

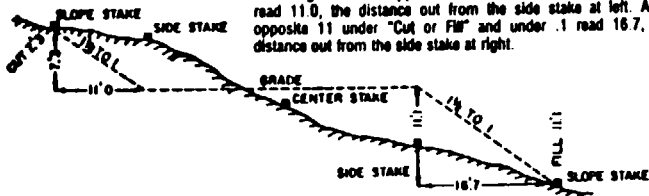
US EPA ARCHIVE DOCUMENT

Appendix A
Site Logbook Notes
Centredale Manor (Woonasquatucket River) Site
North Providence, Rhode Island

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below, opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Distance out from Side or Shoulder Stake	Distance out from Side or Shoulder Stake
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40	40

REAC-II-B-239

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CONTENTS

PAGE NO. REFERENCE DATE

Centredale site

B. Hoberness

13 Feb 99

WCH 3/28

location

Errors (m)

direction notes

• CMS-Ø26

0.26

SW

sidewalk

(moved off sidewalk)

• CMS-Ø28

1.6

SW

Tree mulch

(moved to edge of mulch)

• CMS-Ø30

0.45

• CMS-Ø33

0.49

• CMS-Ø32

-

in hedge

(will not sample)

• CMS-Ø34

0.50

CMS-Ø35

• CMS-Ø36

0.18

in rip-rap

• CMS-Ø37

2.2

SE

sidewalk

(moved off sidewalk)

• CMS-Ø38

Not found by GPS
but staked

• CMS-Ø41

Not GPSed

but staked

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	Error (m)	Direction (magnetic)	Distance (m)	Notes
<u>CMS-Ø48</u>	0.90			Not GPSed
<u>CMS-Ø44</u>				Not GPSed but staked
<u>CMS-Ø50</u>	0.65 ^(W) 0.07			
<u>CMS-Ø54</u>	0.64			
<u>CMS-Ø56</u>	0.66			
<u>CMS-Ø58</u>	0.50	E	2.0	Moved off sidewalk
<u>CMS-Ø59</u>	0.76			
<u>CMS-Ø61</u>	0.54	E	1.3	Moved off sidewalk
<u>CMS-Ø62</u>	1.8 ^{0.48}			
<u>CMS-Ø67</u>	0.48			
<u>CMS-Ø66</u>	0.51			
<u>CMS-Ø68</u>	0.04			
<u>CMS-Ø72</u>	0.40	S	1.2	Moved off parking lot

	Error(m)	Direction (mag)	Distance (m)	Notes
<u>CMS-Ø73</u>	0.37			
<u>CMS-Ø78</u>	0.52			
<u>CMS-Ø79</u>	0.49			
<u>CMS-Ø84</u> ^(W)	0.49	N	0.95	Moved off asphalt culvert
<u>CMS-Ø85</u> ^(W)				
<u>CMS-Ø84</u> ^(W)				
<u>CMS-Ø90</u>				
<u>CMS-Ø89</u>				staked by other team
<u>CMS-Ø95</u>	0.05	W	3.2	Moved off road
<u>CMS-Ø96</u>	0.15			
<u>CMS-1Ø4</u>				
<u>CMS-1Ø3</u>	0.30	W	2.2	Moved off road
<u>CMS-111</u> ^(W)	0.43	W	1.2	Moved off road

	Error (m)	Direction (Mag)	Dist. (m)	Notes
CMS-112		N	1.6	Not GPS'd
	Moved	off of corner of building		
CMS-110	0.50	0.2		Moved by other team
CMS-109	0.30			
CMS-117	0.47			
CMS-118	0.48	N	0.6	Moved off rip-rap
CMS-119		W	3.4	Not GPS'd
		moved off face of building		
CMS-125	0.39			
CMS-126	0.50			
CMS-127	0.80 ^(SW) 0.3	N	1.4 ^(SW) 1.0	Moved off driveway
CMS-124	0.9			Base of tree.

