4% OF OPT. MOISTURE

TEST NO.	LOCATION	CURVE ENTRY NO.	TYPE OF MATERIAL	MAX. DRY DENSITY	OPTIMUM MOISTURE	WET DENSITY	DRY DENSITY	PERCENT MOISTURE	Ø	% OF MAX. DRY DENSITY	PASS/ FAIL
* SFA-N-057	N59570 E59175 Elev. 4103	SFA-4-002	Silty Sand	119.2	10.8	127.9	117.1	9.2	17.26	98.2 SDM 4/5/89	PASS
SFA N-058	N59500 E59280 Elev. 4104					124.5	116.4 SD 4-5-89	7.0	13.06	97.7	PASS
SFA N-059	N59460 E59115 Elev. 4104					126.0	115.9	8.7	16.16	97.2	PASS
SFA N-060	N59610 E59115 Elev. 4104					123.5	114.5	7.9	14.5	96.0 SDM 4/5/89	PASS
* SFA-N-061	N59680 E58980 Elev. 4104	SFA-4-002	Silty Sand	119.2	10.8	122.5	114.4	7.1	13.02	96.0	PASS

(TROXLER 3440 CS-50 5337 AM-4711737)

TABLE 3 (cont)

(adapted from ref 1)

UNTRACTED 5057-05 CKD. WOC 7/18/89

MVG 7/17/89

OPERATOR: Steve Dike REVIEWED BY: Steven Martz

MORRISON-KNUDSEN ENGINEERS, INC.
A MORRISON KNUDSEN COMPANY

Project UMTRA-GRK
Feature Inplace Sample Buffer Matrix
Item Inplace Parameter Characterization

Contract No. 5057-05
Designed MJF
Checked WOC

Sheet A-9
File No.
Date 26 July 89
Date 7/28/89

INPLACE BUFFER (summary)

77 data pts (see sheets A-9 through A-18)

	γ_d (pcf)	W (%)	ϕ (decimal)
$\bar{x}$	119.2	8.3	15.8
σ	3.18	1.43	2.64
$J = \sigma/x$	0.027	0.173	0.167

TABLE 3 (cont)

Procedure (cont)

4. Calculate θ for each (w, γ_d) data pair for each material type using the following formula:

$$\theta = w \frac{\gamma_d}{\gamma_w}$$

where $\gamma_w = 62.4$ pcf.

5. The mean value (and the standard deviation) of θ for each of the materials is calculated from the individual θ's in the data base (see step 4, above).

RESULTS

Mean values of w, γ_d and θ for the tailings, offpile and buffer materials are presented in Table 4.

Standard deviation, σ, and coefficient of variation, $\nabla = \sigma/\text{mean}$ of θ for the above materials are presented in Table 5.

Mean values and standard deviations of the water content data sets used to estimate w and θ are presented in Table 6.

MAT'L TYPE	$\bar{w}$ (%)	$\bar{\gamma}_d$ (pcf)	$\bar{\theta}$ (%)	
			Method 1 ①	Method 2 ②
Tailings	4.56	98.96	7.0	7.2
Offpile	5.52	115.19	10.8	10.2
Buffer	8.30	119.2	15.8	15.9

NOTES

① $\bar{\theta}$ estimated as mean value of individual θ values, i.e.,

$$\bar{\theta} = \frac{1}{n\gamma_w} \sum_{i=1}^{n} w_i \gamma_{d_i}$$

where: (w_i, γ_{d_i}) are (water content, dry density) measurements on one test specimen; n = number of (w_i, γ_{d_i}) pairs

② $\bar{\theta}$ estimated from mean w and γ_d values, i.e.,

$$\bar{\theta} = \frac{1}{\gamma_w}(\bar{w})(\bar{\gamma}_d)$$

where $\bar{w}$ and $\bar{\gamma}_d$ are the mean values of w and γ_d on test specimens for which both w and γ_d data are available

