AVERY RAILROAD DUMP
AND ROUNDHOUSE

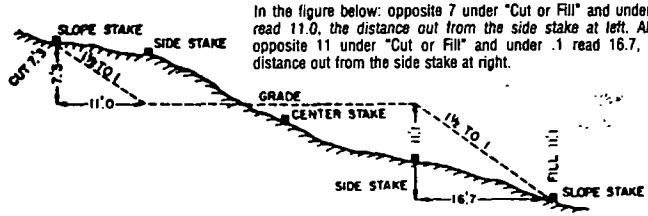
ALL-WEATHER
FIELD BOOK
No. 3509

USEPA SF
1242096

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.



Cut or Fill	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Cut or Fill
	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

Potlatch

Michael L. Fish, P.E.
Construction Services Manager

Potlatch Corporation
Western Division Woodlands
St. Joe Area

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SEATTLE, WA 98101
Phone 206 - 623 - 1800

Project Avery Railroad + Roundhouse
Site Inspection.
Proj# 62760.05
WA # 54-17-0JZZ

DCL#: 62760.05.20.143 1992
FILE NO. 15.61
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1	Site Visit Log.	5/4/92
9	Directions to site	5/6/92
13	Avery Sampling	8/25/92

Porter Lundbund 208-553-6688 - ESAT
Clyde Cody - 208 334-0556 IDHW
Monica Rollinda - 206 553-0323 USEPA-SAM
Laura Castrilli - 206 553-4323 USEPA-RSCC
Vivianne Larkin - 206 623-1800 // 224-5614 URS
Carol Dickison - 208 245-2478 Avery Wells.
Mike Fish - 208-245-6433 Potlatch - site owners

62760.05.02

CLIENT: U.S. EPA
LOCATION: AVERY, IDAHO
SITE: AVERY RAILROAD - ROUNDHOUSE
FIELD CREW: KARA STEWARD - URS
LARRY ZINKY - URS

