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In re Klamath River (Klamath Tribe)

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12-4-2009

Ex. 277-US-440

Mike Gagner
R2 Resource Consultants

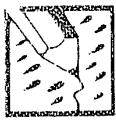
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WM-8



"*Fit in the Rain*"
ALL-WEATHER
LEVEL BOOK
No. 310F

4 / ~~14~~ / 04



ALL-WEATHER
LEVEL BOOK

Name Mike Gagner
Address 82 Resource Consultant
Address 15250 NE 95th
Phone 425/555-1283
Phone Redmond WA 98052

Project 1418.01 PHABSIM Data

This book is printed on "Rite in the Rain" All-Weather Writing Paper - A unique paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather. For best results, use a pencil or an all-weather pen.

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Page Pattern		Polydura Cover	FabriTec Cover	
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Yum - 3

May 1904

VM-8 Photo Log 04/14/01

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Description

Cross: Mr. Wagner
A. Very bright

	Time	9:45	12:00
S. 6		0.85	0.85

Equipment: Nikon Level SN:
Marsh Mc Birney Model 2000
SN: 2075068

Direction: Turn right onto FS Rd 449 after crossing Klamath Marsh on Silver Ln

24	leaving d's second ride unit	
23	, L → RT across TR-2	
22	leaving w/s at picke unit	

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THE JOURNAL OF CLIMATE

04/13/04

WM - 8 Sample Unit Selection

Random #S: 1, 2

Pool 2100 X . 2 = 210 unit #1
Glide 2100 X . 2 = 420 unit #3

glide down - 9
pool / glide down - 9

(pool)

5, 48 105.48

6. 72 98.76

TR-2 (pool)

6. 54 98.94

TR-3 (pool)

6. 64 98.84

TR-1 (glide)