TABLE 4

MORRISON-KNUDSEN ENGINEERS, INC.
A MORRISON KNUDSEN COMPANY

Project UMTRA-GRN
Feature Tailings, Offpile Buffer Mat'ls
Item Inplace Parameter Characterization

Contract No. E057-05
Designed MJF
Checked WOC

Sheet A-22
File No.
Date 7/27/89
Date 7/28/89

MATL TYPE	θ (%) ①		
	Mean	σ	ν ②
Tailings	7.0	1.91	0.27
Offpile	10.8	1.70	0.16
Buffer	15.8	2.64	0.17

NOTES

① See data summaries, Tables 1-3.

② $\nu = \sigma / \text{mean}$

TABLE 5

MORRISON-KNUDSEN ENGINEERS, INC.
A MORRISON KNUDSEN COMPANY

Project UMTRA-GZN
Feature Tailings Offpile Buffer Mat'ls
Item Inplace Parameter Characterization

Contract No. 5057-05
Designed MJG
Checked WOC

Sheet A-25
File No.
Date 27 July 89
Date 7/28/89

COMPLETE DATA SET

MAT'L	# Data Points	Grav. Water Content	
		Mean	σ
Tailings	138	4.56	1.43
Offpile	188	5.52	1.13

TABLE 6a

SUBSET USED TO ESTIMATE θ

MAT'L	# Data Points	Grav. Water Content	
		Mean	σ
Tailings	35	4.41	1.19
Offpile	40	5.85	0.91

TABLE 6b

DISCUSSION

1. The mean values of θ estimated herein are not significantly different than would be estimated using mean values of W and γ_d (see Table 4)

2. Although fewer γ_d tests were performed than W tests, based on a comparison of the mean value and standard deviation of all water contents measured and of the mean and standard deviation of water contents for which γ_d data are also available (see Table 6), it can be seen that compacted water content (and presumably γ_d) of the data set used to estimate θ is not significantly different than compacted water content (and γ_d) of the complete data set.

SUPPLEMENT

Purpose

Determine the mean values of optimum water content (OMC) and maximum dry density ($\gamma_{d\,max}$) based on ASTM D-698 of compaction tests used to control compaction of tailings, offpile and buffer materials.

Procedure

1. OMC and $\gamma_{d\,max}$ test data from ref. 1 are reproduced in Tables 7-9.
2. Mean values of OMC and $\gamma_{d\,max}$ are calculated using coventional formulae. Results are presented in Table 10.

Discussion

1. Mean OMC and $\gamma_{d\,max}$ values of offpile materials are similar to those of the buffer materials. This corroborates that the buffer material is composed of the same materials as the offpile materials.

MJG
5057-05
12 July 89
UMTRA-GRN
CKD. WOC 7/28/

A-26

TAILINGS

CONTROL CURVE	D-698 * OMC (%)	D-698 * $\gamma_{d\,max}$ (pcf)	
CM4-001	18.2	97.6	
no-number	14.9	103.6	
CM4-002	16.5	99.5	
CM4-024	14.8	103.0	
CM-4-025	14.1	105.1	
CM-4-026	14.0	104.8	
CM-4-027	13.9	103.5	
CM-4-028	15.8	99.6	
CM-4-029	15.2	102.3	
CM-4-032	~~13.5~~	~~107.3~~	← 75% tailings (not included in avg
CM-4-033	13.5	104.4	
CM-4-034	13.8	103.5	
CM-4-035	14.5	102.0	
CM-4-036	13.1	107.6	
CM-4-037	15.0	101.0	
CM-4-038	15.0	102.3	
CM-4-039	13.7	104.2	
CM-4-040	14.8	103.1	
CM-4-041	13.8	101.2	
CM-4-042	~~13.3~~	~~110.~~	← unknown amount of insitumat do not include in avg.
CM-4-043	~~12.7~~	~~115.6~~	
CM-4-044	~~9.4~~	~~123.0~~	

n =	18	18	does not include tailings mixed w/ other mat'l.
$\bar{X}$ =	14.70	102.7	
σ_x =	1.22	2.34	
$\nu = \sigma/\bar{X}$ =	0.083	0.023	