10:30 - Potlatch - Mike Fish 5/5/92
Bill Hart

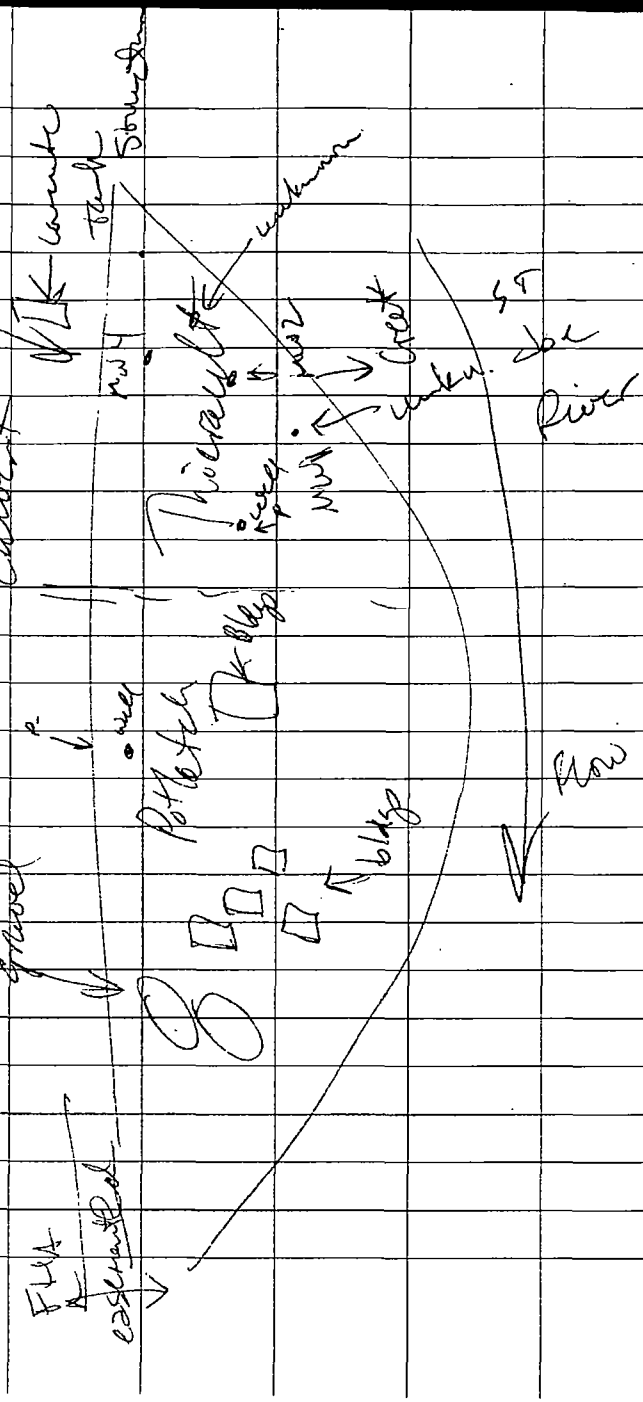
Sunny + clear -

Site wells
Seeps
RR trash loc.

Potlatch covered site w/ earth

PVC wells - 13

Stopped prior prob. inv. at center green bldgs.



Wells - 4 on East corner

All wells had petrol odor

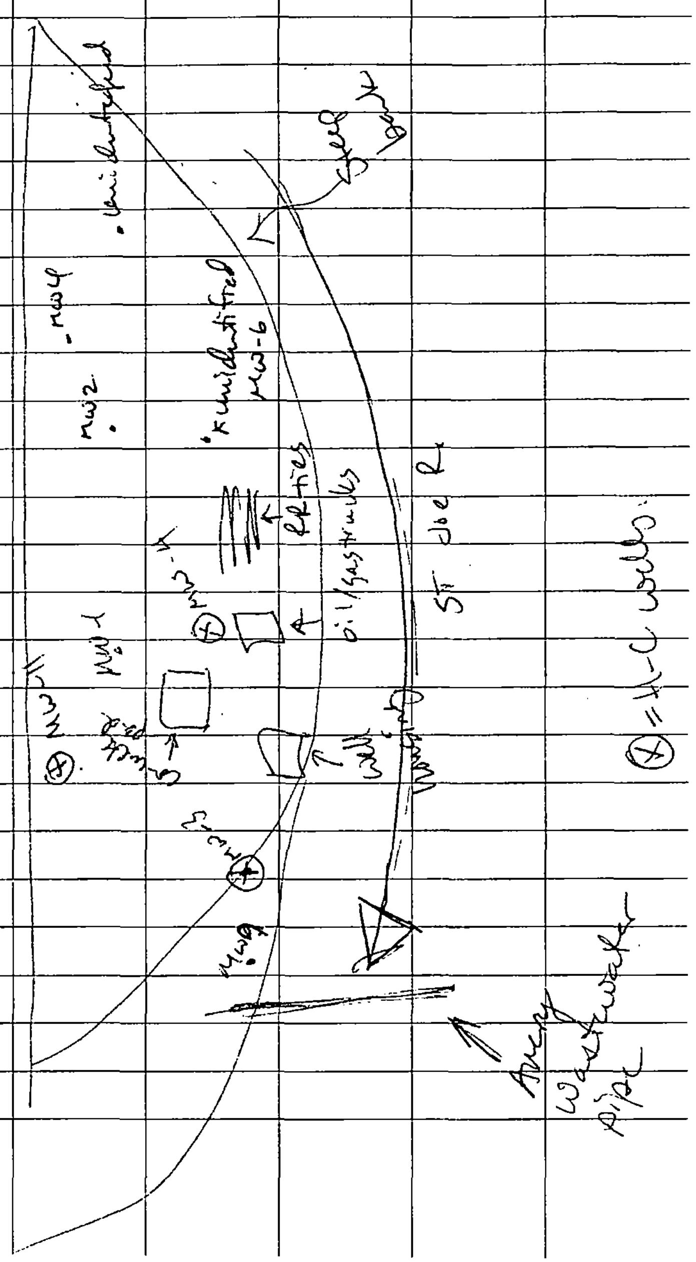
MW-1 MW-2 MW4

Creek above site flows into St Joe River Thru culvert

St Joe River - high spring volume - probably reduced to trickle during summer

Seep of tarry substance is currently underwater. during summer low seep is visible

Black hoses exiting the bank of site above the St Joe River - unknown purpose



No testing is being conducted recently of site MW's.
- H-C
- IDEQ

Concrete pad - poured by highway 5-6 yrs ago

Seep = approx. 25 yds west of well Housing.