6. 87 98.61

Pool Unit 60' long

60 X . 2 = 12'

60 X . 4 = 24'

measured w/s from start of unit

60 X . 8 = 48'

TR-2 glide

5. 76 99.72

TR-3 glide

5. 72 99.76

Glide/run unit 265' long

TR-3 glide 6. 34 106.10

~~92.42~~

6. 38 99.72

265 X . 2 = 53' measured off from start of unit

TR-2 glide

5. 61 106.49

265 X . 4 = 106' measured off from start of unit

TR-1 glide

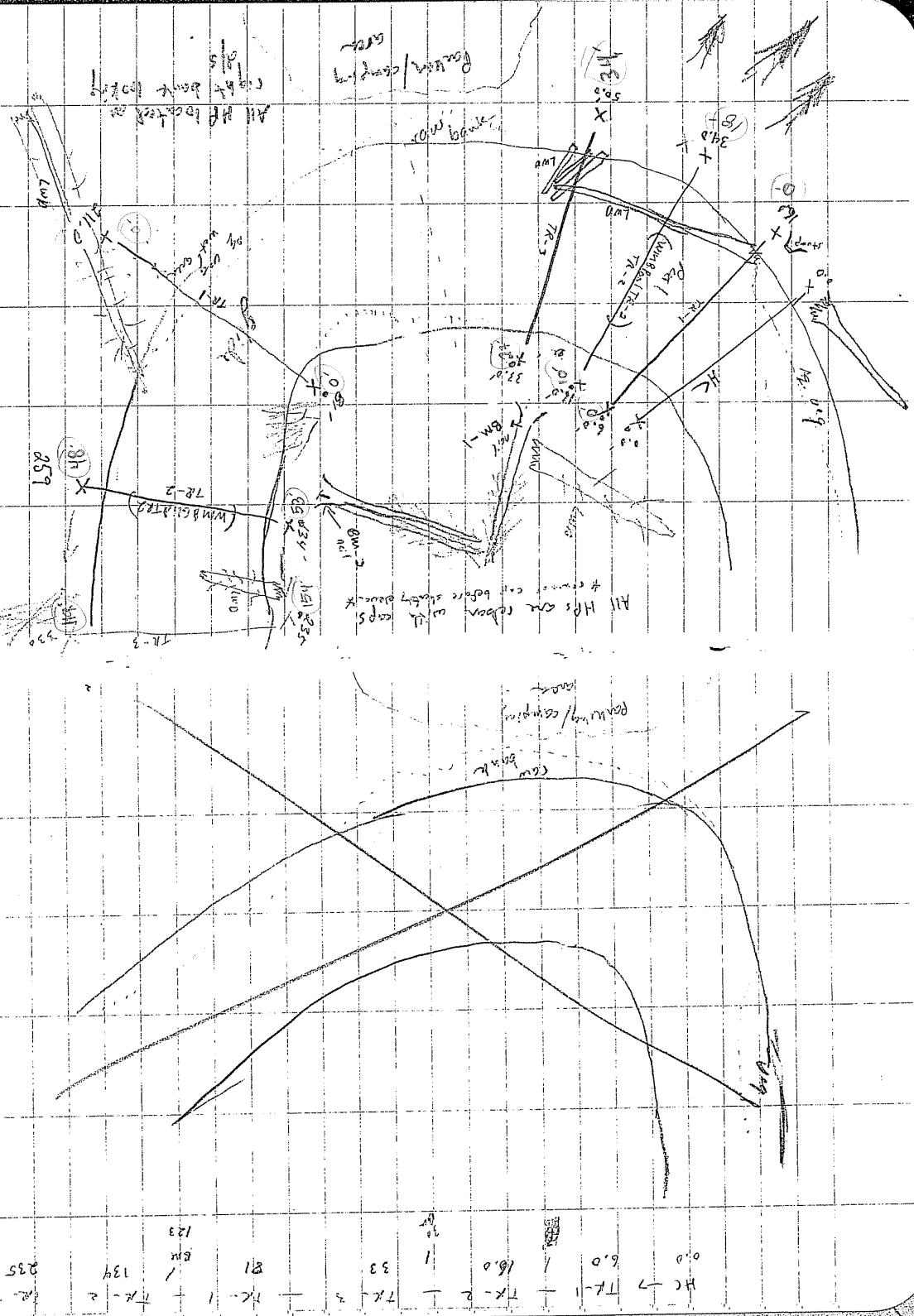
7. 50 98.60

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Glade Brook Unit Map 04/15/04

04/15/04

WM-8
Dr. A. Mc
pool



WWM-Q Discharge Notes 04/15/09

STA Depth Vel

0.0 edas

0.60 0.0 top / velocity back

0.70 0.0

1.50 0.0

1.90 -0.05 back adon / top

2.10 -0.05

2.10 0.0

2.30 0.0

2.30 0.0

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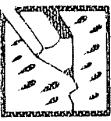
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WIN - 8



"Plot in the Rain"
ALL-WEATHER
LEVEL BOOK
No. 310 F

6/26/64

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"Rite in the Rain"
ALL-WEATHER WRITING PAPER

ALL-WEATHER LEVEL BOOK

Name Mike Gagné
R2 Resource Consultants
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Redmond WA 98052
Phone 425/556-1283

Project 1418.01 PHABSTM Data

This book is printed on "Rite in the Rain" All-Weather Writing Paper - A unique paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather. For best results, use a pencil or an all-weather pen.

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POOR | GI | DE

REV-1 100P SUDANIC 1970-1971

P-POOL
G-SUITES

6/26/04

STA	BS	HIT	FS	EL-V	P0D
P044	6.03	106.03		100.00	(P0D)

STA	BSS	HT	FS	ELV	2010
TR2(5)		106.12	6.40		99.72

7.26 98.77

7.51 98.61
7.51 98.61

TR 2 (P) 7.09 98.94

۱۲۳ (پ)

$\pi_{R3}(p)$ 7.19 48.84

TR22(p) 4.17 98.95

198.61
7.42
 $\pi_{K_1}(6)$

122(p)

ANSWER

Bunlej

6.27 349.16
TR3(5)

Page WCE-Left

PSM 2(6) 5.53 108.50 (6/10/2)

10.10 6.02

100.50

10.13 95.99

13M₂(g) 5.62 156.12

12.00 46.01 1.93

6.34 44.46
K3G)

9.9 + 96.15

Up stream down stream of what?

