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Ex. 279-US-427

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Stream: Sycan River
 Site: SY-3 (Sycan River at TP meadows)

Date: 9/21/90

Habitat: Run

Flow: Low

Date: 4/14/91

Habitat: Run

Flow: not used in calibration

Date: 5/11/91

Habitat: Run

Flow: Mid

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	3.01	103.01		
HP1			5.56	97.45
HP2			4.75	98.26
HP3			4.89	98.12
TP				
HP3	4.79	102.91		
HP2			4.65	98.26
HP1			5.46	97.45
BM			2.91	100.00

Comment:

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	2.43	102.43		
HP1			4.96	97.47
HP2			4.11	98.32
HP3			4.23	98.20
TP				
HP3	4.28	102.48		
HP2			4.16	98.32
HP1			5.01	97.47
BM			2.48	100.00

Comment:

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	3.84	103.84		
HP1			3.23	100.61
HP2			0.44	103.40
HP3			0.44	103.40
TP				
HP3	0.46	103.86		
HP2			0.46	103.40
HP1			3.25	100.61
BM			3.86	100.00

Comment:

(2) Water Surface Elevation (WSE) Survey

	L/R WSE (ft)	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE	132.9	102.92	6.90	0.00	96.02	96.03	3.9
	RWE			6.89	0.00	96.03		
TR2	LWE	221.5	102.91	6.87	0.00	96.04	96.04	3.0
	RWE			6.87	0.00	96.04		
TR3	LWE	310.1	102.91	6.86	0.00	96.05	96.05	3.6
	RWE			6.86	0.00	96.05		

Note:

WSE slope= 0.014%

Ave Q= 3.5

(2) Water Surface Elevation (WSE) Survey

	L/R WSE (ft)	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE	132.9	102.48	6.31	0.00	96.17	96.17	7.6
	RWE			6.31	0.00	96.17		
TR2	LWE	221.5	102.48	6.30	0.00	96.18	96.18	7.5
	RWE			6.30	0.00	96.18		
TR3	LWE	310.1	102.48	6.29	0.00	96.19	96.19	6.0
	RWE			6.30	0.00	96.18		

Note:

WSE slope= 0.008%

Ave Q= 7.0

(2) Water Surface Elevation (WSE) Survey

	L/R WSE (ft)	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE	132.9	103.86	7.29	0.00	96.57	96.57	37.7
	RWE			7.29	0.00	96.57		
TR2	LWE	221.5	103.86	7.27	0.00	96.59	96.59	34.4
	RWE			7.27	0.00	96.59		
TR3	LWE	310.1	103.86	7.24	0.00	96.62	96.63	36.2
	RWE			7.23	0.00	96.63		

Note:

WSE slope= 0.031%

Ave Q= 36.1

Date: 5/15/93
 Habitat: Run

Flow: High

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	10.64	110.64		
HP1			10.04	100.60
HP2			7.25	103.39
HP3			7.24	103.40
TP				
HP3	7.06	110.46		
HP2			7.06	103.40
HP1			9.86	100.60
BM			10.47	99.99

Comment:

(2) Water Surface Elevation (WSE) Survey

	L/R	WSE (ft)	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	Ave		
							WSE (ft)	Q (cfs)	
TR1	LWE	132.9	110.46	12.16	0.00	98.30	98.29	643.3	
	RWE			12.18	0.00	98.28			
TR2	LWE	221.5	110.46	12.14	0.00	98.32	98.34		
	RWE			12.10	0.00	98.36			
TR3	LWE		310.1	110.46	11.92	0.00	98.54	98.47	
	RWE			12.06	0.00	98.40			
								Ave Q=	643.3

Note:

