APPENDIX A

FIELD NOTES

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FIELD BOOK
BORING LOGS
TRENCH LOG AND DATA SHEETS
WELL DEVELOPMENT DATA SHEETS
GROUNDWATER SAMPLING DATA SHEETS
DAILY CHEMICAL QUALITY CONTROL REPORTS

USACE Former
NPD Lab. SI
53F0074212

"Rite in the Rain"®
ALL-WEATHER
LEVEL BOOK
No. 310

Book 1: May 2001 -
URS

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NPDL Site Invest. 5/17/01 1

Kickoff Meeting

1020 Arrive @ Site

investigation notes

House keeping - brush removal

drainage ditch -

1 sample north of flammable shed

ditch - 4 1/2 feet N.

Hazardous waste shed 50' ~~East~~ ~~North~~ South of flammable shed

drain plug sample/down stream - #1

~~Soil sample location - microwell~~

~~water sample NE of HWS Shed~~

~~10' NE of NE corner~~

↳ moved just S. of concrete casing

microwell/soil sample #2

#3 Freeze thaw drainage N of #2 in ditch - Soil sample downgrad.

4# Background - by MW + Utility Vault

Locks on Monitoring Wells.
6 wells - locks from comp

*New item - tsk-7A Clean up
S Clean out for building system
AL NE end of Main building
Soil sampling along header
along header
3 samples @ 5, 6, 7
Check depth @ sump
Building drain header

Benchmark on steps "NPDLab 96"

Transformers - #8, ~~[illegible]~~ 9, 10, 11
Sample around a
1 on N side of pad inside enclosure
3 on South edge of Enclosure
Mike Gross decides that not concerned
w/ taking sample underneath asphalt.

Dry Well
8" concrete pipe depth?
pcb, heavy TPH, TCA -
8 samples
1 micro well
talk to Geotech about Limited access
rig 12, 13, 14, 15
dimensions of fill may adjusted
Sample locations

Sump - (has water in base)
Lift pump system -
sediment sampling
Confined space - not locked due
to rust - uniform sampling

Oil house - drum storage shed

16 - Immediately N. of Storage shed
1 sample 2 depths <1 5'

Culvert - 17 - 2 depths

Backgrounds - 1 depth - 18
flexible location
No Of main building

19 - in area by landfill - "no stake" - Janette
well locations unknown
only 3 wells - Mike Gross

Landfill - drums -
Samples - ground surface +12" @ N toe
of fill

Samples directly from bladder pump
Ditch sample by hand - East of
landfill location confirmed by Mimi
disposed rather than dumped

Trenches - E-W

Landfill
pieces of concrete from Hanford
geiger counter not needed - MG

3½" x 4½" x 16"
purex soaked - brown crust

Jim Hines - Lab - 1984 - ?
concrete drums - 5? - only banded w/
sensors - find anything else - stop work

UST Patch - by
10,000
Mimi has construction log
10 yds removal contaminated tank
base of footing
asphalt - covered no stake
no wells - representative of toe wall
overfill South End sample
tank report? -

Grate south of boiler stack
boiler blow off

N-S - 24" patch - unknown origin

Lab begins a Roll up door W-1

"Groundwater direction is NW" MG
dependent on rivers.

Microwells will be West and ~~south~~ North of
door W-1
determine gradient and then determine
locations + depths of MW.

Geophysics - shut down

Soil samples - Umatilla - 33 buckets
Allergic Reaction
5 composites drum + haul
1 duplicate
Metals IDW
VOCs
Explosives
GBX
Sarin } Agents
Mustard.

Agent testing
Savannah
Deseret

Conclude

Meeting attendees:
Janette Ray URS
Andrew Zabel URS
Mamie Brouwer USACE Seattle
Mike Gross USACE Portland
Matt " "