18.6.17 d, +C

WSE upstream

CROSS SECTION PROFILE

HYDRAULIC CONTROL

STA	DEPTH	DAM	SURF	%	CORL	INSTREAM COVER
26.6	0.72	Sand	veg	00		
28.5	1.05	Sand	veg	80		
30.5	1.04	Sand		100		
32.5	1.36	Sand		100		
34.5	1.35	Sand		100		
36.5	1.35	Sand		100		
38.5	1.35	Sand	veg	90		
40.5	1.86	Sand	veg	90		
41.6	1.96	Sand		100		
43.0	1.91	Sand	veg	80		
44.5	1.84	Sand	veg	70		
46.5	1.16	Sand	veg	70		
48.5	1.64	Sand	veg	80		
50.0	2.03	Sand		100		
51.5	2.22	Sand		100		
53.5	2.25	Sand	veg	80		
55.0	2.45	Sand	veg	70		
56.5	2.22	Sand	veg	70		
58.5	2.07	Sand	veg	90		
60.5	1.71	Sand	veg	80		
62.5	1.22	Sand	veg	60		
64.5	0.98	Silt	veg	60		
66.5	0.82	Silt	veg	60		
68.5	0.33	Silt	veg	70		
70.2	0	Silt	veg	0		

INSTREAM COVER
VEGETATION
WATERLINE
WATERLINE
WATERLINE
WATERLINE
LINE

**HYDRAULIC CONTROL
CROSS SECTIONAL PROFILE**

STA	BS	HIT	ELEV	RWD	DOW	SUB	%G
-9.0		106.12	6.74	99.38		veg	
1.0		7.59	98.53			sand	90
(2.0) \leftarrow 0 ft st		9.20	96.92			sand	90
3.5 \leftarrow 2 Order		7.88	98.24			sand	90
6.8		8.52	97.60			sand	90
8.7		8.44	97.68			sand	90
20.0		9.17	96.95			sand	90
25.6		9.68	96.44			sand	90
26.1		10.09				veg	
70.3		10.10	96.02			veg	70
72.4		8.71	97.41			veg	80
74.0		7.50	98.62			veg	80
75.7		6.91	99.21			sand	80
76.4		5.88	100.30			sand	70
90.4 *		5.35	100.77			veg	

6/26/34

COMMENTS

RWP-10

RWP

R

POOL TR 1

* Estimated

DISCHARGE	STATION	DEPTH	VEL	SURVEY	CUM	STA	DEPTH	VEL	BORN	SUB	% SUB	CAM
26.6	0	0	0	Veget	100	KWE Instream Cover	66.5	1.2	0.03*	silt	70	veg
27.0	0.4	0.02*	Sand	Veget	60	68.5	0.28	0.01	sand	gravel	80	sand
27.5	1.0	0.29	Sand	Veget	100	69.5	0	0	silt	veg	90	LWE
28.5	0.92	0.12	Sand	Veget	70	Instream Cover	90					
30.5	0.82	0.56	Sand	Veget	90							
32.5	0.93	0.93	Sand	Veget	100							
34.5	1.12	1.03	Sand	Veget	100							
36.0	1.38	1.08	Sand	Veget	100							
38.0	1.55	1.07	Sand	Veget	100							
40.0	1.1	0.99	Sand	Veget	100							
42.0	1.78	1.04	Sand	Veget	100							
44.0	2.02	0.95	Sand	Veget	100							
46.0	1.95	0.72	Sand	Veget	100							
48.0	2.05	0.88	Sand	Veget	80							
49.5	1.93	0.94	Sand	Veget	60							
51.5	2.6	0.64/1.07	Sand	Veget	80							
53.0	2.77	0.55/6.7	Sand	Veget	80							
54.5	1.18	0.16	Sand	Veget	60	Avg veg						
56.5	2.35	0.36	Sand	Veget	80							
58.5	1.88	0.13	Silt	Veget	60	Instream Cover						
60.5	1.5	0.02*	Silt	Veget	60	stream Cover						
62.5	1.45	0.14	Silt	Veget	60	wetland Cover						
64.5	1.35	0.15	Silt	Veget	70	wetland Cover						

