

ICR TREATMENT STUDY ANALYSIS

Base Analysis and Data Review Comments

Treatment Study ID	1049
Study Protocol	GAC RSSCT treatment study
Plant ICR Number	282
PWS Name	City of Cocoa
City, State, Zip	Cocoa, FL 32922

These are general comments that do not need to be responded to directly.

Major comments:

1. RSSCT schematic (Figure 3-2) shows influent sampling point located prior to inline filtration by 0.1 μm Teflon filter. Therefore, GAC influent water quality analysis was conducted on settled water.

General Comments:

1. GAC influent was filtered through 0.1 μm pore size filter, a tighter filter than that required by the *Treatment Studies Manual* (about 1.0 μm).
2. Average GAC influent turbidity ranged from 0.1 to 1.0 ntu during all four sessions. Note that based on Figure 3-2, sampling was conducted on settled water, instead of filtered water, and relatively high (and somewhat variable) turbidity measurements would be expected.
3. Table 2-2 units for bromide should be mg/L.

Cell: A1

Comment: 1049-SAS.xls 2/6/00 17:07

All curve fits reviewed and approved. See below for log of refit datasets.

Cell: C15

Comment: 1049-10-01 - Run 1 (MBAA) 2/6/00 16:31
Original value (CoefA0) = 0 New value = 1.335
Fewer than 6 points above MRL. Step function applied.

1049-10-01 - Run 1 (MBAA) 2/6/00 16:32
Original value (CoefA0) = 1.335 New value = 1.335
Fewer than 6 points above MRL. Step function applied.

Cell: D15

Comment: 1049-10-01 - Run 1 (MBAA) 2/6/00 16:31
Original value (CoefAf) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

1049-10-01 - Run 1 (MBAA) 2/6/00 16:32
Original value (CoefAf) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

Cell: E15

Comment: 1049-10-01 - Run 1 (MBAA) 2/6/00 16:31
Original value (CoefB) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

1049-10-01 - Run 1 (MBAA) 2/6/00 16:32
Original value (CoefB) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

Cell: F15

Comment: 1049-10-01 - Run 1 (MBAA) 2/6/00 16:31
Original value (CoefD) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

1049-10-01 - Run 1 (MBAA) 2/6/00 16:32
Original value (CoefD) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

Cell: J15

Comment: 1049-10-01 - Run 1 (MBAA) 2/6/00 16:31
Original value (S) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

1049-10-01 - Run 1 (MBAA) 2/6/00 16:32
Original value (S) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

Cell: K15

Comment: 1049-10-01 - Run 1 (MBAA) 2/6/00 16:31
Original value (t0) = 0 New value = 32.9845
Fewer than 6 points above MRL. Step function applied.

1049-10-01 - Run 1 (MBAA) 2/6/00 16:32
Original value (t0) = 32.9845 New value = 69.6977
Fewer than 6 points above MRL. Step function applied.

Cell: C18

Comment: 1049-10-01 - Run 1 (TCAA) 2/6/00 16:45
Original value (CoefA0) = 0 New value = -0.6086
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: D18

Comment: 1049-10-01 - Run 1 (TCAA) 2/6/00 16:45
Original value (CoefAf) = 0 New value = 10.1623
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: E18

Comment: 1049-10-01 - Run 1 (TCAA) 2/6/00 16:45
Original value (CoefB) = 0 New value = 31.0404
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: F18

Comment: 1049-10-01 - Run 1 (TCAA) 2/6/00 16:45
Original value (CoefD) = 0 New value = 0.0253
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: J18

Comment: 1049-10-01 - Run 1 (TCAA) 2/6/00 16:45
Original value (S) = 0 New value = 0
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: C40

Comment: 1049-10-02 - Run 3 (TCAA) 2/6/00 16:36
Original value (CoefA0) = 0 New value = 2.1654
Fewer than 6 points above MRL. Step function applied.

Cell: D40

Comment: 1049-10-02 - Run 3 (TCAA) 2/6/00 16:36
Original value (CoefAf) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

Cell: E40

Comment: 1049-10-02 - Run 3 (TCAA) 2/6/00 16:36
Original value (CoefB) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

Cell: F40

Comment: 1049-10-02 - Run 3 (TCAA) 2/6/00 16:36

Original value (CoefD) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

Cell: J40

Comment: 1049-10-02 - Run 3 (TCAA) 2/6/00 16:36
Original value (S) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

Cell: K40

Comment: 1049-10-02 - Run 3 (TCAA) 2/6/00 16:36
Original value (t0) = 0 New value = 35.9961
Fewer than 6 points above MRL. Step function applied.

Cell: C49

Comment: 1049-10-03 - Run 5 (CHBr3) 2/6/00 16:52
Original value (CoefA0) = 3.6225 New value = 18.4721
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: D49

Comment: 1049-10-03 - Run 5 (CHBr3) 2/6/00 16:52
Original value (CoefAf) = 68.1183 New value = 98.717
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: E49

Comment: 1049-10-03 - Run 5 (CHBr3) 2/6/00 16:52
Original value (CoefB) = 2.7319 New value = 12.3932
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: F49

Comment: 1049-10-03 - Run 5 (CHBr3) 2/6/00 16:52
Original value (CoefD) = 0.3634 New value = 0.2892
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: J49

Comment: 1049-10-03 - Run 5 (CHBr3) 2/6/00 16:52
Original value (S) = -1.1035 New value = -1.5883
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: C59

Comment: 1049-10-03 - Run 5 (MBAA) 2/6/00 16:50
Original value (CoefA0) = 1.0947 New value = 1.1623
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: D59

Comment: 1049-10-03 - Run 5 (MBAA) 2/6/00 16:50
Original value (CoefAf) = 0.6706 New value = 1.1779
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: E59

Comment: 1049-10-03 - Run 5 (MBAA) 2/6/00 16:50
Original value (CoefB) = 43.5437 New value = 19.9177

Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: F59

Comment: 1049-10-03 - Run 5 (MBAA) 2/6/00 16:50

Original value (CoefD) = 1.7159 New value = 0.3257

Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: J59

Comment: 1049-10-03 - Run 5 (MBAA) 2/6/00 16:50

Original value (S) = -0.0175 New value = -0.0273

Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: C60

Comment: 1049-10-03 - Run 5 (MCAA) 2/6/00 16:40

Original value (CoefA0) = 0 New value = 2.6028

Fewer than 6 points above MRL. Step function applied.

Cell: D60

Comment: 1049-10-03 - Run 5 (MCAA) 2/6/00 16:40

Original value (CoefAf) = 0 New value = 0

Fewer than 6 points above MRL. Step function applied.

Cell: E60

Comment: 1049-10-03 - Run 5 (MCAA) 2/6/00 16:40

Original value (CoefB) = 0 New value = 0

Fewer than 6 points above MRL. Step function applied.

