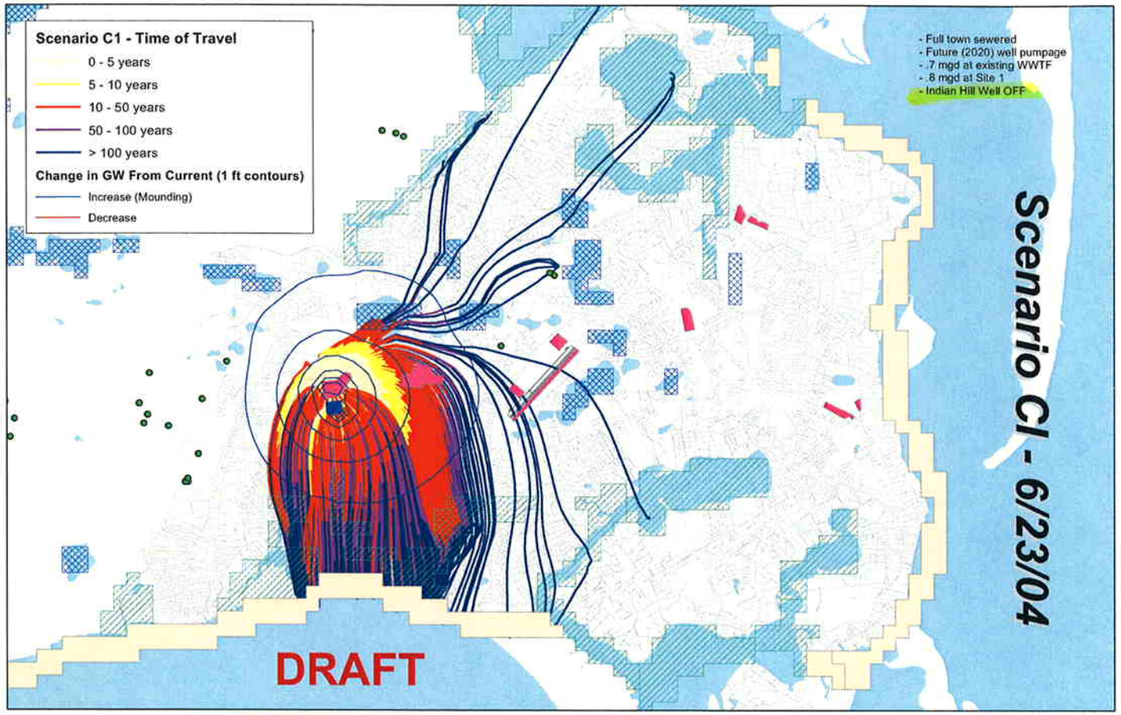
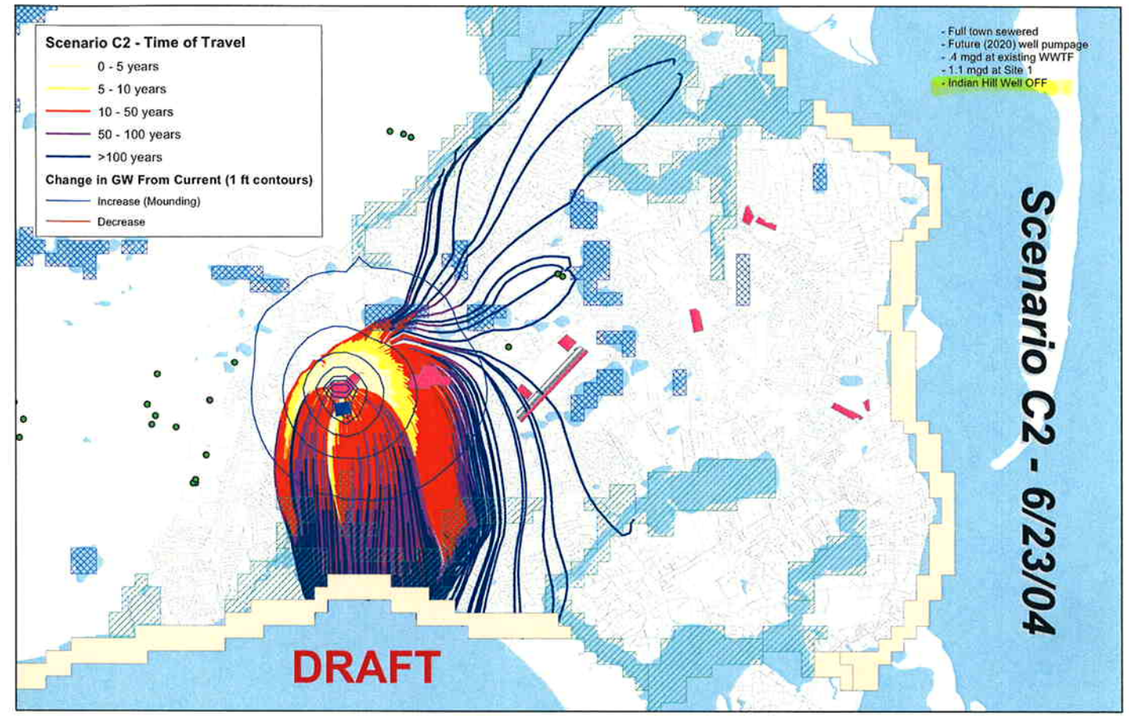