Pool 7-2 * ESTIMATED

DISCHARGE SURVEY										Conc.		
STA	DEPTH	VEL	DAM	SUS	SLG	CORR	STA	DEPTH	VEL	BORN	SUR	% CONC
31.6	0	0	Veg	Sand	90	RNE	32.5	0.5*	sand	90	Instream	60
32.5	1.02	0.05*	sand	Veg	80	Corr	33.0	0.53	sand	Veg	72.5	0.22
33.0	1.22	0.53	sand	Veg	90	LWD ~4"	36.0	0.70	0.05*	sand	73.5	0
36.0	0.73	0.66	sand	Veg	90	LWD at 36.5	37.1	0.73	0.66	sand	87.7	
38.5	1.12	0.82	sand	Veg	90		40.5	1.45	0.92	sand	100	
40.5	1.45	1.0	sand		100		42.5	1.63	1.0	sand	100	
44.5	1.75	0.9	sand		100		46.5	2.57	0.74 / 0.99	sand	90	
46.5	2.57	0.74 / 0.99	sand		90		48.0	2.88	0.48 / 1.03	sand	70	
48.0	2.88	0.48 / 1.03	sand		70		49.5	2.88	0.04 / 0.94	sand	70	
49.5	2.88	0.04 / 0.94	sand		70		50.7	2.5	0.04 / 0.89	sand	90	
50.7	2.5	0.04 / 0.89	sand		90		52.0	2.75	0.22 - 0.99	sand	70	
52.0	2.75	0.22 - 0.99	sand		70		54.0	2.88	0.8 / 1.13	sand	70	
54.0	2.88	0.8 / 1.13	sand		70		56.0	2.65	0.56 / 1.14	sand	90	
56.0	2.65	0.56 / 1.14	sand		90		58.0	2.48	0.84	sand	100	
58.0	2.48	0.84	sand		100		59.0	2.3	0.63	sand	90	
59.0	2.3	0.63	sand		90		61.0	1.65	0.27	silt	70	
61.0	1.65	0.27	silt		70		63.0	1.5	0.14	silt	70	
63.0	1.5	0.14	silt		70		65.0	1.35	0.05*	silt	70	
65.0	1.35	0.05*	silt		70		67.0	1.15	0.05*	silt	70	
67.0	1.15	0.05*	silt		70		69.	0.7	0.03*	silt	70	
69.	0.7	0.03*	silt		70						west stream	

log from 69.8' to 70.8'

POOL TR 3

CROSS SECTN ON THE FEB 14, 2004

STA	BS	H.I.	FS	ELV	POD	DOM	SUB	%S	COMMENTS
-26		106.12	6.63	99.49		Veg	sand	80	RWP = 27
1.0			7.70	98.42		Veg	sand	80	RWP
4.7			8.30	97.82		Veg	sand	90	
14.0			8.14	97.98		Veg	sand	90	
16.0			8.45	97.62		Veg	sand	90	
22.0			8.61	97.51		Veg	sand	90	
26.0			9.15	96.97		Veg	sand	70	
31.0			9.44	96.68		Veg	sand	100	
35.0			9.58	96.54		Veg	sand	100	
36.6			9.86	96.26		Veg	sand	90	RWE
36.8			10.07	96.05		Veg	sand	90	RWE
			10.08	96.04					RWE
			10.07	96.05					RWE
			10.07	96.05					LWS
			9.50	96.62		Silt	veg	90	
			8.14	97.98		Silt	veg	80	
			8.06	100.06		Veg	sand	80	
			5.57	100.55		Veg	sand	70	
			5.85	100.27		Veg	sand	70	
			5.65	100.47		Veg	sand	80	
			5.26	100.96		Veg	sand	80	
			77.7						LWP
			79.1						LWP + 1' *EST.
			81.3						
			83.8						
			85.5						
			86.7						
			89.4						
			106.4	X					
			106.9						