Cell: F60

Comment: 1049-10-03 - Run 5 (MCAA) 2/6/00 16:40

Original value (CoefD) = 0 New value = 0

Fewer than 6 points above MRL. Step function applied.

Cell: J60

Comment: 1049-10-03 - Run 5 (MCAA) 2/6/00 16:40

Original value (S) = 0 New value = 0

Fewer than 6 points above MRL. Step function applied.

Cell: K60

Comment: 1049-10-03 - Run 5 (MCAA) 2/6/00 16:40

Original value (t0) = 0 New value = 49.319

Fewer than 6 points above MRL. Step function applied.

Cell: C71

Comment: 1049-10-04 - Run 7 (CHBr3) 2/6/00 16:56

Original value (CoefA0) = 0.2777 New value = 7.4099

Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: D71

Comment: 1049-10-04 - Run 7 (CHBr3) 2/6/00 16:56

Original value (CoefAf) = 36.768 New value = 95.4236

Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: E71

Comment: 1049-10-04 - Run 7 (CHBr3) 2/6/00 16:56
Original value (CoefB) = 10.642 New value = 81.3787
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: F71

Comment: 1049-10-04 - Run 7 (CHBr3) 2/6/00 16:56
Original value (CoefD) = 0.159 New value = 0.4723
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: J71

Comment: 1049-10-04 - Run 7 (CHBr3) 2/6/00 16:56
Original value (S) = -0.0681 New value = -0.7614
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: C74

Comment: 1049-10-04 - Run 7 (DBAA) 2/6/00 16:57
Original value (CoefA0) = 0 New value = 1.1053
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: D74

Comment: 1049-10-04 - Run 7 (DBAA) 2/6/00 16:57
Original value (CoefAf) = 11.978 New value = 11.6717
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: E74

Comment: 1049-10-04 - Run 7 (DBAA) 2/6/00 16:57
Original value (CoefB) = 10 New value = 54.4609
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: F74

Comment: 1049-10-04 - Run 7 (DBAA) 2/6/00 16:57
Original value (CoefD) = 0.15 New value = 0.5625
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: J74

Comment: 1049-10-04 - Run 7 (DBAA) 2/6/00 16:57
Original value (S) = 0 New value = -0.1181
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: C75

Comment: 1049-10-04 - Run 7 (DBCM) 2/6/00 16:55
Original value (CoefA0) = 0 New value = 0.9288
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: D75

Comment: 1049-10-04 - Run 7 (DBCM) 2/6/00 16:55
Original value (CoefAf) = 50.772 New value = 50.9427
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: E75

Comment: 1049-10-04 - Run 7 (DBCM) 2/6/00 16:55
Original value (CoefB) = 10 New value = 59.0423
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: F75

Comment: 1049-10-04 - Run 7 (DBCM) 2/6/00 16:55
Original value (CoefD) = 0.15 New value = 0.532
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: J75

Comment: 1049-10-04 - Run 7 (DBCM) 2/6/00 16:55
Original value (S) = 0 New value = -0.2224
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: C94

Comment: 1049-20-01 - Run 2 (CHCl3) 2/6/00 16:46
Original value (CoefA0) = 0 New value = -0.432
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: D94

Comment: 1049-20-01 - Run 2 (CHCl3) 2/6/00 16:46
Original value (CoefAf) = 0 New value = 6.956
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: E94

Comment: 1049-20-01 - Run 2 (CHCl3) 2/6/00 16:46
Original value (CoefB) = 0 New value = 21.7507
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: F94

Comment: 1049-20-01 - Run 2 (CHCl3) 2/6/00 16:46
Original value (CoefD) = 0 New value = 0.0196
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: J94

Comment: 1049-20-01 - Run 2 (CHCl3) 2/6/00 16:46
Original value (S) = 0 New value = 0
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: C98

Comment: 1049-20-01 - Run 2 (DCAA) 2/6/00 16:35
Original value (CoefA0) = 0 New value = 2.078
Fewer than 6 points above MRL. Step function applied.

1049-20-01 - Run 2 (DCAA) 2/6/00 16:47

Original value (CoefA0) = 2.078 New value = -0.1555

Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: D98

Comment: 1049-20-01 - Run 2 (DCAA) 2/6/00 16:35
Original value (CoefAf) = 0 New value = 0

Fewer than 6 points above MRL. Step function applied.

1049-20-01 - Run 2 (DCAA) 2/6/00 16:47

Original value (CoefAf) = 0 New value = 4.1005

Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: E98

Comment: 1049-20-01 - Run 2 (DCAA) 2/6/00 16:35

Original value (CoefB) = 0 New value = 0

Fewer than 6 points above MRL. Step function applied.

1049-20-01 - Run 2 (DCAA) 2/6/00 16:47

Original value (CoefB) = 0 New value = 20.8624

Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: F98

Comment: 1049-20-01 - Run 2 (DCAA) 2/6/00 16:35

Original value (CoefD) = 0 New value = 0

Fewer than 6 points above MRL. Step function applied.

1049-20-01 - Run 2 (DCAA) 2/6/00 16:47

Original value (CoefD) = 0 New value = 0.0165

Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: J98

Comment: 1049-20-01 - Run 2 (DCAA) 2/6/00 16:35

Original value (S) = 0 New value = 0

Fewer than 6 points above MRL. Step function applied.

1049-20-01 - Run 2 (DCAA) 2/6/00 16:47

Original value (S) = 0 New value = 0

Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: K98

Comment: 1049-20-01 - Run 2 (DCAA) 2/6/00 16:35

Original value (t0) = 0 New value = 130.5039

Fewer than 6 points above MRL. Step function applied.

1049-20-01 - Run 2 (DCAA) 2/6/00 16:47

Original value (t0) = 130.5039 New value = 0

Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: C103

Comment: 1049-20-01 - Run 2 (MBAA) 2/6/00 16:35

Original value (CoefA0) = 0 New value = 1.4437

Fewer than 6 points above MRL. Step function applied.

Cell: D103

Comment: 1049-20-01 - Run 2 (MBAA) 2/6/00 16:35

Original value (CoefAf) = 0 New value = 0

Fewer than 6 points above MRL. Step function applied.

Cell: E103

Comment: 1049-20-01 - Run 2 (MBAA) 2/6/00 16:35
Original value (CoefB) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

Cell: F103

Comment: 1049-20-01 - Run 2 (MBAA) 2/6/00 16:35
Original value (CoefD) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

Cell: J103

Comment: 1049-20-01 - Run 2 (MBAA) 2/6/00 16:35
Original value (S) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

Cell: K103

Comment: 1049-20-01 - Run 2 (MBAA) 2/6/00 16:35
Original value (t0) = 0 New value = 130.5039
Fewer than 6 points above MRL. Step function applied.