WSE slope= 0.102%

Stream: Sycan River		21-Sep-90				14-Apr-91				11-May-91										
Site: SY-3	Substrate	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)	Ave	q (cfs)	Substrate	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)	Ave	q (cfs)	Substrate			
Transsect: 1	Habitat: Run					V _{0.2-0.6}	V _{0.8}							V _{0.2-0.6}	V _{0.8}					
		LWP	0.0	5.55	97.37				1.1	LWP	0.0	3.53	100.33					1.1		
			5.0	5.74	97.18				1.1		2.0	3.40	100.46					1.1		
			8.0	6.04	96.88				1.1		2.5	6.92	96.94					1.1		
			9	6.03	96.03	0.00	0.00	0.00	1.1	LWE	4.1	96.17	0.00	0.00	0.00	0.00	0.00	1.1		
			10	5.93	95.93	0.10	0.00	0.00	1.2		5.0	96.07	0.10	0.00	0.00	0.00	0.00	1.1		
			12	5.73	95.73	0.30	0.00	0.00	5.2		6.0	96.02	0.15	0.40	0.40	0.06	0.62	9.2		
			14	5.58	95.58	0.45	0.24	0.22	5.2		7.0	95.92	0.25	0.65	0.65	0.16	0.92	9.2		
			16	5.53	95.53	0.50	0.27	0.27	5.2		8.0	95.97	0.20	0.60	0.60	0.12	0.92	9.2		
			18	5.53	95.53	0.50	0.35	0.35	5.2		9.0	95.97	0.20	1.15	1.15	0.23	4.9	9.2		
			20	5.43	95.43	0.60	0.34	0.34	5.2		10.0	95.87	0.30	1.50	1.50	0.45	4.9	9.2		
			22	5.43	95.43	0.60	0.31	0.31	5.2		11.0	95.77	0.40	1.80	1.80	0.72	4.9	9.2		
			24	5.33	95.33	0.70	0.37	0.37	5.2		12.0	95.67	0.50	1.80	1.80	0.90	4.9	9.2		
			26	5.33	95.33	0.70	0.37	0.37	5.2		13.0	95.57	0.60	2.00	2.00	1.20	4.9	9.2		
			28	5.43	95.43	0.60	0.29	0.29	5.2		14.0	95.37	0.80	1.90	1.90	1.52	5.3	9.2		
			30	5.43	95.43	0.60	0.23	0.23	5.2		15.0	95.42	0.75	2.00	2.00	1.50	5.3	9.2		
			32	5.43	95.43	0.60	0.18	0.18	5.2		16.0	95.42	0.75	1.80	1.80	1.35	5.3	9.2		
			34	5.43	95.43	0.60	0.15	0.15	5.2		17.0	95.47	0.70	1.65	1.65	1.16	5.3	9.2		
			36	5.53	95.53	0.50	0.19	0.19	5.2		18.0	95.47	0.70	1.65	1.65	1.16	5.3	9.2		
			38	5.43	95.43	0.60	0.11	0.11	2.2		18.0	95.87	0.30	0.80	0.80	0.24	9.3	9.2		
			40	5.33	95.33	0.65	0.00	0.00	2.2		19.0	96.17	0.00	0.00	0.00	0.00	1.1	9.2		
			42	5.33	95.33	0.70	0.00	0.00	2.2		19.5	7.38	96.48	0.00	0.00	0.00	0.00	1.1	9.2	
			43	5.29	97.63	0.00	0.00	0.00	1.2		35.0	7.52	96.34	0.00	0.00	0.00	0.00	1.1	9.2	
			44	5.29	97.63	0.00	0.00	0.00	1.1		37.0	7.82	96.04	0.00	0.00	0.00	0.00	1.1	9.2	
			48	4.32	98.60	0.00	0.00	0.00	1.1		40.0	7.22	96.64	0.00	0.00	0.00	0.00	1.1	9.2	
			49.5	3.92	99.00	0.00	0.00	0.00	1.1		53.0	6.82	97.04	0.00	0.00	0.00	0.00	1.1	9.2	
											56.5	96.57	0.00	0.00	0.00	0.00	0.00	1.1	9.2	
											61.0	95.97	0.60	0.00	0.00	0.00	0.00	1.1	9.2	
											66.0	95.67	0.90	0.00	0.00	0.00	0.00	1.1	9.2	
											77.0	95.97	0.60	0.00	0.00	0.00	0.00	1.1	9.2	
											84.3	96.57	0.00	0.00	0.00	0.00	0.00	1.1	9.2	
											95.0	6.98	96.88	0.00	0.00	0.00	0.00	1.1	9.2	
											98.0	6.58	97.38	0.00	0.00	0.00	0.00	1.1	9.2	
											116.5	6.94	96.92	0.00	0.00	0.00	0.00	1.1	9.2	
											117.0	96.37	0.20	0.05	0.05	0.01	1.1	9.2		
											118.0	95.97	0.60	0.40	0.40	0.24	1.1	9.2		
											119.0	95.87	0.70	0.50	0.50	0.53	1.2	9.2		
											121.0	95.77	0.80	0.85	0.85	1.36	5.2	9.2		
											123.0	95.57	1.00	0.65	0.65	1.30	5.2	9.2		
											125.0	95.47	1.10	0.95	0.95	2.09	5.2	9.2		
											127.0	95.37	1.00	1.20	1.20	2.40	5.2	9.2		
											129.0	95.47	1.10	1.10	1.10	2.42	5.2	9.2		
											131.0	95.47	1.10	1.20	1.20	2.64	5.2	9.2		
											133.0	95.57	1.20	1.00	1.00	2.40	5.2	9.2		
											135.0	95.47	1.10	0.90	0.90	1.98	5.2	9.2		
											137.0	95.37	1.20	0.85	0.85	2.04	5.2	9.2		
											139.0	95.37	1.20	0.90	0.90	2.16	5.2	9.2		
											141.0	95.42	1.15	0.70	0.70	1.61	5.2	9.2		
											143.0	95.47	1.10	0.55	0.55	1.21	5.2	9.2		
											145.0	95.52	1.05	0.65	0.65	1.37	5.2	9.2		
											147.0	95.37	1.20	0.50	0.50	1.20	2.2	9.2		
											149.0	95.37	1.20	0.40	0.40	0.96	2.2	9.2		
											151.0	95.57	1.00	0.15	0.15	0.23	2.2	9.2		
											RWE	152.0	96.07	0.50	0.00	0.00	0.00	1.2	9.2	
												152.2	6.62	97.24				1.1	9.2	
												155	5.78	98.08				1.1	9.2	
												RWP	157.9	4.87	98.99				1.1	9.2

