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Appendix A

Field Notes

7/13/92 Dave Cummings

9.45 Leave office to proceed to Riverside Chemical to pick up liquid for odor D. Sutton & K Baker

10.30 Arrive at Riverside Chemical and pick up same, proceed to 318 Union Street.

11.22 Arrive at 318 Union Street meet Dave Lacey then Dave Cummings proceed inside to indicate locations to be sampled inside and inform Dave of works to be done this week.

12.30 Break for lunch

1.00 Begin sketching out locations along Farnham.

7/13/92 prepare to commence sampling.

12.30

14.30 complete sampling along fence line, Bloor leaves site. prepare to locate sewer and utilities on site.

15.00 Complete locating utilities and sewers, marked on site, prepare to leave site.

15.30 arrive at office and prepare to ship out samples

7/14/92

10:00 Arrive at 315 Lenborn Street site. Baker prepare to mark boring locations

Weather: Overcast, threatening rain, Mild: 71°F, 5 + 10 mph winds.

10:05 commence marking boring locations.

11:00 completed marking boring locations. Dell E Dove Company about moving debris and machinery outside for rig access.

11.10 leave site for office

7/15/92

12.55 arrive at 318 Arbor Ridge site C.K. Baker and await arrival of drillers.

Weather: overcast, blustery rain, mild 68° winds S-W mph

13.00 Call office to find out status of drillers; Kelly states that they have called and are on their way to the site.

13.20 D. Lovegrave on site

13.50 drillers arrive on site. and proceed to make facility to access rigs access

14.20 oversee removal of equipment and stack pipe on rig for access to drilling pit.

7/15/92

14.55 Drillers leave site to procure grout and retrieval equipment - no drilling activities accomplished today.

14.58 Dave Lodey leaves site.

15.00 D. Sutton + K. Baker leave site for the day and proceed to their office. Will meet tomorrow at 7.00 am on site.

7/16/92

07.00 arrive at 318 Carbon Street
& Karen Baker and
assist drillers

Weather: sunny & some
clouds, pleasant 68°, no wind

07:05 Drillers arrive on site
crew prepares for days
work: installing casing
and obtaining samples.

07:38 rig moves to position
at B-10

07.44 crew sets up rig to drill

08:00 drillers need additional hydraulic
oil- and to purchase

08:10 additional oil added to hydraulics

7/16/92

08:20 commence drilling
Background on PID 0.0 ppm. MiniRam .00

08:22 problems & cathead-
hydraulic pump activity
stops to repair pump

X:33 commence collecting
samples.
0-2 .4 ppm Hole 1.8 ppm

08:44 2-4 1.4 ppm Hole
MiniRam .00
Spoon 0.0 ppm

09.00 8-10 1.4 ppm H 0.0 ppm S
MiniRam 0.0
There is visual indication of water
on the top of the bottom auger-
will recheck after auger open
to see if water seeps into hole.

7/16/92

09:05 prepare to move rig to inside location.

09:27 rig in position and preparing to drill C-2 & decoming augers.

09:43 mast cannot safely be raised at this location, crew will use rig to auger to depth and use tripod setup to obtain split spoon samples. Mini Ram 0.0

09:50 crew preparing to auger

10:05 augered through concrete; pit is 8.5 feet deep & 1 foot of concrete on floor, crew will use the augers to auger C-1 and C-3 then use portable collard to sample

7/16/92

10:05 rig moved to C-3 to auger

10:12 crew member reports to purchase speedy dry to absorb oil from hydraulic pump that was overfilled earlier.

10:13 driller set up over C-3 to begin auger, Mini Ram 0.0

10:14 begins to auger C-3 uses center stem drill rod to keep debris from entering auger hole. debris in this section of the pit is ready to the top of the pit

10:30 commence augering C-3

10:42 complete auging to 7.5 feet at C-3, through concrete, cuttings wet at 7-8 feet

7/16/92

10:50 C-3 was approx 9 feet deep & 6 in of concrete. Reading from soil:
C-2 10.4 ppm, C-3 14.2 ppm, 0 ppm breathing space. Mini ram 0.00

11:00 C-1 measures 6.5 feet - will use centralizer on this hole also. - driller goes to decon, enter drill stem

11:10 Commence augering C-1

11:20 Complete augering C-1 set up over C-B & tripod req. to prepare for sampling.

11:32 D. Sutton + K. Bodle proceed outside to collect surface soil samples

7/16/92

11:45 drillers leave for lunch

12:30 complete sampling A-1 and A-11 (staggered) break for lunch

12:45 drilling resumes from lunch

12:52 drilling continues to prepare to sample inside locations

13:00 commence sampling C-2

13:05 Mini Ram - 0.0
Spoon 0.0 C-2

13:20 complete sampling 2-4' at C-2, move tripod to next location - C-1
2-4' spoon for C-2
3 ppm

7/16/92

13:30 begin sampling C-1, sample C-2 reading inaccurate on split spoons due to rig exhaust.

13:58 crew sets up at C-1 and prepares to sample

14:35 complete sampling C-1 prepare to store equipment & grout tiles

15:13 p dullea pumps grouting, prepare to pull augers and decon, D. Sutton and K. Baker leave site and proceed to office to prepare samples for shipping

7/16/92

15:20 received written S-18 at 4pm. I. Visher calls D. Bradley to ask how to proceed if wellhead to be installed.

15:30 received written sale at 3 per cubic yard made called D. Bradley how to proceed concerning installing wells.

15:40 Dave Bradley stated that he does not know what GE wants as far as wells, he will call GE today and try to have an answer for our driller tomorrow, he also stated that if the driller needs to return at a later date he will be paid to install wells then.

7/19/92

15:45 D. Sutton & K. Butler leave site and proceed to office.

16:15 arrive at office and prepare samples for shipment

7/20/92

10:00 arrive at 3/8 Urban Street. K. Butler & D. Sutton are on site and are drilling activities. Drill rig is being repaired at this time.

Weather: sunny & warm - 82°F, wind 5-15 mph Southerly

10:10 discuss phone conversation I had w/ Dave Brooks of ~~Enviro~~ Environmental Protection Agency concerning sample list and how to map and sample storm sewer system which is part of site activities. Activities are completed to date. The notify Mr. Lyons to map locations.

10:20 drilling activities

8/92
Commence

10:30 I will check boring that were left open for water level.
B-18 2.65 ft, unable to obtain level from auger drum & cuttings is covering hole, will obtain later in the day.

10:35 Will call Dave Bradley late concerning access agreements and today drilling progress

11:00 Drilling activities continue

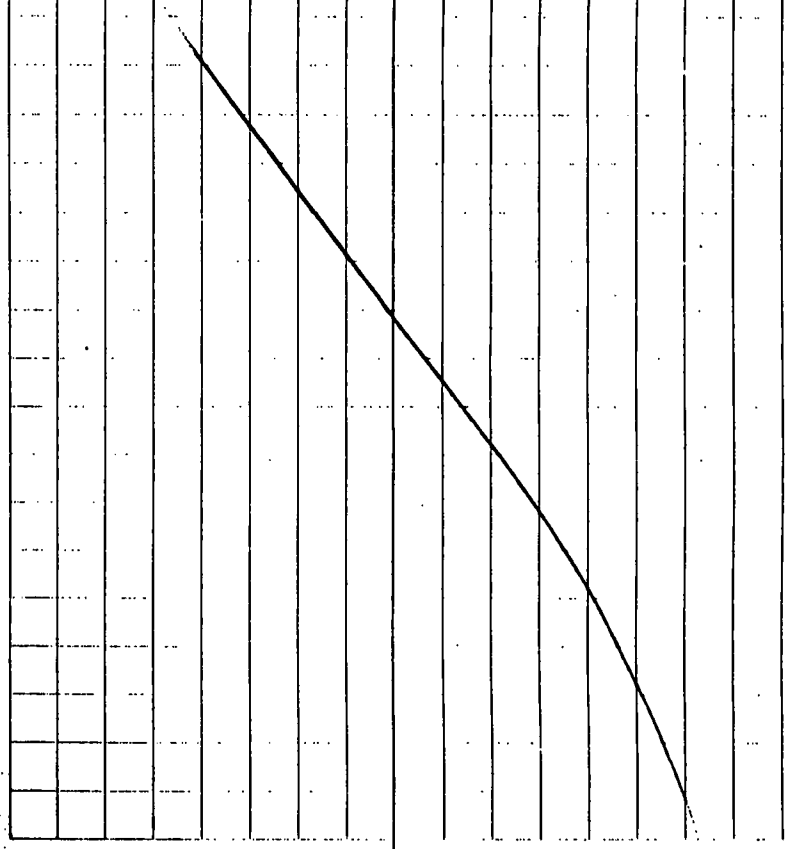
11:30 Break for lunch

11:44 Drillers move to new locations and decon augers

12:13 Drill crew + samplers break for lunch

8/20/92

12:30 Drilling activities to proceed to Pace



~~SS-7140~~ SS1-7220 NASDC

7/21/92

12:10 arrive at 35 Union Street site - Bob Fabian + Karen Baker are already present + working with drillers.

12:15 drill crew starts on first boring to be drilled

12:40 drilling completed, crew breaks for lunch.

12:50 attempt to contact Dacy concerning access agreements

13:15 remove top of UST on site and measure to top of fluid and total depth. 13½ ft from top of vent pipe, 1½ feet of fluid

13:30 obtain sample A-1 from front of storage building, w/ hand auger

7/21/92

13:45 call Lancaster Sewer Comm. to see what kind of permit is needed for sampling.

14:30 Complete taping sewer for sampling, drillers continue to grout borehole.

14:40 called D. Dacy to check progress on access agreements

289, 293, 297, 299?, 303?, 305?, 307, 309*, 311, 315 Tenants

IRM - MOSS - Nine Bar
Talk to Dacy

PCBs in oil, characterization of fuel oil, water content
1-803

Dave stated that he was talking to tenants concerning

Tenant contact candidates

7/21/92

access for sampling at applies as of we have the majority of the agreements from the late next.

15:10 Called Dave Bradley for progress report.

15:20 Talked with drillers they will return on Monday to move drums and grout the last four holes.

15:30 prepare to leave site. Check progress of grouting and status of open holes.

15:50 leave site for the day

7/22/92

07:00 Arrive at 318 Urban St & set up Bureau of Reclamation to start sample location following previous days investigation.

Weather: Clear - 75° and 0-5 mph, Cloudy

09:10 prepare sampling bags and continue to stake locations

11:30 Break for lunch

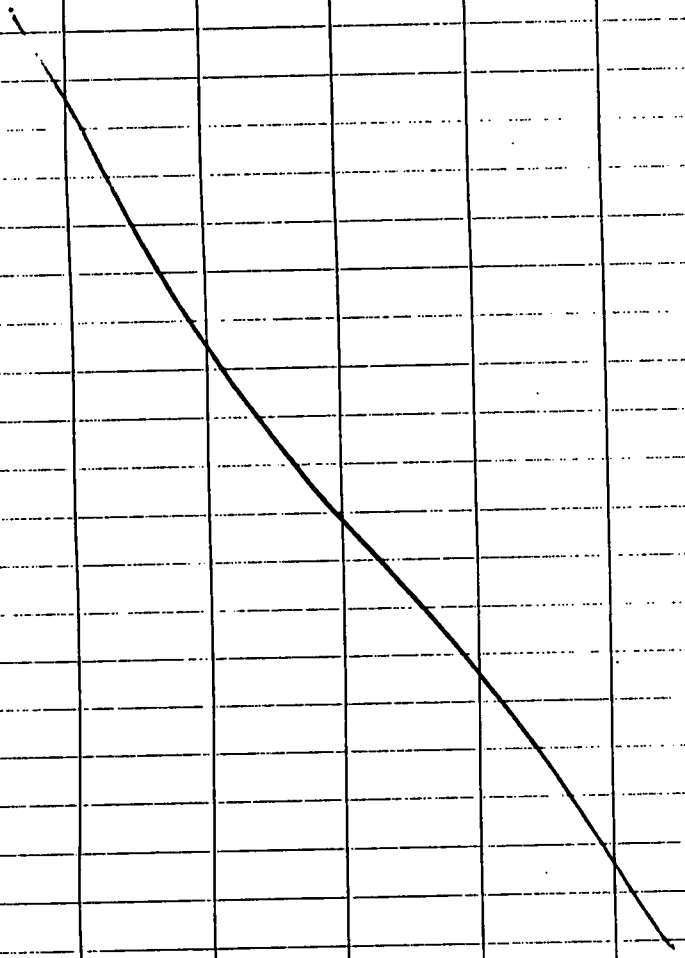
12:06 Contact Dave Bradley concerning disposal of investigation drums and sample next week.

12:19 Continue to stake former sampling locations

14:00 Complete work on site & prepare to

1/22/92

14:00 leave site for the day.



1/23/92

08:05 arrive on site at 318 Union St Baker and Watkins on site directly overseas.

Weather: overcast light rain, cold - 50°, no wind

08:08 met Bob Kamb plan days work - oversee surveys, sample storm sewers + UST

09:00 complete sampling UST TP reading 45° Spirit x Tank-Mark

09:30 proceed to SEW-6 location and take field Blanks, prepare to obtain sample from bottom of manhole. Sample this location at the request of

7/23/92

09:30 Dave Lacey & Tim NYSDEC, DEC take split

09:45 complete sampling SEW-6 & prepare to move to next location SEW-4

10:12 complete sampling SEW-4; spoke to Dave Lacey concerning what will be done & open boreholes, I told him I would call Dave Bradley and/or Contact him with what further action we will be taking. I also indicated that we wanted to use a mini-ion during the off site sampling instead of a Mass meter. Dave Lacey stated that he didn't see a problem with this but would get back to me if there where.

315, 311

7/23/92

We also spoke about cross connects, Dave Lacey stated that he was only working on one more agreement. I said we have tentatively scheduled to begin work on Tuesday. Note: Dave Lacey indicated that we may need to do dye study on the sewer but will wait until we receive results from today's samples.

10:32 Spoke to Dave Bradley concerning the above. He is concerned about agreements on covered residence. He has the following agreements: 287, 293, 299, 303, 307, needs 305, unbel 309, 299 - no } known use
309 - get }
also 315, 311

7/23/92

10:40 prepare to leave site and proceed to office

(Sweeney)

7-13-92 318 Urban St. Buffalo NY

Conditions: 70's, partly sunny

8:00 Arrive at office, work out details for today's activities

9:45 KEB, DGS pack up equipment and leave for North Tonawanda (Riverside Chemical Co.) to pick up hexane

10:30 Arrive @ Riverside Chemical & pick up order

11:20 Arrive on-site; David Locey (DEC) is already on-site, but we will eat lunch first so he leaves Site

11:30 Break for lunch

12:00 Resume work — marking locations for hand auger samples along plant side of N fenceline

12:15 D. Locey returns to site

12:30 Prepare to sample @ W-most fenceline location (50' E of W end of residential fences)

12:35 0"-6": brown-gray brown sand and silt, gravel

6"-12": brown sand & silt, some gravel & clay

7-13-92

12"-18": brown-dk gray silt & sand, some clay & gravel
18"-21": Sample collected; FB-1 18"-21" brown-gray silt & sand, some clay & gravel
21"-24": same, slightly less clay
24"-28": same
12:45 FL-1, 30"-32": same
Readings on sample -
MiniRam = 0
Microtip (hole) = 3.7 (sample) = 0.3 (instrument purged)
12:55 Collect FB-1; rinse of pre-decon'ed augers to be used @ FL-2
13:00 Begin collecting FL-2 w/ hand auger
0"-6": dk brown silt, some sand, gravel, some cinders
6"-12": gray-brown sand & silt, some clay & gravel
12"-18": same
FL-2, 18"-21": same, dk gray-brown
D. Locey takes split sample

7-13-92

MiniRam = 0
Microtip (hole) = 0; (sample) = 0
21"-23": same, but auger is scraping on pieces of orange brick - hit refusal (will not take 30" sample)
13:20 Attempt to sample FL-3
0"-6": dk. brown sandy silt some gravel
6"-12": Brown sand & silt, gravel, little clay
12"-18": brown, sm. amt. clay
FL-3, 18"-21": same, contains wood from tree root
also collect DUP-2 at this depth
21"-26": same, trace clay
FL-3, 26"-28": same
MiniRam = 0
Microtip (hole) = 0 sample = 0
13:40 Attempt to sample FL-4
0"-5": dk. brown sandy silt, some gravel
5"-9": brown sand & silt w/ clay, gravel
9"-12": same, slightly less clay

7-13-92

12"-18": same
13:50 FL-4, 18"-19": same (hit refusal)
MiniRam = 0
Microtip (hole) = 0 Sample = 0
and FL-4 18"-19" MS/MSD
14:00 Attempt to collect FL-5
0"-6": brown-dk. brown sand & silt, some gravel
6"-12": same, little clay
12"-18": same
14:05 FL-5, 18"-21": same
21"-28": same, less clay, larger gravel
14:10 FL-5, 28"-30": same, mostly sandy silt, little clay
14:15 D. Locey leaves site for day
KSB, DGS pack up equipment
14:30 Attempt a utility search by observing where manholes, grates, pipes, meters, etc. are located
15:05 Leave site for day

(Sweeney)

7-14-92 318 Urban St. Buffalo NY
Conditions: 70's, overcast
10:00 KSB, DGS arrive on-site, prepare to stake boring locations
11:15 Leave site for day
11:30 Return to office

7-15-92 318 Urban St. Buffalo NY (Sweeney)
Conditions: high 60's, overcast/rain
13:00 KEB, DGS arrive on-site; await drillers

13:30 D. Locey arrives on-site (DEC)

14:00 Drillers arrive on-site Martin, Red, Zeke of TDS
Scope out what needs to be done/moved in preparation for starting work tomorrow AM

15:00 All leave site for day

7-16-92 318 Urban St. Buffalo NY (Sweeney)
Conditions: 80°, sunny
6:30 KEB, DGS arrive @ office to pick up van
7:00 Arrive on-site; Await drillers
7:10 Drillers arrive on-site; move equipment in preparation for drilling B18
~~Drilling begins @ B18 through asphalt~~ KEB
7:40 Red leaves to get hydraulic oil for rig
8:05 Red returns
8:20 Drilling begins @ B18 through asphalt
8:40 S.S.-1 (0'-2') 9, 9, 10, 9 Rec=14" (after a delay)
upper 8": dk. brown-black cnf sand, some cnf gravel trace silt, moist-wet; lower 6": brown-dk. brown silty clay, little cnf sand, trace gravel (Sample moist, plastic)
8:45 S.S.-2 (2'-4') 8, 8, 9, 9 Rec=16" brown silty clay, little cnf sand, trace gravel, damp-moist, plastic
9:00 Drilling reaches 8'

David Locey (DEC) is on-site

7-16-92

9:05 SS-3 (8'-10') 6, 9, 12, 17 Rec = 24" brown silty clay, trace crse sand & gravel, very plastic, damp — base of sample is moist, wet; driller notes water on augers/spoon @ ~10' (this hole will be left open over weekend to see if ground water is present

9:15 Move rig into building

9:20 Set up over C2

9:45 Attempt to raise mast — there are overhead beams in the way; will have to use tripod to take split spoons after using rig to drill through concrete

NOTE: Drilling is taking place w/ 3¼" HSA

PPE is Level D: tyvek, booties, hard hat, boots, gloves

7-16-92

C2 is being drilled in the unloading pit; rig is backed up to the pit, drillers stand on metal skid straddling the pit on the N side. The pit is estimated to be ~6' deep to concrete bottom, and has a heap of debris inside

9:55 Drilling begins @ C2 through debris

10:00 Reach concrete floor @ ~8.5' below floor grade — Begin drilling through concrete

10:05 Drilling reaches ~9.5' below grade (have gone through concrete); concrete is approx 1' thick

10:10 Will leave augers in hole and do the same @ C1 & C3 before bringing in tripod to sample all 3

10:15 Set up over C3

10:20 Drilling begins @ C3 (through debris)

10:25 Drilling reaches 4.5' below grade — D. Locey is

concerned that they are not drilling with a plug (only open augers) since there is so much ~~dead~~ debris in the pit

10:30 Drillers insert stem w/ plug

10:35 Resume drilling

10:45 Drilling reaches 9'-9.5' (have drilled through ~6" concrete) wet material brown 7'-8'

[NOTE: Martin has ~~is~~ been decorning augers from B18]

11:00 Set up rig over sump for boring C1

Depth of sump is measured @ 6.5' (don't know if this is debris or cement

11:10 Decon stem & plug before drilling

11:15 Drilling begins @ C1

11:20 D. Locey leaves site

11:25 Drilling reaches 8'

11:35 Set up tripod over C2

11:50 KRB, DGS Resample A1 and take DUP-3 (0"-12") collected 5" E of orig location

12:10 Collect (re-sample) A-11 & A11 MS/MSD, 4" E of previous location (Drillers had left site for lunch)

12:50 Drillers, D Locey have returned to site

13:05 Begin sampling C2 w/ tripod

13:10 S.S.-1 (0'-2'/9.5'-11.5') 12, 11, 17, 29 ~~Rec~~ Rec = 14" red-brown silty clay, trace cmf sand & gravel (slightly more gravel near top) dry-damp, very plastic

13:20 S.S.-2 (2'-4'/11.5'-13.5') 24, 29, 23, 26 Rec = 23" red-brown silty clay, trace cmf sand & gravel, damp, very plastic — Begin sampling C3