Quit at 1700

16 Feb 99

Arrived on site at 0730

Sampling team 2

sampled - Pete Kodarouskas

Monitor - Al Lupiano

Recorder - B. Holderness

0930

CMS-026 was sampled
(first sample)

1630

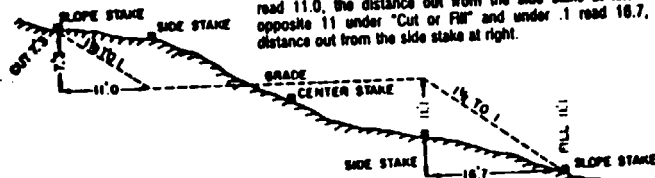
CMS-078 was sampled
(last sample)

REAC-II-B-240

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
	Distance out from Side or Shoulder Stake										
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

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CONTENTS

PAGE NO.	REFERENCE	DATE
----------	-----------	------

Out of File

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
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rr77012)

12/15/99

Curve on side in Contralake

major parking lot 13:00 AM

Time	Location	Description
------	----------	-------------

1355	CMS27	along stream at bank - near road
------	-------	----------------------------------

1405	CMS29	- no data -
------	-------	-------------

1415	CMS31	grass area near shrubs by roadside
------	-------	------------------------------------

1417	CMS27	near sidewalk by road
------	-------	-----------------------

1423	CMS32	= not collected - located in mulch
------	-------	------------------------------------

1433	CMS CMS45	w/in 12 meters - along rocky bank near river
------	-------------------------	--

1440	CMS42	w/in 3.6 meters along rocky bank
------	-------	----------------------------------

1445	CMS 39	- rocky bank, w/in 1.5 meters of GPS coordinates
1450	CMS 46	- not collecting - is 15 ft into the building;
1454	CMS 47	- in grass at corner of building, w/in 3.2 meters
1458	CMS 49	- w/in 0.2 meters along rocky bank.
1505	CMS 51 (MS/MSD)	w/in 0.8 meters, along river, grassy area near dunes.
1508	CMS 52	- w/in 0.3-0.7 meters grassy area between car/ island.
1510	CMS 53	- w/in 0.1 meters, on island b/w cars

1514	CMS 55	along river bank
1517	CMS 57	along river bank
1526	CMS 60	along river bank w/in 1.0 meter
1530	CMS 63	along river bank w/in 2.5 meters
1533	CMS 64	grassy area, near parking lot w/in 0.2 meters
1536	CMS 65	w/in 0.1 meters grassy area.
1540	CMS 71 (dup)	grassy area, ^{up} 10.05 meters
1545	CMS 70	grassy area, w/in 0.2 meters
1547	CMS 69	near river, along bank in dunes, w/in 3 meters

- 1548 CMS 75 grassy area, near
fenced-off area,
w/in 0.1 m
- 1550 CMS 74 (mis/psd) near river, along
stream bank, w/in
0.1 m
- 1553 CMS 76 near fenced-off area in
grass, w/in 0.1 m
- 1556 CMS 77 - not collecting on road
if, have unit from which
- 1556 CMS 83 - elevated
- 1600 CMS 89 - related 10 ft from spot
because it fell in the
road
- 1605 CMS 82 - in swampy area
- 1610 CMS 88 (mis/psd) - in swampy area
w/in 0.2 m

- 1612 CMS 94 in swampy area
w/in 1.5 m
- 1633 CMS 102 in swampy area
w/in 0.1 m
- 1637 CMS 101 (mis/psd) in swampy area
near river
w/in 0.1 m
- 1641 CMS 93 (dup) in swampy area
near river, in tall
grasses, w/in 0.2 m
- 1645 CMS 92 in grassy area
near river
- 1647 CMS 87 in swampy area
w/in
- 1649 CMS 86 (mis/psd) near river
in fenced area
- 1651 CMS 81 in fenced area,
swampy area

1652 CMS 80

near river
fenced-off area

None on site 17:00 ———— AM

12/16/71

Arrive 7:00
John Diering & Norm I
Kirk Fisher
Camera fully
Weight of both is a little bit off
Stop in W. woods = 317
CMS + MSD = 223

9:30 Sampling @ 41 Stone St
CMS = 220

Started River file R021614A
No GPS data

9:50 Sampling @ 36 Stone St
CMS = 226 ms/msd
No GPS data

10:08 Sampling @ 45 Dover St.
CMS = 222

10:20 Sampling @ Vacant lot at end
of Dover & Redfern
CMS = 225

10:32 Sampling at 41 Stevens
CMS-221
Leaf cover Right along
creek.