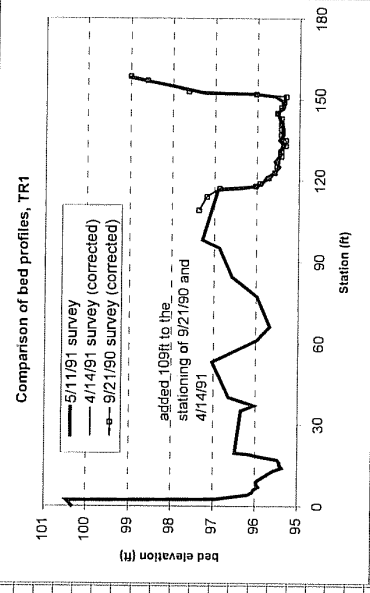
Please see the figure on the far right of this sheet. The figure compares the bed profiles of 9/21/90 and 5/11/91 surveys. We added 109 to the 9/21/90 survey to make the main channel of both surveys aligned. Knowing the stationing difference is 109, we can translate the substrate from 9/21/90 survey to the 5/11/91 survey.

Stream: Sycan River Site: SY-3 Transsect: 1	21-Sep-90							14-Apr-91							11-May-91																	
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)	V _{0.2,0.6}	V _{0.8}	Ave	q (cfs)	substrate	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)	V _{0.2,0.6}	V _{0.8}	Ave	q (cfs)	substrate	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)	V _{0.2,0.6}	V _{0.8}	Ave	q (cfs)	substrate		