* 4-pt compaction tests

TABLE 7

(adapted from ref 1)

MJG
5057-05
12 July 89
UMTRA-GRN
CKD. WOC 7/28/89

A-27

Offpile

CONTROL CURVE	D-698 * OMC (%)	D-698 * $\gamma_{d\,max}$ (pcf)
CM-4-004	10.8	124.4
CM-4-003	10.3	127.7
CM-4-005	9.7	126.8
CM-4-006	13.1	118.8
CM-4-007	10.9	125.7
CM-4-008	10.9	120.6
CM-4-009	10.9	124.7
CM-4-010	10.7	124.2
CM-4-011	10.2	125.2
CM-4-012	10.0	124.7
CM-4-013	10.0	125.6
CM-4-014	12.5	112.8
CM-4-015	15.4	105.8
CM-4-016	12.0	119.3
CM-4-017	11.7	117.7
CM-4-018	10.8	121.7
CM-4-019	13.2	111.2
CM-4-020	11.9	116.5
CM-4-021	7.9	130.9
CM-4-022	10.6	123.4
CM-4-023	12.3	114.8
CM-4-030	10.9	123.0
CM-4-031	12.2	116.1
$n =$	23	23
$\bar{X} =$	11.26	120.94
$\sigma_x =$	1.50	6.00
$\nu = \sigma/\bar{X} =$	0.133	0.050

* 4-pt compaction tests

TABLE 8

(Sheet 1 of 4)

MORRISON-KNUDSEN ENGINEERS, INC.
A MORRISON KNUDSEN COMPANY

Project UMTRA-GRN
Feature Tailings Offpile, Buffer Materials
Item Inplace Parameter Characterization

Contract No. 5057-05
Designed MJG
Checked [illegible]

Sheet A-23
File No.
Date 7/27/89
Date 7/28/89

TYPE A SELECT FILL
(BUFFER)

CONTROL CURVE	D-698 * γ_d max (pcf)	D-698 * OMC (%)
SFA-N-001	124.9	8.7
SFA-N-010	127.8	10.1
SFA-N-013	125.4	10.8
SFA-N-023	123.9	10.0
SFA-N-037	118.2	12.3
SFA-N-043	117.2	11.7
SFA-N-052	119.2	10.8
Mean	122.4	10.6
Std. dev.	4.1	1.2

* Data taken from field density tests; compaction test data are not available in ref. 1.

TABLE 9

(adapted from ref 1)

MORRISON-KNUDSEN ENGINEERS, INC.
A MORRISON KNUDSEN COMPANY

Project UMTRA-GRN
Feature Tailings, Offpile, Buffer Matls
Item Inplace Parameter Characterization

Contract No. 5057-05
Designed MJC
Checked WOC

Sheet A-29
File No.
Date 27 July 89
Date 7/28/89

MATERIAL	MEAN D-698 Compaction Variables *	
	γ_d max (pcf)	OMC (%)
Tailings	102.7	14.7
Offpile	120.9	11.3
Buffer	122.4	10.6

* based on data in Tables 7-9.

TABLE 10

Calculation Cover Sheet

Contract No. 5057-05 Discipline UMTRA/ESCI Calc. No. 10-430-10-0 No. of Sheets 11

Project
UMTRA-GRN

Feature
Compaction of Contaminated Materials

Item
Statistical Evaluation of degree of compaction

~~Sources of Data~~

Sources of Formulae & References

1. "Mechanics of Particulate Media", Milton E. Harr, published by McGraw Hill, 1977.
2. "Contaminated Material Moisture Content, Density and Compaction Data - Green River, Utah"; prepared by MK-ES (in progress).