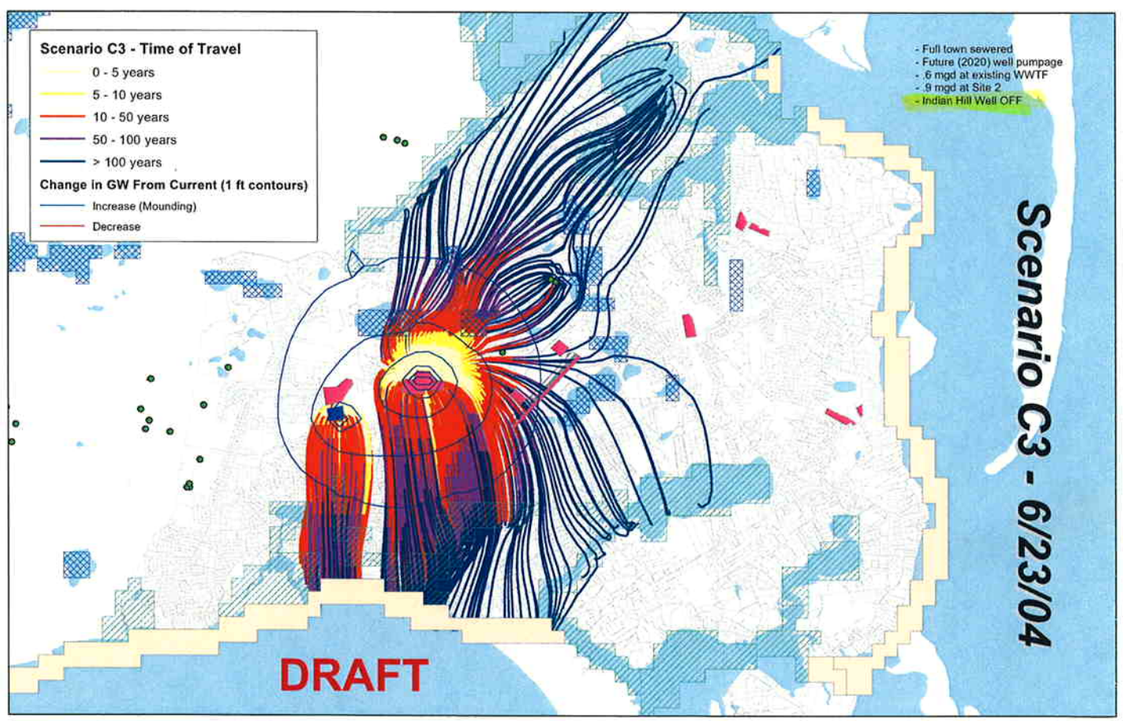
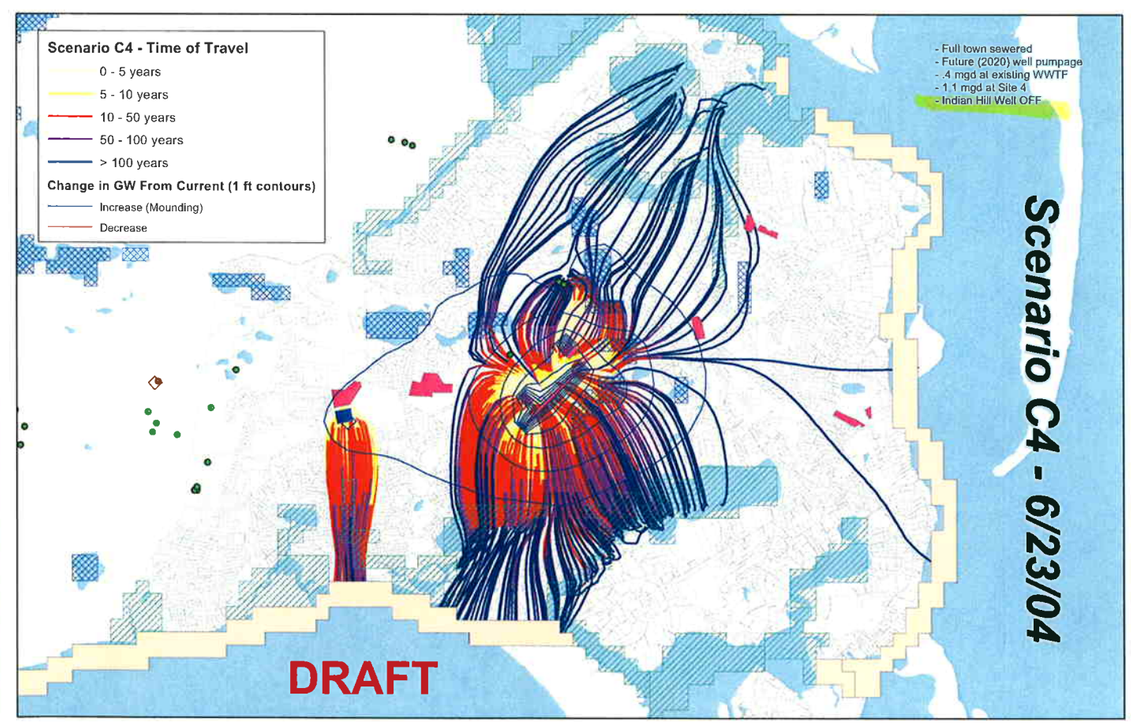