10:46 Sampling at end of Centredale
Ave (House #15?)
CMS-224

Discussion w/ resident: Said
there has been a return of
wildlife (frogs, fish, birds), &
an improvement in water
quality. About 20 yr. ago when
Chemical plant was operating,
there was less vegetation in
the marsh, less wildlife,
and the water would be
green or grey & murky, and
sometimes even blue.

11:30 Sampling at Mills apartments
CMS-217, CMS-217dup, CMS-218
CMS-219
CMS-217 & CMS 217dup on
residential side in the ditch.

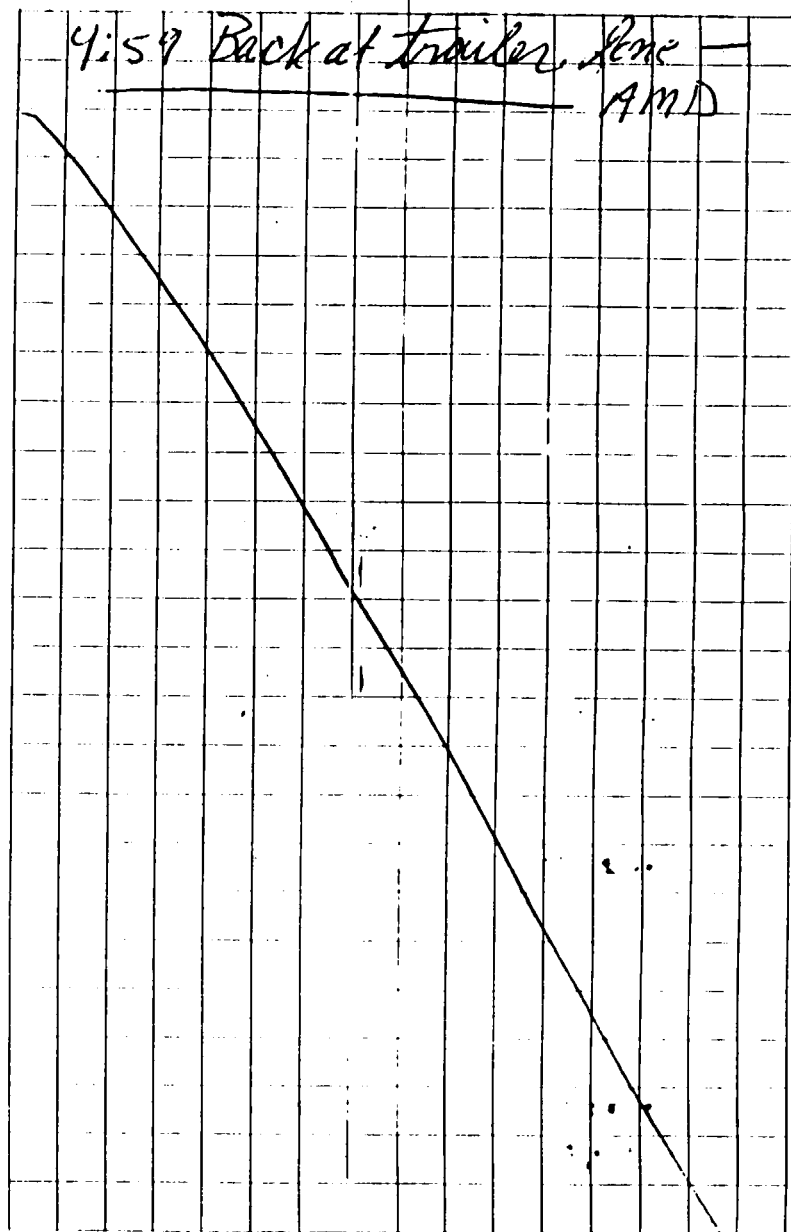
CMS-218 On Mills apartment
side of ditch.

CMS-219 - In ditch right in
front of Mills apartment.
GPS data was NOT in real
time. Data was recorded from
30 ft. above the right of way.
Because couldn't pick up any
signals in the ditch. The
first feature CMS-219 was recorded
for a height of 2m. This was
probably be inaccurate, so a
2nd feature 'CMS-217b' was
recorded for a height of 10m.