Avery wastewater pipe passes over St. Joe R. + under site to WWTP west of site.

MW 9 + HC 1 were not located

Power is supplied for trailer hooks - that const. resulted in loss of HC-1

St. Maries RR -

Well located on east corner of property — contact city ?'s

~~8~~. 11=30 Am N. Fork St. Joe
Meets: Main Fork St. Joe

Mileage - 70.9
Transformer Site. located at
mileage - 71.3 under current
road construction

Possible Underground
Oil spill / Tank location identified
by Avery Resident
Bill Davis 208 799 1706 Potlatch Records Mgr.

12-1 pm - Lunch with Mike Fisht
Bill Hart - (*5).

1 pm - Walked along opposite edge (5) of
St. Joe River. Took several photos
of site.

1:30 located well that serves water
to the Log Cabin. Is across the

street from the Buddy's Tavern +
Cafe. Well site is protected by two
concrete freeway dividers

Also identified a water shed
located just up the hill from
the Cabins.

1:45 located Avery school well.
Well is housed in a structure
West of the school. ~~The~~ lock
on the building. Key is available from LARRY O'DONNELL.

2:20 USFWS ~~&~~ well. located
& housed in green building.

Mile 73.5 - 74.3

2:25 Deer seen returning to north
hill side. Crossed Highway from
site

2:30 Located all wells on the site and attempted to correspond locations to Hart-Crowser site map.

Site Mileage 22974.5 - Avery

23020.7 St M

23051.6 I-90

Division St 23103.9 Spokane
281

Rental car 23116.2 end mileage.

Site = Mile 0
PCB Transformer/Res well = 0.8 mile east of site
St. Joe Confluence (N Fork = 1.2 mile east of site

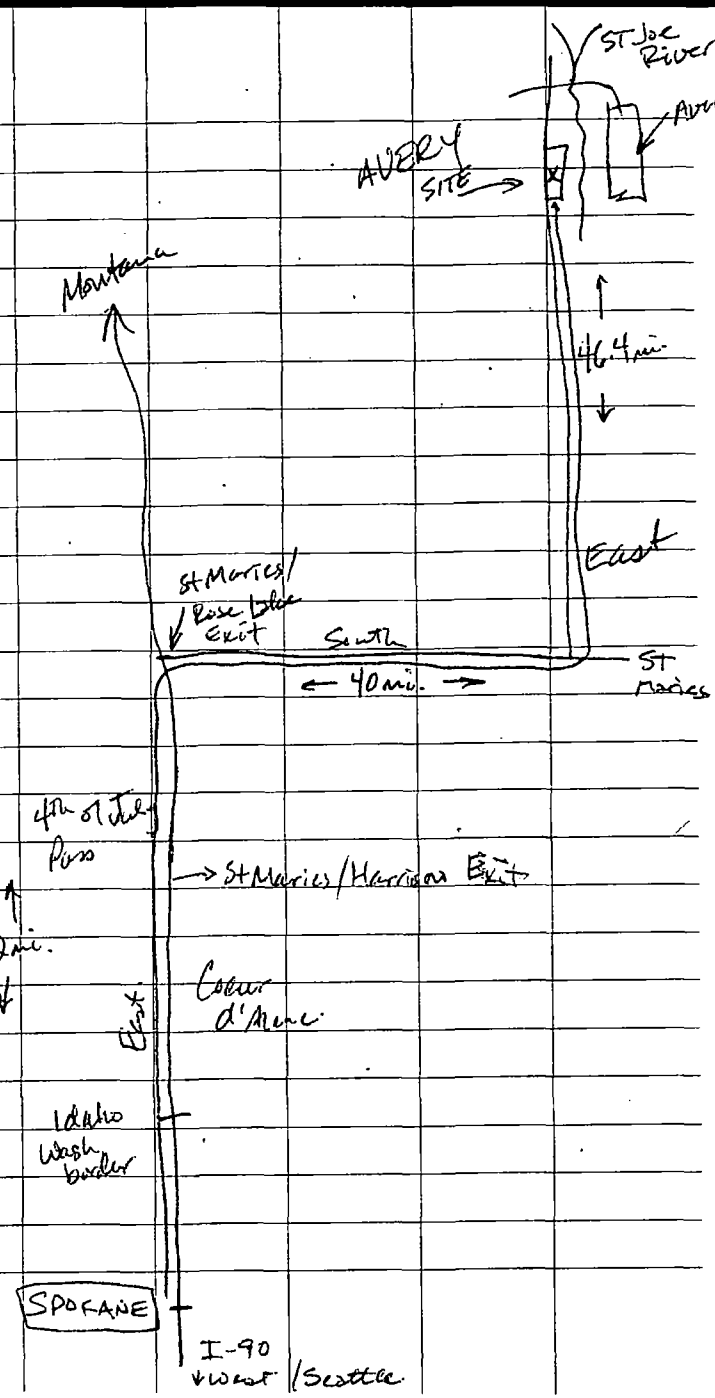
St. Maries = 46.4 miles west of site
I-90 = 30.9 miles North of St. Maries
Spokane = 52.3 miles west of I-90 interchange
(Exit - St. Maries/Rose Lake).
to Division St. Exit = Spokane