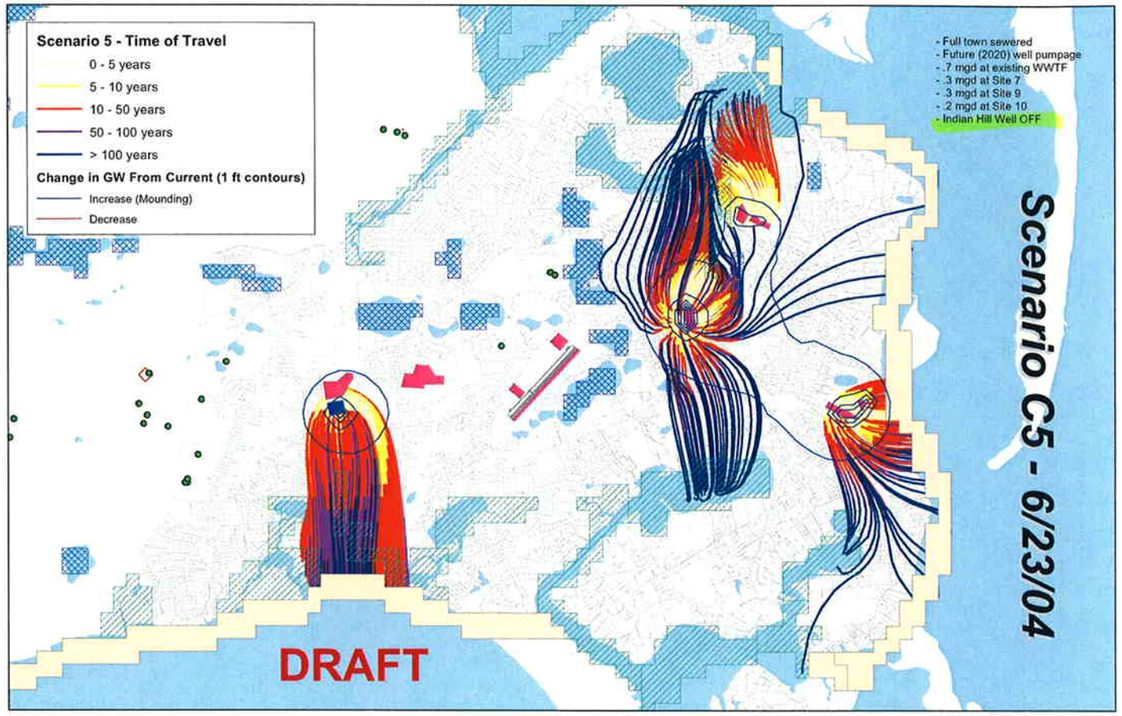
Preliminary USGS Particle Track Figures 1-7