12:33 Back to Stone St. to
get GPS data

13:56 Begin sampling Centredale
Mammoth Property

<u>Time</u>	<u>Location</u>	<u>Notes</u>
14:00	CMS-117	
14:12	CMS-118	
14:22	CMS-124	ms/msd
→ 14:36	CMS-138	
→ 14:27	CMS-131	
14:43	CMS-145	
14:49	CMS-152	
14:57	CMS-160	
14:57	CMS-160 dup.	
15:07	CMS-153	
15:17	CMS-154	
15:22	CMS-155	
15:33	CMS-147	
15:42	CMS-139	
15:50	CMS-146	
16:00	CMS-132	
16:05	CMS-133	
16:11	CMS-126	
16:11	CMS-126 dup.	
16:19	CMS-125	
16:25	CMS-127	
16:32	CMS-128	
16:40	CMS-134	
16:50	CMS-141	



2/18/99

NAME	TYPE	COMMENTS
L0400RF		
L0E400S	POINT	
L0E200N	POINT	NO REAL TIME DATA RF
NEW DATA FILE:		HALF THE POINTS ARE REAL
EM3161B		(48 POINTS COLLECTED) TIME
L110W1215S	POINT	HALF POINTS REAL TIME
		(62 POINTS COLLECTED)
L160W1220S	POINT	
L50W1200S	POINT	
L0W1200S	POINT	
L0W1120S	POINT	
L50W1120S	POINT	
L100W1150S	POINT	
L110W1150S	POINT	
L50W1100S	POINT	
L50W1000S	POINT	
L50W950S	POINT	
L100W950S	POINT	
L110W950S	POINT	NO REAL TIME DATA
L0W1030S	POINT	
L0W1100S	POINT	
L110E1100S	POINT	NO DATA POINTS
L110E800S	POINT	
L110E640S	POINT	HALF DATA REAL TIME
		(91 DATA POINTS)

2/12/99

NAME	TYPE	COMMENTS
L0W600S	POINT	
L10W600S	POINT	
L20W600S	POINT	
L30W600S	POINT	
L40W600S	POINT	
L50W600S	POINT	
L60W600S	POINT	
L70W600S	POINT	
L80W600S	POINT	
L90W600S	POINT	
L100W600S	POINT	
L110W600S	POINT	
L120W600S	POINT	
L130W600S	POINT	
L130W550S	POINT	
L120W550S	POINT	
L110W550S	POINT	
L100W550S	POINT	
L90W550S	POINT	
L80W550S	POINT	
L70W550S	POINT	
L60W550S	POINT	
L50W550S	POINT	
L40W550S	POINT	

2/18/99

NAME	TYPE	COMMENT
L30W550S	POINT	
L20W550S	POINT	
L10W550S	POINT	
L0550S	POINT	
RF L1006H0E		
L0W0S	POINT	AT TELEPHONE POLE TO THE LEFT OF DRIVEWAY AS ENTERING
L1006H0E RF		
L110E1100S	POINT	2nd attempt - still NO DATA - position is by P.D. - H. - John
1037 RF		
BACK TO TRAILER		

~~NAME~~ ~~POINT~~
~~PORTS18A~~

NAME	TYPE	
RC01818A	POINT	CMS-114 no data collected
"	POINT	CMS-127 pos. made is manual 3D

L10E11S

Manual 3D

"	point	CMS-126	man 3D
"	point	CMS-124	8 ft East of point no real time data collected
"	point	CMS-161	man 3D only 53 points collected no real time data
"	point	CMS-101	5 ft. East man 3D
"	point	CMS-089	
"	point	CMS-084	
"	point	CMS-091	man 3D
1	point	CMS-117	man 3D
2	point	CMS-119	man 3D
3	point	CMS-112	man 3D
4	point	CMS-164	man 3D
5	point	CMS-111	
6	point	CMS-103	
7	point	CMS-75	
8	point	CMS-118	
9	point	CMS-72	