Cell: C115

Comment: 1049-20-02 - Run 4 (CHBr3) 2/6/00 16:48
Original value (CoefA0) = -3.8975 New value = -4.1516
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: D115

Comment: 1049-20-02 - Run 4 (CHBr3) 2/6/00 16:48
Original value (CoefAf) = 56.3628 New value = 56.9067
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: E115

Comment: 1049-20-02 - Run 4 (CHBr3) 2/6/00 16:48
Original value (CoefB) = 5.0955 New value = 5.2741
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: F115

Comment: 1049-20-02 - Run 4 (CHBr3) 2/6/00 16:48
Original value (CoefD) = 0.0444 New value = 0.0638
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: J115

Comment: 1049-20-02 - Run 4 (CHBr3) 2/6/00 16:48
Original value (S) = 0 New value = -0.2518
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: C126

Comment: 1049-20-02 - Run 4 (MCAA) 2/6/00 16:37
Original value (CoefA0) = 0 New value = 2.6942
Fewer than 6 points above MRL. Step function applied.

Cell: D126

Comment: 1049-20-02 - Run 4 (MCAA) 2/6/00 16:37
Original value (CoefAf) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

Cell: E126

Comment: 1049-20-02 - Run 4 (MCAA) 2/6/00 16:37
Original value (CoefB) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

Cell: F126

Comment: 1049-20-02 - Run 4 (MCAA) 2/6/00 16:37
Original value (CoefD) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

Cell: J126

Comment: 1049-20-02 - Run 4 (MCAA) 2/6/00 16:37
Original value (S) = 0 New value = 0
Fewer than 6 points above MRL. Step function applied.

Cell: K126

Comment: 1049-20-02 - Run 4 (MCAA) 2/6/00 16:37
Original value (t0) = 0 New value = 118.2781
Fewer than 6 points above MRL. Step function applied.

Cell: C128

Comment: 1049-20-02 - Run 4 (TCAA) 2/6/00 16:49
Original value (CoefA0) = 0 New value = -0.7966
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: D128

Comment: 1049-20-02 - Run 4 (TCAA) 2/6/00 16:49
Original value (CoefAf) = 0 New value = 6.4614
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: E128

Comment: 1049-20-02 - Run 4 (TCAA) 2/6/00 16:49
Original value (CoefB) = 0 New value = 20.9827
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: F128

Comment: 1049-20-02 - Run 4 (TCAA) 2/6/00 16:49
Original value (CoefD) = 0 New value = 0.0282
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: J128

Comment: 1049-20-02 - Run 4 (TCAA) 2/6/00 16:49
Original value (S) = 0 New value = 0
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: C137

Comment: 1049-20-03 - Run 6 (CHBr3) 2/6/00 16:53
Original value (CoefA0) = 2.5638 New value = 9.6614
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: D137

Comment: 1049-20-03 - Run 6 (CHBr3) 2/6/00 16:53
Original value (CoefAf) = 126.4335 New value = 501.0278
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: E137

Comment: 1049-20-03 - Run 6 (CHBr3) 2/6/00 16:53
Original value (CoefB) = 17.6428 New value = 364.1904
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: F137

Comment: 1049-20-03 - Run 6 (CHBr3) 2/6/00 16:53
Original value (CoefD) = 0.0645 New value = 0.1167
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: J137

Comment: 1049-20-03 - Run 6 (CHBr3) 2/6/00 16:53
Original value (S) = 0 New value = -0.7303
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: C148

Comment: 1049-20-03 - Run 6 (MCAA) 2/6/00 16:54
Original value (CoefA0) = 0 New value = -0.6579
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: D148

Comment: 1049-20-03 - Run 6 (MCAA) 2/6/00 16:54
Original value (CoefAf) = 0 New value = 7.6566
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: E148

Comment: 1049-20-03 - Run 6 (MCAA) 2/6/00 16:54
Original value (CoefB) = 0 New value = 32.8
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: F148

Comment: 1049-20-03 - Run 6 (MCAA) 2/6/00 16:54
Original value (CoefD) = 0 New value = 0.032
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: J148

Comment: 1049-20-03 - Run 6 (MCAA) 2/6/00 16:54
Original value (S) = 0 New value = 0
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: C159

Comment: 1049-20-04 - Run 8 (CHBr3) 2/6/00 16:58

Original value (CoefA0) = 1.3614 New value = 4.6003
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: D159

Comment: 1049-20-04 - Run 8 (CHBr3) 2/6/00 16:58
Original value (CoefAf) = 25.9692 New value = 35.2257
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: E159

Comment: 1049-20-04 - Run 8 (CHBr3) 2/6/00 16:58
Original value (CoefB) = 11.067 New value = 136.9665
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: F159

Comment: 1049-20-04 - Run 8 (CHBr3) 2/6/00 16:58
Original value (CoefD) = 0.0911 New value = 0.2272
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: J159

Comment: 1049-20-04 - Run 8 (CHBr3) 2/6/00 16:58
Original value (S) = -0.1824 New value = -0.5086
Poor peak curve fit. Data was refit by iterative curve fit procedure.

Cell: C170

Comment: 1049-20-04 - Run 8 (MCAA) 2/6/00 17:00
Original value (CoefA0) = 0 New value = -0.162
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: D170

Comment: 1049-20-04 - Run 8 (MCAA) 2/6/00 17:00
Original value (CoefAf) = 0 New value = 3.3966
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: E170

Comment: 1049-20-04 - Run 8 (MCAA) 2/6/00 17:00
Original value (CoefB) = 0 New value = 841.8339
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: F170

Comment: 1049-20-04 - Run 8 (MCAA) 2/6/00 17:00
Original value (CoefD) = 0 New value = 0.119
Fewer than 6 points above MRL. Logistic function (type 1) applied.

Cell: J170

Comment: 1049-20-04 - Run 8 (MCAA) 2/6/00 17:00
Original value (S) = 0 New value = 0
Fewer than 6 points above MRL. Logistic function (type 1) applied.