GLIPE TR 1 * ESTIMATED

DISCHARGE SURVEY 6/26/04

STA	DEPTH	VEL	DOM	SUB	%	COM	STA	DEPTH	VEL	DOM	SUB	%	COM
12.9	0	0	veg	silt	80	RWE	50.6	0.2	0	veg	silt	84	wet
14.0	0.85	0.28	sand	silt	80	bottom	51.3	0.2	0	veg	silt	70	wet edge
16.0	1.23	0.95	sand	silt	80	Gravel	52.1	0.3	0	veg	silt	70	
18.0	1.25	0.83	sand	silt	80	-	52.3	0.0	0.3	veg	silt	70	
20.0	1.4	0.38	sand	silt	80	-	53.3	0	0.3	veg	silt	70	LWD
22.0	1.52	0.03*	sand	silt	60	-	-	-	-	veg	silt	70	
24.0	1.72	0.1*	sand	silt	60	-	-	-	-	veg	silt	70	
26.0	2.1	0.95	sand	silt	60	-	-	-	-	veg	silt	70	
28.0	2.4	1.18	sand	silt	60	-	-	-	-	veg	silt	70	LWD
30.0	2.18	1.65	sand	silt	60	-	-	-	-	veg	silt	70	
31.5	1.55	1.40	sand	silt	60	-	-	-	-	veg	silt	70	
33.2	1.67	1.15	sand	silt	60	-	-	-	-	veg	silt	70	
35.3	2.05	1.20	sand	silt	60	-	-	-	-	veg	silt	70	
36.4	1.9	0.99	sand	silt	60	-	-	-	-	veg	silt	70	
37.4	2.35	1.05	sand	silt	60	-	-	-	-	veg	silt	70	
38.6	LWD	(not out of order)	sand	silt	90	-	-	-	-	veg	silt	70	
38.5	2.17	0.74	sand	silt	90	-	-	-	-	veg	silt	70	
40.0	2.25	0.28	sand	silt	90	-	-	-	-	veg	silt	70	
41.0	1.55	0.29	sand	silt	70	-	-	-	-	veg	silt	70	
44.0	1.67	0.05*	silt	silt	70	-	-	-	-	veg	silt	70	
45.0	1.3	0.02*	silt	silt	70	-	-	-	-	veg	silt	70	
48.0	0.72	0	silt	silt	70	-	-	-	-	veg	silt	70	
50.0	0.63	0	silt	silt	70	-	-	-	-	veg	silt	70	

GLIDE TR 2 *ESTIMATED*

DISCHARGE SURVEY 6/26/04

STATION	DEPTH	VEL	ROM	SUB	%	LEAD	STAT	DEPTH	VEL	ROM	SUS	% COM
1.0												
6.3	0	0		silt	14		47.1	0.02	0.05*	sand		
8.0	0.48	0.33	0.05*	silt		veg	47.5					
10.0	0.82	0.	0.36	silt		stream cover	48.0	1.05	0	silt		
12.0	0.93	0.	0.6	sand		sand	48.4	0	0	silt		
14.0	1.2	0	0.52	sand		sm. gravel	49			veg		
16.0	1.22	0.60		sand		gravel	49					
18.0	1.38	0.16		sand		shd.	49					
20.0	1.35	0.53		sand		gravel	49					
22.0	1.18	0.23		sand		gravel	49					
24.0	1.10	0.36		sand		gravel	49					
26.0	1.2	0.24		sand		gravel	49					
28.0	1.35	0.17		sand		sm. gravel	49					
30.0	1.6	0.67		sand		veg	80					
31.5	2.0	0.79		sand		sm. gravel	90					
33.5	2.2	1.08		sand		sm. gravel	90					
35.5	2.2			1.17		sand	90					
37.5	1.87			1.19		sm. gravel	90					
39.0	1.77			1.24		sand	90					
40.1	1.07			1.57		veg	90					
40.1	2.07			0.34		sand	90					
44.7	2.22			1.02		sm. gravel	90					
46.7	1.95			0.89		sand	100					