Directions to site: (from Spokane)
Head east on I-90 (toward Idaho) for approx. 50 miles (go over 4th of July pass). Take 2nd St. Maries exit (Exit for St Maries/Rose Lake - NOT St Maries Harrison)

Head South on Highway 3 for approximately 40 miles. Before entering St. Maries, turn left (east) into St. Joe Road. A sign to the right of Highway 3 indicates the turn to Avery.

Continue for approximately 46.4 miles toward Avery.

Site is located on the right side of the road, old green housing buildings are on the site. One resident is currently occupying a portion of the site (trailer + TV satellite dish).



Site Photos submitted for development
5/6/92 — to Mike Bauman 9AM
5/11/92 rec'd from M. Bauman 1PM

5/7/92
Phone conv. with Monica Rolluda (EPA-SAM - 553-0323)
* Would like to get together + discuss site visit + possibility of sampling. - Early next week.

5/15/92 - Meeting w. EPA to discuss sampling needs. - D. Flood, D. Bennett M. Rolluda.
Need to return for sampling to determine if the site is CERCLA or other program or return to state.
Need to sample: (per D. Bennett).
School well
Avery Sewer & Water Well
3 Stream Sediments - up, down, site
1 Leachate (seep)
2 site Monitoring wells (totally to dep pres. effort - no purging)
12 site soil (hand auger)
6 - 0-6"
6 - 6-12"

- Sampling plan was submitted to EPA SAM (Monica Pollnda on 7/9/92
- Resubmittal of plan – approval by SAM on 8/13/92.

Sampling scheduled for 8/25 + 8/26.
All samples to be shipped to EPA lab at Manchester.

Notified Siteowner – Mike Fitz 245-6433
Wellowner – Carol Dickison 245-3462
8/12/13/92

AVERY SAMPLING 8/25/92

Chris Lonergan – URS / SAC
Kara Steward – URS / SEA
Bill Hart – Potlatch Corp

TIME	ACTIVITY
0900	Brief site walk
0920	Contacted Carol Dickison to schedule city well + school well – Larry O'donnel will try to find us today
0940	HC-4 – unable to open well cap.
0943	MW-1 – PVC pipe was bent over + not accessible with the 2" bailer Not sampled.
	– MW-1 ORS probe 11' 1.5" total depth from top of casing to oil layer
0955	MW-6
	10.6 Total Depth
	Water level 10.25' to top of casing.
	Water level = .35'
	Insufficient volume for sample

Time	Activity
1007	MW-2 Total depth = 11.9' No water

Unable to sample site monitoring wells — insufficient water volumes

River Sediment Sampling
Approx 1/2 mile East of the site
At the eastern end of the property
Asphalt crew operating on the site just west of the sediment sampling location

Sample SS003 4 bottles of 8 oz.
Downstream Sed.