ICR Information

ID / ICR#: FL 3050223 / 282
 ICR Contact: Ed Wegerif
 Phone No.: 407/639-7650
 Period: 5/19/98 - 6/24/98 (35 B-S days)

Design Information

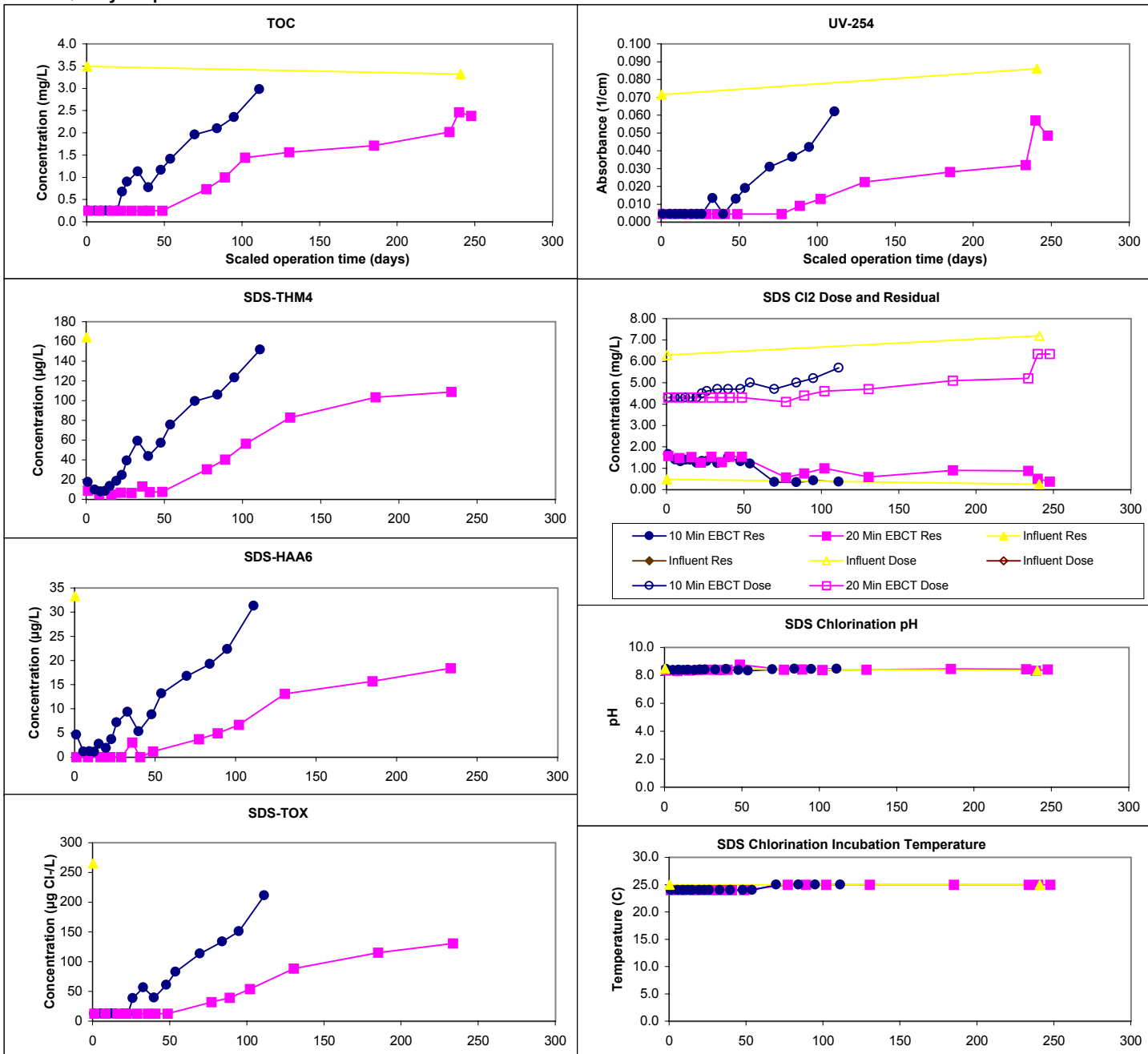
Design TOC: 3.9 mg/L
 Col Diameter: 8.0 mm
 Min Reynolds#: 0.50
 Full-Scale Temp: 24.2 C

Full-Scale GAC Size: 8x30 Bituminous
 Bench-Scale GAC Size: 60x80
 Scaling Factor: 6.88
 Meas Dry Bed Density: 0.56 g/cm3