13:45 S.S.-1 (0'-2'/9.5'-11.5') 7, 10, 13, 18 Rec = 14" brown silty clay, trace cmf sand & gravel, spoon wet, saturated, sample is damp-moist, very plastic

13:50 S.S.-2 (2'-4'/11.5'-13.5') 10, 13, 28, 26 Rec = 22" brown silty clay, trace cmf sand & gravel, spoon is saturated, sample is damp-moist, very plastic

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(D. Locey left site @ ~13:40)

14:10 Move tripod to C1 location -

14:15 S.S. -1 (0'-2'/8'-10') 3,5,10,11 Rec = 8"
brown-gray/brown silty clay, spoon is wet - saturated, sample is moist, plastic; lower 4": same, w/ cmf sand, moist-wet

14:30 S.S. -2 (2'-4'/10'-12') 23,25,29,34 Rec = 22"
upper 5": gray-brown cmf sand, wet - saturated, loose
lower 17" gray-brown silty clay, trace gravel and some cmf sand, moist-wet, somewhat plastic

15:15 Drillers have grouted hole; KEB phoned D. Bradley regarding the # of spoons to be taken @ the 10-ft borings; he said the 3 being sampled were enough

15:20 Martin measured water in B18 @ ~4'

15:25 KEB phones D. Bradley w/ this information - he asked that we accurately measure water depth & then measure again in AM

7-16-92

15:30 B18 water measured accurately @ 3'

15:40 DGS phones D. Bradley - the outcome is that we will continue w/ the 3 other open borings as planned, measure water depths, & meanwhile D.B. will speak w/ GE regarding well installation (possible

15:50 KEB, DGS leave site for day; drillers are finishing up decon & loading equipment

16:10 Take FB-3, rinsate of hand auger used to collect A1

16:30 Pack up samples for shipment

17:25 Drop sample coolers @ Federal Express for shipment

Drillers left site @ 16:30

(Sweeney)

7-17-92 318 Urban St. Buffalo NY

Conditions: 70's, Rain

6:30 KEB meets T. Wittlinger @ office; leave for site

6:50 Arrive on-site; await drillers

7:00 (It is already pouring, and I did not get a chance to measure water level in B18)

7:15 Drillers arrive on-site (Martin, Red & Zeke)

7:25 Zeke leaves site w/ tripod.... and rig keys (Red wires the ignition)

8:00 Rain is still too heavy to work in — monitoring instruments could not be used

8:20 Rain has let up somewhat — Set up rig over B24 in front of loading dock

8:35 Drilling begins @ B24 through asphalt (Rain has let up for now)

8:40 S.S.-1 (0'-2') 4&12,11,3 Rec= 12"
upper 6": lt. brown cmf sand and gravel, trace silt, loose, dry
lower 6": dk. brown silty clay, little cmf sand and gravel, moist, somewhat plastic

7-17-92

8:50 S.S.-2 (2'-4') 9,11,10,13 Rec=10
red-brown silty clay, trace cmf sand and gravel, plastic, damp

8:58 Drilling reaches 8'

9:05 S.S.-3 (8'-10') 7,11,17,12 Rec=14"
red-brown silty clay, little cmf sand & gravel, damp-moist, fairly plastic

9:10 David Locey (DEC) arrives on-site — he discusses moving the B22 location W to the building-side of the sewer line)

9:25 D. Locey leaves site briefly; Rig is set up over B23

9:30 S.S.-1 (0'-2') 11,5,4,5 Rec=12"
upper 4": lt. brown cmf sand, some cmf gravel, trace silt, loose, dry-damp
lower 8": dk. brown-brown silty clay, little cmf gravel, trace cmf sand, moist, plastic
(drilling through asphalt)

9:35 S.S.-2 (2'-4') 3,3,5,8 Rec=14"
brown-dk. brown silty clay, trace cmf sand & gravel, plastic, moist (contains some loose sand - may be fall-in)

7-17-92

D. Lovey Les returned to site

9:45 S.S.-3 (8'-10') 5, 15, 18, 20 / Rec=14
gray-brown silty clay, trace cnf sand & gravel, very plastic, moist (spoon is lined) separates
Work stops because of sudden heavy downpour

10:00 Rain ceases — work resumes

10:20 Set up rig over B21

10:30 KEB takes EB-4; rinsate of split spoon to be used @ B21, ~~[illegible]~~ 2'-4'

10:37 Drilling begins @ B21 through asphalt

10:45 Drilling has reached 1.5' — there was ~1.5' concrete below the asphalt - will begin sampling here

10:50 S.S.-1 (1.5'-3.5') X, 12, 14, 12 / Rec=6"
gray-brown cnf gravel, some cnf sand and silty clay, loose, moist [fill]

11:00 S.S.-2 (3.5'-5.5') 6, 4, 5, 7 / Rec=0
no recovery
There is a lot of trouble drilling, so will not re-attempt a sample @ this depth

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11:03 Drilling reaches 5' and has been going easier, so will take a split spoon here, per DEC request

11:05 S.S.-3 (5'-7') 5, 7, 9, 13 / Rec=23"
upper 10": dk gray-~~[illegible]~~ black silt, some clay and cnf sand, moist-wet, slightly plastic (may be fall-in - seems to contain few cinders)
lower 13": gray-brown silty clay, trace cnf sand & gravel
x MS/MSD

11:15 Drilling reaches 8'

S.S.-4 (8'-10') 9, 12, 16 / Rec=16"
brown silty clay, trace mf sand & f gravel, very plastic, damp-dry

11:25 Set rig up over B22 (B22 is being located W of sewer line per DEC request

11:35 Break for lunch because another sudden downpour starts

12:35 Work resumes - Jeke has returned w/ a part for the rig

12:50 Drilling begins @ B22 through asphalt

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12:55 S.S.-1 (0'-2') 2,2,4,3,4 Rec = 12" brown silty clay and cmf gravel, little cmf sand, fairly loose, moist-wet

DEC split

The augers have hit refusal, so the drillers move to a location 3' North of original hole & begin drilling (will not bother taking another 0'-2' spoon)

13:00 Drilling reaches 2'

S.S.-2 (2'-4') 11,6,5,5 /Rec=8" brown-dk. brown cmf sand and silt, little clay and gravel, fairly loose, moist

13:10 Drilling reaches 8'

13:15 S.S.-3 (8'-10') 12,8,13,16/Rec-14" AND DUP-4 red-brown/gray silty clay, trace cmf sand & gravel, very plastic, damp-dry

David LeCoyle leaves site

13:55 Drillers move B23/24 drum over to back of building

14:00 KEB measures B18 water depth 1.8'

14:05 Zeke grouts B23 - the holes will be grouted to

7-17-92

w/in 2" of grade, and later will be patched w/ asphalt to grade

14:10 Equipment has been moved to decon. pad - decon begins while Zeke continues grouting

It is raining again and no more work will take place besides decon (~ 1hr) and grouting (~ 3-4 bags grout) - Drillers will also repair rig pump. B22 will remain open for a week - it is covered w/ the cuttings drum & had no water in it when covered

14:15 KEB, Jeff leave site for day

14:30 Arrive @ office - prepare samples for shipment

15:00 KEB drops off sample cooler @ Federal Express

[redacted]

Drillers stayed till ~ 4pm

7-20-92 318 Urban St. Buffalo (Sweeney)

Conditions: low 80's, sunny

7:15 K&B meets RTF @ office; pick up van

7:30 Leave for site

7:45 Arrive on-site; await drillers

8:15 Drillers arrive; set up over B3 (Martin, Zeke, Red)

8:20 Measure water depth in B22 @ 2.9'

8:30 Measure water depth in B8 @ 2.4'

8:35 Drilling begins @ B3 (through soil)

8:40 S.S.-1 (0'-2') 2, 9, 9, 11 / Rec = 12"
upper 6": dk. brown silt, some cmf sand, little cmf gravel, trace clay, moist
lower 6": cmf gravel, little cmf sand, trace silt, dry, loose

8:45 S.S.-2 (2'-4') 6, 5, 4, 8 / Rec = 10"
red-brown/brown silty clay, little cmf sand & gravel, moist, fairly plastic

8:50 Drilling reaches 8'

7-20-92

8:55 S.S.-3 (8'-10') 8, 9, 12, 14 / Rec = 22"
(see below)
Problems w/ rig before spoon is finished & a gear splits

9:15 Martin & Zeke leave site to pick up part for rig
- K&B phones D. Bradley regarding what intervals to split spoon for the borings, which are to have only 8'-10' depths sampled; he said to use judgement

10:10 DGS arrives on-site to supervise

10:25 Repairs are finished - remove split spoon
(S.S.3) red-brown silty clay, little cmf sand & gravel, fairly plastic, damp-moist

10:30 Set up over B1

10:35 S.S.-1 (0'-2') 2, 7, 13 / Rec = 12"
dk brown silt, some cmf sand, little clay and cmf gravel, fairly loose, moist

10:40 S.S.-2 (2'-4') 3, 7, 7, 9 / Rec = 12"
brown silty clay, little cmf sand & gravel, fairly plastic, damp-moist

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10:48 Drilling reaches 8'
10:50 S.S.-3 (8'-10') 11, 10, 15, 22/Rec = 24"
brown silty clay, little crs sand & gravel, fairly plastic, damp
11:00 DGS had spoken w/ D. Bradley earlier, and had been told to follow work plan regarding split spoons at the borings — the work plan describes collecting a spoon from 8'-10' only, so the remaining borings (B2, 4, 5) will only have one spoon taken
11:05 Set up rig over B4
11:15 Drilling begins @ B4
11:25 Drilling reaches 8'
11:30 S.S.-1 (8'-10') 9, 10, 12, 18/Rec = 23"
brown silty clay, little crs sand & gravel, damp, fairly plastic
11:40 Set up over B5
11:45 The steamcleaner is having problems, so Zeke leaves to pick up another one

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11:50 Drilling begins @ B5
12:00 Drilling reaches 8'
12:05 S.S.-1 (8'-10') 11, 12, 13, 14/Rec=28"
brown silty clay, little crs sand & gravel, damp, fairly plastic
12:15 Break for lunch
12:30 DGS leaves site for day
13:10 Zeke returns — he needs Red to go w/ him for a NYS Driver's License —
13:15 They leave
13:30 KEB, RTF take FB-5; rinsate of split spoon to be used @ B2, 8'-10' (hand-deconned)
14:05 Zeke & Red return — Begin decon of augers
14:20 Drilling begins B2
14:30 Drilling reaches 8'
14:35 S.S.-1 (8'-10') 5, 9, 11, 15/Rec=18"
red-brown silty clay, trace fn sand & gravel, damp, very plastic
14:50 Set up over B11
(Zeke is deconning augers while drilling takes place so that

drilling does not need to be interrupted)

14:55 Drilling begins @ B11 through weathered asphalt

15:00 S.S.-1 (0'-2') X, 3, 16, 11 /Rec=14"
upper 9": brown cmf sand, contains cinders, moist, loose
lower 5": gray cmf gravel, some cmf sand, trace silt loose, dry

15:03 S.S.-2(2'-4') 4,5,6,6 /Rec=8"
AND MS/MSD
brown-dk. brown silty clay, little cmf sand & gravel (more silty than other clays), somewhat plastic, wet-moist (spoon is saturated)

15:10 S.S.-3(8'-10') 15,18,17,19/Rec=12"
brown-dk. brown silt, some clay & cmf sand, somewhat loose, moist-wet.

15:20 Set up over B10

15:25 SS.-1(0'-2') X,5,13,10 /Rec=8"
(drilled through asphalt)
upper 5": brown cmf sand, trace gravel, contains cinders, loose, moist:
lower 3": gray cmf gravel, some cmf sand, trace silt, loose, dry

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15:30 S.S.-2(2'-4') 10,6,4,5 /Rec=0
no recovery

15:35 S.S.-3(4'-6') 3,5,7,10/Rec=5"
brown silty clay, little cmf sand & gravel, moist, somewhat plastic

15:40 S.S.-4(8'-10') 6,9,5,9 /Rec=20"
brown silty clay, trace cmf sand & gravel, damp, very plastic

15:45 Set up over B9
begin to drill through asphalt

15:48 S.S.-1(0'-2') 6,3,4,7 /Rec=14"
upper 10": brown cmf sand, trace silt, contains cinders, loose, moist;
lower 4" brown silty clay, little cmf sand & gravel, damp, fairly plastic

15:50 S.S.-2(2'-4') 8,6,7,8 /Rec=10"
brown-dk. brown silt, some cmf sand, and clay, little gravel, fairly loose, moist

DUP

16:00 S.S.-3 (8'-10') 12,8,12,19 /Rec=20"
red-brown silty clay, little cmf sand & gravel, damp, plastic

16:10 Set up over B6
begin to drill through asphalt

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16:15 S.S.-1(0'-2') 7,12,7,3/Rec=12" dk. brown-black cmf sand, some silt & cmf gravel, trace clay, contains cinders, loose, moist

16:20 S.S.-2(2'-4') 4,5,5,4/Rec=10" dk. brown-black silt, some cmf sand, little gravel & clay, fairly loose, moist

16:30 S.S.-3(8'-10') 7,8,11,14/Rec=12" brown silty clay, trace cmf sand & gravel, damp, very plastic

16:38 Set up over B7

16:35 S.S.-1(0'-2') 6,5,4,5/Rec=10" dk. brown-black cmf sand, some silt & cmf gravel, trace clay, loose, moist // lower 2": brown silty clay, little sand & gravel

16:38 S.S.-2(2'-4') 4,5,5,4/Rec=10" brown silty clay, little cmf sand & gravel, fairly plastic, damp

16:45 S.S.-3(8'-10') 6,6,8,12/Rec=14"

16:50 KEB measures water depths
B3: 6.3'
B11: 4.1'

7-20-92

17:00 Drillers will grout holes when all have been drilled (for now, all holes are covered w/ cones, etc.)

17:15 KEB, RTF leave site for day - Drillers are packing up for day

17:30 Arrive @ office - pack up cooler for shipment (all samples are packed w/ ice)

~~KEB drops off cooler @ Federal Express~~

17:45 KEB leaves for home

Drillers ~2 more days

Rain in PM

(Sweeney)

1-21-92 318 Urban St. Buffalo

Conditions: 70°, sunny

7:00 KEB meets RTF @ office

7:20 Arrive @ site - wait for gate to be unlocked.

7:35 Drillers arrive - no one has arrived w/ keys, yet

7:55 Mike Sweeney arrives and opens gate

8:10 Drillers set up over B13

8:15 Drilling begins @ B13 through asphalt

8:20 S.S.-1 (0'-2') 4,3,9,9 /Rec = 5"
upper 3": dk. brown-black cnf sand, some cnf gravel, little silt, trace clay, may contain cinders, wet = saturated, loose
lower 2": brown silty clay, some cnf sand, little gravel

8:25 S.S.-2 (2'-4') 6,4,5,5 /Rec = 12"
AND MS/MSD
brown silty clay, some cnf sand, little cnf gravel, moist, somewhat loose, spoon is saturated

8:35 S.S.-3 (8'-10') 9,15,21,26 /Rec = 20"
red-brown silty clay, trace cnf sand & gravel, damp, very plastic

-8:45 Take FB-6 (rinsate on hand-decon'ed spoon)

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8:45 Set up over B14 (through asphalt)

8:50 S.S.-1 (0'-2') 8,10,4,8 /Rec = 12"
upper 2": dk brown-black cnf sand, some cnf gravel, little silt, trace clay / damp/moist middle 8": brown cnf sand, some cnf gravel, trace silt/clay
lower 2": brown silty clay, some cnf sand, little gravel

8:55 S.S.-2 (2'-4') 6,6,6,6 /Rec = 12"
AND DUP-6
brown silty clay, some cnf sand, little cnf gravel, slightly plastic, moist

9:00 S.S.-3 (8'-10') 5,10,14,28 /Rec = 22"
red-brown silty clay, trace cnf sand & gravel, damp, very plastic

9:10 Set up rig over B15 (through asphalt)

9:12 S.S.-1 (0'-2') 7,8,8,14 /Rec = 14"
dk. brown-black cnf sand & gravel, little silt, trace clay, may contain cinders, wet, loose

9:13 David Locey (DEC) arrives on-site

9:15 S.S.-2 (2'-4') 5,5,5,6 /Rec = 10"
red-brown silty clay, trace cnf sand & gravel, moist-damp, very plastic, spoon is saturated

7-21-92

9:20 S.S.-3 (8'-10') 6,8,11,13 /Rec=20"
red-brown silty clay, trace cmf sand & gravel, moist - damp, very plastic
D&C split

9:25 Set up rig over B16
drill through asphalt

9:35 S.S.-1 (0'-2') 12,6,5,6 /Rec=10"
brown-dk. brown cmf sand, some cmf gravel, little silt, trace clay, (black @ upper 2") loose, moist-wet, lower 1": brown silty clay, little gravel, some cmf sand

9:40 S.S.-2 (2'-4') 5,4,5,10 /Rec=12"
brown/red-brown silty clay, some cmf sand (little sand in lower 6"), little cmf gravel, damp-moist, very plastic - plastic, spoon is saturated

9:50 S.S.-3 (8'-10') 4,8,12,15 /Rec=14"
red-brown-gray silty clay, trace cmf sand & gravel, very plastic, dry damp

10:00 Set rig up over B5
drill through asphalt

10:10 S.S.-1 (0'-2') 15,15,9,6 /Rec=5"
dk. brown-black cmf sand and gravel, trace silt, loose, wet

7-21-92

10:15 S.S.-2 (2'-4') 3,8,6,4 /Rec=1"
NOT ENOUGH RECOVERY TO ANALYZE
dk. brown cmf sand & gravel - (may be fall-in) loose, saturated

10:20 S.S.-3 (8'-10') 7,8,10,13 /Rec=12"
brown silty clay, little cmf sand & gravel, somewhat plastic, moist, spoon is wet-saturated

10:30 Set up rig over A5; will drill only through asphalt surface to allow a hand auger sample to be taken later

10:35 Completed augering through asphalt -

10:40 Set up over B12
drill through asphalt

10:45 S.S.-1 (0'-2') 9,17,6,5 /Rec=10"
upper 7": brown-gray cmf gravel, some cmf sand, trace silt, moist // lower 3": brown silty clay, some cmf sand, trace gravel, moist

10:50 S.S.-2 (2'-4') 4,4,4,3 /Rec=12"
brown silt, some clay & cmf sand (there are sand-rich lenses & clay-rich lenses), little cmf gravel, fairly loose, moist-wet

7-21-92

10:55 D. Locey leaves site for day
S.S.-3 (8'-10') 7,18,12,18 / Rec = 22"
red-brown - gray silty clay, trace mf sand & gravel, damp, very plastic

11:10 Set up rig over B17
drill through asphalt

11:15 S.S.-1 (0-2') 5,5,6,4 / Rec = 10"
dk. brown - black cmf sand & gravel, little silt, trace clay, dry-moist, loose

11:20 S.S.-2 (2'-4') 5,5,5,5 / Rec = 8"
brown silty clay, little cmf sand & gravel, plastic, damp-moist

11:30 S.S.-3 (8'-10') 9,10,12,16 / Rec = 10"
red-brown - gray silty clay, trace cmf sand & gravel, dry-damp, very plastic

11:40 Set up rig over B19
drill through asphalt

11:55 Drilling is difficult due to concrete under the asphalt - add water to make drilling smoother

12:00 Drilling redches

7-21-92

12:05 S.S.-1 (1.5'-3.5') 5,5,6,5 / Rec = 12"
red-brown silty clay, little cmf sand & gravel, damp-moist, fairly plastic

12:10 S.S.-2 (3.5'-5.5') 6,6,7,8 / Rec = 10"
brown-dk. brown silty clay, some cmf sand, little cmf gravel, somewhat plastic, moist

12:15 S.S.-3 (8'-10') 38,10,13 / Rec = 20"
red-brown - gray silty clay, trace cmf sand & gravel, damp, very plastic

12:20 Set rig up over B20 (Concrete to 1.5')
drill through asphalt
Dennis Sottosanti arrives on-site

12:25 S.S.-1 (1.5'-3.5') 3,4,5,6 / Rec = 12"
brown silty clay, little cmf sand & gravel, fairly plastic, damp-moist

12:30 S.S.-2 (3.5'-5.5') 5,6,9,12 / Rec = 10"
red-brown silty clay, trace cmf sand & gravel, very plastic, damp

12:35 S.S.-3 (8'-10') 10,10,11,16 / Rec = 20"
brown-gray silty clay, trace cmf sand & gravel, dry-damp, very plastic

7-21-92

12:45 Break for lunch

13:30 Open underground tank; measure:
13.55' from top of pipe
1.45' liquid depth
gasoline odor

Measure depths to water in open holes:
B22: 3.3' to water
B18: 2.9' to top of material (the sides of hole have sloughed in) the material is wet, but no water visible
B11: 1.7' to water
B3: 5.5' to water

13:50 Collect A5 using hand auger (pre-decon'ed) in hole in asphalt drilled w/ rig
Soil collected from ~ 3"-6" (beneath asphalt, to refusal)

Drillers returned ~ 13:30 and started steamcleaning & grouting holes

7-21-92

14:00 RTF, DGS map out sewer manholes, etc. while KEB prepares chain of custody, sample cooler, etc.