10:25	VOA	1	8 oz
	BNA	1	8 oz
	Pest/PCB	1	8 oz
	Inorg	1	8 oz

Provided split to B. Hart

1100 Sample SS002 4 bottles 8 oz.
Site Sed + ~~Dupl~~ Split. B. Hart

1130 Sample SS004 4 bottles 8 oz.
Site Sed dupl.

~~1130~~ 1200 ORS01 4 bottles 8 oz
Oily Seep + ~~Dup~~ Split. B. Hart

ORS02 4 bottles 8 oz.
Oily seep duplicate

Collected the river site sediment just downstream of the oily seep. Noted several other smaller seeps of oil along the river bank.

1200	Photo 1	East West of oily sample area	
1201	2	West second photo of oil sample loc. also site sed loc. just west of oil	
1210	3	Deer on site	W
	4	"	NW
	5	"	E

1230 SS001 Upstream sediment
4 bottles 8oz.
+ Split for B. Hart.

Photo 6 W 1250 Upstream Sed Loc

7 W 1252 Upstream Sed Loc

Site Soil Sampling

Noticed missing 1 box of 8oz. bottles (not including FedEx boxes that were reported broken to be rec'd 8/25 at Hotel (box 8oz Amber (H_2O) + 8oz (soil)).

SS01-1 0-6" Background
-2 6-12"

No on-site samples

Today.

8/26/92

WAW01

0837 Avery City Well on the North side of the river

2 40 ml vials VOA + HCl
2 8oz Amber Pest/PCB & BNA
1 1 l Inorganics + HNO_3

WATER MONITORING -
MUNI. WELL ON N. SIDE OF ST. JOE RIVER

pH	Temp.	Cond.
6.98	10.2°C	2.29 ms
7.04	9.7°C	2.29 ms
6.99	9.6°C	2.12 ms

Split to B. Hart

0915 Avery School well

WSW01

WSW02 dupl.

+ Split to Bill Hart

4 VOA 40ml

4 Pest/BNA 8oz

2 Inorg 1ml

pH	Temp. (°C)	EC (ms)
7.03	8.9	2.07
6.99	8.9	2.05
6.98	8.5	2.10

Distilled water VOA bottles

Trip Blanks WBW01

WBW02

Used Big Spring Aqua Perfectus Pure Distilled Water, Lewistown Montana 59457

0940 Opened to HC-4 - well capped #11

Probe = 9.1' deep

Not able to get oil probe to drop below 9 feet. Probe was removed and was layered with a thick oil substance.

0955 Located MW4 & MW9 on site

1015 MW4 - Flush mounted well Bailer would not descend after 10-14'

HC

1020 ~~MW3~~ - Well filled with greenish grease?

1110 SS01-1 2 bottles 8oz

SS01-2 2 8oz.

Split with Bill Hart

Located on east acre of site 50' from river (N)