Sta (ft)	FS (ft)	15-May-93			15-May-93			FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)			q (cfs)	substrate
		Depth (ft)	Vel (ft/s)	V _{0.8}	Ave	Depth (ft)	Vel (ft/s)				V _{0.8}	Ave			
LWE 1.6	96.79	1.50													
2.0	96.49	1.80													
3.0	95.99	2.30													
4.0	95.79	2.50													
5.0	95.79	2.50													
6.0	95.89	2.40													
7.0	95.89	2.40													
8.0	95.79	2.50													
9.0	95.69	2.60													
10.0	95.54	2.75													
11.0	95.49	2.80													
12.0	95.39	2.90													
13.0	95.29	3.00													
14.0	95.19	3.10													
15.0	95.09	3.20													
16.0	95.19	3.10													
17.0	95.29	3.00													
18.0	95.79	2.50													
19.0	95.89	2.40													
20.0	96.39	1.90													
21.0	96.79	1.50													
22.0	96.29	2.00													
23.0	96.29	2.00													
24.0	96.29	2.00													
25.0	96.14	2.15													
26.0	96.29	2.00													
28.0	96.19	2.10													
30.0	96.29	2.00													
31.0	96.39	1.90													
33.0	96.29	2.00													
34.0	96.29	2.00													
35.0	96.19	2.10													
36.0	96.04	2.25													
37.0	95.99	2.30													
38.0	96.09	2.20													
39.0	96.29	2.00													
40.0	96.49	1.80													
41.0	96.64	1.65													
43.0	96.79	1.50													
45.0	96.64	1.65													
49.0	96.69	1.60													
53.0	96.99	1.30													
56.0	96.59	1.70													
59.0	96.09	2.20													
68.0	95.69	2.60													
73.0	95.79	2.50													
76.0	95.69	2.60													
79.0	95.79	2.50													
82.0	96.09	2.20													
85.0	96.39	1.90													
88.0	96.59	1.70													
91.0	96.39	1.70													
94.0	96.79	1.50													
97.0	97.19	1.10													
100.0	97.29	1.00													
106.0	97.29	1.00													
109.0	97.29	1.00													
116.0	96.99	1.30													
117.0	96.19	2.10													
120.0	95.59	2.70													
123.0	95.34	2.95													
127.0	95.19	3.10													
132.0	95.09	3.20													
135.0	95.19	3.10													
139.0	95.24	3.05													
149.0	95.34	2.95													
150.0	95.29	3.00													

Profile survey only

Velocity-depth only, but not at TR-1



corrected 9/21/90	corrected 4/14/91
-109.0	-109.0
109	117.4
114	97.18
117	96.88
118	96.03
119	95.93
121	95.73
123	95.58
125	95.52
127	95.53
129	95.47
131	95.43
133	95.33
135	95.33
137	95.43
139	95.42
141	95.43
143	95.43
145	95.53
147	95.43
149	95.38
151	95.33
152	96.03
153	97.63
157	98.60
159	99.00

15-May-93										15-May-93									
Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)		q (cfs)	substrate	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)		q (cfs)	substrate	corrected 9/21/90 Ground (ft)	corrected 4/14/91 Ground (ft)		
				V _{0.20s}	V _{0.8}							V _{0.20s}	V _{0.8}						
151.0	95.48	95.48	2.81																
153.0	97.34	97.34	0.95																
154.0	97.64	97.64	0.65																
155.0	98.01	98.01	0.28																
155.8	98.29	98.29	0.00																
RWP	157.7																		