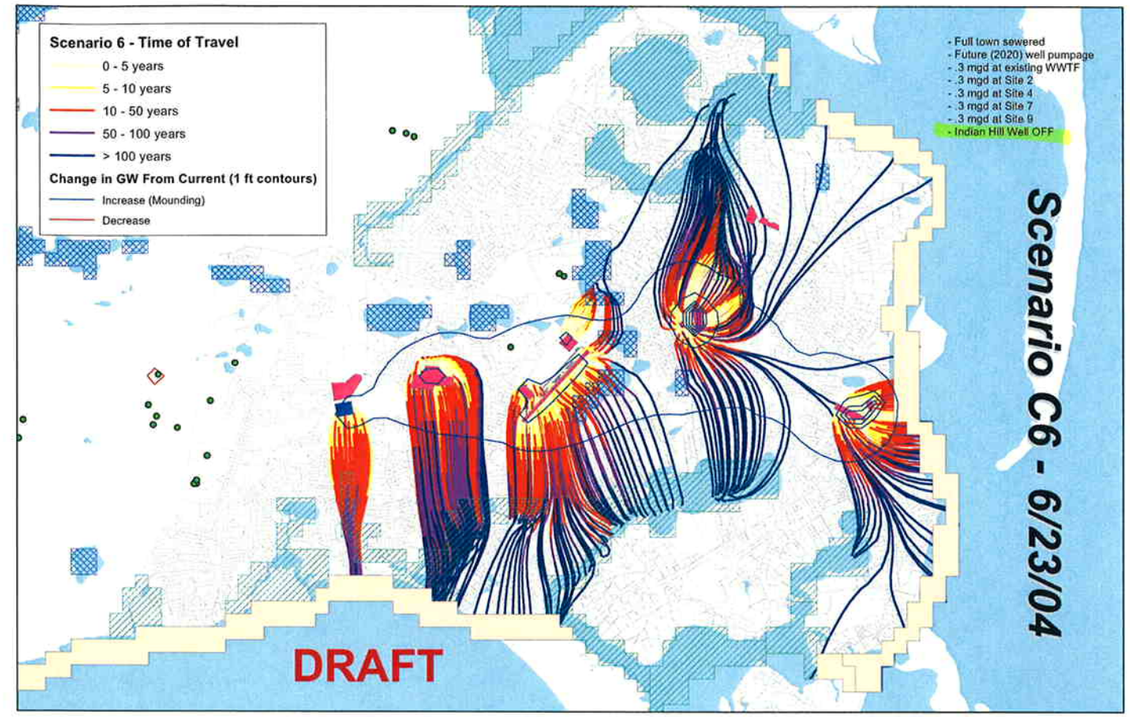

Scenario C1 - Time of Travel
0 - 5 years
5 - 10 years
10 - 50 years
50 - 100 years
> 100 years
Change in GW From Current (1 ft contours)
Increase (Mounding)
Decrease
- Full town sewered
- Future (2020) well pumpage
- .7 mgd at existing WWTF
- .8 mgd at Site 1
- Indian Hill Well OFF
Scenario CI - 6/23/04
DRAFT