NPDL Site Investigation
9/5/01 Janette Rau

0730 Janette Rau & Andy Zabel on site. Waiting for APS-utility locator to arrive.
0800 Mike Gross (USACE Portland) on site.
0820 APS (Steve Larson) on site. Paul Huebschman (USACE Portland) on site - discusses local geology with Andy Zabel. Paul is Oregon registered geologist.
0840 Geotech on site. Andy showing them around to verify the rig can access all locations.
Geotech Explorations, Tualatin, Oregon: Geoprobe unit
Keith Vidos
Arturo Madriguel
09:30 Conduct H&S Briefing
1000 Steve Wesley on site. Has fitting for hydrant, attaching it to hydrant on street

east of site.
1005 Setup at background location SS-1. Collect sample 0-1' bgs (required several pushes to obtain adequate volume). ~~Sample~~
1015 Collect sample SS-001-01 for VOCs (preserved in the field with methanol for high level & $NaHSO_4$ for low level), SVOCs, Pest/PCBs, Cyanide, metals.
1040 APS off site
1110 Set up at SS-14, southernmost cleanout pipe location.
1130 Sample SS-014-04. Same analyses as background location.
1150 Collect sample SS-015-05 (same analyses as previous)
PID readings:
SS-001-01 = 0
SS-014-04 = 0
SS-015-05 = 0
1210 Collect sample SS-016-05 (same analyses as previous)
PID = 0

1215 Notes for today:
- Decon procedure: alconox, potable water, lab di water, methanol (reagent grade) hexane (reagent grade), air dry. (Meth. & hex. in teflon bottles)
- Weather: overcast, occasional rain, occ. sun. 60's slight breeze.
- Sampling procedure: 4'x1½" sampler with lexan liner; for VOCs using syringe when possible and spatula otherwise

1245 Set up at drywell location SS-1B in center of former excavation. Begin probing; no native material to ~8' bgs

1300 Break for lunch. Mike Gross offsite. Steve Wesley offsite to pick up delivery of locks at motel.

- looked at sump - there is

4' of standing water in the sump. Mike Gross said we could pump water directly into sanitary sewer. Manhole located east of parking lot.

1345 Collect sample in native material 9.5-10' bgs in SS-13 in center of former drywell.
Water at 11.5-12' bgs. Difficult to determine due to fine grains and sloughing. (▽ MW-1 ~ 12' bgs)

1410 Collect SS-013-12.

1430 Set up at SS-009 at drywell. Native material at surface. Collect SS-009-08.

1500 Collect SS-009-11 at water table.

1520 Set up at SS-010 (drywell)

1535 Collect sample SS-010-08, and duplicate SS-310-08. (time 1530).

1555 Collect sample SS-010-12. Set up at SS-011.

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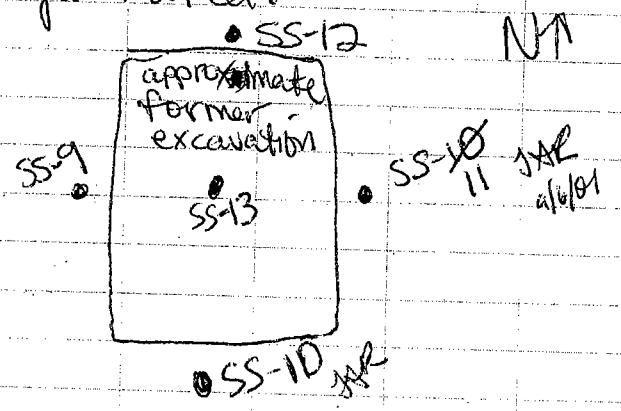
Janette Rau

1620 Collect sample SS-011-08
1630 Collect sample SS-011-12.
Set up at SS-012.
1650 Collect sample SS-012-08.
1700 Collect sample SS-012-12.
Paint thinner-like odor.
Collect duplicate. SS-312-11
(time 1710). PID ≈ 60 ppm
Complete sampling for day.
1730 Drillers off site. Steve Westley off site.
1800 Janette Rau & Andy Zabel off site.

Drywell area:



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0730 Janette Rau and Andy Zabel onsite. CDQCR faxed to Mamie Brouwer with field notes earlier. Geotech drillers on site (Keith Vidos & Arturo Madrigal)
0755 Set up at SS-8, drainage ditch, north end at NW Graham Road.
Weather today partly cloudy, 60's, still (no breeze).
0825 Collect sample SS-008-01. Concrete slab (1/2" thick) near surface, punched through it.
0830 Collect sample SS-008-05. Plus MS and MSD extra volumes.
0900 Collect sample rinsate SS-608-01 associated with SS-008-01. Collected in bowl and spoon after decon.
Mob to SS-7 at former oil storage