Stream: Sycan River		21-Sep-90										14-Apr-91										11-May-91													
Site: SY-3		Sta	FS	Ground	Depth	Vel (ft/s)		q		substrate		Sta	FS	Ground	Depth	Vel (ft/s)		q		substrate		Sta	FS	Ground	Depth	Vel (ft/s)		q		substrate					
Transsect: 3		(ft)	(ft)	(ft)	(ft)	V _{0.2/0.6}	V _{0.8}	Ave	(cfs)			(ft)	(ft)	(ft)	(ft)	V _{0.2/0.6}	V _{0.8}	Ave	(cfs)			(ft)	(ft)	(ft)	(ft)	V _{0.2/0.6}	V _{0.8}	Ave	(cfs)						
Habitat: Run		LWP	0.0	5.07	97.84							LWE	17.0	96.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	103.14											
Survey		9.0	5.64	97.27								18.0	96.14	0.05	0.19	0.19	0.01	0.19	0.01	0.19	0.01	1.16	102.70												
Date		15.0	6.42	96.49								19.0	95.94	0.25	0.22	0.22	0.06	0.22	0.06	0.22	0.06	3.3	96.33												
9/21/90		18.5	6.80	96.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.0	95.84	0.35	0.10	0.10	0.04	0.10	0.04	0.10	0.04	4.0	96.03	0.30	0.40	0.40	0.40	0.40	0.13	0.13	0.13	0.13	0.13	0.13	
4/14/91		20.0		95.95	0.10	0.00	0.00	0.00	0.00	0.00	0.00	21.0	95.74	0.45	0.63	0.63	0.28	0.63	0.28	0.63	0.28	5.5	95.43	0.90	1.10	1.10	1.10	1.10	1.49	2.4	2.4	2.4	2.4	2.4	
5/11/91		21.0		95.75	0.30	0.18	0.18	0.05	0.52	0.18	0.05	22.0	95.64	0.55	0.68	0.68	0.37	0.68	0.37	0.68	0.37	7.0	95.33	1.00	1.50	1.50	1.50	2.25	4.4	4.4	4.4	4.4	4.4	4.4	
5/15/93		22.0		95.70	0.55	0.60	0.60	0.21	5.2	0.60	0.21	23.0	95.49	0.70	0.77	0.77	0.54	0.77	0.54	0.77	0.54	8.5	95.38	0.95	1.35	1.35	1.35	1.92	4.4	4.4	4.4	4.4	4.4	4.4	
		23.0		95.60	0.45	0.53	0.53	0.24	5.2	0.53	0.24	25.0	95.24	0.95	0.94	0.94	0.89	0.94	0.89	0.94	0.89	11.5	95.73	0.60	0.70	0.70	0.63	3.9	3.9	3.9	3.9	3.9	3.9	3.9	
		24.0		95.35	0.70	0.52	0.52	0.36	5.2	0.52	0.36	26.0	95.14	1.05	0.74	0.74	0.78	0.74	0.78	0.74	0.78	13.0	95.88	0.45	0.20	0.20	0.14	3.9	3.9	3.9	3.9	3.9	3.9	3.9	
		25.0		95.25	0.80	0.53	0.53	0.42	5.2	0.53	0.42	27.0	95.19	1.00	0.40	0.40	0.40	0.40	0.40	0.40	0.40	14.5	95.83	0.50	0.15	0.15	0.11	3.9	3.9	3.9	3.9	3.9	3.9	3.9	
		26.0		95.15	0.90	0.52	0.52	0.47	5.2	0.52	0.47	28.0	95.09	1.00	0.51	0.51	0.51	0.51	0.51	0.51	0.51	16.0	95.73	0.60	0.05	0.05	0.05	3.9	3.9	3.9	3.9	3.9	3.9	3.9	
		27.0		95.15	0.90	0.64	0.64	0.58	5.2	0.64	0.58	29.0	95.09	1.10	0.33	0.33	0.36	0.33	0.36	0.33	0.36	17.5	95.83	0.50	0.20	0.20	0.20	0.09	9.9	9.9	9.9	9.9	9.9	9.9	9.9
		28.0		95.65	0.40	0.44	0.44	0.44	6.6	0.44	0.44	30.0	95.04	1.15	0.28	0.28	0.31	0.28	0.31	0.28	0.31	17.5	95.83	0.50	0.20	0.20	0.20	0.09	9.9	9.9	9.9	9.9	9.9	9.9	9.9
		29.0		95.10	0.95	0.29	0.29	0.28	5.2	0.29	0.28	31.0	95.04	1.15	0.09	0.09	0.10	0.09	0.10	0.09	0.10	22.0	6.8	97.06											
		30.0		94.85	1.20	0.46	0.46	0.55	5.2	0.46	0.55	32.0	95.34	0.85	0.09	0.09	0.08	0.09	0.08	0.09	0.08	30.0	5.77	98.09											
		31.0		95.05	1.00	0.02	0.02	0.02	6.5	0.02	0.02	33.0	95.49	0.70	0.09	0.09	0.06	0.09	0.06	0.09	0.06	55.0	5.81	98.05											
		32.0		95.15	0.90	0.08	0.08	0.07	6.5	0.08	0.07	34.0	95.89	0.30	0.07	0.07	0.02	0.07	0.02	0.07	0.02	86.0	6.59	97.27											
		33.0		95.55	0.30	0.17	0.17	0.09	6.5	0.17	0.09	35.0	96.14	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	111.0	6.00	97.86											
		34.0		95.65	0.40	0.00	0.00	0.00	6.2	0.00	0.00	36.1	96.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	121.0	6.88	96.98											
		RWE	36.0	6.86	96.05	0.00	0.00	0.00	5.1	0.00	0.00											RWE	17.0	96.63											
		RWP	43.0	2.72	100.19																														