15:25 Martin says he will return Mon. to grout 4 remaining holes & move all drums

16:00 Leave site for day - drillers will leave soon

16:20 Return to office

Drillers
Decon - 3 hrs.

16 drums

(Sweeney)

7-22-92 318 Urban St. Buffalo
Conditions: low 70's, sunny
8:30 Meet DGS, RTF @ office, pick up van etc.
9:10 Arrive on-site; prepare to stake locations
14:00 Complete work for day - KEB, RTF, DGS leave for office

17:00 KEB leaves office

(Sweeney)

7-23-92 318 Urban St, Buffalo
Conditions: low 70's, rain/overcast ½
7:30 KEB meets RTF @ office; load equipment
7:40 Leave for site
8:00 Arrive on-site; await surveyors
8:05 Surveyors arrive - Millard & McKay
8:10 DGS arrives on-site
8:45 KEB phones Doug Wolf about QA/QC - he said to take a field blank on the sewer sampling equipment and not to bother taking other QA/QC samples (we have sent in enough for the 1:20 QA/QC ratio; also, we need not take QA/QC for the tank sample, as it is not part of the general site classification (analyzed for PCBs in soil
9:05 Sampled T-1, underground tank, using pre-decanned small stainless steel bailer

Dave Locey arrived on-site ~8:55

1-23-92

9:10 Re-opened on-site sewers to check flow path, etc., now that it has rained; Sew-6 drains from bldg. (E) towards French St (NW); D. Locey requests that we sample this manhole and SEW-4 ("upstream & downstream")

9:30 Collect FB-7; rinsate of spoon (pre-decorned) to be used for sampling SEW-6)

9:50 Collect SEW-6 sediment using a spoon attached to a long, metal pipe (there was not much sediment in the manhole, probably due to recent heavy rainfall

10:10 Collect SEW-4 sediment using pre-decorned trowel on a metal pipe

10:15 D. Locey leaves site for day

10:25 Measure water levels on open holes:

B22: 3.5' to water
B18: 2.9' to top of material (no water)
B11: 1.2' to water
B3: 5.15' to water

NOTE: Rained heavily overnight & in AM

1-23-92

DRUMS:

B1, B3, B4, B5 CUT - full 7/8/92
B6, B7, B9 CUT - full - 7/20/92
B2, B5, B11, B10 CUT - full - 7/20/92
B8, B12, B16, B17 CUT - full - 7/21/92
MW3 CUT - 1/2 full - 1991
MW1 CUT - full - 7/8/91
MW-1 CUT - full - 7/8/91
B13, B14, B15 CUT - full - 7/21/92
B18, B19, B20 CUT - full - 7/ /92
B23, B24 CUT - full - 7/16-17/92
GARB/TYVEK - in progress
DECON - in progress
MW-2 CUT - full - 7/9/91
DECON WATER & GARB - 1/2 full - 7/9/91
DECON H2O 1/4 full - 7/9/91
DECON H2O 1/2 full - 7/9/91
DECON-H2O 3/4 full - 7/9/91
B21, B22 CUT - full - 7/17/92
6 empty

10:45 KEB, RTF, DGS leave site for day - Surveyors remain

7-28-92 318 Urban St. Buffalo (Sweeny)

Conditions: high 70's, sunny w/ clouds

8:00 KEB meets RTF @ office, pick up van

Laura (GE) and Linda & Andy (Millipore) meet us & follow to site

8:20 Arrive on-site — DGS is on-site Millard & McKay workers are on-site & finishing up surveying

8:55 Collect FB-8; rinsate of trowel to be used @ 1st sample (RS-1)

9:20 D. Locey arrives on-site

9:30 RTF collects RS-1, 0"-3" + MS/MSD w/ pre-decon'd trowel in yard #287

DGS collects RS-2 0"-3", yard #293

9:35 DGS collects RS-6 0"-3" in yard #307

9:45 RTF collects RS-5 0"-3" and DUP-7 in yard #303 (+DEC split)

7-28-92

10:00 Get signed access agreement @ #309

10:05 Collect RS-7 0"-3" in yard #309 (on 3N fenceline)

10:35 RTF digs to 6" @ RD-1 w/ pre-decon'd trowel; place 4" PVC in hole to control fall-in; Collect RD-1, 6"-12" w/ decon'd hand auger

10:45 D. Locey leaves site temporarily

11:00 RTF leaves site to pick up larger augers @ office (Federal Express) & purchase 5 more lengths of PVC casing

Break for lunch

NOTE: Millipore & GE reps are working on analyzing the samples collected so far — They received each sample upon collection

11:30 Measure water levels in open holes

B-22	3.63	to water
B-3	5'	"
B-11	1.5'	"
B-18	3.1'	to material (Water)

7-28-92

12:10 Martin Fuhrmann & Zeke arrive on-site to move drums

12:20 RTF returns to site

12:40 Collect RD-2, 6"-12" — 0"-6" is cleared using a 4" auger & then sealed off w/ 4" PVC casing — a 2" hand auger is used to collect 6"-12" through the PVC

D. Rocco returns

12:45 RTF collects RD-5, 6"-12" in yard # 303 (same manner as above)

12:55 Collect RD-6, 6"-12" in yard # 307

13:05 Collect RD-7 (6"-12") in yard # 307

13:15 Collect RD-8, 6"-12" in yard # 307

13:15 Martin & Zeke leave for day after moving drums

13:30 The initial surface soil round has yielded PCBs > 1 ppm for all samples; return to French St. to locate next group of surface soil samples (10' N of prev.)

7-28-92

14:10 DGS collects RS-2A 0"-3" @ # 293 French using a pre-decon'ed spoon (DEC Split)

RTF collects RS-1A, 0"-3" @ # 289 French

14:15 RTF collects RS-5A 0"-3" @ # 303 French (DEC split)

DGS collects RS-6A 0"-3" @ # 307 French

14:20 DGS collects RS-7A 0"-3"

14:35 DGS, RTF leave site to pick up narrower PVC casing; Analyses continue on remaining sample rounds

15:15 DGS, RTF return to site; Analyses are re-run due to unknown problems w/ chemical process

17:00 Everyone leaves site for day

17:15 RTF, KEB return to office

7-29-92 318 Urban St., Buffalo (Sweeney)
Conditions: 70's, humid,
8:00 Arrive @ office — Laura S. & Andy P. resume PCB analysis
10:20 RTF brings John Harrsen (JE) to office
13:15 KEB, RTF leave for hardware store & site
13:45 Arrive on-site — D. Locey, D. Sutton, J. Harrsen, L. Sodha, N. Parsons already on-site
14:10 Collect FB-9, rinsate of decon'ed trowel
14:20 RTF Collects RS-4 0"-3" in yard #299 (just got access agreement) using pre-decon'ed spoon
14:40 Collect RD-4, 11"-17"; collected in the clayey material; used 4" hand auger to 11", sealed off w/ 4" PVC, collected sample 11"-17" w/ 2" hand auger (composited on alum. foil)

7-29-92

14:50 RTF Collects RS-1B, 0"-3" using pre-decon'ed trowel
15:00 RTF collects RS-2B, 0"-3" along side of cement walkway
15:05 RTF Collects RS-5B, 0"-3" alongside garage
15:10 RTF Collects RS-6B, 0"-3" along side cement porch pad of garage
clay is near surface @ this location — ~1-2" — has clay-rich lens
15:15 RTF collects RS-7B, 0"-3" along fenceline, near cor. of garage
15:30 await analysis results — D. Locey leaves site for day
16:30 All leave site
17:00 RTF, KEB arrive @ office

(Sweeney)

7-30-92 318 Urban St. Site, Buffalo
Conditions: 70's, partly sunny
8:00 KEB meets RTF @ office; pick up van
8:10 Leave for site
8:25 Arrive on-site, prepare & take subsurface samples
8:50 Collect RD-5, 12"-24" in clay re-augered to 12" w/ 2" hand auger, inserted 1½" PVC casing, then sampled w/ ~½" sampling probe to 24" (left PVC intact after sampling, as previously done - covered w/ alum. foil)
9:00 Collect RD-6, 12"-22" in clay using above method
9:20 Collect RD-8, 17"-26" had to auger to 17" b/c ground level is higher here & 12" was still in the upper topsoil - at 17", the soil is more clayey

7-30-92

(got very little volume due to refusal)
9:25 D. Lacey (DEC) arrives on-site; D. Sutton, L. Socha & A. Parsons have already arrived & set up analytical materials
9:30 Deliver samples to Socha & Parsons
10:10 RTF Collects RS-1C 0"-3" and MS/MSD w/ pre-deconned trowel
10:15 Collect RS-2C 0"-3" along walkway w/ pre-deconned trowel
10:20 Collect RS-4A 0"-3" w/ pre-deconned trowel
10:30 Collect RS-5C 0"-3" and DUP-8 w/ deconned spoon
10:35 Collect RS-6C 0"-3" w/ pre-deconned trowel collected btwn garden & swing set
11:00 DGS leaves for office. Break for lunch while awaiting field analysis results
12:00 DGS returns w/ test kits for further analysis

7-30-92

12:35 KEB collects RS-9 0"-3" 1.5' N of fence using pre-decorned trowel RTF collects RS-9A 0"-3" 10' N of fence "center" of fenceline

12:40 Return to site, to await results of prev samples

13:15 RTF collects RD-4, 17"-24" using the 2" casing and sampling probe method

13:40 RTF Collects RS-2D 0"-3" along concrete driveway KEB removes 4" PVC from RD-2, to be decorned & used @ RD-5A

13:45 RTF Collects RS-4B 0"-3" using pre-decorned trowel KEB decons 4" PVC

14:00 Collect RD-5A, 6"-12" at the RS-5 location; auger to 6" (into clay) w/ 4" auger, case off w/ 4" PVC, auger w/ 2" hand auger to collect sample; composite on alum. foil

14:30 Collect water levels in open holes:
B-22: 3.5' to water
B-18: 1" water above material
B-11: 1.5' to water
B-3: 5' to water
Await results

16:40 Leave site for day

17:10 KEB, RTF arrive @ office
KEB packs up samples, equipment, etc. for Federal Express shipment

18:35 Drop off [redacted] shipment @ Fed Ex

(Sweeney)

7-31-92 318 Urban St. Buffalo NY

Conditions: 60's, overcast,

7:45 KEB arrives @ office

8:00 RTF arrives; pick up van & leave for site

8:15 Arrive on-site; surveyors have just arrived; they will begin surveying the 48 residential sampling points

KEB, RTF prepare for final sampling

8:50 RTF collects RD-5A, 14"-21" using the 4" casing & sampling probe method into clay and split for L. Sochaki rock @ 21"

9:10 RTF collects RD-9, 6"-12" using the 4" auger - 4" casing & 2" hand auger collection method

9:15 RTF collects RS-9B using pre-decon'ed trowel

9:25 RTF collects sample @ previous RS-2D, 0"-3" location for D. Locey (who has arrived on-site)

7-31-92

9:30 RTF collects sample @ prev. RS-5C, 0"-3" for D. Locey

9:45 D. Locey leaves for day

10:00 Hydrol Heavy downpour, RTF & KEB remove PVC casings from residential sampling locations

10:15 Take water levels in manholes:

B-20: 3' to water

(3' down) B-18: 1" water above datum

B-11: 1" to water

B-3: 5.05' to water

10:30 KEB, RTF leave site for day & return to office

10:45 Arrive @ office

14:00 FB-11, decon'ed spoon from surface soil sample

72°

7-20-92 318 Urban Sunny, Muggy
380.048-3

0745 Bob & Karen on site
0810 Drillers arrive on site, prepare to drill borings, begin on B-3
Soft Drilling - Martin, Red & Zeke
Microtip 6gal. = 0.1
0839 0-2' 0.4
Miniram = .00 6gal
0843 2-4' 0.0 ppm mini 0.0
8-10' 0.0 (2'clay) .02 (Diesel)
0852 Rig breaks down, Martin informs me it will be ~1 hr. to fix it
1020 Rig repaired
1035 Set up on B-1
1036 0-2' 0.0 ppm mini .02
1037 2-4' 2.3 ppm " .04
1048 8-10' 0.0 " " .04
1100 Set up B-4
1125 8-10' 0.0 ppm mini .04
1138 Set up on B-5
1155 8-10' 0.0 ppm mini .04
- steam cleaner not working, Martin & Zeke work on it.
1158 Zeke goes for another steam cleaner

FB
1210 B-5 completed, crew breaks for lunch
1310 Zeke returns, can't rent steam cleaner because he didn't have NYS drillers license. Red will go back again w/Zeke
1330 Karen & Bob take FB-5
1405 Zeke & Red return w/steam cleaner
1420 Set up on B-2
8-10 0.6 ppm Mini .02
1450 Set up on B-11
1453 0-2' 0.0 ppm Mini .07
1455 2-4' " Saturated " "
1508 8-10' " " " .04
1515 Set up on B-10 Mini
1522 0-2' 0.0 ppm " .03
2-4' No Recovery " .08
1530 4-6' 0.0 ppm " .06
1538 8-10' 0.0 " (4'clay) " .10
1545 Set up on B-9
1547 0-2' 0.0 ppm Mini .00
1549 2-4' 0.0 " " " .10
1600 8-10' 0.0 " " " .10

7-28-92 U462n cont'd...

1612	Set up on	B-6		
1615	0-2'	0.0 ppm	.08 mM	
1616	2-4'	"	.10	"
1625	8-10'	"	.10	"
1620	Set up on	B-7		
1634	0-2'	0.0 ppm	.06	"
1635	2-4'	"	.06	"
1645	8-10'	"	.12	"

1655 Cal office to check in w/Dennis
1700 Crew cleans up
1715 " leave site for office to pack samples for shipment to lab
1800 Drop samples off @ Federal

Dennis:

- Order more Sukgies (2 Boxes)
- more Hexane
- 2-3 Gallons Distilled Water
- Field Books "

7-21-92 318 Urban St Cloudy, 70°.

0725 Jack & Mike @ site, gate not open yet
0735 Drillers arrive
0755 Mike Swanson arrives - opens gate, crew prepares for drilling activities
0810 Crew sets up on B-13
Microtip bgd = 0.0 Mini = .00
0817 0-2' 0.0 ppm Mini = .00
0821 2-4' " Clay-saturated "
0830 8-10' 0.2 ppm "
0838 Perform FB-6
0840 Set up on B-14
0850 0-2' 0.7 ppm Mini = .00
0852 2-4' 0.0 " "
0900 8-10' 5.3 " "
0906 Set up on B-15
0910 0-2' 5.2 ppm Mini = .00
0912 2-4' 0.0 "
Dave Lacey arrives (DEC)
0919 8-10' 0.0 (2' CLAY) Mini = .00
0934 Set up on B-16
0936 0-2' 15.4 ppm Mini = .00
0938 2-4' 0.0 "
0949 8-10' 0.0 12" CLAY "

1000 Set up on B-8
1008 0-2' 0.0 ppm Mini = .00
1010 2-4' " "
1020 8-10' " (Diesel) Mini = .04
1034 Drillers bore through asphalt NW backlot section near storage shed.
1040 Set up on B-12
1042 0-2' 0.0 ppm Mini = .00
1044 2-4' " "
1100 8-10' " " .00
1100 Set up on B-17
1114 0-2' 0.0 ppm Mini = .00
1120 2-4' " "
1130 8-10' " "
1140 Set up on B-19
1142 0-2' Mini =
1155 Add water difficult drilling
1204 ~~0-2'~~ 1.6-3.6' 0.0 ppm Mini = .00
1206 3.6-5.6' 0.0 "
1210 8-10' 0.0 "
1225 Over B-20
1226 0-2' 0.0 ppm Mini = .00
1228 2-4' 0.5 "
1239 8-10' 0.0 "

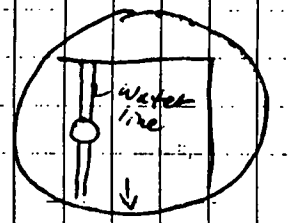
7-21-92 318 Urban cont'd...

1245 Crew break for lunch
1315 Bob & Dennis try to open filling pipe on South of property (next loading dock) + cap is taken off inner diameter = 1 7/8"
Top Pipe 1.3'
(prob. gas) 1.45' fluid
1345 Sample A-5 (6" deep w/hand auger) Location is borehole drilled by drillers earlier in the day.
1355 Begin Sewer investigations
1500 Dennis calls Dave Locey & Dave Bradley to get clearance for residential sampling
1600 Dennis, Karen & Bob leave site for the day
1630 Bob drops samples off @ FEDEX

SEWER LOCATIONS

SEW-1
Northeast corner of bldg (Pkg Lot)

SEW-5
Southwest corner of bldg (Pkg Lot) just south of loading dock



SEW-4



SEW-2
Southeast of SEW-1. Filled to ground w/debris & dirt

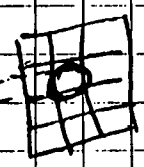


7-21-92 348 Urban cont'd...

cont'd.. Sewer Locations

SEW-3

approx 30' East of bldg office door. Drain pipe in middle appears to drain towards bldg. No sample can be taken here



SEW-6

Northwest portion of lot (backlot)



35' SW of fence post
36' SE " Storage bldg
81' W " main bldg

7-22-92 318 Urban St. Cloudy, 68°

0900 Bob, Dennis & Karen on site, prepare to stake last round of soil locations (on-site) & well/borings. Surveyors are to be on-site tomorrow morning (7-23-92). All locations are measured out & identified w/pin flags.

- Checked locations w/rough maps, also labeled on site & off site sewers.

1410 Will return to office to empty van & return.

- Upon arrival @ office, it was decided to keep the van another day for sampling sewers. Crew will ready for that event in office

1-23-92 318 Urban St. Cloudy, 68°

0800 Bob & Karen on site, meet w/ Drillers (Millard & Macking)

0810 Dennis arrives. + raining heavily

0830 + Crew lays out soil sample points in playground. Surveyors said they would survey that today because of location.

0915 Crew & Dave Cocey inspect manholes & decide which to sample. It is decided to sample SEW-6 first

0930 Field Blank-7 taken

0935 Sample SEW-6 w/extension rod & dedicated Stainless steel spoon. Sample was difficult to attain, not much material available.

0955 Prepare to Sample SEW-4

1016 Complete sampling @ SEW-4, difficult to attain sample. Very little substance, only fill lab bottle 1/2 way (202.)

1025 Karen & Bob take Vand of W.L.'s of open borings & take drum count w/contents described. - Dennis calls Dave Bradley to update him with todays activities

1050 Crew leave site for the day.

7-27-92 318 Urban St. Sunny, 75°

1215 Bob on site, will take round of W.L.'s @ open borings.

	BORING	W.L.
1219	B-11	1.55
1221	B-3	5.15
1225	B-22	3.65
1227	B-18	Dry

Note: Drums on site are: Tested 17H DOT R 1074

1305 Layed pallets in place for drillers to put cuttings on.

1310 Leave site for the day, will return tomorrow for Residential sampling

B

Appendix B

Test Boring Logs

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York **Project No.** 380.048
Boring Number B-1 **Total Depth** 10 ft.
Water Level Init.
Screen: Dia. N.A. **Length** N.A. **Slot Size** N.A.
Casing: Dia. N.A. **Length** N.A. **Type** N.A.
Drill. Co.: TDS **Drilling Method** 3 1/4" HSA
Driller: M. Fuhrmann **Log By** K. Baker **Date** 7/20/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
0	2	S-1	14	50	Dk. brown SILT, some fine to coarse Sand, little clay and fine to coarse gravel, moist, fairly loose. **[SILT and SAND]**
1	7				
	7				
2	3				
	6	S-2	9	42	Red-brown/brown Silty CLAY, little fine to coarse sand and gravel, moist, fairly plastic. **[SILTY CLAY]**
3	5				
	4				
4	8				
5					
6					Samples not collected in this interval.
7					
8					
	11	S-3	25	100	Brown Silty CLAY, little fine to coarse sand and gravel, damp, fairly plastic. **[SILTY CLAY]**
9	10				
	15				
10	22				
					End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number B-2 Total Depth 10 ft.
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7/20/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
1					
2					
3					
4					Samples not collected in this interval.
5					
6					
7					
8					
9	5 9 11	S-1	20	75	Red-brown Silty CLAY, trace fine to medium sand and gravel, damp, very plastic. **[SILTY CLAY]**
10	15				End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number B-3 Total Depth 10 ft.
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7/20/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
0	2	S-1	18	50	Dk. brown SILT, some fine to coarse Sand, little gravel, trace clay, moist. Grades to fine to coarse GRAVEL, little sand and silt. **[SILT and SAND - GRAVEL]**
1	9				
	9				
2	11				
	6	S-2	9	42	Red-brown/brown Silty CLAY, little fine to coarse sand and gravel, moist, fairly plastic. **[SILTY CLAY]**
3	5				
	4				
4	8				
5					Samples not collected in this interval.
6					
7					
8					
	8	S-3	21	92	Red-brown Silty CLAY, little fine to coarse sand and gravel, damp-moist, fairly plastic. **[SILTY CLAY]**
9	9				
	12				
10	14				End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York **Project No.** 380.048
Boring Number B-4 **Total Depth** 10 ft.
Water Level Init.
Screen: Dia. N.A. **Length** N.A. **Slot Size** N.A.
Casing: Dia. N.A. **Length** N.A. **Type** N.A.
Drill. Co.: TDS **Drilling Method** 3 1/4" HSA
Driller: M. Fuhrmann **Log By** K. Baker **Date** 7/20/92

Sketch Map
SEE SITE PLAN

PAGE 1 OF 1

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
1–8					Samples not collected in this interval.
9	9 10 12 18	S-1	22	96	Brown Silty CLAY, little fine to coarse sand and gravel, damp, fairly plastic. **[SILTY CLAY]**
10					End of boring is at 10'.
11–22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number B-5 Total Depth 10 ft.
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7/20/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
1–4					Samples not collected in this interval.
8	11 12 13 14	S-1	25	83	Brown Silty CLAY, little fine to coarse sand and gravel, damp, fairly plastic. **[SILTY CLAY]**
10					End of boring is at 10'.