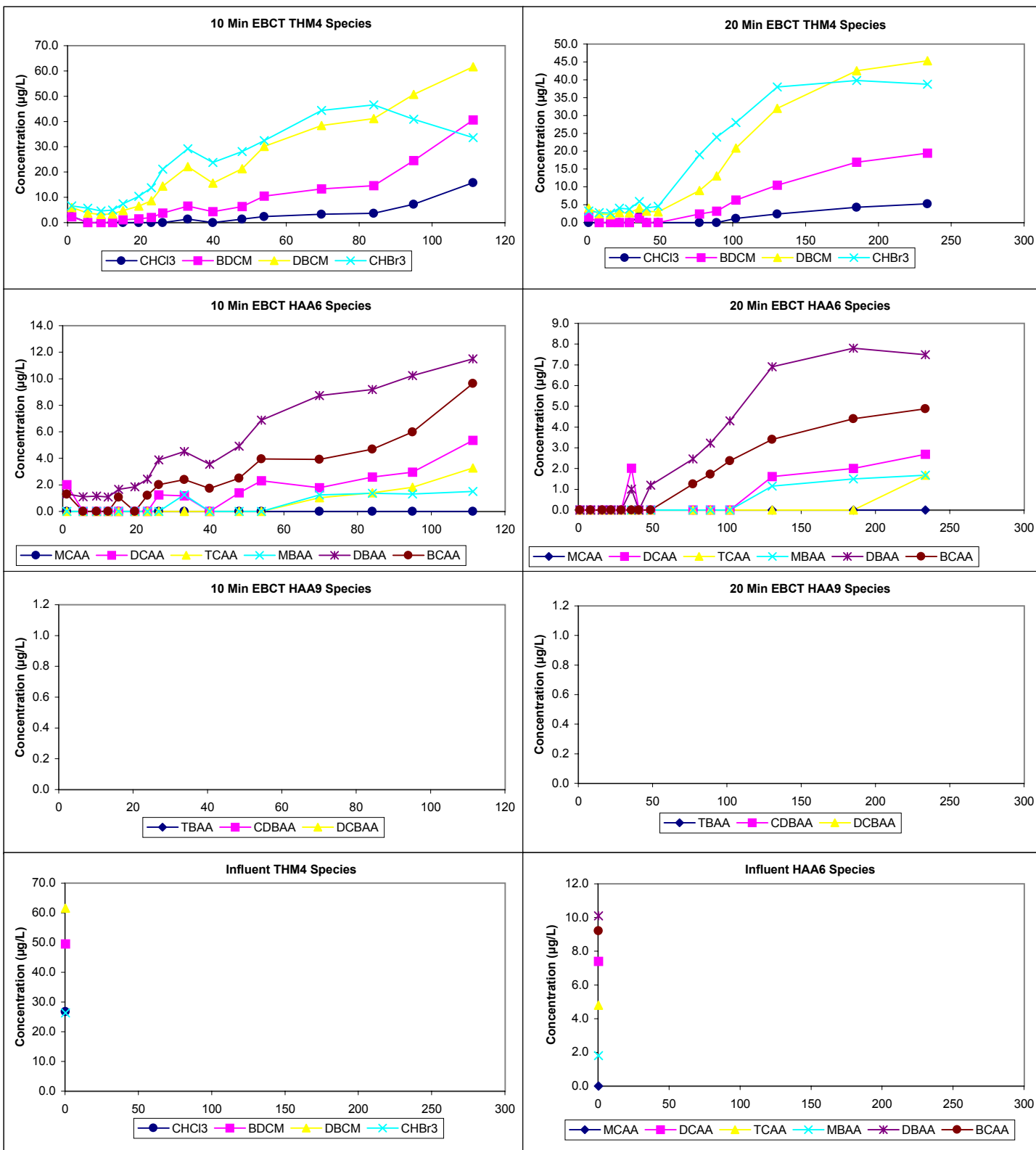
Water Quality Summary

Influent	Influent				Influent				Res (0)	Mean	SD	Count	Min/Max
	Mean	SD/RD	Count	Min/Max	Mean	SD/RD	Count	Min/Max					
TOC	3.4	0.2	2	3.3 - 3.5									
pH	8.3	0.4	2	8.1 - 8.5									
UV254	0.079	0.015	2	0.072 - 0.086									
SUVA	2.32	0.54	2	2.05 - 2.59									
Bromide	330	3	2	329 - 332									
SDS-TOX	265	0	1	265 - 265									
SDS-THM4	164	0	1	164 - 164									
SDS-HAA6	33	0	1	33 - 33									
Effluent	10 Min EBCT (16 B-S days)				20 Min EBCT (36 B-S days)				Chart Legend:	<div><div></div>10 Min EBCT</div> <div><div></div>20 Min EBCT</div> <div><div></div>Influent</div> <div><div></div>Influent</div>			
Effluent pH	8.1	0.4	16	7.5 - 9.0	8.2	0.3	16	7.4 - 8.7					
Effluent Temp	20.0	0.0	16	20.0 - 20.0	20.0	0.0	16	20.0 - 20.0					

Water Quality Graphs



Water Quality Graphs (Continued)



ICR Information

ID / ICR#: FL 3050223 / 282
 ICR Contact: Ed Wegerif
 Phone No.: 407/639-7650
 Period: 8/3/98 - 8/30/98 (27 B-S days)

Design Information

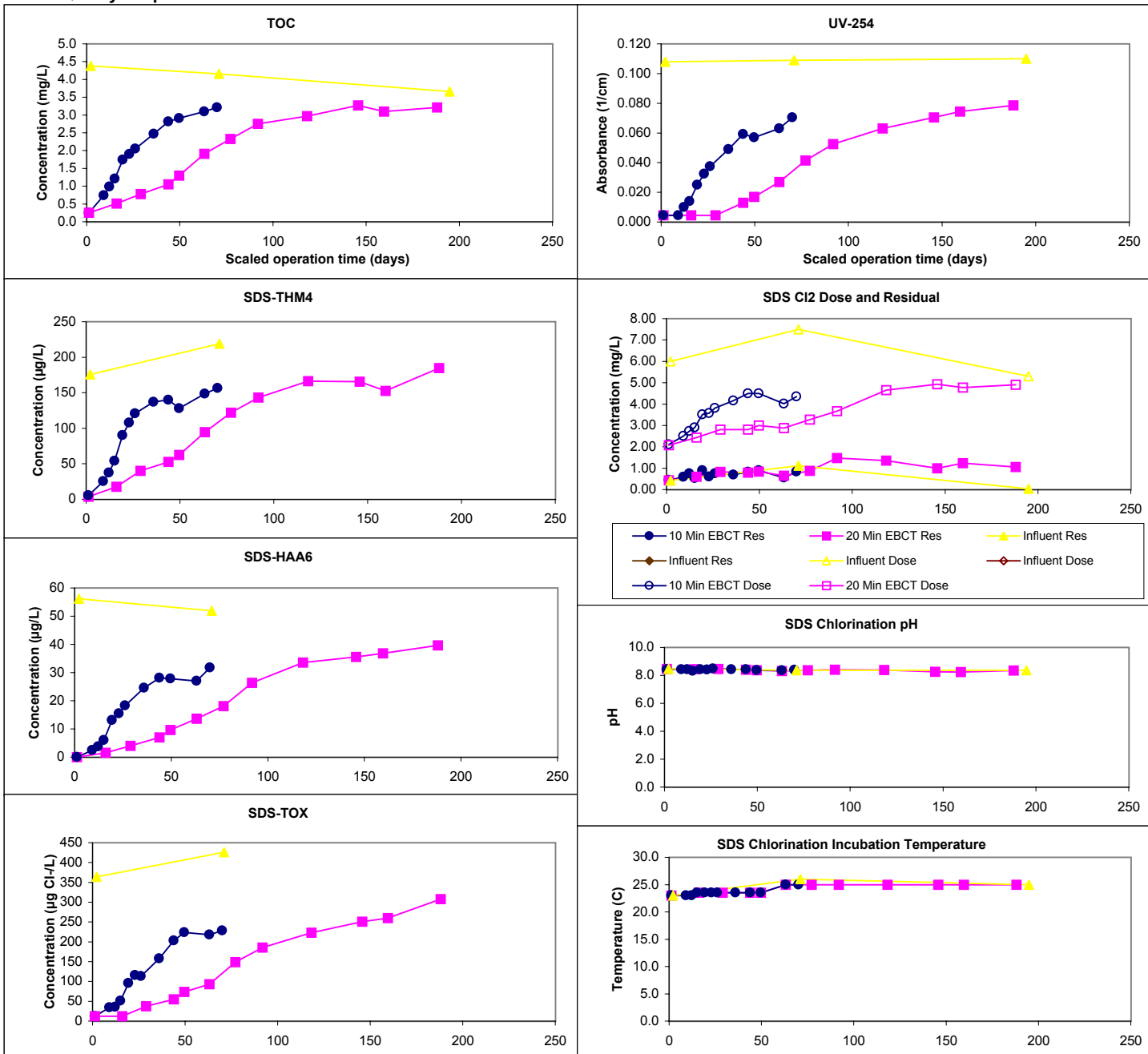
Design TOC: 4.8 mg/L
 Col Diameter: 8.0 mm
 Min Reynolds#: 0.50
 Full-Scale Temp: 26.8 C

Full-Scale GAC Size: 8x30 Bituminous
 Bench-Scale GAC Size: 60x80
 Scaling Factor: 6.88
 Meas Dry Bed Density: 0.46 g/cm3