Preliminary Calc. ☐ Final Calc. ☒ Supersedes Calc. No. _____

Rev. No.	Revision	Calculation By	Date	Checked By	Date	Approved By	Date
0	—	Martin Goodman	25 Oct 89	Rick Stauber	10-30-89	P.K. Chen	10-30-89

Form 42-110

PURPOSE

Using construction data, evaluate the likelihood that contaminated materials were compacted to less than 90% compaction.

APPROACH

In-place compacted density (and percentage compaction) are random variables. An upper bound to the probability that these random variables will be outside a specified range can be estimated using the Chebyshev Inequality, which states:

$$P\left(|x - \bar{x}| > n\sigma_x\right) \leq 1/n^2 \qquad \text{(Ref 1, pg 121)}$$

in which:

x = a random variable

$\bar{x}$ = mean value of random variable

σ_x = standard deviation of the random variable

n = the number of σ-bounds of the random variable beyond the mean of the random variable

P = probability

$$0 \leq P \leq 1$$

The Chebyshev Inequality applies regardless of the probability density function of the random variable, however, if the probability density function is approximately symmetric and has a finite upper bound*, the probability that the value of a random variable being more than n-standard deviations beyond its mean reduces to:

$$P\left(|x-\bar{x}| > n\sigma_x\right) \leq \frac{4}{9n^2} \qquad \text{(ref 1, pg. 123)}$$

For symmetric distributions, the probability that the value of a random variable will exceed n-standard deviations beyond its mean value on one side of the mean can be taken to be one-half the probability the value of the random variable will be more than n-standard deviations beyond its mean on both sides, i.e.,

$$P\left[(x-\bar{x}) > n\sigma_x\right] \leq \frac{2}{9n^2} \qquad \text{for} \quad x \geq \bar{x}$$

$$P\left[(\bar{x}-x) > n\sigma_x\right] \leq \frac{2}{9n^2} \qquad \text{for} \quad x \leq \bar{x}$$

* Percentage Compaction is inherently has a finite upper bound determined from the zero-voids condition.

The symmetry assumption may be checked by calculating the skewness of the random variable data set. The coefficient of skewness is calculated as follows:

$$\beta_1 = \frac{(1/n)\sum_{1}^{n}(x_i - \bar{x})^3}{\sigma_x^3}$$

where β_1 = coefficient of skewness

n = number of random variable data points

x_i = i^{th} random variable observation

$\bar{x}$ = mean value of random variable

σ_x = standard deviation of random variable

Generally, probability density functions with $-0.5 < \beta_1 < 0.5$ may be considered to be symmetric, although if the distribution is skewed towards the bound whose exceedence probability is being evaluated, the resulting estimate of exceedence probability may be somewhat underconservative.

For the case of the % compaction values of the Green River disposal cell, the random variable is the % - compaction at a random location measured at regular volume intervals. Therefore, the Chebyshev Inequality may be used to estimate the upper bound in the probability that the % - compaction at any random location will be less than 90 % compaction.

Since probability can not be less than zero, the actual probability that compaction at any random location will be less than 90% may be estimated as one-half the upper bound probability. This value is more reasonable for design purposes because the joint probability that many of the lifts will have densities less than 90% is considerably smaller than the probability that just one lift will have a density smaller than 90% compaction.

CALCULATIONS

- Tailings % Compaction

a) Demonstration of symmetry

calculate coefficient of skew $\beta_1 = \dfrac{(1/n)\sum_1^n (x_i - \bar{x})^3}{\sigma^3}$

$\beta_1 = -0.265^{*} > -0.5$ * (see appended data)

∴ distribution function of percent compaction is approximately symmetric.

b) Determination of n-σ bounds

for percent compaction:

mean = 95.65 %
σ = 2.16 % } (see appended data)

for x = design compaction percentage, i.e., 90 %

$n = (\bar{x} - x)/\sigma$ for $x < \bar{x}$

$= (95.65 - 90)/2.16$

$= 2.62$

c) Calculation of Probability of noncompliance.

$$P(x < 90\%) \le \frac{2}{9n^2} = \frac{2}{9(2.62^2)} = \underline{0.033}$$

i.e., the theoretical upper bound probability that % - compaction will be less than 90% at any random location is about 3.3 %.