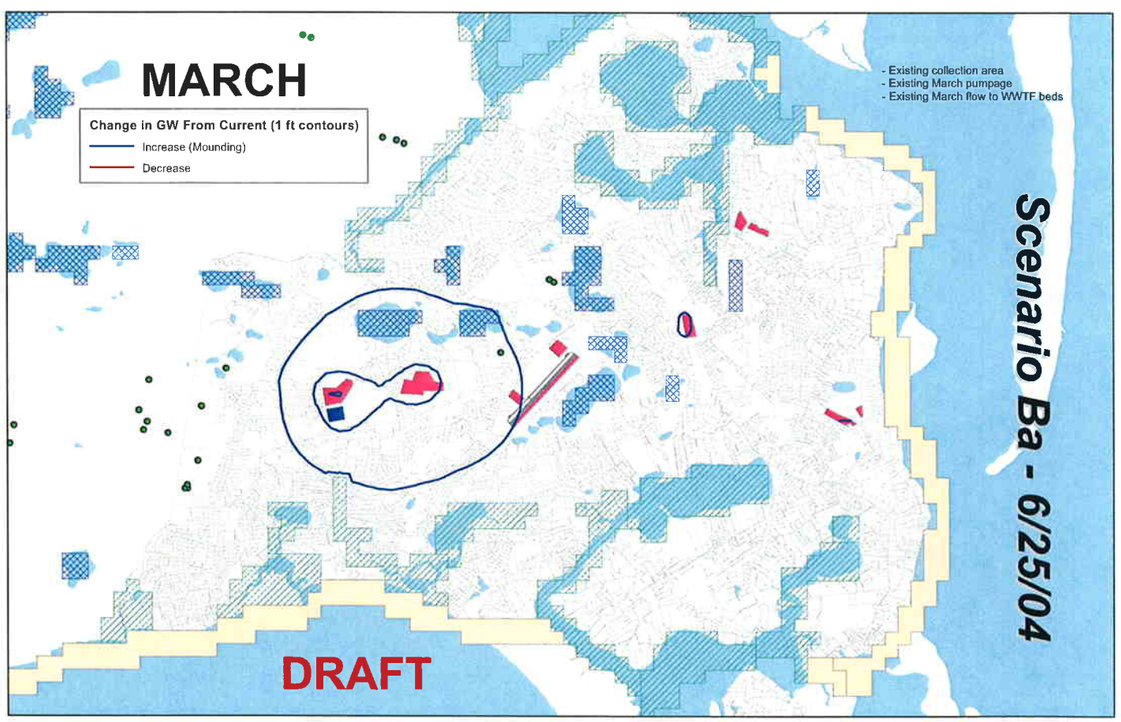

Scenario C2 - Time of Travel
0 - 5 years
5 - 10 years
10 - 50 years
50 - 100 years
>100 years
Change in GW From Current (1 ft contours)
Increase (Mounding)
Decrease
- Full town sewered
- Future (2020) well pumpage
- .4 mgd at existing WWTF
- 1.1 mgd at Site 1
- Indian Hill Well OFF
Scenario C2 - 6/23/04
DRAFT