6/26/04
overhang
LWP
LWP

6/26/04
veg
silt
silt
veg

Avg
Avg

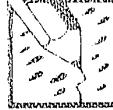
GLIDE TR 3 * ESTIMATED

DISCHARGE SURVEY

6/26/04

STATION	DEPTH	VEL	DOM	SUS	%	COM	RW/E
1.0	10.4	0	0	Veg	80	RWE	
	12.0	0.4	0.02*	Silt	70	Instream Cover	
	14.0	0.6	0.03*	Veg	70	Instream Cover	
	16.0	0.65	0.05*	Silt	70	Instream Cover	
	18.0	1.25	0.03*	Silt	70	Instream Cover	
	20.0	1.7	0.52	Sand	80		
	22.0	1.98	0.48	Sand	100		
	24.0	2.0	1.04	Sand	90		
	26.0	2.08	0.97	Sand	90		
	28.0	2.05	0.90	Sand	90		
	30.0	2.0	1.02	bedrock	90		
	32.0	2.07	1.07	bedrock	90		
	34.0	1.95	1.08	bedrock	90		
	36.0	1.88	0.98	Sand	100		
	38.0	1.75	0.89	Sand	100		
	40.0	1.37	0.53	Sand	90		
	43.0	1.17	0.57	Sand	100		
	45.0	1.35	0.47	Sand	100		
	47.0	1.45	0.59	Sand	90		
	49.0	1.0	0.03*	Silt	70	Instream Cover	
	51.0	0.78	0.03*	Silt	70	Instream Cover	
	52.8	0.58	0	Silt	70	leg at 53.2'	
	54.0	0	0	Veg	80	LNE	
	75.2						

WM - 8



"It's in the book"
ALL-WEATHER
LEAVE BOOK
NO. 310 F

8/20/04

418.01

WM-3 Low Flow 8/20/04

WM-3 Pool/Lake Level Loop 8/20/04

STA BS HT FS Elevation

BM-1 5.91

Time 9:30 AM
5.6 1.0

Tran 104

Crew: M. Gagnon
B. Nelson

Equipment: Marsh Walkway SW: 2005068
Zeros 11:48

Photo Log: #1 looking off from below AC

#2 " Lt->Rt across H C
pool
#3 " Lt->Rt " TR-1 BM
#4 " " TR-2 TP
#5 " 1/2 above
#6 " Lt->Rt across TR-3
#7 " 1/2 from above TR-2 TR-6 side
#8 " 1/2 from above TR-2

106.13

105.70

98.78 ✓

98.96 ✓

98.86 ✓

98.96 ✓

98.78 ✓

100.00

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106.14

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WMM-3 Lined Comp Cont. 8/20/04

WMM-8 WSE STA BS HT FS Elevation

106.13

HC

Lt

Rt

TR-1

Lt

Rt

TR-2

Lt

Rt

TR-3

Lt

Rt

106.13

10.19 95.94
10.15

10.18 95.95
10.15

10.17 95.96
10.17

10.15
10.16 95.97

10.12 96.01
10.13 96.00

WMM-8 STA	BS	HT	FS	Elevation
WMM-8 STA	BS	HT	FS	Elevation

WMM-B WSE H-T PS Clean
STA BS RT

106.13 ft

TR-2
S+ L+
RT

10.09 96.07
10.08 96.05

TR-3
S+ L+
RT

10.05 96.08
10.05 96.08

6.13 100.50

BM-1

* Hc out of order

STA Depth
113.5 1.73
116.5 1.08

8/20/04

Central

WMM-B Pool

STAB Depth

RWE

MM-8 Pool TR-1 Qdly Notes 8/10/04

STA	Depth Vol.	Qdly Notes
26.6	0.0	0.0
27	.89	.03
27.5	.94	.15
28.5	.87	.01
30.5	.95	.38
32.5	1.31	.73
34.5	1.38	.93
36.5	1.55	.92
38	1.69	.99
40	1.81	.87
42	1.97	1.0
44	2.00	.99
46	1.92	.71
48.0	2.02	.68
49.5	2.14	.89
51.5	2.70	<u>.79</u> <u>.61</u>
53.0	2.45	.21
54.5	2.20	.43
56.5	2.32	.28
58.5	1.83	.01
60.5	1.45	.06
62.5	1.40	.06
64.5	1.50	-.01

STA	Depth Vol.	Qdly Notes
66.5	0.70	.01
68.5	0.20	0.0
69.05	0.0	0.0

Aq. veg.
aq. veg.
LWE

(1.0 dep.)
aq. veg.
aq. veg.
aq. veg.
aq. veg.
aq. veg.
aq. veg.