7/11/91

CM 246 6:40

Circle 1 7:25

New GPS file 10217 12A

Time Sample Note

7:40

CMS-001

7:40

CMS-002 dup

7:50

CMS-002

7:59

CMS-003

8:08

CMS-007 dup

} NO GPS data

8:08

CMS-004

8:16

CMS-005

} only 3-4

8:16

CMS-005 dup

} GPS data in real time

8:27

CMS-006

8:36

CMS-007

} NO GPS data

8:41

CMS-008

8:49

CMS-009

} 17 real time points

9:00

CMS-010

} no real time data

09:07

CMS-011

} NO GPS data

09:15

CMS-012

} MS/MSD

09:21

CMS-013

09:35

CMS-014

} No real time data

09:43

CMS-015

} Not much GPS data

09:55

CMS-016

} NO GPS data

10:05

CMS-017

} GPS data

10:16

CMS-018

} 2011 GPS real time data

Time

Sample

Note

10:24

CMS-019

10:35

CMS-020

GPS with the bank

10:41

CMS-021

} No real time

10:41

CMS-021 dup

} GPS data

10:50

CMS-022

} only 1-5 real time data points

11:00

CMS-023

} only 1-5 real time data points

11:08

CMS-024

11:14

CMS-025

} MS/MSD

Went back and got GPS for CMS-001, CMS-011, & CMS-016. Data points were taken 10-30 ft off the river bank in order to be able to collect data.

Resume sampling 13:25

13:30 CMS-231

13:40

CMS-232

13:46

CMS-233

13:53

CMS-234

13:59

CMS-235

14:12

CMS-236

14:18

CMS-237

14:23

CMS-238

<u>Time</u>	<u>Sample</u>	<u>Notes</u>
14:30	CMS-237	
14:40	CMS-240	
14:48	CMS-241	
14:57	CMS-242	
15:30	Equip Blank	
15:52	Field Blank	
15:52	CMS-201	
15:57	CMS-204	
15:57	CMS-204 dup	
16:02	CMS-203	MS/MSD
16:08	CMS-205	MS/MSD
16:16	CMS-206	
16:23	CMS-208	
16:26	CMS-209	
16:33	CMS-212	
16:35	CMS-210	MS/MSD
16:40	CMS-211	
16:48	CMS-213	
16:56	CMS-214	MS/MSD
16:52	CMS-215	

Done 18:00 ——— AMD

2/18/99

On site 7:30

RAINY! APPROX. 40°F

0830 GIS CREW:

Amanda Daly - REAC

Brad Bowen - START

Sean Kennedy - START

Dan Crane - EPA

Rich Fisher - EPA

PURPOSE: GPS Geophysical survey lines

START FILE: EM3161

NAME	POINT	TYPE	NOTES
			RF
NAME	POINT	TYPE	NOTES
			RF

NAME	TYPE	COMMENTS
0E100S	POINT	
L1S100S	POINT	
L90E100S	POINT	
L75E100S	POINT	
L100E100S	POINT	
L100E302S	POINT	
L75E310S	POINT	
L50E340S	POINT	
L25E350S	POINT	

10	L10E115	point	CMS-74	
11	"	point	CMS-86	• no real time data
12	"	point	CMS-80	
13	"	point	CMS-74	
14	"	point	CMS-69	• no real time data
15	"	point	CMS-63	
16	"	point	CMS-57	• only 5 or 6 ^{3D} real time data points
"	"	point	CMS-55	• man 3D
18	"	point	CMS-38	• man 3D • only 23 data points
19	"	point	CMS-29	• man 3D • no real time data
20	"	point	CMS-37	• 11 ft. from point • 15 ft. ^(u) • man 3D • 4 satellites • no real time data
21	"	point	CMS-35	• man 3D • no real time data • 4 satellites • only 17 data points
22	"	point	CMS-38	• no data

23	L10E115	point	CMS-41	no data
24	"	point	CMS-44	no data
25	"	point	CMS-48	no data
26	"	point	CMS-44	no data
27	"	point	CMS-50	• man 3D • 4 satellites
28	"	point	CMS-54	• man 3D • 4 satellites
29	"	point	CMS-56	• man 3D • 4 satellites
30	"	point	CMS-58	• man 3D • 4 satellites
31	"	point	CMS-61	• man 3D ^(u) • 4 satellites • 4.5 satellites
32	"	point	CMS-72	