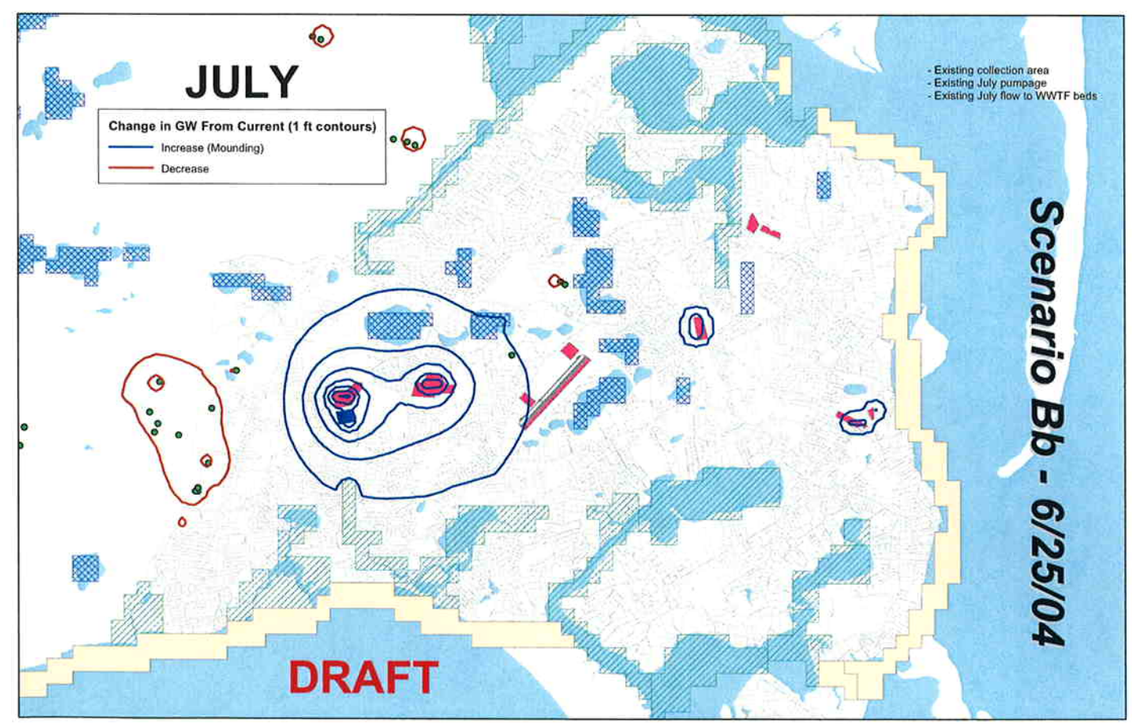

Scenario C3 - Time of Travel
0 - 5 years
5 - 10 years
10 - 50 years
50 - 100 years
> 100 years
Change in GW From Current (1 ft contours)
Increase (Mounding)
Decrease
- Full town sewered
- Future (2020) well pumpage
- .6 mgd at existing WWTF
- .9 mgd at Site 2
- Indian Hill Well OFF
Scenario C3 - 6/23/04
DRAFT


Scenario C4 - Time of Travel
0 - 5 years
5 - 10 years
10 - 50 years
50 - 100 years
> 100 years
Change in GW From Current (1 ft contours)
Increase (Mounding)
Decrease
- Full town sewered
- Future (2020) well pumpage
- .4 mgd at existing WWTF
- 1.1 mgd at Site 4
- Indian Hill Well OFF
Scenario C4 - 6/23/04
DRAFT


Scenario 5 - Time of Travel
0 - 5 years
5 - 10 years
10 - 50 years
50 - 100 years
> 100 years
Change in GW From Current (1 ft contours)
Increase (Mounding)
Decrease
- Full town sewered
- Future (2020) well pumpage
- .7 mgd at existing WWTF
- .3 mgd at Site 7
- .3 mgd at Site 9
- .2 mgd at Site 10
- Indian Hill Well OFF
Scenario C5 - 6/23/04
DRAFT


Scenario 6 - Time of Travel
0 - 5 years
5 - 10 years
10 - 50 years
50 - 100 years
> 100 years
Change in GW From Current (1 ft contours)
Increase (Mounding)
Decrease
- Full town sewered
- Future (2020) well pumpage
- .3 mgd at existing WWTF
- .3 mgd at Site 2
- .3 mgd at Site 4
- .3 mgd at Site 7
- .3 mgd at Site 9
- Indian Hill Well OFF
Scenario C6 - 6/23/04
DRAFT


MARCH
Change in GW From Current (1 ft contours)
Increase (Mounding)
Decrease
- Existing collection area
- Existing March pumpage
- Existing March flow to WWTF beds
Scenario Ba - 6/25/04
DRAFT