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RUN                                MID                                TRANSECT 1
IOC                                1101100100001000101000
QARD 3.5
QARD 5.0
QARD 8.0
QARD 12.0
QARD 20.0
QARD 30.0
QARD 36.1
QARD 50.0
QARD 60.0
QARD 70.0
QARD 80.0
QARD 90.0
QARD 100.0
QARD 110.0
QARD 120.0
QARD 130.0
QARD 140.0
QARD 150.0
QARD 160.0
QARD 170.0
QARD 180.0
QARD 200.0
QARD 220.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 400.0
QARD 500.0
QARD 600.0
QARD 643.3
XSEC1000.0      0.00 1.0      95.37  0.00031
1000.0  0.0100.3  2.0100.5  2.5 96.9  4.1 96.2  5.0 96.1  6.0 96.0
1000.0  7.0 95.9  8.0 96.0  9.0 96.0 10.0 95.9 11.0 95.8 12.0 95.7
1000.0 13.0 95.6 14.0 95.4 15.0 95.4 16.0 95.4 17.0 95.5 18.0 95.9
1000.0 19.0 96.2 19.5 96.5 35.0 96.3 37.0 96.0 40.0 96.6 53.0 97.0
1000.0 56.5 96.6 61.0 96.0 66.0 95.7 77.0 96.0 84.3 96.6 95.0 96.9
1000.0 98.0 97.3116.5 96.9117.0 96.4118.0 96.0119.0 95.9121.0 95.8
1000.0123.0 95.6125.0 95.5127.0 95.6129.0 95.5131.0 95.5133.0 95.4
1000.0135.0 95.5137.0 95.4139.0 95.4141.0 95.4143.0 95.5145.0 95.5
1000.0147.0 95.4149.0 95.4151.0 95.6152.0 96.1152.2 97.2155.0 98.1
1000.0157.9 99.0
NS 1000.0      1.1      1.1      1.1      1.1 0.2  1.1 0.10  9.2
NS 1000.0 0.08  9.2 0.07  9.2 0.06  4.9 0.05  4.9 0.04  4.9 0.04  4.9
NS 1000.0 0.04  4.9 0.04  5.3 0.04  5.3 0.04  5.3 0.04  5.3 0.04  9.3
NS 1000.0 0.04  1.1 0.04  1.1 0.08  1.1 0.09  1.1 0.09  1.1 0.09  1.1
NS 1000.0 0.10  1.1 0.11  1.1 0.12  1.1 0.13  1.1 0.14  1.1 0.14  1.1
NS 1000.0 0.13  1.1 0.10  1.1 0.10  1.1 0.09  1.1 0.08  1.2 0.06  5.2
NS 1000.0      5.2      5.2 .025  5.2 .028  5.2 .028  5.2 .032  5.2
NS 1000.0      5.2      5.2      5.2      5.2      5.2      5.2
NS 1000.0      2.2      2.2      2.2      2.2      1.2      1.1      1.1
NS 1000.0      1.1
WSL 1000.0 96.03  96.08  96.16  96.24  96.39  96.53
WSL 1000.0 96.57  96.71  96.80  96.88  96.95  97.02
WSL 1000.0 97.07  97.12  97.17  97.22  97.26  97.30
WSL 1000.0 97.33  97.36  97.39  97.45  97.50  97.58
WSL 1000.0 97.69  97.80  97.89  98.07  98.23  98.29
CAL11000.0 96.57  36.1
VEL11000.0      0.00 0.01  0.40  0.65  0.60  1.15  1.50  1.80  1.80
VEL11000.0 2.00 1.90  2.00  1.80  1.65  0.80  0.00
VEL11000.0 0.00 0.01  0.01  0.01  0.00      0.05  0.40  0.50  0.85
VEL11000.0 0.65 0.95  1.20  1.10  1.20  1.00  0.90  0.85  0.90  0.70  0.55  0.65
VEL11000.0 0.50 0.40  0.15  0.00
CAL21000.0 96.03  3.5
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0 98.29  643.3
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ