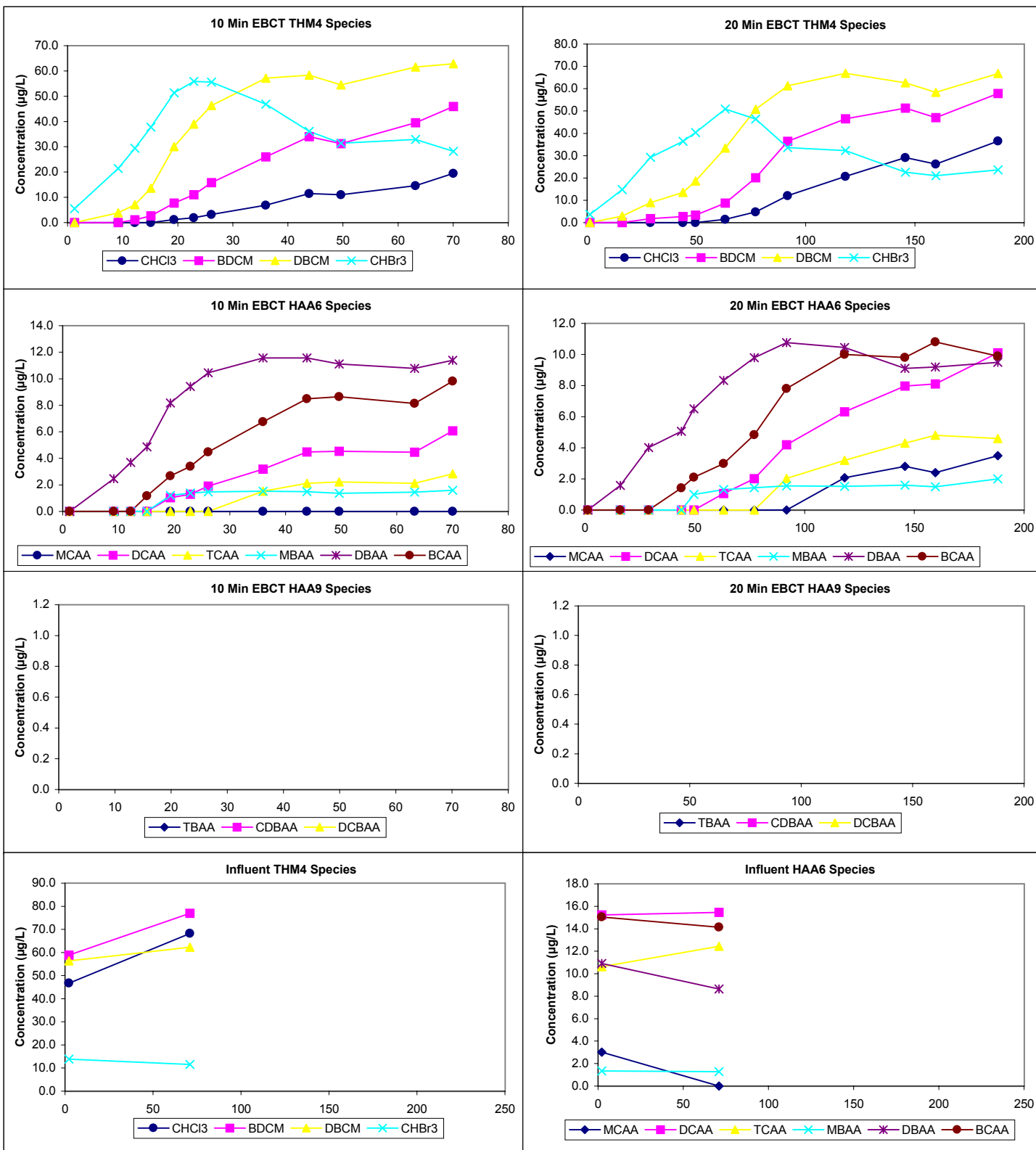
Water Quality Summary

Influent	Influent				Influent				Res (1)	Mean	SD	Count	Min/Max
	Mean	SD/RD	Count	Min/Max	Mean	SD/RD	Count	Min/Max					
TOC	4.1	0.4	3	3.7 - 4.4									
pH	8.4	0.5	3	7.9 - 8.9					Temp	24.1	0.9	27	23.0 - 26.0
UV254	0.109	0.001	3	0.108 - 0.110					pH	8.4	0.1	27	8.2 - 8.5
SUVA	2.70	0.28	3	2.47 - 3.01					Time	46.7	2.3	27	43.2 - 49.2
Bromide	323	16	2	315 - 331					Comments:				
SDS-TOX	395	62	2	364 - 426									
SDS-THM4	197	43	2	176 - 219									
SDS-HAA6	54	4	2	52 - 56									
Effluent	10 Min EBCT (10 B-S days)				20 Min EBCT (27 B-S days)				Chart Legend:	<div><div><div></div><div>10 Min EBCT</div></div><div><div></div><div>20 Min EBCT</div></div><div><div></div><div>Influent</div></div><div><div></div><div>Influent</div></div></div>			
Effluent pH	8.4	0.3	12	7.7 - 8.7	8.3	0.3	12	7.5 - 8.9					
Effluent Temp	20.0	0.0	12	20.0 - 20.0	20.0	0.0	12	20.0 - 20.0					

Water Quality Graphs



Water Quality Graphs (Continued)



ICR Information

ID / ICR#: FL 3050223 / 282
 ICR Contact: Ed Wegerif
 Phone No.: 407/639-7650
 Period: 10/16/98 - 11/4/98 (19 B-S days)