JULY
Change in GW From Current (1 ft contours)
Increase (Mounding)
Decrease
- Existing collection area
- Existing July pumpage
- Existing July flow to WWTF beds
Scenario Bb - 6/25/04
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Scenario C1 - Time of Travel
0 - 5 years
5 - 10 years
10 - 50 years
50 - 100 years
> 100 years
Change in GW From Current (1 ft contours)
Increase (Mounding)
Decrease
- Full town sewered
- Future (2020) well pumpage
- .7 mgd at existing WWTF
- .8 mgd at Site 1
- Indian Hill Well ON
Scenario CI - 7/28/04
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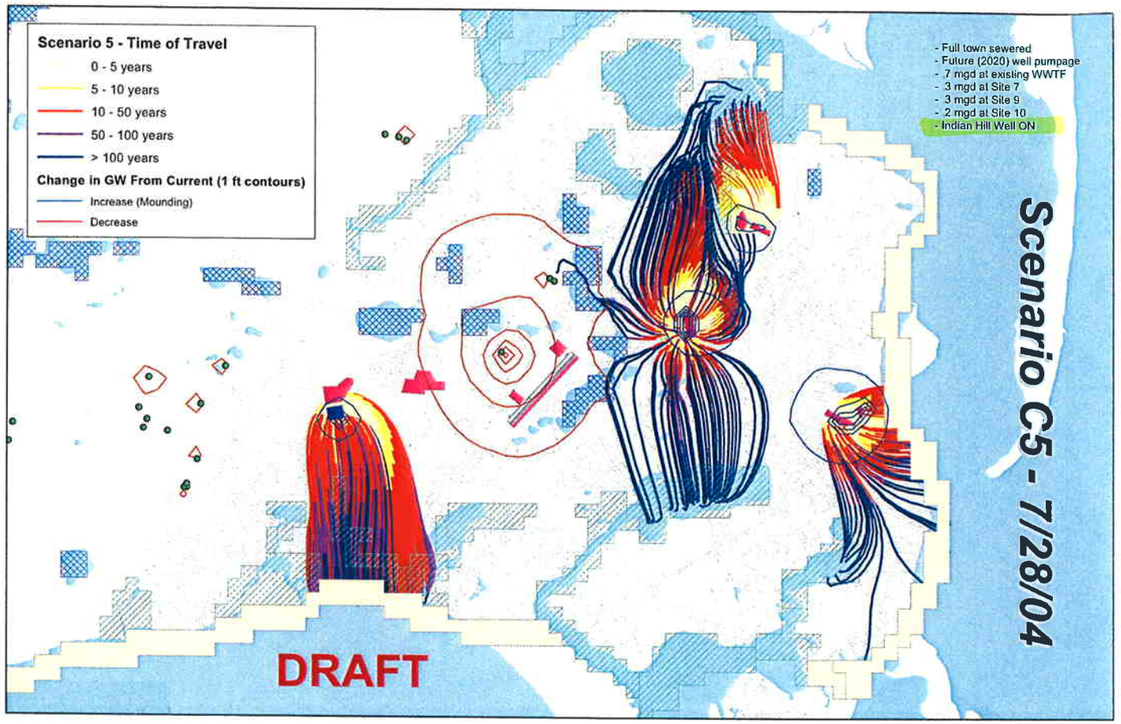
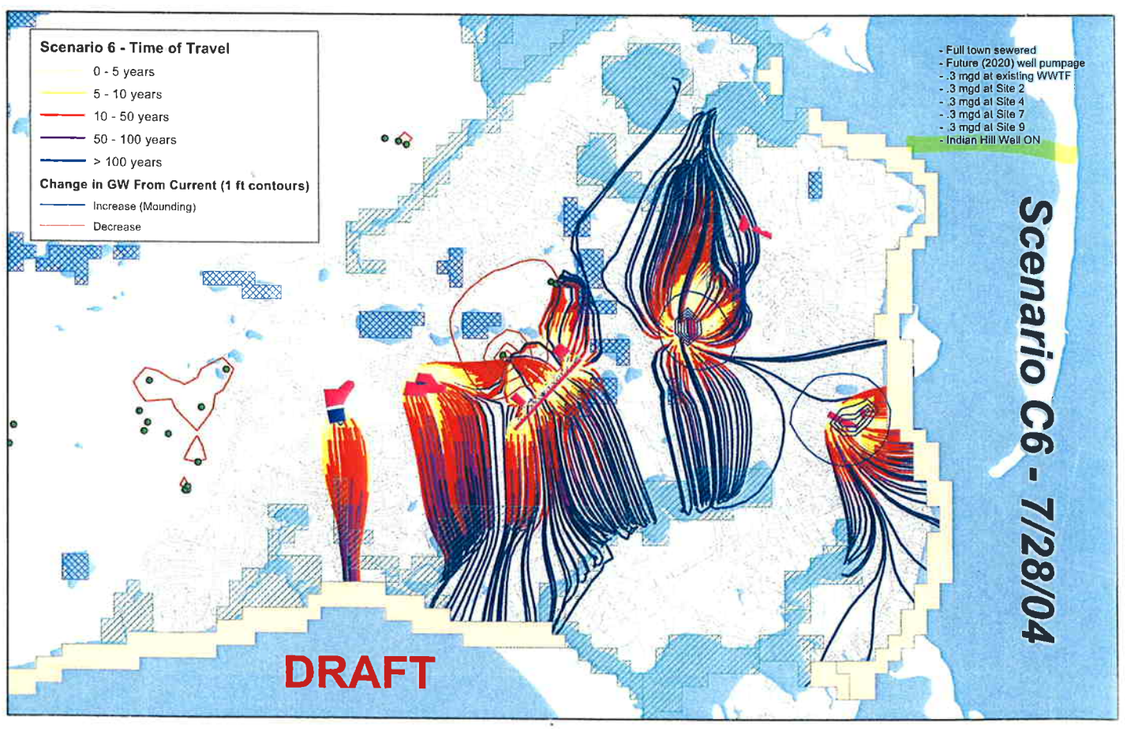
Scenario C2 - Time of Travel
0 - 5 years
5 - 10 years
10 - 50 years
50 - 100 years
>100 years
Change in GW From Current (1 ft contours)
Increase (Mounding)
Decrease
- Full town sewered
- Future (2020) well pumpage
- .4 mgd at existing WWTF
- 1.1 mgd at Site 1
- Indian Hill Well ON
Scenario C2 - 7/28/04
DRAFT