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York **Project No.** 380.048
Boring Number B-6 **Total Depth** 10 ft.
Water Level Init.
Screen: Dia. N.A. **Length** N.A. **Slot Size** N.A.
Casing: Dia. N.A. **Length** N.A. **Type** N.A.
Drill. Co.: TDS **Drilling Method** 3 1/4" HSA
Driller: M. Fuhrmann **Log By** K. Baker **Date** 7/20/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
0	7	S-1	19	50	Dk. brown-black fine to coarse SAND, some Silt and fine to coarse Gravel, trace clay, contains cinders, moist-wet, loose. **[SAND and SILT/GRAVEL]**
1	12				
	7				
2	3				
	4	S-2	10	42	Dk. brown-black SILT, some fine to coarse Sand, little gravel and clay, moist, fairly loose. **[SILT and SAND]**
3	5				
	5				
4	4				
5					Samples not collected in this interval.
6					
7					
8					
	7	S-3	15	50	Brown Silty CLAY, trace fine to coarse sand and gravel, damp, very plastic. **[SILTY CLAY]**
9	8				
	7				
10	3				End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number B-7 Total Depth 10 ft.
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7/20/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
1	16 5 4 5	S-1	9	42	Dk. brown-black fine to coarse SAND, some Silt and fine to coarse Gravel, trace clay, moist. Grades to brown Silty CLAY. **[SAND and SILT/GRAVEL - SILTY CLAY]**
3	4 5 5 4	S-2	10	42	Brown Silty CLAY, little fine to coarse sand and gravel, damp, fairly plastic. **[SILTY CLAY]**
5					Samples not collected in this interval.
8					
9	6 6 8 12	S-3	14	58	Brown Silty CLAY, little fine to coarse sand and gravel, damp, fairly plastic. **[SILTY CLAY]**
10					End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number B-8 Total Depth 10 ft.
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7/21/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
0	15	S-1	24	21	Dk. brown-black fine to coarse SAND and GRAVEL, trace silt, wet, loose. **[SAND/GRAVEL]**
1	15				
	9				
2	6				
	3	S-2	14	4	Dk. brown fine to coarse SAND and GRAVEL, saturated, loose. (May be fall-in) **[SAND/GRAVEL ?]**
3	8				
	6				
4	4				
5					
6					Samples not collected in this interval.
7					
8					
	7	S-3	18	50	Brown Silty CLAY, little fine to coarse sand and gravel, moist, somewhat plastic. **[SILTY CLAY]**
9	8				
	10				
10	13				End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number B-9 Total Depth 10 ft.
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7/20/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
1	6 3 4 7	S-1	7	58	Brown fine to coarse SAND, trace silt, contains cinders, moist, loose. Grades to brown Silty CLAY, little sand and gravel, damp. **[SAND - SILTY CLAY]**
3	8 6 7 8	S-2	13	42	Brown-dk. brown SILT, some fine to coarse Sand and Clay, little gravel, moist, fairly loose. **[SILT and SAND/CLAY]**
5					
6					Samples not collected in this interval.
7					
8					
9	12 8 12 19	S-3	20	83	Red-brown Silty CLAY, little fine to coarse sand and gravel, damp, plastic. **[SILTY CLAY]**
10					End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number B-10 Total Depth 10 ft.
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7/20/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
0	X	S-1	18	33	Brown fine to coarse SAND, trace gravel,
1	5				contains cinders, moist, loose. Grades
	13				to gray fine to coarse GRAVEL, some Sand,
2	10				dry. **[SAND - GRAVEL and SAND]**
	10	S-2	10	0	
3	6				No Recovery
	4				
4	5				
	3	S-3	12	21	Brown Silty CLAY, little fine to coarse
5	5				sand and gravel, moist, somewhat plastic.
	7				**[SILTY CLAY]**
6	10				
7					Samples not collected in this interval.
8					
	6	S-4	14	83	Brown Silty CLAY, trace fine to coarse
9	9				sand and gravel, damp, very plastic.
	5				**[SILTY CLAY]**
10	9				
11					End of boring is at 10'.
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York **Project No.** 380.048
Boring Number B-11 **Total Depth** 10 ft.
Water Level Init.
Screen: Dia. N.A. **Length** N.A. **Slot Size** N.A.
Casing: Dia. N.A. **Length** N.A. **Type** N.A.
Drill. Co.: TDS **Drilling Method** 3 1/4" HSA
Driller: M. Fuhrmann **Log By** K. Baker **Date** 7/20/92

Sketch Map
SEE SITE PLAN

PAGE 1 OF 1

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
1	X 3 16 11	S-1	19	58	Brown fine to coarse SAND, contains cinders, moist, loose. Grades to gray fine to coarse GRAVEL, some Sand, trace silt, dry. **[SAND - GRAVEL and SAND]**
3	4 5 6 6	S-2	11	33	Brown-dk. brown SILTY CLAY, little fine to coarse sand and gravel, wet-moist, somewhat plastic. **[SILTY CLAY]**
6					Samples not collected in this interval.
9	15 18 17 19	S-3	35	50	Brown-dk. brown SILT, some Clay and fine to coarse Sand, moist-wet, somewhat loose. **[SILT and CLAY/SAND]**
10					End of boring is at 10'.

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number B-12 Total Depth 10 ft.
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7/21/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
0	9	S-1	23	42	Brown-gray fine to coarse GRAVEL, some fine to coarse Sand, trace silt, moist. Grades to brown Silty CLAY, some Sand. **[GRAVEL and SAND - SILTY CLAY]**
1	17				
	6				
2	5				
	4	S-2	8	50	Brown SILT, some Clay and fine to coarse Sand, little fine to coarse gravel, moist-wet, fairly loose. **[SILT and CLAY/SAND]**
3	4				
	4				
4	3				
5					Samples not collected in this interval.
6					
7					
8					
	7	S-3	30	92	Red-brown/gray Silty CLAY, trace fine to medium sand and gravel, damp, very plastic. **[SILTY CLAY]**
9	18				
	12				
10	18				End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York **Project No.** 380.048
Boring Number B-13 **Total Depth** 10 ft.
Water Level Init.
Screen: Dia. N.A. **Length** N.A. **Slot Size** N.A.
Casing: Dia. N.A. **Length** N.A. **Type** N.A.
Drill. Co.: TDS **Drilling Method** 3 1/4" HSA
Driller: M. Fuhrmann **Log By** K. Baker **Date** 7/21/92

Sketch Map
SEE SITE PLAN

PAGE 1 OF 1

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
0	4	S-1	12	21	Dk. brown-black fine to coarse SAND, some Gravel, little silt, trace clay, contains cinders, wet-saturated. Grades to Silty CLAY. **[SAND and GRAVEL - SILTY CLAY]**
1	3				
	9				
2	9				
	6	S-2	9	50	Brown Silty CLAY, some fine to coarse Sand, little fine to coarse gravel, moist, somewhat loose. **[SILTY CLAY and SAND]**
3	4				
	5				
4	5				
5					Samples not collected in this interval.
6					
7					
8					
	9	S-3	36	83	Red-brown Silty CLAY, trace fine to coarse sand and gravel, damp, very plastic. **[SILTY CLAY]**
9	15				
	21				
10	26				End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York **Project No.** 380.048
Boring Number B-14 **Total Depth** 10 ft.
Water Level Init.
Screen: Dia. N.A. **Length** N.A. **Slot Size** N.A.
Casing: Dia. N.A. **Length** N.A. **Type** N.A.
Drill. Co.: TDS **Drilling Method** 3 1/4" HSA
Driller: M. Fuhrmann **Log By** K. Baker **Date** 7/21/92

Sketch Map
SEE SITE PLAN

PAGE 1 OF 1

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
0	8	S-1	14	50	Dk. brown fine to coarse SAND, some fine to coarse Gravel, little silt, moist. Grades to brown Silty CLAY, some Sand. **[SAND and GRAVEL - SILTY CLAY]**
1	10				
	4				
2	8				
	6	S-2	12	50	Brown Silty CLAY, some fine to coarse Sand, little fine to coarse gravel, moist, slightly plastic. **[SILTY CLAY and SAND]**
3	6				
	6				
4	6				
5					Samples not collected in this interval.
6					
7					
8					
	5	S-3	24	92	Red-brown Silty CLAY, trace fine to coarse sand and gravel, damp, very plastic. **[SILTY CLAY]**
9	10				
	14				
10	28				
					End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York **Project No.** 380.048
Boring Number B-15 **Total Depth** 10 ft.
Water Level Init.
Screen: Dia. N.A. **Length** N.A. **Slot Size** N.A.
Casing: Dia. N.A. **Length** N.A. **Type** N.A.
Drill. Co.: TDS **Drilling Method** 3 1/4" HSA
Driller: M. Fuhrmann **Log By** K. Baker **Date** 7/21/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
1	7 8 8 14	S-1	16	58	Dk. brown-black fine to coarse SAND and GRAVEL, little silt, trace clay, contains cinders, wet, loose. **[SAND/GRAVEL]**
3	5 5 5 6	S-2	10	42	Red-brown Silty CLAY, trace fine to coarse sand and gravel, damp-moist, very plastic. **[SILTY CLAY]**
5					Samples not collected in this interval.
8	6 8 11 13	S-3	19	83	Red-brown Silty CLAY, trace fine to coarse sand and gravel, damp-moist, very plastic. **[SILTY CLAY]**
10					End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York **Project No.** 380.048
Boring Number B-16 **Total Depth** 10 ft.
Water Level Init.
Screen: Dia. N.A. **Length** N.A. **Slot Size** N.A.
Casing: Dia. N.A. **Length** N.A. **Type** N.A.
Drill. Co.: TDS **Drilling Method** 3 1/4" HSA
Driller: M. Fuhrmann **Log By** K. Baker **Date** 7/21/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
0	12	S-1	11	42	Brown-dk. brown fine to coarse SAND, some fine to coarse Gravel, little silt, trace clay, moist-wet. Lower 1": Brown Silty CLAY. **[SAND and GRAVEL - SILTY CLAY]**
1	6				
	5				
2	6				
	5	S-2	9	50	
3	4				Brown/red-brown Silty CLAY, little fine to coarse sand and gravel, damp-moist, very plastic. **[SILTY CLAY]**
	5				
4	10				
5					
6					Samples not collected in this interval.
7					
8					
	4	S-3	20	58	Red-brown/gray Silty CLAY, trace fine to coarse sand and gravel, dry-damp, very plastic. **[SILTY CLAY]**
9	8				
	12				
10	15				End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number B-17 Total Depth 10 ft.
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7/21/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
0	5	S-1	11	42	Dk. brown-black fine to coarse SAND and GRAVEL, little silt, trace clay, dry-moist, loose. **[SAND/GRAVEL]**
1	5				
	6				
2	4				
	5	S-2	10	33	Brown Silty CLAY, little fine to coarse sand and gravel, damp-moist, plastic. **[SILTY CLAY]**
3	5				
	5				
4	5				
5					
6					Samples not collected in this interval.
7					
8					
	9	S-3	22	42	Red-brown/gray Silty CLAY, trace fine to coarse sand and gravel, dry-damp, very plastic. **[SILTY CLAY]**
9	10				
	12				
10	16				
11					End of boring is at 10'.
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York **Project No.** 380.048
Boring Number B-18 **Total Depth**
Water Level Init.
Screen: Dia. N.A. **Length** N.A. **Slot Size** N.A.
Casing: Dia. N.A. **Length** N.A. **Type** N.A.
Drill. Co.: TDS **Drilling Method** 3 1/4" HSA
Driller: M. Fuhrmann **Log By** K. Baker **Date** 7/16/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
0	9	S-1	19	58	Dk. brown fine to coarse SAND, some fine to coarse Gravel, trace silt, moist-wet. Grades to Silty CLAY, little fine to coarse sand. **[SAND & GRAVEL - SILTY CLAY]**
1	9				
	10				
2	9				
	8	S-2	17	66	
3	8				Brown Silty CLAY, little fine to coarse sand, trace fine to coarse gravel, damp-moist, plastic. **[SILTY CLAY]**
	9				
4	9				
5					
6					Samples not collected in this interval.
7					
8					
	6	S-3	21	100	Brown Silty CLAY, trace fine to coarse sand and gravel, damp, very plastic. **[SILTY CLAY]**
9	9				
	12				
10	17				End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York **Project No.** 380.048
Boring Number B-19 **Total Depth** 10 ft.
Water Level Init.
Screen: Dia. N.A. **Length** N.A. **Slot Size** N.A.
Casing: Dia. N.A. **Length** N.A. **Type** N.A.
Drill. Co.: TDS **Drilling Method** 3 1/4" HSA
Driller: M. Fuhrmann **Log By** K. Baker **Date** 7/21/92

Sketch Map
SEE SITE PLAN

PAGE 1 OF 1

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
1					Asphalt and concrete
2	5	S-1	11	50	Red-brown Silty CLAY, little fine to coarse sand and gravel, damp-moist, fairly plastic. **[SILTY CLAY]**
3	5 6 5				
4	6	S-2	13	42	Brown-dk. brown Silty CLAY, some fine to coarse Sand, little fine to coarse gravel, moist, somewhat plastic. **[SILTY CLAY and SAND]**
5	6 7 8				
6					Samples not collected in this interval.
7					
8					
9	3	S-3	18	83	Red-brown/gray Silty CLAY, trace fine to coarse sand and gravel, damp, very plastic. **[SILTY CLAY]**
10	8 10 13				
11					End of boring is at 10'.
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number B-20 Total Depth 10 ft.
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7/21/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
1					Asphalt and concrete
2	3	S-1	9	50	Brown Silty CLAY, little fine to coarse sand and gravel, damp-moist, fairly plastic. **[SILTY CLAY]**
3	4 5 6				
4	5	S-2	15	42	Red-brown Silty CLAY, trace fine to coarse sand and gravel, damp, very plastic. **[SILTY CLAY]**
5	6 9 12				
6					
7					Samples not collected in this interval.
8					
9	10	S-3	21	83	Brown-gray Silty CLAY, trace fine to coarse sand and gravel, dry-damp, very plastic. **[SILTY CLAY]**
10	10 11 16				
11					End of boring is at 10'.
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York **Project No.** 380.048
Boring Number B-21 **Total Depth** 10 ft.
Water Level Init.
Screen: Dia. N.A. **Length** N.A. **Slot Size** N.A.
Casing: Dia. N.A. **Length** N.A. **Type** N.A.
Drill. Co.: TDS **Drilling Method** 3 1/4" HSA
Driller: M. Fuhrmann **Log By** K. Baker **Date** 7/17/92

Sketch Map
SEE SITE PLAN

PAGE 1 OF 1

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
1					Asphalt and concrete
2	X	S-1	26	25	Gray-brown fine to coarse GRAVEL, some fine to coarse Sand and silty Clay, moist, loose. **[GRAVEL (FILL)]**
3	12				
4	14				
5	12	S-2	9	0	No Recovery
6	5	S-3	13	96	Dk. gray-black SILT, some Clay and fine to coarse Sand, moist-wet, slightly plastic. Grades to gray-brown Silty CLAY, trace fine to coarse sand and gravel. **[SILT and CLAY/SAND - SILTY CLAY]**
7	7				
8	9				
9	13	S-4	21	67	Brown Silty CLAY, trace fine to medium sand and gravel, dry-damp, very plastic. **[SILTY CLAY]**
10	5				
11	9				End of boring is at 10'.
12	12				
13	16				
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number B-22 Total Depth 10 ft.
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7/17/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
0	22	S-1	7	50	Brown Silty CLAY and fine to coarse GRAVEL, little fine to coarse sand, moist-wet, fairly loose. **[SILTY CLAY/GRAVEL]**
1	4				
	3				
2	4				
	11	S-2	11	33	Brown-dk. brown fine to coarse SAND and SILT, little clay and fine to coarse gravel, moist, fairly loose. **[SAND/SILT]**
3	6				
	5				
4	5				
5					Samples not collected in this interval.
6					
7					
8					
	12	S-3	21	58	Red-brown/gray Silty CLAY, trace fine to coarse sand and gravel, dry-damp, very plastic. **[SILTY CLAY]**
9	8				
	13				
10	16				End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number B-23 Total Depth 10 ft.
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7/17/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
0	11	S-1	9	50	Lt. brown fine to coarse SAND, some Gravel, trace silt, dry-damp, loose.
1	5				
	4				Grades to brown Silty CLAY, little gravel, trace sand, moist, plastic.
2	5				
	3	S-2	8	58	**[SAND and GRAVEL - SILTY CLAY]**
3	3				
	5				Brown-dk. brown Silty CLAY, trace fine to coarse sand and gravel, moist, plastic.
4	8				**[SILTY CLAY]**
5					
6					Samples not collected in this interval.
7					
8					
	5	S-3	33	58	Gray-brown Silty CLAY, trace fine to coarse sand and gravel, moist, plastic.
9	15				**[SILTY CLAY]**
	18				
10	20				End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number B-24 Total Depth 10 ft.
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7-17-92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
0	46	S-1	23	50	Lt. brown fine to coarse SAND and GRAVEL, trace silt, dry, loose. Grades to dk. brown Silty CLAY, little sand and gravel, moist. **[SAND/GRAVEL - SILTY CLAY]**
1	12				
	11				
2	3				
	9	S-2	21	42	
3	11				Red-brown Silty CLAY, trace fine to coarse sand and gravel, damp, plastic. **[SILTY CLAY]**
	10				
4	13				
5					
6					Samples not collected in this interval.
7					
8					
	7	S-3	28	58	Red-brown Silty CLAY, little fine to coarse sand and gravel, damp-moist, fairly plastic. **[SILTY CLAY]**
9	11				
	17				
10	12				
					End of boring is at 10'.
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number C-1 Total Depth 12 ft.
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7/16/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
1					Floor Surface
2					
3					
4					
5					
6					
7					Depth to sump floor
					Cement
8					
9	3 5 10	S-1	15	33	Brown-gray/brown Silty CLAY, little fine to coarse sand, moist, plastic. **[SILTY CLAY]**
10	11				
11	23 25 29	S-2	54	92	Gray-brown Silty CLAY, some fine to coarse sand, trace gravel, moist-wet, somewhat plastic. **[SILTY CLAY]**
12	34				
					Bottom of Boring is at 12'.
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number C-2 Total Depth 13.5 ft.
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7/16/92

Sketch Map
SEE SITE PLAN

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
1					Floor Surface
2					
3					
4					
5					FILL
6					
7					
8					Depth to pit floor
9					Cement
10	12	S-1	28	58	Red-brown Silty CLAY, trace fine to coarse
	11				sand and gravel, dry-damp, very plastic.
11	17				**[SILTY CLAY]**
	29				
12	24	S-2	52	96	Brown Silty CLAY, trace fine to coarse
	29				sand and gravel, damp, very plastic.
13	23				**[SILTY CLAY]**
	26				
14					Bottom of boring is at 13.5'.
15					
16					
17					
18					
19					
20					
21					
22					

DRILLING LOG

Project 318 Urban Street Site
Location Buffalo, New York Project No. 380.048
Boring Number C-3 Total Depth
Water Level Init.
Screen: Dia. N.A. Length N.A. Slot Size N.A.
Casing: Dia. N.A. Length N.A. Type N.A.
Drill. Co.: TDS Drilling Method 3 1/4" HSA
Driller: M. Fuhrmann Log By K. Baker Date 7/16/92

Sketch Map
SEE SITE PLAN

PAGE 1 OF 1

Depth	Blows /6"	Sample Number	N-Value	Rec. (%)	Sample Description
1					Floor Surface
2					
3					
4					FILL
5					
6					
7					
8					
9					Depth to pit floor Cement
10	7 10	S-1	23	58	Brown Silty CLAY, trace fine to coarse sand and gravel, damp-moist, very plastic. **[SILTY CLAY]**
11	13 18				
12	10 13	S-2	41	92	Brown Silty CLAY, trace fine to coarse sand and gravel, damp-moist, very plastic. **[SILTY CLAY]**
13	28 26				
14					End of boring is at 13.5'.
15					
16					
17					
18					
19					
20					
21					
22					

C

Appendix C

Laboratory Analytical Results

TABLE C-1 AMENDED PCB SAMPLE PREPARATION AND ANALYTICAL PROCEDURES
318 URBAN STREET SITE
BUFFALO, NEW YORK

1. Weigh out 10 gm of soil into a widemouth soil jar.

2. Add 50 ul of 100 ppm Decachlorobiphenyl (DCB) as a surrogate.

3. Add 10 gm of powdered Na_2SO_4 and mix until the sample has a consistency of sand.

4. Add 50 ml of Hexane and swirl or mix with a glass pipet to insure that none of the sample is clumping and adhering to the side of the jar.

5. Sonicate in a bath for five minutes.

6. Allow the sample to settle.

7. Remove 5 to 10 cc of the supernate and centrifuge at the #5 setting for three to five minutes to remove particulates if necessary. Otherwise go to step #8.