Design Information

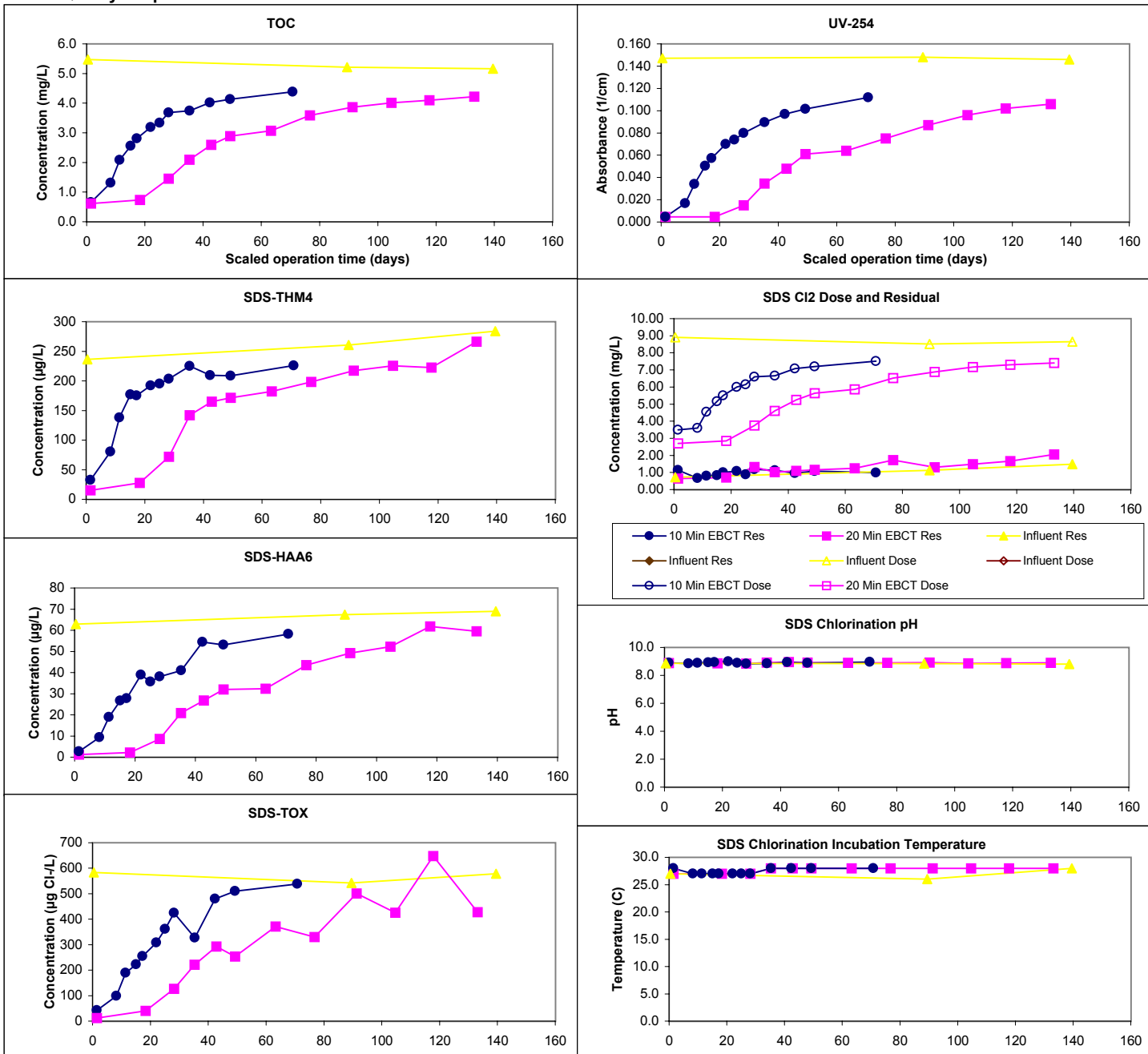
Design TOC: 5.4 mg/L
 Col Diameter: 8.0 mm
 Min Reynolds#: 0.50
 Full-Scale Temp: 26.8 C

Full-Scale GAC Size: 8x30 Bituminous
 Bench-Scale GAC Size: 60x80
 Scaling Factor: 6.88
 Meas Dry Bed Density: 0.44 g/cm3

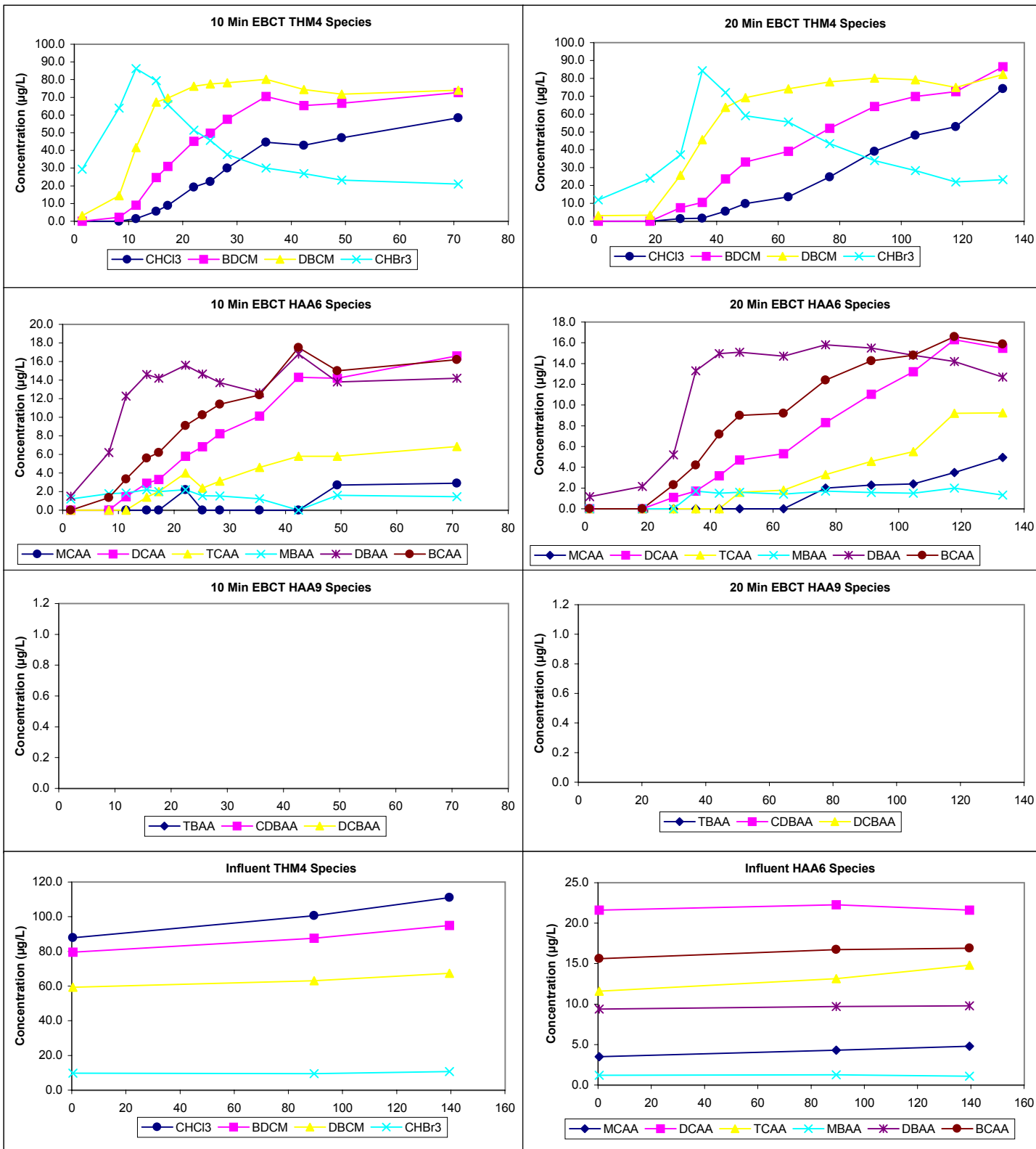
Water Quality Summary

Influent	Influent				Influent	Influent				Res (0)	Mean	SD	Count	Min/Max
	Mean	SD/RD	Count	Min/Max		Mean	SD/RD	Count	Min/Max					
TOC	5.3	0.2	3	5.2 - 5.5										
pH	8.4	0.0	3	8.4 - 8.5										
UV254	0.147	0.001	3	0.146 - 0.148										
SUVA	2.79	0.09	3	2.69 - 2.84										
Bromide	367	11	2	361 - 372										
SDS-TOX	568	22	3	543 - 583										
SDS-THM4	260	24	3	237 - 284										
SDS-HAA6	66	3	3	63 - 69										
Effluent	10 Min EBCT (10 B-S days)				20 Min EBCT (19 B-S days)				Chart Legend:	<div><div><div></div><div>10 Min EBCT</div></div><div><div></div><div>20 Min EBCT</div></div><div><div></div><div>Influent</div></div><div><div></div><div>Influent</div></div></div>				
	Effluent pH	8.4	0.1	12	8.2 - 8.5	8.4	0.1	12						8.3 - 8.5
Effluent Temp	20.0	0.0	12	20.0 - 20.0	20.0	0.0	12	20.0 - 20.0						