Scenario C3 - Time of Travel
0 - 5 years
5 - 10 years
10 - 50 years
50 - 100 years
> 100 years
Change in GW From Current (1 ft contours)
Increase (Mounding)
Decrease
- Full town sewered
- Future (2020) well pumpage
- .6 mgd at existing WWTF
- .9 mgd at Site 2
- Indian Hill Well ON
Scenario C3 - 7/28/04
DRAFT

Scenario C4 - Time of Travel
0 - 5 years
5 - 10 years
10 - 50 years
50 - 100 years
> 100 years
Change in GW From Current (1 ft contours)
Increase (Mounding)
Decrease
- Full town sewered
- Future (2020) well pumpage
- .4 mgd at existing WWTF
- 1.1 mgd at Site 4
- Indian Hill Well ON
Scenario C4 - 7/28/04
DRAFT





Summary of discharges to ponds, streams, and wells for Chatham Scenarios 1-6 (7/28/04)

(ID Codes reflect ID# on Map)

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	ID Code	# Particles	Volume (cfd)	Volume (gpd)
Scenario C1				
Ponds	**57**	27	5589	41806
	58	2	414	3097
Wells	**49**	2	414	3097
	55	54	11178	83611
Scenario C2				
Ponds	**57**	43	8815	65936
	58	5	1025	7667
	49	4	820	6134
	55	60	12300	92004
Scenario C3				
Ponds	**47**	1	205	1533
	58	37	7585	56736
Wells	**49**	11	2255	16867
	55	218	44690	334281
Scenario C4				
Ponds	**47**	14	2940	21991
	50	84	17640	131947
	59	10	2100	15708
	61	91	19110	142943
Wells	**48**	7	1470	10996
	49	80	16800	125664
	55	161	33810	252899
Scenario C5				
Pond	**54**	21	4137	30945
Wells	**49**	1	197	1474
Scenario C6				
Ponds	**50**	8	1664	12447
	54	29	6032	45119
	61	18	3744	28005
Wells	**49**	29	6032	45119
	55	84	17472	130691

Volume Per Particle, in cubic feet per day per particle

Scenario 1	207
Scenario 2	205
Scenario 3	205
Scenario 4	210
Scenario 5	197
Scenario 6	208