8. Add 5 cc of concentrated H_2SO_4 to 5 cc of the Hexane extract and shake vigorously for two minutes venting occasionally, (use 15 cc glass tubes with polypropylene stoppers).

9. Allow approximately five minutes for two layers to form and pipet off the top (hexane) layer into another 15 cc tube.

10. Repeat steps 8 and 9 two additional times.

11. After the third washing with concentrated H_2SO_4, the H_2SO_4 should no longer be turning brown indicating all (most) of the "oil" is hydrolyzed.

12. Transfer the top layer to a clean 15 cc tube and add 5 cc of deionized water and shake vigorously for two minutes and allow two layers to form as before.

13. Transfer the Hexane layer to a clean tube and add some Na_2SO_4 if the Hexane looks cloudy due to a little water mixed with the Hexane.

14. Transfer 2 cc of the anhydrous Hexane extract to a clean 20 cc glass tube and add 2 cc TBA-Sulfite reagent and then add 4 cc of 2-propanol, cap and shake vigorously for one minute.

15. If there is no visible precipitate (clean crystals of Na_2SO_3) add 100 mg (one scoop) of Na_2SO_3 and shake vigorously for one minute. Continue adding Na_2SO_3 one scoop at a time, with shaking, until a precipitate (solid) remains after shaking. If there is a precipitate after step 14 go to step 16.

16. Add 10 cc of deionized water to the tube and shake for one minute.

17. If the top layer (Hexane) is cloudy, then transfer to a clean tube and add Na_2SO_4 to the Hexane and then analyze the Hexane without the drying step.

Note: Samples for MS and MSD were spiked with <u>both</u> aroclor-1016 and aroclor-1260 at a concentration of 2 ug/g of soil (i.e., 10 ug in a 10 gm sample). The two aroclors contain all major PCB congeners. The method detection limit is four times the ASP CRQL for pesticide/PCB analysis.

The following analytical sequence was employed:

A. Seventy-two hour analytical sequences
   1. aroclor 1016/aroclor-1260
   2. aroclor-1221
   3. aroclor-1232
   4. aroclor-1242
   5. aroclor-1248
   6. aroclor-1254

B. five Samples, then:
   aroclor-1016/aroclor-1260
   ETC.

C. Finish the sequence by running:
   aroclor 1016/aroclor-1260
   aroclor-1221
   aroclor-1232
   aroclor-1242
   aroclor-1248
   aroclor-1254

DATA VALIDATION REVIEW OF SOIL SAMPLE ANALYSES
318 URBAN STREET SITE INVESTIGATION
ERM-NORTHEAST PROJECT NUMBER 380.048
ADIRONDACK ENVIRONMENTAL SERVICES CASE NO. E16000 SDG NO. A-1(0-12)

Deliverables:

The above referenced Data Summary Package and Sample Data Package contain all required deliverables as stipulated under the 1989 New York State Analytical Services Protocol (ASP) Superfund category for all Target Compound List (TCL) Volatile Organic Compound (VOC), Semi-volatile (BNA), Pesticide/PCB and all Target Analyte List (TAL) metals analyses. PCB-only analyses were performed on several samples using an amended pesticide/PCB analytical method previously approved by the NYSDEC.

ORGANICS

This validation report pertains to the following samples:

Samples		QC Samples	Method Blanks
A-1(0-12)	C-2(2-4)	Field Blank-3	VBLK189
A-11(0-12)	C-3(0-2)	A-11(0-12)MS	VBLK190
B-18(0-2)	C-3(2-4)	A-11(0-12)MSD	VBLK194
B-18(2-4)	DUP-3	MSB 7/20/92 (VOC)	SBLK1
C-1(0-2)		MSB 7/17/92(BNA)	SBLK2
C-1(2-4)		PBLK MSB(PCB)	PBLK717
C-2(0-2)		PBLK MSB (Pest/PCB)	PBLK720
		C-2(2-4)MS(PCB)	PBLKE
		C-2(2-4)MSD(PCB)	

The following items/ criteria were reviewed for each fraction, where appropriate:

- Case Narrative
- Deliverable Requirements
- Holding Times
- CG/MS Tuning
- Initial calibration data
- Continuing calibration data
- Procedural blank summary and data
- Field blank results
- Internal standard area summary and data
- Pesticide/PCB standards summary and data
- Surrogate recoveries, retention times and summary
- MS/MSD recoveries and summary

- Matrix spike blank recoveries and summary
- Chromatograms and mass spectra
- Data system printouts
- Qualitative and quantitative compound identification
- Field duplicate results
- Organic analysis data sheets (Form I)

The items listed above were in compliance, both technically and contractually, with NYSDEC ASP QC criteria (September 1989) with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

Volatiles:

- All samples, blanks and QC samples were analyzed within 7 days of receipt at the laboratory (see sample preparation and analysis summary form attached).

- All GC/MS tuning and mass calibration criteria were met. All samples, blanks, QC samples and standards were analyzed within 12 hours of their associated tune. GC/MS tuning and mass calibration summary forms are attached.

- All initial and continuing calibrations met technical and contractual criteria for %RSD (CCC's-30%, all other compounds 35%), response factors (SPCC-0.300, bromoform-0.250, all other compounds 0.05) and %D (CCC's-25%, all other compounds 35%) with the exception of acetone in the initial calibration from 7/21/92, associated with the field blank, which had a %RSD of 39.6%. The acetone result in the field blank should therefore be considered estimated and flagged "J".

- All internal standard areas were within the +100%/-50% control limits determined from the associated continuing calibration, with the exception of those samples listed below. These samples also had surrogate recoveries outside of QC limits and therefore all results are considered estimated and flagged "J" for positive results and "UJ" for negative results. Note that although the MS/MSD had poor response for chlorobenzene-d8, the un-spiked sample showed acceptable response and was therefore not qualified.

Sample	Deficient Internal Standards Area Counts (Lower QC Limit)	
	1-4 Difluorobenzene	Chlorobenzene-d5
A-1(0-12)	28389 (28520)	15392 (24584)
A-1(0-12) Reanalysis	Acceptable	25821 (25867)
DUP-3	27956 (28520)	15102 (24584)
DUP-3 Reanalysis	24877 (30376)	13166 (25867)
B-18(0-2)	24183 (28520)	16094 (24584)
B-18(0-2) Reanalysis	29076 (30376)	16329 (25867)
A-11(0-12)MS	Acceptable	22650 (24584)
A-11(0-12)MSD	Acceptable	23748 (24584)

- Procedural blanks were analyzed at the proper frequency (one per 20 samples per matrix and level (low/medium); one per 12 hour analysis run following an acceptable GC/MS tune). The table below shows blanks, blank contaminants and concentrations and associated samples. Levels of methylene chloride or acetone in samples associated with these blanks less than ten times the amount in the blank will be negated after applying the appropriate dilution factor. The same applies for field blank chloroform results, but an action level of five times the blank concentration will be used. The field blank contained hexane. Any hexane in samples will be negated. The method blank summary forms and Form I's are attached.

BLANK	CONTAMINANT (Concentration in $\mu g/\ell$ or $\mu g/kg$)	ASSOCIATED SAMPLES
VBLK194 (Low Water)	Methylene Chloride (5J)	Field Blank-3
VBLK189 (Low Soil)	Methylene Chloride (7) Acetone (17)	A-1(0-12),A-11(0-12),B-18(0-2), C-2(0-2),DUP-3,A-11(0-12)MS, A-11(0-12)MSD,MSB 7/20/92
VBLK190 (Low Soil)	Methylene Chloride (10) Acetone(12)	A-1(0-12)RE,B-18(0-2)RE, DUP-3RE
Field Blank-3	Methylene Chloride(3BJ) Chloroform(2J) Hexane(5J)	All Samples

- Matrix spike/matrix spike duplicate spike recoveries and relative percent difference results were within proper QC limits. MS/MSD summary forms are attached.

- Matrix spike blanks (MSB) exhibited acceptable recovery of all compounds. MSB summary forms are attached.

- All sample and blank surrogate recoveries were within acceptable QC limits, with the exception of toluene d-8 in samples A-1(0-12)(122%), A-11(0-12) Reanalysis (120%), B-18(0-2) (132%), B-18(0-2) Reanalysis (142%) and DUP-3 reanalysis (133%) and bromofluorobenzene in B-18(0-2) Reanalysis (58%), which were outside the toluene QC limits (81-117%) and/or bromofluorobenzene QC limits (74-121%). All results in these samples are therefore considered estimated. Positive results are flagged "J" and negative results "UJ".

- A-1(0-12) and DUP-3 are field duplicates. Both contain 7 μg/kg of toluene and a TIC at approximately 9.40 minutes retention time (8J μg/kg in A-1(0-12) and 6J μg/kg in DUP-3). DUP-3 contains 3J μg/kg of benzene, while benzene was not detected in A-1(0-12). No other compounds were detected in either sample. No sample results were qualified based on field duplicate data. These duplicates show good agreement.

- All GC chromatograms and system printouts are acceptable. All mass spectra are acceptable. Positive compound identifications are acceptable both qualitatively and quantitatively. All positive compound results occur within 0.06 relative retention time (RRT) units of the same compound in the associated calibration. TIC results are acceptable as presented, however it is likely that the unknown TIC in DUP-3 at a retention time of 9.40 minutes and the acetic acid, methyl ester TIC in A-1(0-12) at a retention time of 9.41 minutes are actually the same compound.

- Organic analysis data sheets (Form I) for all analyses are attached. All data is valid and usable as reported with the qualifications outlined previously. Positive results prior to validation are listed on the attached summary table. The initial analyses of samples A-1(0-12), B-18(0-2) and DUP-3 should be used due to better overall QC and/or better compound identification.

Semi-Volatiles:

- All samples, blanks and QC samples were extracted within 5 days of receipt at the laboratory and analyzed with 40 days (see sample preparation and analysis summary form attached).

- All GC/MS tuning and mass calibration criteria were met. All samples, blanks, QC samples and standards were analyzed within 12 hours of their associated tune. GC/MS tuning and mass calibration summary forms are attached.

- All initial and continuing calibrations met technical and contractual criteria for %RSD, response factors and %D, except for 3,3-dichlorobenzidine in the continuing calibration from 8-18-92 at 1514 which had a percent difference greater than 25%(27.0%) and a response factor less than 0.05 (0.047). Negative 3,3-dichlorobenzidine results are rejected due to poor response in samples A-1(0-12) Reanalysis and DUP-3 Reanalysis.

- All internal standard areas were within the +100%/-50% control limits determined from the associated continuing calibration with the exception of those samples listed below. Results for compounds in these samples that were quantitated against the deficient internal standards are considered estimated and flagged "J" for positive results and "UJ" for negative results.

Sample	Deficient Internal Standards Area Counts (Lower QC Limit)			
	d-10 Acenaphthene	d-10 Phenanthrene	d-12 Chrysene	d-12 Perylene
A-1(0-12)	8032 (14096)	3635 (21537)	883 (7793)	934 (4895)
A-1(0-12) Reanalysis	9373 (16318)	3950(22894)	0 (6392)	0 (4967)
DUP-3	8087 (14096)	4068 (21537)	187 (7793)	0 (4895)
DUP-3 Reanalysis	9811 (16318)	4029 (22894)	363 (6392)	0 (4967)

- No target compounds were detected in the method or field blanks. Due to insufficient sample volume the laboratory used only 500 ml for the field blank extraction. (See Telephone Conversation Log attached). Both method blanks (and the field blank) contained TICs. Due to insufficient sample volume, the field blank could not be re-extracted with a new method blank, therefore no new associated "contaminant-free" method blank was prepared. The method blank associated with the soil samples did not appear to contain any TICs, when initially screened, with areas greater than 10% of the area of the nearest internal standard, therefore associated samples were not re-extracted with another blank at that time. Upon analysis, four TICs were identified in the blank, one of which is an Aldol Condensation Product considered to be an artifact of the extraction procedure. None of the TICs found in any of the method or field blanks (with the exception of the aldol) were detected in any of the field samples, therefore the occurrence of these TICs in these blanks is judged not to have a negative effect on the sample data. Method blanks were extracted at the correct frequency. Method blank summary forms and Form I's are attached. Blank contaminants are listed in the table below. Note that the aldol condensation products detected in field samples will be negated as they are judged to be laboratory artifacts.

- All GC chromatograms and system printouts are acceptable. All mass spectra are acceptable. Positive compound identifications are acceptable both qualitatively and quantitatively. All positive compound results occur within 0.06 relative retention time (RRT) units of the same compound in the associated calibration. TIC results are acceptable as presented.

- Organic analysis data sheets (Form I) for all analysis are attached. All data is valid and usable as reported with the qualifications outlined previously. Positive results prior to validation are listed on the attached summary table. The initial analysis of samples A-1(0-12) and DUP-3 should be used due to better overall QC and Compound identification.

Pesticide/PCB and PCB-Only:

- All samples, blanks and QC samples were extracted for analysis within 5 days of receipt at the laboratory and extracts were all analyzed within forty days of extraction per ASP QC criteria (see sample preparation and analysis summary form attached).

- All ion abundance criteria were met for GC/MS tuning prior to sample confirmational analyses.

- GC/ECD initial calibration factors and retention time (RT) windows were correctly calculated and reported.

- All continuing calibration standards exhibited calibration factors less than 15% different from the initial factors per ASP criteria for quantitation columns with the exception of endosulfan II in the final Individual Standard Mix B analysis on the confirmational DB-1701 column which had a percent difference of 26.6%. The laboratory did not reanalyze any of the samples that were analyzed between the analysis of this INDB standard and the prior, acceptable standard as required by ASP protocols. However, no endosulfan II was detected in any sample and the ending INDB standard had an acceptable percent difference for endosulfan II on the DB-608 quantitation column, therefore this deficiency is judged to not negatively effect the technical usability of the sample data.

- Procedural blanks were analyzed with the proper frequency (one per 20 samples per matrix) and exhibited no positive results for pesticide/PCB or PCB-only analyses. All chomatograms exhibited stable baselines. Method blank summary forms and Form I's are attached.

- One aqueous field blank submitted for Pesticide/PCB analysis with these soil samples (FB-3) exhibited no positive results for Pesticide/PCB analyses. Note that only 500 ml was used for extraction due to insufficient sample volume. See case narrative and telephone conversation log (attached).

Blank	Contaminant (Concentration in µg/ℓ or µg/kg)	Associated Samples
SBLK1	Unknown Oxygenated Compound @ 4.11 (10J) Unknown Cyclic Alkane @ 20.50 (10J) Unknown @ 26.55 (20J) Unknown @28.04 (7J) Unknown @ 28.66 (6J) Unknown Alkane @ 29.26 (10J) Unknown Alkane @ 31.29 (7J) Unknown Alkane @ 32.24 (5J) Unknown @ 33.06 (10J) Unknown Alkane @ 33.17 (8J) Unknown @ 33.51 (30J)	Field Blank-3
SBLK2	Aldol Condensation Product @ 3.73 (2000 JA) Unknown @ 24.72 (900J) Unknown @ 26.92 (400J) Unknown @ 27.00 (200J)	All Field Samples
Field Blank-3	Unknown Oxygenated Compound @ 17.70 (40J) Unknown Alkane @ 27.01 (8J) Unknown Alkane @ 29.02 (8J) Unknown Alkane @ 30.90 (10J) Unknown @ 31.79 (8J)	All Field Samples

- All MS/MSD spike recoveries and RPDs were within QC limits. MS/MSD summary forms are attached.

- Seven of eleven MSB spike recoveries were outside of the 75% to 125% QC limits. The laboratory has documented their inability to meet these limits on a consistent basis. Documentation is included in this review. Based on the laboratory's ability to meet the requirements of the contract except for the MSB, this is judged not to technically affect the sample data. MSB summary forms are attached.

- All surrogate recoveries were within acceptable QC limits with the exception of terphenyl-d14 in sample DUP-3 (162% recovery) and the reanalysis of sample A-1(0-12) (0% recovery). Since the recovery of this surrogate was high, but no target compounds were detected in DUP-3, this is judged to not have any effect on the technical usability of the sample data. The initial analysis of A-1(0-12) will be used rather than the reanalysis due to better overall sample QC. Surrogate recovery summary forms are attached.

- The field duplicate pair, A-1(0-12) and DUP-3, did not contain any target BNAs. They both contained the same classes of TICs.

- Surrogates were diluted out of samples A-1 (0-12) and DUP-3 due to a 4000 X dilution factor. Sample B-18(0-2) had 7% surrogate recovery and no positive pesticide or PCB results, therefore the results for this sample may be biased low, should be considered estimated and should be flagged "UJ". Samples (C-1(2-4) and C-2(2-4) had PCB surrogate recoveries greater than 150% on both the quantitation and confirmation GC columns. All results in these samples should therefore be considered estimated with positive results flagged "J" and negative results "UJ". Samples C-3(0-2), C-3(2-4) and C-2(2-4)MS and MSD exceeded the 150% upper QC limit only on the DB-5 confirmation column analysis, therefore these sample results will not be qualified. Surrogate recovery summary forms are attached. All surrogate peaks exhibited less than or equal to 0.3% difference between their retention times in samples and the retention time of the surrogate in the initial calibration standard of comparison (EVALA or Aroclor 1016/1260).

- The pesticide/PCB MS/MSD analysis had relative percent difference results above the appropriate QC limits for heptachlor (44%), aldrin (46%) and dieldrin (38%). Limits are 31%, 43% and 38%, respectively. None of these compounds were detected in any sample and their recoveries in the MS and MSD were acceptable, therefore no action was taken to qualify sample results. The PCB-only MS/MSD analysis had low recovery of aroclor-1260 in both analyses on the DB1701 quantitation column (53% in the MS, 57% in the MSD. Limits are 60-160%). Based on these results, all aroclor-1260 results in the PCB-only samples should be considered estimated, possibly biased low and flagged "J" or "UJ" as appropriate. MS/MSD summary forms are attached.

- All MSB spike recoveries were within the ASP QC limits of 75-125%. MSB summary forms are attached.

- Aldrin exhibited a 14.5% relative standard deviation in the linearity check on the DB-1701 confirmation column. This exceeds the less than or equal to 10% QC limit, however that limit is required only for columns used for sample quantitation (NYSDEC 1989 ASP, p. E-77) therefore no action is required to qualify associated sample data.

- Samples A-1(0-12) and DUP-3 are field duplicates. Sample A-1 (0-12) contained 450 mg/kg of aroclor-1260 while DUP-3 contained 400 mg/kg of this aroclor. The relative percent difference of 11.8% is acceptable.

- All gas chromatographic data and system printouts are acceptable. No negative area was experienced by any sample.

- Organic analysis data sheets (Form I) for all analyses are attached. All data is valid and usable as reported.

INORGANICS

Samples	QC Samples
A-1(0-12)	A-11(0-12)S (spiked sample analysis)
A-11(0-12)	A-11(0-12)D (duplicate sample analysis)
B-18(0-2)	A-11(0-12)A (post-digestion spiked sample analysis)
C-2(0-2)	A-11(0-12)L (ICP serial dilution analysis)
DUP-3	

The following items/criteria were reviewed:

* • Case Narrative
* • Deliverable Requirements
• Holding Times
* • Calibrations
* • Blanks
* • ICP interference check sample analysis
* • CRDL standard analysis
• Matrix spike analysis
• Duplicate sample analysis
• Field duplicate results
• Furnace atomic absorption results
* • Method of Standard Additions (MSA) analysis
* • Laboratory Control Sample results
• Detection limits

* All criteria were met for this item.

The items listed above were in compliance, both technically and contractually, with NYSDEC ASP QC criteria (September 1989) with the exceptions discussed in the text below. The data have been validated according to the protocols outlined above and qualified accordingly.

- All samples, blanks and QC samples were analyzed within acceptable NYSDEC ASP holding times (26 days from receipt for mercury, 6 months for all other metals), except for mercury, which was analyzed on 8-17-92, 31 days from receipt. All mercury results should be considered estimated and flagged"J" for positive results and "UJ" for negative results. Sample preparation and analysis summary forms are attached.

- Spiked sample results for arsenic (131.1%), antimony, (25.3%), selenium (139.2%) and silver (54.2%) were outside of 75-125% QC limits. Post-digestion spike recovery for antimony (170.3%) was also outside of QC limits. Positive results for these metals should be flagged "J" and considered estimated. Negative silver and antimony results should be flagged "UJ". The spiked sample summary forms are attached.

- Laboratory duplicate sample results exceeded 20% RPD for calcium (42.9%) and lead (29.1%). Calcium and lead results should be considered estimated and flagged "J". The laboratory duplicate summary form is attached.

- Field duplicate A-1(0-12) and DUP-3 had more than 20% RPD for arsenic (48.3%), calcium (33.4%), copper (35.0%), magnesium (28.8%) and zinc (45.5%). In addition, mercury had an absolute difference greater than the CRDL between the two samples. Positive results for these metals in these two samples only should be considered estimated and flagged "J" while negative results should be flagged "UJ". A field duplicate summary form, prepared by the validator, is attached.

- Calcium (31.4%), iron (12.4%), magnesium (16.9%) and manganese (12.3%) had ICP serial dilution percent difference results greater than 10% for metals that occurred in the initial sample analysis at a concentration greater than 50 times the IDL. Sample results for these metals should be considered estimated and flagged "J".