Water Quality Graphs



Water Quality Graphs (Continued)



ICR Information

ID / ICR#: FL 3050223 / 282
 ICR Contact: Ed Wegerif
 Phone No.: 407/639-7650
 Period: 2/2/99 - 2/18/99 (16 B-S days)

Design Information

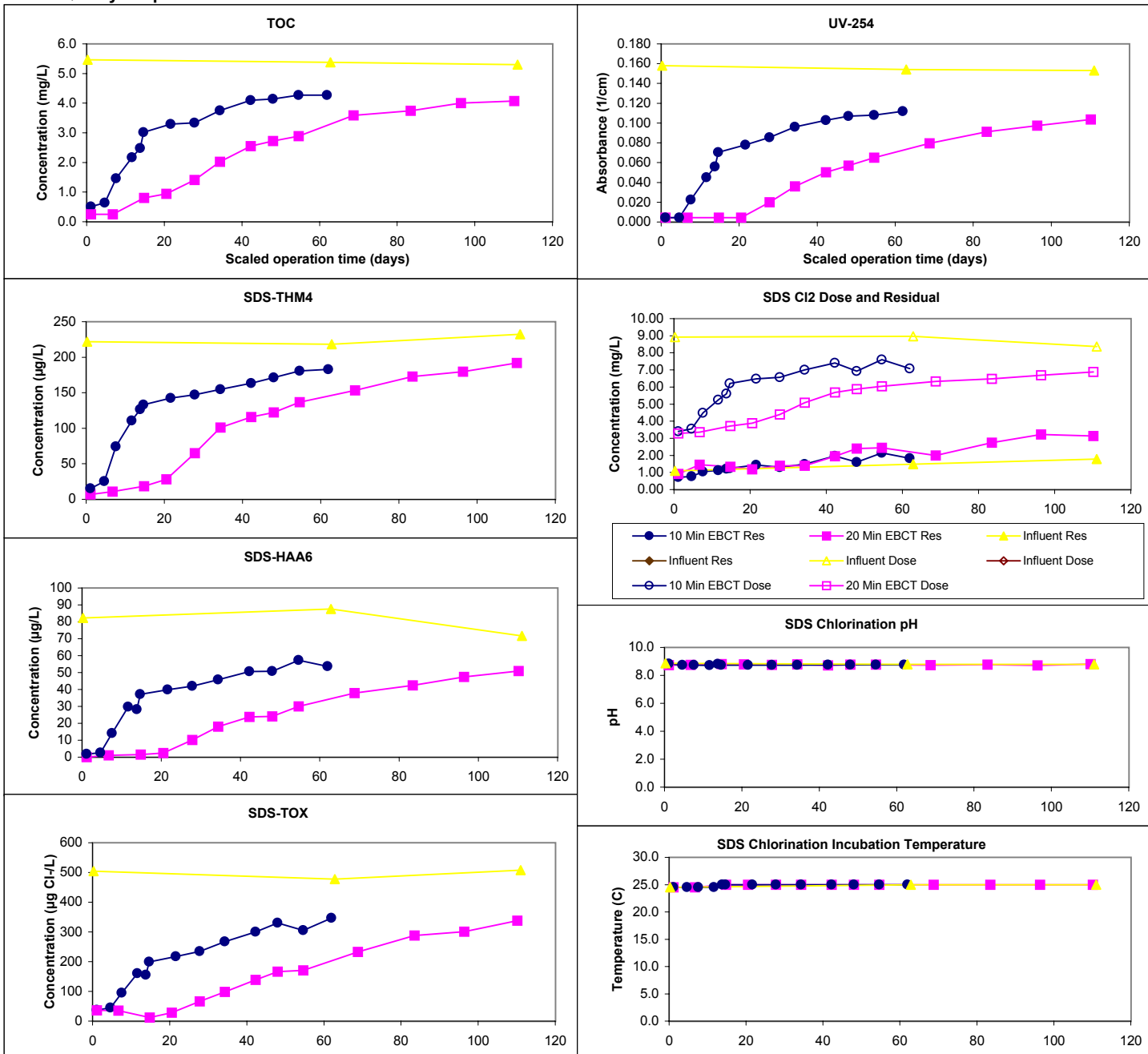
Design TOC: 5.2 mg/L
 Col Diameter: 8.0 mm
 Min Reynolds#: 0.50
 Full-Scale Temp: 24.0 C

Full-Scale GAC Size: 8x30 Bituminous
 Bench-Scale GAC Size: 60x80
 Scaling Factor: 6.88
 Meas Dry Bed Density: 0.44 g/cm3

Water Quality Summary

Influent	Influent				Influent	Influent	Influent	Influent	Cumulative SDS Conditions			
	Mean	SD/RD	Count	Min/Max	Mean	SD/RD	Count	Min/Max				
TOC	5.4	0.1	3	5.3 - 5.5					Res (0)	1.65	0.65	29 0.72 - 3.22
pH	8.6	0.1	3	8.5 - 8.8					Temp	24.9	0.2	29 24.5 - 25.0
UV254	0.155	0.003	3	0.153 - 0.158					pH	8.8	0.0	29 8.7 - 8.9
SUVA	2.88	0.02	3	2.86 - 2.89					Time	47.9	0.7	29 47.1 - 48.8
Bromide	276	13	2	270 - 283					Comments:			
SDS-TOX	497	16	3	478 - 508								
SDS-THM4	224	7	3	218 - 232					Chart Legend:			
SDS-HAA6	80	8	3	72 - 88								
Effluent				10 Min EBCT (9 B-S days)				20 Min EBCT (16 B-S days)				Chart Legend:
Effluent pH	8.4	0.2	13	8.0 - 8.7	8.4	0.3	13	7.8 - 8.9				
Effluent Temp	21.2	0.4	13	21.0 - 22.0	21.2	0.4	13	21.0 - 22.0				

Water Quality Graphs



Water Quality Graphs (Continued)