WM-8 Pool TR-3 Date 8/15/04

STA Depth 11.0

STA	Depth	R/W/E	sq. veg.	Pool	TR-3	Date	Notes
36.9	0.0	0.0					
37.5	.30	0.0					
39.5	.68	0.0					
40.5	1.45	-.04	sq. veg.				
42.5	1.60	.19					
44.5	1.94	.71					
45.8	1.85	.83					
47.7	1.74	1.62					
49.2	1.85	.96					
51.2	1.98	.86					
53.2	2.38	1.01					
55.2	2.80	1.05					
57.1	2.58	1.14	.65				
59.2	2.34	.70					
60.7	2.20	.78					
62.7	1.80	.89					
64	1.67	.52					
66	1.38	.35					
67.5	1.38	.11	LWD cover				
68	1.30	.02					
70	1.30	-.66					
72	1.09	.32					
74	.93	.09					

W.M.-3	Globe	Root	TR-1	Notes	W.M.-3	Globe	Root	TR-1	Notes
STA	Depth	Vel	Vel		STA	Depth	Vel	Vel	
12.8	0.0	0.0	0.0		51.	0.3	0.05	0.0	
14	0.8	21	44	Veg	51.	5	0.02	0.0	
16	1.20	69	vel teleco	@ above vegetation	52.1	0.05	0.0	0.0	
18	1.20	88	near tide water surface.		52.8	0.0	0.0	0.0	LNE
20	1.37	93	2/5	Veg					
22	1.50	0.6	0.6	{ 1.0' deep }					
24	2.10	0.5	0.5	{ 1.8 " }					
26	2.10	79	79						
28	2.10	1.23	1.23						
30	2.20	1.50	1.50						
31.5	1.56	1.18	1.18						
33.2	1.72	1.20	1.20	vel teleco @ 0.6 of depth					
35.3	1.68	1.44	1.44						
36.4	1.74	1.37	1.37						
37.4	2.35	1.07	1.07						
38.8	2.22	0.54	0.54						
40.0	2.22	0.67	0.67						
42	1.40	1.10	1.10	at veg (8' dep)					
44	1.03	0.05	0.05	VEG DEP: 0.6					
46	0.92	0.01	0.01						
48	0.96	0.0	0.0						
50	0.40	0.0	0.0						
50.6	0.05	0.0	0.0						

Run-8 Glide TR-2 Notes 8/20/04

STA	Depth	Vel	Notes	STA	Depth	Vel	Notes
6.7	0.0	0.0	RNE	48.3	0.0	0.0	LNE
8	0.35	0.0		48.5	0.0	0.0	
10	0.80	0.08	AQ VEG				
12	1.0	0.09	AQ VEG				
14	1.15	0.55					
16	1.18	0.52					
18	1.36	0.36					
20	1.37	0.48					
22	1.10	0.55	VEG: 0.6				
24	1.05	0.0	VEG DEP: 0.7				
26	1.15	0.74	VEG DEP: 0.80				
28	1.30	0.04	VEG DEP: 1.0				
30	1.55	0.51					
31.5	1.80	0.81					
33.5	2.15	1.08					
35.5	3.30	1.30					
37.5	1.97	1.36					
39	1.45	1.53					
40.1*	1.55	1.61	VEG DEP: 0.7				
42.1	2.12	1.36					
44.7	2.82	0.73					
46.1	2.00	0.87					
47.1	1.95	-0.02					
* 41.0	1.95	-0.05	All VEG: 1.10				

GLIDE TH-3

Best Q
DEP VEG

STATION

WM-8
NOTES

	1.0	10.4	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	45.0	47.0	49.0	51.0
Q	0.0	0.0	0.40	0.40	0.60	0.60	0.60	1.15	1.65	1.95	1.90	1.90	2.05	1.90	1.86	1.75	1.35	1.30	1.45	1.70	0.85	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.65	0.92	1.22	1.10	1.10	1.18	1.12	1.06	1.10	0.50	0.53	0.72	0.45	0.05	0.0
E	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
G	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~

WM-8
NOTESTR-3
NOTES

STAB

R/W/E
AG VEG

LWE

NOTES

NOTES