- The following metals had furnace post-digestion spike recoveries outside of 85-115% QC limits with sample concentrations being less than 50% of the spike in the listed samples. Positive results should be considered estimated and flagged "J". Negative selenium and thallium results should be considered estimated and flagged "UJ". The lab has flagged the sample Form I's with a "W" where appropriate.

Metals	Sample
Arsenic	C-2(0-2)-170.5%
Selenium	A-1(0-12)-74%, C-2(0-2)-82%
Thallium	A-1(0-12)-60%, A11(0-12)-60%, A-11(0-12)D-80% B-18(0-2)-60%, DUP-3-80%

- The lab analyzed all samples for lead by ICP, however B-18(0-2) and C-2(0-2) contained less than five times the ICP IDL of lead, therefore these samples should have had lead analyzed by GFAA. The positive lead results in B-18(0-2) of 25.8 mg/kg should be considered estimated and flagged "J". The negative lead result in C-2(0-2) should be rejected.

SUMMARY OF POSITIVE SAMPLE RESULTS (VOC)
SDG A-1(0-12)

	A-11(0-12)	B-18(0-2)	C-2(0-2)	A-1(0-12)	DUP-3*
Methylene Chloride	15B	17B	13B	19B	19B
Acetone	12U	20B	12U	11U	12U
Benzene	6U	6U	6U	6U	3J
Toluene	6U	6U	2J	7	7
Acetic acid, Methyl ester	ND	ND	ND	8J	ND
Unknown @ 9.40	ND	ND	ND	ND	6J

Notes: All concentrations are in $\mu g/kg$
Results are listed prior to validation
B = Compound detected in associated method blank
J = Estimated value is below CRQL or compound is a TIC
U = Compound not detected. Numeric value is sample-specific quantitation limit
ND = TIC not detected
* = DUP-3 is field duplicate of A-1(0-12)

SUMMARY OF POSITIVE SAMPLE RESULTS (BNA)
SDG A-1 (0-12)

	A-11(0-12)	B-18(0-2)	C-2(0-2)	A-1(0-12)	DUP-3*
Naphthalene	420U	59J	410U	370U	380U
2-Methylnapthalene	420U	87J	410U	370U	380U
Phenanthrene	98J	77J	410U	370U	380U
Fluoranthene	160J	380U	410U	370U	380U
Pyrene	120J	380U	410U	370U	380U
Pentachlorobenzene	ND	ND	ND	700J	600J
Sulfur	ND	700J	ND	ND	ND
Tetrachlorobenzene Isomer	ND	ND	ND	100J	1000J
Total Unknown Alkanes	ND	800J	3900J	2500J	3300J
Total Unknown Hydrocarbons	ND	400J	ND	ND	ND
Total Unknown Oxygenated Cmpds	200J	200J	300J	ND	ND
Total Unknown PAHs	ND	ND	ND	2700J	1400J
Total Unknowns	ND	200J	ND	6000J	3000J
Total Aldol Condensation Products	2000 BJA	3200 BJA	3200BJA	3000 BJA	3000 BJA

Notes: All concentrations are in μg/kg
Results are listed prior to validation
B = Compound detected in associated method blank
J = Estimated value is below CRQL or compound is a TIC
A = Aldol condensation product (laboratory artifact)
U = Compound not detected. Numeric value is sample-specific quantitation limit
ND = TIC not detected
* = DUP-3 is field duplicate of A-1(0-12)

SUMMARY OF POSITIVE SAMPLE RESULTS (Pesticides and PCBs)
SDG A-1(0-12)

	A-11 (0-12)	B-18 (0-2)	B-18 (2-4)	C-1 (0-2)	C-1 (2-4)	C-2 (0-2)	C-2 (2-4)	C-3 (0-2)	C-3 (2-4)	A-1 (0-12)	DUP-3*
Aroclor-1260	200U	185U	610U	500J	540J	200U	490J	250J	140J	450000JC	400000JC

Notes: All concentrations are in μg/kg
Results are listed prior to validation
J = Estimated value is below CRQL
C = Aroclor presence qualitatively confirmed by GC/MS
U = Aroclor not detected. Numeric value is sample-specific quantitation limit
* = DUP-3 is field duplicate of A-1 (0-12)

SUMMARY OF SAMPLE RESULTS (INORGANICS)
SDG A-1(0-12)

	A-11(0-12)	B-18(0-2)	C-2(0-2)	A-1(0-12)	DUP-3*
Aluminum	5920	7520	25700	5950	6670
Antimony	10.5 B	6.0 U	6.5 U	7.1 B	18.4
Arsenic	2.7	3.0	2.5 U	4.4	7.2
Barium	80.2	124	197	114	105
Beryllium	0.69 B	0.70 B	0.19 U	0.75 B	0.86 B
Cadmium	0.82 B	0.55 U	0.81 B	2.5	2.2
Calcium	101000	54800	66300	32200	45100
Chromium	11.3	15.2	37.2	21.9	21.6
Cobalt	7.0 B	12.8	17.2	8.9 B	10.6 B
Copper	18.7	15.6	16.1	109	76.5
Iron	13400	23300	30500	20200	18500
Lead	83.8	25.8	8.2 U	151	140
Magnesium	12000	2000	20400	10100	13500
Manganese	554	626	633	421	372
Mercury	0.12 U	0.11 U	0.12 U	0.45	0.11 U
Nickel	18.3	17.8	32.5	18.6	19.9
Potassium	706 B	1050 B	10400	1130	1420
Selenium	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U
Silver	1.0 U	0.93 U	1.0 U	0.90 U	0.92 U
Sodium	247 B	347 B	1370	217 B	243 B
Thallium	2.5 U	2.3 U	2.5 U	2.2 U	2.3 U
Vanadium	15.8	20.2	56.3	23.1	22.8
Zinc	161	67.7	74.9	672 J	423
Cyanide	6.2 U	5.7 U	6.2 U	5.6 U	5.7 U

Notes: All concentrations are in mg/kg
Results are listed prior to validation
B = Value is below CRDL but greater than IDL
U = Analyte not detected. Numeric value is sample-specific detection limit.
* = DUP-3 is field duplicate of A-1 (0-12)

SDG NUMBER: A-1 (0-12) VOC

SAMPLE I.D.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	ASSOCIATED METHOD BLANK	ASSOCIATED INITIAL CALIBRATION	ASSOCIATED CONTINUING CALIBRATION
A-1(0-12)	7/16/92	7/17/92	N/A	7/20/92 7/21/92	VBLK189 VBLK190	1-7002D 7/17/92(SOIL)	I-7002D 7/20/92(1530), 7/12/92(0922) (SOIL)
A-11(0-12)	7/16/92	7/17/92	N/A	7/20/92	VBLK189	1-7002D 7/17/92(SOIL)	J-7002D 7/20/92 (1530) (SOIL)
B-18(0-2)	7/16/92	7/17/92	N/A	7/20/92 7/21/92	VBLK189 VBLK190	1-7002D 7/17/92(SOIL)	I-7002D 7/20/92(1530), 7/12/92(0922) (SOIL)
C-2(0-2)	7/16/92	7/17/92	N/A	7/20/92	VBLK189	1-7002D 7/17/92(SOIL)	J-7002D 7/20/92 (1530) (SOIL)
DUP-3	7/16/92	7/17/92	N/A	7/20/92 7/21/92	VBLK189 VBLK190	1-7002D 7/17/92(SOIL)	I-7002D 7/20/92(1530), 7/12/92(0922) (SOIL)
FB-3	7/16/92	7/17/92	N/A	7/24/92	VBLK194	1-7002D 7/21/92(WATER)	I-7002D 7/24/92(1248) (WATER)
A-11(0-12)MS	7/16/92	7/17/92	N/A	7/20/92	VBLK189	1-7002D 7/17/92(SOIL)	J-7002D 7/20/92 (1530) (SOIL)
A-11(0-12)MSD	7/16/92	7/17/92	N/A	7/20/92	VBLK189	1-7002D 7/17/92(SOIL)	J-7002D 7/20/92 (1530) (SOIL)
MSB 7/20/92	N/A	N/A	N/A	7/20/92	VBLK189	1-7002D 7/17/92(SOIL)	J-7002D 7/20/92 (1530) (SOIL)

SDG NUMBER: A-1 (0-12) BNA

SAMPLE I.D.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	ASSOCIATED METHOD BLANK	ASSOCIATED INITIAL CALIBRATION	ASSOCIATED CONTINUING CALIBRATION
A-1(0-12)	7/16/92	7/17/92	7/17/92	8/12/92 8/18/92	SBLK2	I-7002B 8/10/92	I-7002B 8/11/92(1700), 8/18/92(1514)
A-11(0-12)	7/16/92	7/17/92	7/17/92	8/12/92	SBLK2	I-7002B 8/10/92	I-7002B 8/11/92(1700)
B-18(0-2)	7/16/92	7/17/92	7/17/92	8/12/92	SBLK2	I-7002B 8/10/92	I-7002B 8/11/92(1700)
C-2(0-2)	7/16/92	7/17/92	7/17/92	8/12/92	SBLK2	I-7002B 8/10/92	I-7002B 8/11/92(1700)
DUP-3	7/16/92	7/17/92	7/17/92	8/12/92 8/18/92	SBLK2	I-7002B 8/10/92	I-7002B 8/11/92(1700), 8/18/92(1514)
FB-3	7/16/92	7/17/92	7-20-92	8/12/92	SBLK1	I-7002B 8/10/92	I-7002B 8/11/92(1700)
A-11(0-12)MS	7/16/92	7/17/92	7/17/92	8/12/92	SBLK2	I-7002B 8/10/92	I-7002B 8/11/92(1700)
A-11(0-12)MSD	7/16/92	7/17/92	7/17/92	8/12/92	SBLK2	I-7002B 8/10/92	I-7002B 8/11/92(1700)
MSB 7/20/92	N/A	N/A	7/17/92	8/12/92	SBLK2	I-7002B 8/10/92	I-7002B 8/11/92(1700)

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-1

Lab Name: AES, inc. Contract: 000023

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: A-1

Sample wt/vol: 4.900 (g/mL) G Lab File ID: D2036

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 10. Date Analyzed: 7/20/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11.	UJ
74-83-9	Bromomethane	11.	UJ
75-01-4	Vinyl Chloride	11.	UJ
75-00-3	Chloroethane	11.	UJ
75-09-2	Methylene Chloride	19.	~~B~~ UJ
67-64-1	Acetone	11.	UJ
75-15-0	Carbon Disulfide	6.	UJ
75-35-4	1,1-Dichloroethene	6.	UJ
75-34-3	1,1-Dichloroethane	6.	UJ
540-59-0	1,2-Dichloroethene (total)	6.	UJ
67-66-3	Chloroform	6.	UJ
107-06-2	1,2-Dichloroethane	6.	UJ
78-93-3	2-Butanone	11.	UJ
71-55-6	1,1,1-Trichloroethane	6.	UJ
56-23-5	Carbon Tetrachloride	6.	UJ
108-05-4	Vinyl Acetate	11.	UJ
75-27-4	Bromodichloromethane	6.	UJ
78-87-5	1,2-Dichloropropane	6.	UJ
10061-01-5	cis-1,3-Dichloropropene	6.	UJ
79-01-6	Trichloroethene	6.	UJ
124-48-1	Dibromochloromethane	6.	UJ
79-00-5	1,1,2-Trichloroethane	6.	UJ
71-43-2	Benzene	6.	UJ
10061-02-6	trans-1,3-Dichloropropene	6.	UJ
75-25-2	Bromoform	6.	UJ
591-78-6	2-Hexanone	11.	UJ
108-10-1	4-Methyl-2-Pentanone	11.	UJ
127-18-4	Tetrachloroethene	6.	UJ
79-34-5	1,1,2,2-Tetrachloroethane	6.	UJ
108-88-3	Toluene	7.	J
108-90-7	Chlorobenzene	6.	UJ
100-41-4	Ethylbenzene	6.	UJ
100-42-5	Styrene	6.	UJ
1330-20-7	Xylenes (total)	6.	UJ

9-3-92

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: A-1

Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: 000024 SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: A-1

Sample wt/vol: 4.900 (g/mL) G Lab File ID: D2036

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 10. Date Analyzed: 7/20/92

Column: (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	79-20-9	Acetic acid, methyl ester	9.41	8.	JN
2.					
3.					
4.					
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9.30.92

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A-1	RE

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: E16000 SAS No.: 000025 SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: A-1 RE

Sample wt/vol: 4.900 (g/mL) G Lab File ID: D2051

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 10. Date Analyzed: 7/21/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11.	U
74-83-9	Bromomethane	11.	U
75-01-4	Vinyl Chloride	11.	U
75-00-3	Chloroethane	11.	U
75-09-2	Methylene Chloride	3.	BJ
67-64-1	Acetone	21.	B
75-15-0	Carbon Disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	11.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon Tetrachloride	6.	U
108-05-4	Vinyl Acetate	11.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
591-78-6	2-Hexanone	11.	U
108-10-1	4-Methyl-2-Pentanone	11.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	6.	U
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylenes (total)	6.	U

Use INITIAL ANALYSIS RESULTS (R) 9-30-92

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A-1	RE

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: E16000 SAS No.: 000026 SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: A-1 RE

Sample wt/vol: 4.900 (g/mL) G Lab File ID: D2051

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 10. Date Analyzed: 7/21/92

Column: (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
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26.					
27.					
28.					
29.					
30.					

Sent Initial Analysis Results 9-30-92

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A11(0-2)

Name: AES, inc. Contract: 000027

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: A11(0-2)

Sample wt/vol: 5.200 (g/mL) G Lab File ID: D2037

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 20. Date Analyzed: 7/20/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl Chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene Chloride	15.	B U
67-64-1	Acetone	12.	U
75-15-0	Carbon Disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon Tetrachloride	6.	U
108-05-4	Vinyl Acetate	12.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
591-78-6	2-Hexanone	12.	U
108-10-1	4-Methyl-2-Pentanone	12.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	6.	U
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylenes (total)	6.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

A11(0-2)

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: 000028 SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: A11(0-2)

Sample wt/vol: 5.200 (g/mL) G Lab File ID: D2037

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 20. Date Analyzed: 7/20/92

Column: (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B18(0-2)

Lab Name: AES, inc. Contract: 000029

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: B18(0-2)

Sample wt/vol: 5.000 (g/mL) G Lab File ID: D2038

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 13. Date Analyzed: 7/20/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11.	UJ
74-83-9	Bromomethane	11.	UJ
75-01-4	Vinyl Chloride	11.	UJ
75-00-3	Chloroethane	11.	UJ
75-09-2	Methylene Chloride	17.	B UJ
67-64-1	Acetone	20.	B UJ
75-15-0	Carbon Disulfide	6.	UJ
75-35-4	1,1-Dichloroethene	6.	UJ
75-34-3	1,1-Dichloroethane	6.	UJ
540-59-0	1,2-Dichloroethene (total)	6.	UJ
67-66-3	Chloroform	6.	UJ
107-06-2	1,2-Dichloroethane	6.	UJ
78-93-3	2-Butanone	11.	UJ
71-55-6	1,1,1-Trichloroethane	6.	UJ
56-23-5	Carbon Tetrachloride	6.	UJ
108-05-4	Vinyl Acetate	11.	UJ
75-27-4	Bromodichloromethane	6.	UJ
78-87-5	1,2-Dichloropropane	6.	UJ
10061-01-5	cis-1,3-Dichloropropene	6.	UJ
79-01-6	Trichloroethene	6.	UJ
124-48-1	Dibromochloromethane	6.	UJ
79-00-5	1,1,2-Trichloroethane	6.	UJ
71-43-2	Benzene	6.	UJ
10061-02-6	trans-1,3-Dichloropropene	6.	UJ
75-25-2	Bromoform	6.	UJ
591-78-6	2-Hexanone	11.	UJ
108-10-1	4-Methyl-2-Pentanone	11.	UJ
127-18-4	Tetrachloroethene	6.	UJ
79-34-5	1,1,2,2-Tetrachloroethane	6.	UJ
108-88-3	Toluene	6.	UJ
108-90-7	Chlorobenzene	6.	UJ
100-41-4	Ethylbenzene	6.	UJ
100-42-5	Styrene	6.	UJ
1330-20-7	Xylenes (total)	6.	UJ

D 4-30-92

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B18(0-2)

Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: 000000 SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: B18(0-2)

Sample wt/vol: 5.000 (g/mL) G Lab File ID: D2038

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 13. Date Analyzed: 7/20/92

Column: (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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29.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B18(0-2)RE

Lab Name: AES Inc. Contract:

Lab Code: AES Case No.: E16000 SAS No.: 000031 SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: B18(0-2) RE

Sample wt/vol: 4.800 (g/mL) G Lab File ID: D2052

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 13. Date Analyzed: 7/21/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl Chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene Chloride	15.	B
67-64-1	Acetone	30.	B
75-15-0	Carbon Disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	6.	U
71-55-6	1,1,1-Trichloroethane	12.	U
56-23-5	Carbon Tetrachloride	6.	U
108-05-4	Vinyl Acetate	6.	U
75-27-4	Bromodichloromethane	12.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
591-78-6	2-Hexanone	6.	U
108-10-1	4-Methyl-2-Pentanone	12.	U
127-18-4	Tetrachloroethene	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	6.	U
108-90-7	Chlorobenzene	7.	
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylenes (total)	6.	U
		6.	U

OK INITIAL ANALYSIS RESULTS (R) 9-30 SJ

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: B18(0-2)RE

Lab Name: AES, INC Contract: 000032

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: B18(0-2) RE

Sample wt/vol: 4.800 (g/mL) G Lab File ID: D2052

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 13. Date Analyzed: 7/21/92

Column: (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Used Initial Analysis Results @ 4-30-92

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	141-78-6	Acetic acid, ethyl ester	14.26	20.	J
2.	- -	UNKNOWN	29.81	10.	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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15.					
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19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C2(0-2)

Lab Name: AES, Inc. Contract: 000033

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: C2(0-2)

Sample wt/vol: 5.000 (g/mL) G Lab File ID: D2039

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 19. Date Analyzed: 7/20/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl Chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene Chloride	13.	~~B~~ U
67-64-1	Acetone	12.	U
75-15-0	Carbon Disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon Tetrachloride	6.	U
108-05-4	Vinyl Acetate	12.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
591-78-6	2-Hexanone	12.	U
108-10-1	4-Methyl-2-Pentanone	12.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	2.	J
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylenes (total)	6.	U

9-30-92

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: C2(0-2)

Lab Name: AES, inc. Contract: 000034

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: C2(0-2)

Sample wt/vol: 5.000 (g/mL) G Lab File ID: D2039

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 19. Date Analyzed: 7/20/92

Column: (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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18.					
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22.					
23.					
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27.					
28.					
29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-3

Lab Name: AES, inc. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: DUP-3

Sample wt/vol: 4.900 (g/mL) G Lab File ID: D2035

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 12. Date Analyzed: 7/20/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12.	UJ
74-83-9	Bromomethane	12.	UJ
75-01-4	Vinyl Chloride	12.	UJ
75-00-3	Chloroethane	12.	UJ
75-09-2	Methylene Chloride	19.	B UJ
67-64-1	Acetone	12.	UJ
75-15-0	Carbon Disulfide	6.	UJ
75-35-4	1,1-Dichloroethene	6.	UJ
75-34-3	1,1-Dichloroethane	6.	UJ
540-59-0	1,2-Dichloroethene (total)	6.	UJ
67-66-3	Chloroform	6.	UJ
107-06-2	1,2-Dichloroethane	6.	UJ
78-93-3	2-Butanone	6.	UJ
71-55-6	1,1,1-Trichloroethane	12.	UJ
56-23-5	Carbon Tetrachloride	6.	UJ
108-05-4	Vinyl Acetate	6.	UJ
75-27-4	Bromodichloromethane	12.	UJ
78-87-5	1,2-Dichloropropane	6.	UJ
10061-01-5	cis-1,3-Dichloropropene	6.	UJ
79-01-6	Trichloroethene	6.	UJ
124-48-1	Dibromochloromethane	6.	UJ
79-00-5	1,1,2-Trichloroethane	6.	UJ
71-43-2	Benzene	6.	UJ
10061-02-6	trans-1,3-Dichloropropene	3.	J
75-25-2	Bromoform	6.	UJ
591-78-6	2-Hexanone	6.	UJ
108-10-1	4-Methyl-2-Pentanone	12.	UJ
127-18-4	Tetrachloroethene	12.	UJ
79-34-5	1,1,2,2-Tetrachloroethane	6.	UJ
108-88-3	Toluene	6.	UJ
108-90-7	Chlorobenzene	7.	J
100-41-4	Ethylbenzene	6.	UJ
100-42-5	Styrene	6.	UJ
1330-20-7	Xylenes (total)	6.	UJ
		6.	UJ

4-30-92

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: DUP-3

Lab Name: AES, INC. Contract: 000036

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: DUP-3

Sample wt/vol: 4.900 (g/mL) G Lab File ID: D2035

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 12. Date Analyzed: 7/20/92

Column: (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	9.40	6.	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
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29.					
30.					