– offpile Contaminated Materials % Compaction

a) demonstration of symmetry

$\beta_1 = -0.215^{*} > -0.5$ * see appended data

∴ distribution function of percentage compaction ~ symmetric.

b) n-σ bounds

for percent compaction:

mean = 94.67 %
σ = 2.71 %
} see appended data

$n = (\bar{x} - x)/\sigma$ for $x < \bar{x}$

$= (94.67 - 90)/2.71$

$= 1.72$

c) Calculation of Probability of Noncompliance

$$P(x < 90\%) \leq \frac{2}{9n^2} = \frac{2}{9(1.72^2)} = \underline{0.075}$$

i.e., the theoretical upper bound probability that % compaction is less than 90% at any random location is about 7.5%.

CONCLUSIONS

The theoretical upper bound probabilities of noncompliance for percent compaction of tailings and off-pile contaminated materials at any random location in the disposal cell are 3.3% and 7.5%, respectively.

The "actual" probabilities of noncompliance for percent compaction at a random location, which are estimated to be approximately one-half of the theoretical upper bound values, agree well with the 1 in 79 noncompliance rate achieved using the Method Specification in the Subcontract Documents.

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UMTRA-GRN
5057-05
31 Oct 89

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Checked 10/31/89
Rmd

~~TABLE 3A~~

OFF-PILE CONTAMINATED MATERIAL **
(Sheet 1 of 2)

Sample No.*	Dry Density (pcf)	Percent Compaction	Moisture Content(%)	Percent Dryer than OMC
MKE-001	108.7	97.8	5.5	7.6
MKE-002	113.4	91.3	5.6	5.1
MKE-003	105.2	90.3	6.3	5.6
MKE-004	112.2	90.3	5.6	5.1
MKE-005	114.1	91.1	6.8	3.4
MKE-006	118.2	94.4	5.6	4.6
MKE-007	120.7	92.2	4.1	3.8
MKE-008	118.7	94.5	7.0	3.0
MKE-009	117.2	94.4	5.4	5.3
MKE-010-R1	118.1	95.1	5.1	5.6
MKE-011	117.2	96.3	7.5	3.3
MKE-012	115.0	94.5	5.7	5.1
MKE-013	116.8	96.0	6.3	4.5
MKE-014	115.3	94.7	4.4	6.4
MKE-015	119.5	96.8	6.0	4.6
MKE-016	119.0	96.4	5.0	5.6
MKE-017	115.6	93.7	6.6	4.0
MKE-018	111.2	96.9	7.0	5.3
MKE-019	117.0	94.8	6.8	3.8
MKE-020	118.1	95.7	6.0	4.7
MKE-021	111.7	90.5	6.6	4.0
MKE-022	119.3	96.1	7.6	3.1
MKE-023	114.2	91.9	5.8	4.9
MKE-024	117.8	96.8	4.8	6.0
MKE-025	121.3	99.7	6.4	4.4
MKE-026	114.5	98.3	5.8	6.1
MKE-027	114.6	98.4	5.7	6.2
MKE-028	119.7	96.2	4.8	6.0
MKE-029	113.1	91.1	5.3	5.9
MKE-030	113.0	97.0	5.3	6.6

*Note: 1 failed point not included.