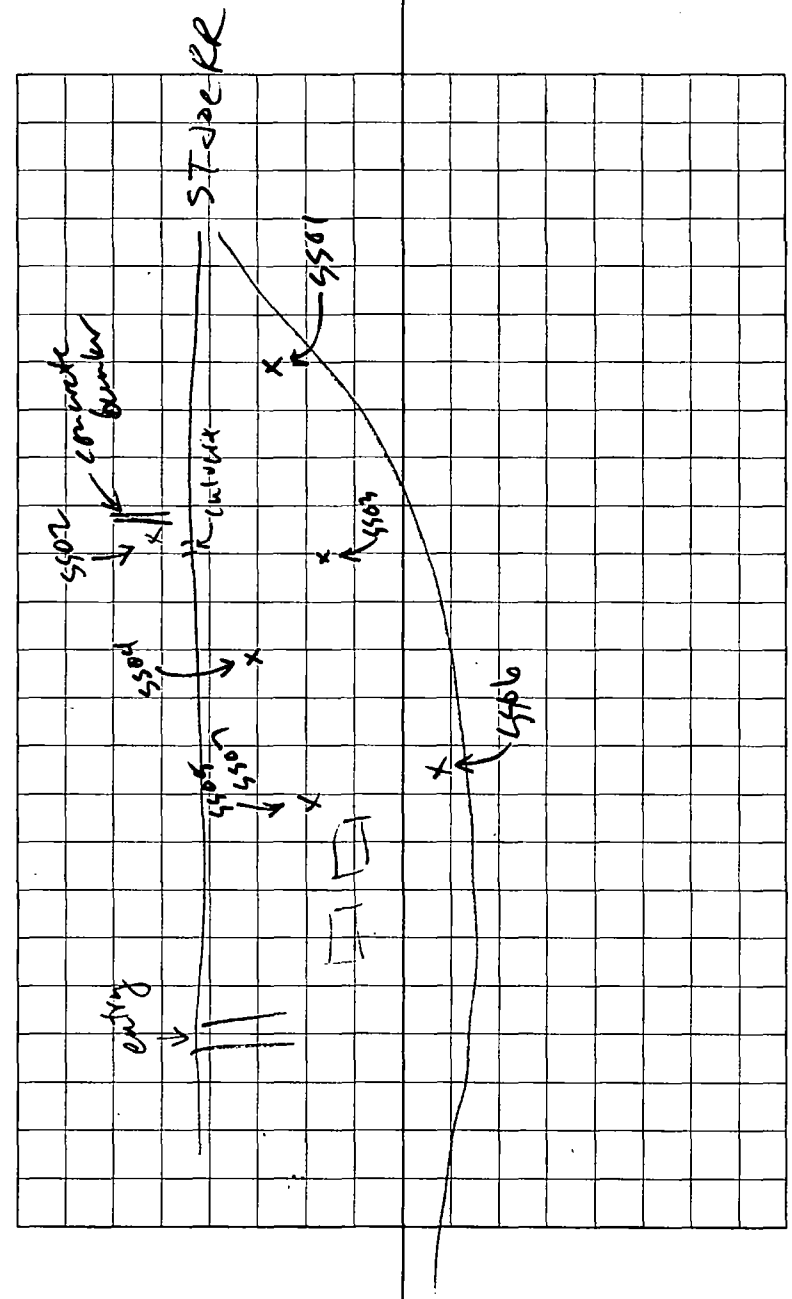
Background Site Soil

1135 SS02-1 0-6"
SS02-2 6-12"

Split with B. Hart
North creek in ravine
Location of old oil tank
storage tank
Just to the west of the remaining
concrete structure. ~30'
N of Roadway.
Moisture in sample

1145 SS03-1 2 803
SS03-2 2 803
Split Hart

Photo of 6-12" hole
~150' S of concrete
Soil had dark (black) color
- diesel odor
~100' N of river



1200 SS04-1 Split Hart
SS04-2
Lots of rocks
Along road bed on site, next to the St Joe River Rd.
~10' off road bed. (S) ?
~50' W of concrete old tank structure

1210 SS05-1 SS05-2
SS07-1 SS07-2 (dup)
Split Hart
~20' E of old RR bldgs on site
~200' E of Entry to site
~100' S of St Joe River Rd.

1230 SS06-1 SS06-2 Split Hart
~50' N of River
Almost directly S of SS05

SS06-1 Brown soil
SS06-2 Dark-black soil

8/~~28~~27/92 0530

Called Porter

Matrix	Anal.	# samples
H_2O	VOA	5
	BNA	4
	Pest/PCB	4
	Inorg	4
Soil/Sed	VOA	18
	BNA	18
	Pest/PCB	18
	Inorg	18
Oily Sed	VOA	2
	BNA	2
	Pest/PCB	2
	Inorg	2

Porter Lumboard (206) 553-6683
ESAT contact in Laura Castilli's absence.

Receipt of Data Results

Water	Date Rec'd	Valid Data
VOA	10/5/92	
BNA	10/19/92	
Pest/PCB	10/27/92	
Metals	10/9/92	
Soil/Sludge (oil)		
VOA		
BNA	11/30/92	
Pest/PCB	10/30/92	
Metals	10/26/92	