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-3 RE

Lab Name: AES, INC. Contract: 000037

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: DUP-3 RE

Sample wt/vol: 4.800 (g/mL) G Lab File ID: D2050

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 12. Date Analyzed: 7/21/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl Chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene Chloride	24.	B
67-64-1	Acetone	19.	B
75-15-0	Carbon Disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U
67-66-3	Chloroform	6.	U
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon Tetrachloride	6.	U
108-05-4	Vinyl Acetate	12.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
591-78-6	2-Hexanone	12.	U
108-10-1	4-Methyl-2-Pentanone	12.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	6.	U
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
1330-20-7	Xylenes (total)	6.	U

Use Initial analysis results (RE) 9-30-92

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: DUP-3 RE

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

000038

Matrix: (soil/water) SOIL Lab Sample ID: DUP-3 RE

Sample wt/vol: 4.800 (g/mL) G Lab File ID: D2050

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 12. Date Analyzed: 7/21/92

Column: (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Out of Initial Analysis, Results (R) 9-3-92

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	110-54-3	Hexane	19.19	8.	J
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000089

FB-3

Name: AES, inc. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) WATER Lab Sample ID: FB-3

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: D2083

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 100. Date Analyzed: 7/24/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	3.	BJ
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	2.	J
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
591-78-6	2-Hexanone	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylenes (total)	5.	U

(JW) 9-30-92

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB-3

Lab Name: AES, INC. Contract: 0000-0

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) WATER Lab Sample ID: FB-3

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: D2083

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 100. Date Analyzed: 7/24/92

Column: (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	110-54-3	Hexane	19.22	5.	J
2.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A1(0-12)

Lab Name: AES, INC. Contract: 000041

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: A1(0-12)

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0751

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 10. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/12/92

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370.	U
111-44-4	bis(-2-Chloroethyl)Ether	370.	U
95-57-8	2-Chlorophenol	370.	U
541-73-1	1,3-Dichlorobenzene	370.	U
106-46-7	1,4-Dichlorobenzene	370.	U
100-51-6	Benzyl Alcohol	370.	U
95-50-1	1,2-Dichlorobenzene	370.	U
95-48-7	2-Methylphenol	370.	U
108-60-1	bis(2-Chloroisopropyl)ether	370.	U
106-44-5	4-Methylphenol	370.	U
621-64-7	N-Nitroso-Di-n-propylamine	370.	U
67-72-1	Hexachloroethane	370.	U
98-95-3	Nitrobenzene	370.	U
78-59-1	Isophorone	370.	U
88-75-5	2-Nitrophenol	370.	U
105-67-9	2,4-Dimethylphenol	370.	U
65-85-0	Benzoic Acid	1900.	U
111-91-1	bis(-2-Chloroethoxy)Methane	370.	U
120-83-2	2,4-Dichlorophenol	370.	U
120-82-1	1,2,4-Trichlorobenzene	370.	U
91-20-3	Naphthalene	370.	U
106-47-8	4-Chloroaniline	370.	U
87-68-3	Hexachlorobutadiene	370.	U
59-50-7	4-Chloro-3-methylphenol	370.	U
91-57-6	2-Methylnaphthalene	370.	U
77-47-4	Hexachlorocyclopentadiene	370.	UJ
88-06-2	2,4,6-Trichlorophenol	370.	UJ
95-95-4	2,4,5-Trichlorophenol	1900.	UJ
91-58-7	2-Chloronaphthalene	370.	UJ
88-74-4	2-Nitroaniline	1900.	UJ
131-11-3	Dimethyl Phthalate	370.	UJ
208-96-8	Acenaphthylene	370.	UJ
99-09-2	3-Nitroaniline	1900.	UJ

9.30.92

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A1(0-12)

Lab Name: AES, INC. Contract: 0000-12

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: A1(0-12)

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0751

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 10. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/12/92

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	370.	UJ
51-28-5	2,4-Dinitrophenol	1900.	UJ
100-02-7	4-Nitrophenol	1900.	UJ
132-64-9	Dibenzofuran	370.	UJ
121-14-2	2,4-Dinitrotoluene	370.	UJ
606-20-2	2,6-Dinitrotoluene	370.	UJ
84-66-2	Diethylphthalate	370.	UJ
7005-72-3	4-Chlorophenyl-phenylether	370.	UJ
86-73-7	Fluorene	370.	UJ
100-01-6	4-Nitroaniline	1900.	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1900.	UJ
86-30-6	N-Nitrosodiphenylamine	370.	UJ
101-55-3	4-Bromophenyl-phenylether	370.	UJ
118-74-1	Hexachlorobenzene	370.	UJ
87-86-5	Pentachlorophenol	1900.	UJ
85-01-8	Phenanthrene	370.	UJ
120-12-7	Anthracene	370.	UJ
84-74-2	Di-n-Butylphthalate	370.	UJ
206-44-0	Fluoranthene	370.	UJ
129-00-0	Pyrene	370.	UJ
85-68-7	Butylbenzylphthalate	370.	UJ
91-94-1	3,3'-Dichlorobenzidine	740.	UJ
56-55-3	Benzo(a)Anthracene	370.	UJ
117-81-7	Bis(2-Ethylhexyl)Phthalate	370.	UJ
218-01-9	Chrysene	370.	UJ
117-84-0	Di-n-octyl phthalate	370.	UJ
205-99-2	Benzo(b)fluoranthene	370.	UJ
207-08-9	Benzo(k)Fluoranthene	370.	UJ
50-32-8	Benzo(a)Pyrene	370.	UJ
193-39-5	Indeno(1,2,3-cd)Pyrene	370.	UJ
53-70-3	Dibenzo(a,h)Anthracene	370.	UJ
191-24-2	Benzo(g,h,i)Perylene	370.	UJ

(1) - Cannot be separated from diphenylamine

9-30-92

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: A1(0-12)

Lab Name: AES, INC. Contract: CC0043

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: A1(0-12)

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0751

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 10. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/12/92

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.00

Number TICs found: 17 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	ALDOL CONDENSATE	3.62	~~3000.~~	~~EJ~~ A
2.	- -	ISOMER TETRACHLOROBENZENE	9.95	100.	J
3.	- -	UNKNOWN ALKANE	11.89	200.	J
4.	- -	UNKNOWN PAH	14.28	900.	J
5.	- -	UNKNOWN PAH	14.47	200.	J
6.	- -	UNKNOWN PAH	14.77	600.	J
7.	- -	UNKNOWN ALKANE	14.83	200.	J
8.	- -	UNKNOWN PAH	14.90	1000.	J
9.	- -	UNKNOWN	15.06	700.	J
10.	- -	UNKNOWN ALKANE	15.45	400.	J
11.	608-93-5	Benzene, pentachloro- (8CI9C	15.98	700.	JN
12.	- -	UNKNOWN	16.37	300.	J
13.	- -	UNKNOWN	16.45	1000.	J
14.	- -	UNKNOWN ALKANE	17.01	700.	J
15.	- -	UNKNOWN ALKANE	18.49	1000.	J
16.	- -	UNKNOWN	33.53	1000.	J
17.	- -	UNKNOWN	34.29	3000.	J
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DW 9-30-92

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A1(0-12)RE

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: A1(0-12)RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0792

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 10. dec. Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/18/92

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370.	U
111-44-4	bis(-2-Chloroethyl)Ether	370.	U
95-57-8	2-Chlorophenol	370.	U
541-73-1	1,3-Dichlorobenzene	370.	U
106-46-7	1,4-Dichlorobenzene	370.	U
100-51-6	Benzyl Alcohol	370.	U
95-50-1	1,2-Dichlorobenzene	370.	U
95-48-7	2-Methylphenol	370.	U
108-60-1	bis(2-Chloroisopropyl)ether	370.	U
106-44-5	4-Methylphenol	370.	U
621-64-7	N-Nitroso-Di-n-propylamine	370.	U
67-72-1	Hexachloroethane	370.	U
98-95-3	Nitrobenzene	370.	U
78-59-1	Isophorone	370.	U
88-75-5	2-Nitrophenol	370.	U
105-67-9	2,4-Dimethylphenol	370.	U
65-85-0	Benzoic Acid	1900.	U
111-91-1	bis(-2-Chloroethoxy)Methane	370.	U
120-83-2	2,4-Dichlorophenol	370.	U
120-82-1	1,2,4-Trichlorobenzene	370.	U
91-20-3	Naphthalene	370.	U
106-47-8	4-Chloroaniline	370.	U
87-68-3	Hexachlorobutadiene	370.	U
59-50-7	4-Chloro-3-methylphenol	370.	U
91-57-6	2-Methylnaphthalene	370.	U
77-47-4	Hexachlorocyclopentadiene	370.	U
88-06-2	2,4,6-Trichlorophenol	370.	U
95-95-4	2,4,5-Trichlorophenol	1900.	U
91-58-7	2-Chloronaphthalene	370.	U
88-74-4	2-Nitroaniline	1900.	U
131-11-3	Dimethyl Phthalate	370.	U
208-96-8	Acenaphthylene	370.	U
99-09-2	3-Nitroaniline	1900.	U

DSC Initial Analysis Results 8/18/92

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A1(0-12)RE

Lab Name: AES, INC. Contract: 0CC045

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: A1(0-12)RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0792

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 10. dec. _____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/18/92

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	370.	U
51-28-5	2,4-Dinitrophenol	1900.	U
100-02-7	4-Nitrophenol	1900.	U
132-64-9	Dibenzofuran	370.	U
121-14-2	2,4-Dinitrotoluene	370.	U
606-20-2	2,6-Dinitrotoluene	370.	U
84-66-2	Diethylphthalate	370.	U
7005-72-3	4-Chlorophenyl-phenylether	370.	U
86-73-7	Fluorene	370.	U
100-01-6	4-Nitroaniline	1900.	U
534-52-1	4,6-Dinitro-2-methylphenol	1900.	U
86-30-6	N-Nitrosodiphenylamine	370.	U
101-55-3	4-Bromophenyl-phenylether	370.	U
118-74-1	Hexachlorobenzene	370.	U
87-86-5	Pentachlorophenol	1900.	U
85-01-8	Phenanthrene	370.	U
120-12-7	Anthracene	370.	U
84-74-2	Di-n-Butylphthalate	370.	U
206-44-0	Fluoranthene	370.	U
129-00-0	Pyrene	370.	U
85-68-7	Butylbenzylphthalate	370.	U
91-94-1	3,3'-Dichlorobenzidine	740.	U
56-55-3	Benzo(a)Anthracene	370.	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	370.	U
218-01-9	Chrysene	370.	U
117-84-0	Di-n-octyl phthalate	370.	U
205-99-2	Benzo(b)fluoranthene	370.	U
207-08-9	Benzo(k)Fluoranthene	370.	U
50-32-8	Benzo(a)Pyrene	370.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	370.	U
53-70-3	Dibenzo(a,h)Anthracene	370.	U
191-24-2	Benzo(g,h,i)Perylene	370.	U

(1) - Cannot be separated from diphenylamine

Dil Analysis Results 9-30-92

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: A1(0-12)RE

Lab Name: AES, INC. Contract: 000016

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: A1(0-12)RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0792

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 10. dec. _____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/18/92

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.00

Number TICs found: 13 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	ALDOL CONDENSATE	3.52	3000.	BJ A
2.	- -	ISOMER TETRACHLOROBENZENE	13.49	1000.	J
3.	- -	UNKNOWN PAH	14.16	900.	J
4.	- -	UNKNOWN PAH	14.64	500.	J
5.	- -	UNKNOWN	14.78	900.	J
6.	- -	UNKNOWN	14.94	700.	J
7.	- -	UNKNOWN ALKANE	15.34	1000.	J
8.	608-93-5	Benzene, pentachloro- (8CI,9C	15.84	700.	J
9.	- -	UNKNOWN	16.23	300.	J
10.	- -	UNKNOWN	16.32	1000.	J
11.	- -	UNKNOWN ALKANE	16.89	600.	J
12.	- -	UNKNOWN ALKANE	16.89	1000.	J
13.	- -	UNKNOWN ALKANE	16.89	1000.	J
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Org-1 Initial Results Reviewed 9-30-92

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A11(0-12

Lab Name: AES, INC. Contract: 0000-17

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: A11(0-12)

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0745

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 20. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/11/92

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	420.	U
111-44-4	bis(-2-Chloroethyl)Ether	420.	U
95-57-8	2-Chlorophenol	420.	U
541-73-1	1,3-Dichlorobenzene	420.	U
106-46-7	1,4-Dichlorobenzene	420.	U
100-51-6	Benzyl Alcohol	420.	U
95-50-1	1,2-Dichlorobenzene	420.	U
95-48-7	2-Methylphenol	420.	U
108-60-1	bis(2-Chloroisopropyl)ether	420.	U
106-44-5	4-Methylphenol	420.	U
621-64-7	N-Nitroso-Di-n-propylamine	420.	U
67-72-1	Hexachloroethane	420.	U
98-95-3	Nitrobenzene	420.	U
78-59-1	Isophorone	420.	U
88-75-5	2-Nitrophenol	420.	U
105-67-9	2,4-Dimethylphenol	420.	U
65-85-0	Benzoic Acid	2100.	U
111-91-1	bis(-2-Chloroethoxy)Methane	420.	U
120-83-2	2,4-Dichlorophenol	420.	U
120-82-1	1,2,4-Trichlorobenzene	420.	U
91-20-3	Naphthalene	420.	U
106-47-8	4-Chloroaniline	420.	U
87-68-3	Hexachlorobutadiene	420.	U
59-50-7	4-Chloro-3-methylphenol	420.	U
91-57-6	2-Methylnaphthalene	420.	U
77-47-4	Hexachlorocyclopentadiene	420.	U
88-06-2	2,4,6-Trichlorophenol	420.	U
95-95-4	2,4,5-Trichlorophenol	2100.	U
91-58-7	2-Chloronaphthalene	420.	U
88-74-4	2-Nitroaniline	2100.	U
131-11-3	Dimethyl Phthalate	420.	U
208-96-8	Acenaphthylene	420.	U
99-09-2	3-Nitroaniline	2100.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A11(0-12

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: 000048 SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: A11(0-12)

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0745

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 20. dec.____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/11/92

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	420.	U
51-28-5	2,4-Dinitrophenol	2100.	U
100-02-7	4-Nitrophenol	2100.	U
132-64-9	Dibenzofuran	420.	U
121-14-2	2,4-Dinitrotoluene	420.	U
606-20-2	2,6-Dinitrotoluene	420.	U
84-66-2	Diethylphthalate	420.	U
7005-72-3	4-Chlorophenyl-phenylether	420.	U
86-73-7	Fluorene	420.	U
100-01-6	4-Nitroaniline	2100.	U
534-52-1	4,6-Dinitro-2-methylphenol	2100.	U
86-30-6	N-Nitrosodiphenylamine	420.	U
101-55-3	4-Bromophenyl-phenylether	420.	U
118-74-1	Hexachlorobenzene	420.	U
87-86-5	Pentachlorophenol	2100.	U
85-01-8	Phenanthrene	98.	J
120-12-7	Anthracene	420.	U
84-74-2	Di-n-Butylphthalate	420.	U
206-44-0	Fluoranthene	160.	J
129-00-0	Pyrene	120.	J
85-68-7	Butylbenzylphthalate	420.	U
91-94-1	3,3'-Dichlorobenzidine	830.	U
56-55-3	Benzo(a)Anthracene	420.	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	420.	U
218-01-9	Chrysene	420.	U
117-84-0	Di-n-octyl phthalate	420.	U
205-99-2	Benzo(b)fluoranthene	420.	U
207-08-9	Benzo(k)Fluoranthene	420.	U
50-32-8	Benzo(a)Pyrene	420.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	420.	U
53-70-3	Dibenzo(a,h)Anthracene	420.	U
191-24-2	Benzo(g,h,i)Perylene	420.	U

(1) - Cannot be separated from diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

A11(0-12

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: 00049 SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: A11(0-12)

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0745

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 20. dec.____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/11/92

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.00

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	ALDOL CONDENSATE	3.72	~~2000.~~	~~BJ~~ A R
2.	- -	UNKNOWN OXYGENATED COMPOUND	6.29	200.	J
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9-30-92

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B18(0-2)

Lab Name: AES, INC Contract: 000030

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: B18(0-2)

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0748

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 13. dec.____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/11/92

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380.	U
111-44-4	bis(-2-Chloroethyl)Ether	380.	U
95-57-8	2-Chlorophenol	380.	U
541-73-1	1,3-Dichlorobenzene	380.	U
106-46-7	1,4-Dichlorobenzene	380.	U
100-51-6	Benzyl Alcohol	380.	U
95-50-1	1,2-Dichlorobenzene	380.	U
95-48-7	2-Methylphenol	380.	U
108-60-1	bis(2-Chloroisopropyl)ether	380.	U
106-44-5	4-Methylphenol	380.	U
621-64-7	N-Nitroso-Di-n-propylamine	380.	U
67-72-1	Hexachloroethane	380.	U
98-95-3	Nitrobenzene	380.	U
78-59-1	Isophorone	380.	U
88-75-5	2-Nitrophenol	380.	U
105-67-9	2,4-Dimethylphenol	380.	U
65-85-0	Benzoic Acid	1900.	U
111-91-1	bis(-2-Chloroethoxy)Methane	380.	U
120-83-2	2,4-Dichlorophenol	380.	U
120-82-1	1,2,4-Trichlorobenzene	380.	U
91-20-3	Naphthalene	59.	J
106-47-8	4-Chloroaniline	380.	U
87-68-3	Hexachlorobutadiene	380.	U
59-50-7	4-Chloro-3-methylphenol	380.	U
91-57-6	2-Methylnaphthalene	87.	J
77-47-4	Hexachlorocyclopentadiene	380.	U
88-06-2	2,4,6-Trichlorophenol	380.	U
95-95-4	2,4,5-Trichlorophenol	1900.	U
91-58-7	2-Chloronaphthalene	380.	U
88-74-4	2-Nitroaniline	1900.	U
131-11-3	Dimethyl Phthalate	380.	U
208-96-8	Acenaphthylene	380.	U
99-09-2	3-Nitroaniline	1900.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: B18(0-2)

Lab Name: AES, INC. Contract: 000031

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: B18(0-2)

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0748

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 13. dec. _____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/11/92

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	380.	U
51-28-5	2,4-Dinitrophenol	1900.	U
100-02-7	4-Nitrophenol	1900.	U
132-64-9	Dibenzofuran	380.	U
121-14-2	2,4-Dinitrotoluene	380.	U
606-20-2	2,6-Dinitrotoluene	380.	U
84-66-2	Diethylphthalate	380.	U
7005-72-3	4-Chlorophenyl-phenylether	380.	U
86-73-7	Fluorene	380.	U
100-01-6	4-Nitroaniline	1900.	U
534-52-1	4,6-Dinitro-2-methylphenol	1900.	U
86-30-6	N-Nitrosodiphenylamine	380.	U
101-55-3	4-Bromophenyl-phenylether	380.	U
118-74-1	Hexachlorobenzene	380.	U
87-86-5	Pentachlorophenol	1900.	U
85-01-8	Phenanthrene	77.	J
120-12-7	Anthracene	380.	U
84-74-2	Di-n-Butylphthalate	380.	U
206-44-0	Fluoranthene	380.	U
129-00-0	Pyrene	380.	U
85-68-7	Butylbenzylphthalate	380.	U
91-94-1	3,3'-Dichlorobenzidine	770.	U
56-55-3	Benzo(a)Anthracene	380.	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	380.	U
218-01-9	Chrysene	380.	U
117-84-0	Di-n-octyl phthalate	380.	U
205-99-2	Benzo(b)fluoranthene	380.	U
207-08-9	Benzo(k)Fluoranthene	380.	U
50-32-8	Benzo(a)Pyrene	380.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	380.	U
53-70-3	Dibenzo(a,h)Anthracene	380.	U
191-24-2	Benzo(g,h,i)Perylene	380.	U

(1) - Cannot be separated from diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
B18(0-2)

Lab Name: AES, INC. Contract: 800052

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: B18(0-2)

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0748

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 13. dec. _____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/11/92

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.00

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	ALDOL CONDENSATE	3.73	~~3000.~~	~~BJ~~ A+ R
2.	- -	ALDOL CONDENSATE	3.76	~~200.~~	~~J~~ A+ R
3.	- -	UNKNOWN OXYGENATED COMPOUND	6.29	200.	J (D)
4.	- -	UNKNOWN ALKANE	18.52	200.	J
5.	10544-50-0	Sulfur, mol. (S8) (8CI9CI)	23.35	700.	JN 9-30
6.	- -	UNKNOWN HYDROCARBON	24.72	400.	J
7.	- -	UNKNOWN ALKANE	24.81	200.	J
8.	- -	UNKNOWN ALKANE	25.93	200.	J
9.	- -	UNKNOWN	26.92	200.	J
10.	- -	UNKNOWN ALKANE	27.00	200.	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C2(0-2)

Lab Name: AES, INC, Contract: 000053

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: C2(0-2)

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0749

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 19. dec.____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/11/92