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RUN                                MID                                TRANSECT 2
IOC      1101100100001000101000
QARD 3.5
QARD 5.0
QARD 8.0
QARD 12.0
QARD 20.0
QARD 30.0
QARD 36.1
QARD 50.0
QARD 60.0
QARD 70.0
QARD 80.0
QARD 90.0
QARD 100.0
QARD 110.0
QARD 120.0
QARD 130.0
QARD 140.0
QARD 150.0
QARD 160.0
QARD 170.0
QARD 180.0
QARD 200.0
QARD 220.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 400.0
QARD 500.0
QARD 600.0
QARD 643.3
XSEC1000.0      1000.0 1.0      95.37  0.00031
1000.0  0.0103.0  2.0102.7  2.5 99.6  3.0 98.4  4.0 97.2  5.3 96.3
1000.0  6.0 95.8  7.0 95.6  8.0 95.3  9.0 95.3 10.0 95.2 11.0 95.1
1000.0 12.0 95.1 13.0 95.0 14.0 95.1 15.0 95.8 16.0 95.9 17.0 95.9
1000.0 18.0 96.0 19.0 96.0 19.6 96.3 27.0 97.3 40.0 97.8 46.0 98.4
1000.0 56.0 97.9 57.5 96.4 59.0 96.3 61.0 96.4 74.0 97.1131.0 96.8
1000.0137.5 97.9142.0 97.7143.9 96.6145.4 96.2146.8 95.6148.8 95.8
1000.0150.8 95.4152.8 95.2154.8 95.2156.8 95.1158.8 95.1160.8 95.1
1000.0162.8 95.1164.8 95.4166.8 95.3168.8 95.3170.8 95.5172.8 95.6
1000.0174.8 95.8176.8 96.1178.1 96.6179.0 97.2181.5 97.9183.0 99.0
1000.0187.7100.7
NS 1000.0      1.1      1.1      1.1      1.1      1.1
NS 1000.0      3.2      3.2      3.4      4.4      4.4
NS 1000.0      3.4      3.9      3.9      7.7      7.7
NS 1000.0      9.2 0.08  9.9 0.08  1.1      1.1
NS 1000.0      1.1      1.1      1.1      1.1      1.1
NS 1000.0      1.1      1.1 .08  1.1 0.05  1.2 0.05  2.5
NS 1000.0      2.5      2.5      5.2      5.2      5.2
NS 1000.0      5.2      6.2      6.2      6.2      6.2
NS 1000.0 0.1  1.2 0.1  1.1 0.1  1.1      1.1
NS 1000.0      1.1
WSL 1000.0      96.04      96.09      96.17      96.25      96.40      96.54
WSL 1000.0      96.58      96.72      96.81      96.89      96.97      97.04
WSL 1000.0      97.09      97.14      97.19      97.24      97.28      97.32
WSL 1000.0      97.35      97.38      97.41      97.47      97.52      97.60
WSL 1000.0      97.72      97.83      97.92      98.11      98.27      98.33
CAL11000.0      96.59      36.1
VEL11000.0      0.00 0.50 0.40 0.80 0.80 1.00 1.00
VEL11000.0 0.75 0.90 0.80 0.65 0.55 0.30 0.25 0.01 0.00
VEL11000.0      0.00 0.01 0.15 0.40
VEL11000.0 0.70 0.65 1.00 1.05 0.95 1.00 1.10 0.75 0.55 0.60 0.60 0.35
VEL11000.0 0.10 0.01 0.00
CAL21000.0      96.04      3.5
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0      98.34      643.3
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ

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RUN                               MID                               TRANSECT 3
IOC      1101100100001000101000
QARD 3.5
QARD 5.0
QARD 8.0
QARD 12.0
QARD 20.0
QARD 30.0
QARD 36.1
QARD 50.0
QARD 60.0
QARD 70.0
QARD 80.0
QARD 90.0
QARD 100.0
QARD 110.0
QARD 120.0
QARD 130.0
QARD 140.0
QARD 150.0
QARD 160.0
QARD 170.0
QARD 180.0
QARD 200.0
QARD 220.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 400.0
QARD 500.0
QARD 600.0
QARD 643.3
XSEC1000.0  1000.0 1.0      95.37  0.00031
1000.0  0.0103.1  2.0102.7  3.3 96.3  4.0 96.0  5.5 95.4  7.0 95.3
1000.0  8.5 95.4  10.0 95.4  11.5 95.7  13.0 95.9  14.5 95.8  16.0 95.7
1000.0  17.5 95.8  17.9 96.3  22.0 97.1  30.0 98.1  55.0 98.1  86.0 97.3
1000.0111.0  97.9121.0  97.0126.0  97.8129.0  97.4142.0  97.3148.0  97.9
1000.0159.0  97.7167.0  97.0170.5  96.6173.9  96.1174.9  95.9175.9  96.0
1000.0176.9  95.7177.9  95.6178.9  95.5179.9  95.3180.9  95.2181.9  95.1
1000.0182.9  95.2183.9  95.1184.9  95.1185.9  94.8186.9  94.9187.9  95.5
1000.0188.9  95.5189.9  95.6190.9  96.0191.9  96.1193.0  96.6194.0  97.2
1000.0195.0  97.9196.0  99.1198.6100.2
NS 1000.0      1.1      1.1      1.1      2.2      2.4 .025  4.4
NS 1000.0 .025  4.4      3.9      3.9 .04  3.9 .04  3.9 0.05  3.9
NS 1000.0 0.05  9.9 0.06  1.1 .07  1.1      1.1 0.08  1.1      1.1
NS 1000.0      1.1      1.1      1.1      1.1 0.10  1.1      1.1      1.1
NS 1000.0      1.1      1.1      1.1      1.1      1.5 0.02  5.2
NS 1000.0 0.02  5.2 .018  5.2 .022  5.2 .022  5.2 .019  5.2 .025  5.2
NS 1000.0 .027  5.2 .028  5.2 .022  6.6      5.2      5.2      6.5
NS 1000.0      6.5      6.2      6.2 .05  6.2 .05  5.1      1.1
NS 1000.0      1.1      1.1      1.1
WSL 1000.0  96.06  96.11  96.19  96.28  96.44  96.58
WSL 1000.0  96.63  96.78  96.87  96.96  97.03  97.11
WSL 1000.0  97.16  97.22  97.27  97.32  97.37  97.41
WSL 1000.0  97.44  97.48  97.51  97.58  97.63  97.72
WSL 1000.0  97.84  97.96  98.06  98.24  98.41  98.47
CAL11000.0  96.63  36.1
VEL11000.0      0.00 0.40  1.10  1.50  1.35  1.10  0.70  0.20  0.15  0.05
VEL11000.0 0.20 0.00
VEL11000.0      0.00 0.70  0.80  1.10  1.50  1.80  1.50  1.70  2.05  1.60
VEL11000.0 1.40 1.40  1.80  1.30  0.90  0.90  0.75  0.50  0.45  0.25  0.00
VEL11000.0
CAL21000.0  96.05      3.5
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0  98.47      643.3
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ

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