** Data are extracted from ref. 2.

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~~TABLE 3A~~

OFF-PILE CONTAMINATED MATERIAL **
(Sheet 2 of 2)

Sample No.*	Dry Density (pcf)	Percent Compaction	Moisture Content(%)	Percent Dryer Than OMC
MKE-031	105.2	90.3	6.3	5.6
MKE-032	114.9	98.6	4.7	7.2
MKE-033	114.0	91.6	7.0	3.8
MKE-034	115.1	92.5	7.7	3.1
MKE-035	119.4	97.1	5.7	5.2
MKE-036	119.2	96.9	4.1	6.8
MKE-037	105.5	90.9	5.4	7.1
MKE-077	108.7	96.4	4.9	7.6
MKE-078	115.1	92.7	6.1	4.6
MKE-079	120.0	96.6	5.7	5.0
MEAN	115.19	94.67	5.85	5.14
STANDARD DEVIATION	4.19	2.71	0.91	1.25
Coefficient of Variation	.0364	0.0286	0.1560	0.2435
Coefficient of Skewness	--	-0.215	--	--

*Note: 1 failed point not included.

** Data are extracted from reference 2.

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~~TABLE 3B~~

TAILINGS *
(Sheet 1 of 2)

Sample No.	Dry Density (pcf)	Percent Compaction	Moisture Content(%)	Percent Dryer Than OMC
MKE-038	104.2	93.7	5.9	7.4
MKE-039	104.9	94.3	3.3	9.9
MKE-040	106.9	90.0	5.5	7.7
MKE-041	102.3	98.0	2.9	10.6
MKE-042	99.4	95.2	4.4	9.1
MKE-043	100.0	95.8	4.7	8.8
MKE-044	97.1	95.2	3.7	10.8
MKE-045	96.2	95.2	3.9	11.1
MKE-046	97.8	96.8	2.8	12.2
MKE-047	98.8	96.6	3.3	11.7
MKE-048	102.0	99.7	3.0	12.2
MKE-049	99.6	97.4	5.3	9.9
MKE-050	101.2	97.1	3.9	10.4
MKE-051	97.6	93.5	4.1	9.4
MKE-052	98.8	94.6	3.4	10.1
MKE-053	95.7	91.7	5.1	8.3
MKE-054	96.3	93.0	6.3	7.5
MKE-055	99.2	95.8	3.3	10.5
MKE-056	99.1	95.7	3.3	10.5
MKE-057	97.9	96.9	6.1	8.9
MKE-058	97.0	96.0	3.2	11.8
MKE-059	96.8	95.8	4.0	11.0
MKE-060	98.1	95.2	3.7	11.1
MKE-061	101.9	98.8	5.8	8.9
MKE-062	103.1	100.0	5.4	9.4
MKE-063	98.7	97.7	1.9	13.1
MKE-064	98.1	97.1	6.7	8.9
MKE-065	97.5	96.5	5.3	9.7
MKE-066	98.4	91.4	4.1	9.0
MKE-067	101.0	93.9	5.3	7.8

* Data are extracted from reference 2.

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~~TABLE 3B~~

TAILINGS *
(Sheet 2 of 2)

Sample No.	Dry Density (pcf)	Percent Compaction	Moisture Content(%)	Percent Dryer Than OMC
MKE-068	104.4	95.0	6.7	6.6
MKE-069	102.9	99.4	4.8	9.0
MKE-070	99.5	96.1	3.9	10.2
MKE-071	96.8	93.5	5.0	8.8
MKE-072	109.9	95.1	3.9	8.8
MKE-073	97.9	96.9	3.9	11.1
MKE-074	95.2	94.3	4.2	10.8
MKE-075	98.7	95.7	5.9	8.9
MKE-076	98.7	95.7	5.2	9.6
MEAN	99.73	95.65	4.44	9.78
STANDARD DEVIATION	3.21	2.16	1.18	1.46
COEFFICIENT OF VARIATION	0.0321	0.0226	0.2654	0.1494
Coefficient of Skewness	--	-0.265	--	--

* Data are extracted from reference 2.