GPC Cleanup: (Y/N) N pH: 8.9 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	410.	U
111-44-4	bis(-2-Chloroethyl)Ether	410.	U
95-57-8	2-Chlorophenol	410.	U
541-73-1	1,3-Dichlorobenzene	410.	U
106-46-7	1,4-Dichlorobenzene	410.	U
100-51-6	Benzyl Alcohol	410.	U
95-50-1	1,2-Dichlorobenzene	410.	U
95-48-7	2-Methylphenol	410.	U
108-60-1	bis(2-Chloroisopropyl)ether	410.	U
106-44-5	4-Methylphenol	410.	U
621-64-7	N-Nitroso-Di-n-propylamine	410.	U
67-72-1	Hexachloroethane	410.	U
98-95-3	Nitrobenzene	410.	U
78-59-1	Isophorone	410.	U
88-75-5	2-Nitrophenol	410.	U
105-67-9	2,4-Dimethylphenol	410.	U
65-85-0	Benzoic Acid	2100.	U
111-91-1	bis(-2-Chloroethoxy)Methane	410.	U
120-83-2	2,4-Dichlorophenol	410.	U
120-82-1	1,2,4-Trichlorobenzene	410.	U
91-20-3	Naphthalene	410.	U
106-47-8	4-Chloroaniline	410.	U
87-68-3	Hexachlorobutadiene	410.	U
59-50-7	4-Chloro-3-methylphenol	410.	U
91-57-6	2-Methylnaphthalene	410.	U
77-47-4	Hexachlorocyclopentadiene	410.	U
88-06-2	2,4,6-Trichlorophenol	410.	U
95-95-4	2,4,5-Trichlorophenol	2100.	U
91-58-7	2-Chloronaphthalene	410.	U
88-74-4	2-Nitroaniline	2100.	U
131-11-3	Dimethyl Phthalate	410.	U
208-96-8	Acenaphthylene	410.	U
99-09-2	3-Nitroaniline	2100.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: C2(0-2)

Lab Name: AES, INC. Contract: 000054

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: C2(0-2)

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0749

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 19. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/11/92

GPC Cleanup: (Y/N) N pH: 8.9 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	410.	U
51-28-5	2,4-Dinitrophenol	2100.	U
100-02-7	4-Nitrophenol	2100.	U
132-64-9	Dibenzofuran	410.	U
121-14-2	2,4-Dinitrotoluene	410.	U
606-20-2	2,6-Dinitrotoluene	410.	U
84-66-2	Diethylphthalate	410.	U
7005-72-3	4-Chlorophenyl-phenylether	410.	U
86-73-7	Fluorene	410.	U
100-01-6	4-Nitroaniline	2100.	U
534-52-1	4,6-Dinitro-2-methylphenol	2100.	U
86-30-6	N-Nitrosodiphenylamine	410.	U
101-55-3	4-Bromophenyl-phenylether	410.	U
118-74-1	Hexachlorobenzene	410.	U
87-86-5	Pentachlorophenol	2100.	U
85-01-8	Phenanthrene	410.	U
120-12-7	Anthracene	410.	U
84-74-2	Di-n-Butylphthalate	410.	U
206-44-0	Fluoranthene	410.	U
129-00-0	Pyrene	410.	U
85-68-7	Butylbenzylphthalate	410.	U
91-94-1	3,3'-Dichlorobenzidine	820.	U
56-55-3	Benzo(a)Anthracene	410.	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	410.	U
218-01-9	Chrysene	410.	U
117-84-0	Di-n-octyl phthalate	410.	U
205-99-2	Benzo(b)fluoranthene	410.	U
207-08-9	Benzo(k)Fluoranthene	410.	U
50-32-8	Benzo(a)Pyrene	410.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	410.	U
53-70-3	Dibenzo(a,h)Anthracene	410.	U
191-24-2	Benzo(g,h,i)Perylene	410.	U

(1) - Cannot be separated from diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
C2(0-2)

Lab Name: AES, INC. Contract: 0CC035

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: C2(0-2)

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0749

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 19. dec.____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/11/92

GPC Cleanup: (Y/N) N pH: 8.9 Dilution Factor: 1.00

Number TICs found: 12 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	ALDOL CONDENSATE	3.73	~~3000.~~	~~BJ~~ A
2.	- -	ALDOL CONDENSATE	3.76	~~200.~~	~~J~~ A
3.	- -	UNKNOWN OXYGENATED COMPOUND	6.29	300.	J
4.	- -	UNKNOWN ALKANE	16.99	400.	J
5.	- -	UNKNOWN ALKANE	17.70	400.	J
6.	- -	UNKNOWN ALKANE	18.46	600.	J
7.	- -	UNKNOWN ALKANE	18.53	600.	J
8.	- -	UNKNOWN ALKANE	19.98	500.	J
9.	- -	UNKNOWN ALKANE	21.19	500.	J
10.	- -	UNKNOWN ALKANE	22.45	400.	J
11.	- -	UNKNOWN ALKANE	23.66	200.	J
12.	- -	UNKNOWN ALKANE	24.82	300.	J
13.					
14.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-3

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: 000056 SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: DUP-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0750

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 12. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/12/92

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380.	U
111-44-4	bis(-2-Chloroethyl)Ether	380.	U
95-57-8	2-Chlorophenol	380.	U
541-73-1	1,3-Dichlorobenzene	380.	U
106-46-7	1,4-Dichlorobenzene	380.	U
100-51-6	Benzyl Alcohol	380.	U
95-50-1	1,2-Dichlorobenzene	380.	U
95-48-7	2-Methylphenol	380.	U
108-60-1	bis(2-Chloroisopropyl)ether	380.	U
106-44-5	4-Methylphenol	380.	U
621-64-7	N-Nitroso-Di-n-propylamine	380.	U
67-72-1	Hexachloroethane	380.	U
98-95-3	Nitrobenzene	380.	U
78-59-1	Isophorone	380.	U
88-75-5	2-Nitrophenol	380.	U
105-67-9	2,4-Dimethylphenol	380.	U
65-85-0	Benzoic Acid	1900.	U
111-91-1	bis(-2-Chloroethoxy)Methane	380.	U
120-83-2	2,4-Dichlorophenol	380.	U
120-82-1	1,2,4-Trichlorobenzene	380.	U
91-20-3	Naphthalene	380.	U
106-47-8	4-Chloroaniline	380.	U
87-68-3	Hexachlorobutadiene	380.	U
59-50-7	4-Chloro-3-methylphenol	380.	U
91-57-6	2-Methylnaphthalene	380.	U
77-47-4	Hexachlorocyclopentadiene	380.	UJ
88-06-2	2,4,6-Trichlorophenol	380.	UJ
95-95-4	2,4,5-Trichlorophenol	1900.	UJ
91-58-7	2-Chloronaphthalene	380.	UJ
88-74-4	2-Nitroaniline	1900.	UJ
131-11-3	Dimethyl Phthalate	380.	UJ
208-96-8	Acenaphthylene	380.	UJ
99-09-2	3-Nitroaniline	1900.	UJ

9-30-92

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-3

Lab Name: AES, INC. Contract: 000087

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: DUP-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0750

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 12. dec.____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/12/92

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	380.	UJ
51-28-5	2,4-Dinitrophenol	1900.	UJ
100-02-7	4-Nitrophenol	1900.	UJ
132-64-9	Dibenzofuran	380.	UJ
121-14-2	2,4-Dinitrotoluene	380.	UJ
606-20-2	2,6-Dinitrotoluene	380.	UJ
84-66-2	Diethylphthalate	380.	UJ
7005-72-3	4-Chlorophenyl-phenylether	380.	UJ
86-73-7	Fluorene	380.	UJ
100-01-6	4-Nitroaniline	1900.	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1900.	UJ
86-30-6	N-Nitrosodiphenylamine	380.	UJ
101-55-3	4-Bromophenyl-phenylether	380.	UJ
118-74-1	Hexachlorobenzene	380.	UJ
87-86-5	Pentachlorophenol	1900.	UJ
85-01-8	Phenanthrene	380.	UJ
120-12-7	Anthracene	380.	UJ
84-74-2	Di-n-Butylphthalate	380.	UJ
206-44-0	Fluoranthene	380.	UJ
129-00-0	Pyrene	380.	UJ
85-68-7	Butylbenzylphthalate	380.	UJ
91-94-1	3,3'-Dichlorobenzidine	760.	UJ
56-55-3	Benzo(a)Anthracene	380.	UJ
117-81-7	Bis(2-Ethylhexyl)Phthalate	380.	UJ
218-01-9	Chrysene	380.	UJ
117-84-0	Di-n-octyl phthalate	380.	UJ
205-99-2	Benzo(b)fluoranthene	380.	UJ
207-08-9	Benzo(k)Fluoranthene	380.	UJ
50-32-8	Benzo(a)Pyrene	380.	UJ
193-39-5	Indeno(1,2,3-cd)Pyrene	380.	UJ
53-70-3	Dibenzo(a,h)Anthracene	380.	UJ
191-24-2	Benzo(g,h,i)Perylene	380.	UJ

(1) - Cannot be separated from diphenylamine

9-30-92

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: DUP-3

Lab Name: AES, INC. Contract: 000058

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: DUP-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0750

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 12. dec.____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/12/92

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

Number TICs found: 15 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	ALDOL CONDENSAte	3.62	~~3000.~~	~~BJ~~ AJR
2.	- -	ISOMER TETRACHLOROBENZENE	13.61	1000.	J
3.	- -	UNKNOWN ALKANE	13.81	200.	J
4.	- -	UNKNOWN PAH	14.29	900.	J
5.	- -	UNKNOWN	14.48	200.	J
6.	- -	UNKNOWN PAH	14.77	500.	J
7.	- -	UNKNOWN ALKANE	14.82	200.	J
8.	- -	UNKNOWN	14.91	900.	J
9.	- -	UNKNOWN	15.07	600.	J
10.	- -	UNKNOWN ALKANE	15.46	300.	J
11.	608-93-5	Benzene, pentachloro- (8CI9C	15.98	600.	JN
12.	- -	UNKNOWN	16.36	300.	J
13.	- -	UNKNOWN	16.44	1000.	J
14.	- -	UNKNOWN ALKANE	17.00	600.	J
15.	- -	UNKNOWN ALKANE	18.48	2000.	J
16.					
17.					
18.					
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9-30-9

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-3 RE

Lab Name: AE, INC. Contract: 0CC059

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: DUP-3 RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0791

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 12. dec.____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/18/92

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380.	U
111-44-4	bis(-2-Chloroethyl)Ether	380.	U
95-57-8	2-Chlorophenol	380.	U
541-73-1	1,3-Dichlorobenzene	380.	U
106-46-7	1,4-Dichlorobenzene	380.	U
100-51-6	Benzyl Alcohol	380.	U
95-50-1	1,2-Dichlorobenzene	380.	U
95-48-7	2-Methylphenol	380.	U
108-60-1	bis(2-Chloroisopropyl)ether	380.	U
106-44-5	4-Methylphenol	380.	U
621-64-7	N-Nitroso-Di-n-propylamine	380.	U
67-72-1	Hexachloroethane	380.	U
98-95-3	Nitrobenzene	380.	U
78-59-1	Isophorone	380.	U
88-75-5	2-Nitrophenol	380.	U
105-67-9	2,4-Dimethylphenol	380.	U
65-85-0	Benzoic Acid	1900.	U
111-91-1	bis(-2-Chloroethoxy)Methane	380.	U
120-83-2	2,4-Dichlorophenol	380.	U
120-82-1	1,2,4-Trichlorobenzene	240.	J
91-20-3	Naphthalene	380.	U
106-47-8	4-Chloroaniline	380.	U
87-68-3	Hexachlorobutadiene	380.	U
59-50-7	4-Chloro-3-methylphenol	380.	U
91-57-6	2-Methylnaphthalene	380.	U
77-47-4	Hexachlorocyclopentadiene	380.	U
88-06-2	2,4,6-Trichlorophenol	380.	U
95-95-4	2,4,5-Trichlorophenol	1900.	U
91-58-7	2-Chloronaphthalene	380.	U
88-74-4	2-Nitroaniline	1900.	U
131-11-3	Dimethyl Phthalate	380.	U
208-96-8	Acenaphthylene	380.	U
99-09-2	3-Nitroaniline	1900.	U

USE INITIAL ANALYSIS RESULTS 9-30-92

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-3 RE

Lab Name: AES, INC. Contract: C00060

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: DUP-3 RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0791

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 12. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/18/92

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	380.	U
51-28-5	2,4-Dinitrophenol	1900.	U
100-02-7	4-Nitrophenol	1900.	U
132-64-9	Dibenzofuran	380.	U
121-14-2	2,4-Dinitrotoluene	380.	U
606-20-2	2,6-Dinitrotoluene	380.	U
84-66-2	Diethylphthalate	380.	U
7005-72-3	4-Chlorophenyl-phenylether	380.	U
86-73-7	Fluorene	380.	U
100-01-6	4-Nitroaniline	1900.	U
534-52-1	4,6-Dinitro-2-methylphenol	1900.	U
86-30-6	N-Nitrosodiphenylamine	380.	U
101-55-3	4-Bromophenyl-phenylether	380.	U
118-74-1	Hexachlorobenzene	380.	U
87-86-5	Pentachlorophenol	1900.	U
85-01-8	Phenanthrene	380.	U
120-12-7	Anthracene	380.	U
84-74-2	Di-n-Butylphthalate	380.	U
206-44-0	Fluoranthene	380.	U
129-00-0	Pyrene	380.	U
85-68-7	Butylbenzylphthalate	380.	U
91-94-1	3,3'-Dichlorobenzidine	760.	U
56-55-3	Benzo(a)Anthracene	380.	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	380.	U
218-01-9	Chrysene	380.	U
117-84-0	Di-n-octyl phthalate	380.	U
205-99-2	Benzo(b)fluoranthene	380.	U
207-08-9	Benzo(k)Fluoranthene	380.	U
50-32-8	Benzo(a)Pyrene	380.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	380.	U
53-70-3	Dibenzo(a,h)Anthracene	380.	U
191-24-2	Benzo(g,h,i)Perylene	380.	U

(1) - Cannot be separated from diphenylamine

LOC INITIAL ANALYSIS RESULTS (B) 9-30-92

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DUP-3 RE

000061

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: DUP-3 RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0791

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 12. dec. _____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/18/92

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

Number TICs found: 12 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

OR INITIAL ANALYSIS RESULTS (RP) 4-30-93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	ALDOL CONDENSATE	3.53	3000.	BJ A
2.	- -	ISOMER TETRACHLOROBENZENE	13.49	1000.	J
3.	- -	UNKNOWN PAH	14.16	900.	J
4.	- -	UNKNOWN PAH	14.65	500.	J
5.	- -	UNKNOWN PAH	14.78	1000.	J
6.	- -	UNKNOWN	14.94	700.	J
7.	- -	UNKNOWN ALKANE	15.34	1000.	J
8.	608-93-5	Benzene, pentachloro- (8CI,9C	15.86	700.	J
9.	- -	UNKNOWN	16.24	300.	J
10.	- -	UNKNOWN	16.32	1000.	J
11.	- -	UNKNOWN ALKANE	16.89	600.	J
12.	- -	UNKNOWN ALKANE	18.37	2000.	J
13.					
14.					
15.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-3

Lab Name: AES, INC. Contract: 000082

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) WATER Lab Sample ID: FB-3

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: B0744

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 100. dec._____ Date Extracted: 7/20/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/11/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	20.	U
111-44-4	bis(-2-Chloroethyl)Ether	20.	U
95-57-8	2-Chlorophenol	20.	U
541-73-1	1,3-Dichlorobenzene	20.	U
106-46-7	1,4-Dichlorobenzene	20.	U
100-51-6	Benzyl Alcohol	20.	U
95-50-1	1,2-Dichlorobenzene	20.	U
95-48-7	2-Methylphenol	20.	U
108-60-1	bis(2-Chloroisopropyl)ether	20.	U
106-44-5	4-Methylphenol	20.	U
621-64-7	N-Nitroso-Di-n-propylamine	20.	U
67-72-1	Hexachloroethane	20.	U
98-95-3	Nitrobenzene	20.	U
78-59-1	Isophorone	20.	U
88-75-5	2-Nitrophenol	20.	U
105-67-9	2,4-Dimethylphenol	20.	U
65-85-0	Benzoic Acid	100.	U
111-91-1	bis(-2-Chloroethoxy)Methane	20.	U
120-83-2	2,4-Dichlorophenol	20.	U
120-82-1	1,2,4-Trichlorobenzene	20.	U
91-20-3	Naphthalene	20.	U
106-47-8	4-Chloroaniline	20.	U
87-68-3	Hexachlorobutadiene	20.	U
59-50-7	4-Chloro-3-methylphenol	20.	U
91-57-6	2-Methylnaphthalene	20.	U
77-47-4	Hexachlorocyclopentadiene	20.	U
88-06-2	2,4,6-Trichlorophenol	20.	U
95-95-4	2,4,5-Trichlorophenol	100.	U
91-58-7	2-Chloronaphthalene	20.	U
88-74-4	2-Nitroaniline	100.	U
131-11-3	Dimethyl Phthalate	20.	U
208-96-8	Acenaphthylene	20.	U
99-09-2	3-Nitroaniline	100.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-3

Lab Name: AES, INC. Contract: 000063

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) WATER Lab Sample ID: FB-3

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: B0744

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 100. dec._____ Date Extracted: 7/20/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/11/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
83-32-9	Acenaphthene	20.	U
51-28-5	2,4-Dinitrophenol	100.	U
100-02-7	4-Nitrophenol	100.	U
132-64-9	Dibenzofuran	20.	U
121-14-2	2,4-Dinitrotoluene	20.	U
606-20-2	2,6-Dinitrotoluene	20.	U
84-66-2	Diethylphthalate	20.	U
7005-72-3	4-Chlorophenyl-phenylether	20.	U
86-73-7	Fluorene	20.	U
100-01-6	4-Nitroaniline	100.	U
534-52-1	4,6-Dinitro-2-methylphenol	100.	U
86-30-6	N-Nitrosodiphenylamine	20.	U
101-55-3	4-Bromophenyl-phenylether	20.	U
118-74-1	Hexachlorobenzene	20.	U
87-86-5	Pentachlorophenol	100.	U
85-01-8	Phenanthrene	20.	U
120-12-7	Anthracene	20.	U
84-74-2	Di-n-Butylphthalate	20.	U
206-44-0	Fluoranthene	20.	U
129-00-0	Pyrene	20.	U
85-68-7	Butylbenzylphthalate	20.	U
91-94-1	3,3'-Dichlorobenzidine	40.	U
56-55-3	Benzo(a)Anthracene	20.	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	20.	U
218-01-9	Chrysene	20.	U
117-84-0	Di-n-octyl phthalate	20.	U
205-99-2	Benzo(b)fluoranthene	20.	U
207-08-9	Benzo(k)Fluoranthene	20.	U
50-32-8	Benzo(a)Pyrene	20.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	20.	U
53-70-3	Dibenzo(a,h)Anthracene	20.	U
191-24-2	Benzo(g,h,i)Perylene	20.	U

(1) - Cannot be separated from diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB-3

Lab Name: AES, INC. Contract: C00004

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) WATER Lab Sample ID: FB-3

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: B0744

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 100. dec. _____ Date Extracted: 7/20/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/11/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN OXYGENATED COMPOUND	17.70	40.	J
2.	- -	UNKNOWN ALKANE	27.01	8.	J
3.	- -	UNKNOWN ALKANE	29.02	8.	J
4.	- -	UNKNOWN ALKANE	30.90	10.	J
5.	- -	UNKNOWN	31.79	8.	J
6.					
7.					
8.					
9.					
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

A1(0-12)

Lab Name: AES, INC Contract: 3C0005

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: A1(0-12)

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 10. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/25/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 4000.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	Alpha-BHC	36000.	U
319-85-7	Beta-BHC	36000.	U
319-86-8	Delta-BHC	36000.	U
58-89-9	Gamma-BHC	36000.	U
76-44-8	Heptachlor	36000.	U
309-00-2	Aldrin	36000.	U
1024-57-3	Heptachlor Epoxide	36000.	U
959-98-8	Endosulfan I	36000.	U
60-57-1	Dieldrin	71000.	U
72-55-9	4,4'-DDE	71000.	U
72-20-8	Endrin	71000.	U
33213-65-9	Endosulfan II	71000.	U
72-54-8	4,4'-DDD	71000.	U
1031-07-8	Endosulfan Sulfate	71000.	U
50-29-3	4,4'-DDT	71000.	U
72-43-5	Methoxychlor	360000.	U
53494-70-5	Endrin Ketone	71000.	U
5103-71-9	Alpha Chlordane	36000.	U
5103-74-2	Gamma Chlordane	36000.	U
8001-35-2	Toxaphene	710000.	U
12674-11-2	Aroclor-1016	360000.	U
11104-28-2	Aroclor-1221	360000.	U
11141-16-5	Aroclor-1232	360000.	U
53469-21-9	Aroclor-1242	360000.	U
12672-29-6	Aroclor-1248	360000.	U
11097-69-1	Aroclor-1254	710000.	U
11096-82-5	Aroclor-1260	450000.	JC D 9-30-92

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A11(0-12)

Lab Name: AES, INC Contract: 000005

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: A11(0-12)

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 20. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/25/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	Alpha-BHC	10.	U
319-85-7	Beta-BHC	10.	U
319-86-8	Delta-BHC	10.	U
58-89-9	Gamma-BHC	10.	U
76-44-8	Heptachlor	10.	U
309-00-2	Aldrin	10.	U
1024-57-3	Heptachlor Epoxide	10.	U
959-98-8	Endosulfan I	10.	U
60-57-1	Dieldrin	20.	U
72-55-9	4,4'-DDE	20.	U
72-20-8	Endrin	20.	U
33213-65-9	Endosulfan II	20.	U
72-54-8	4,4'-DDD	20.	U
1031-07-8	Endosulfan Sulfate	20.	U
50-29-3	4,4'-DDT	20.	U
72-43-5	Methoxychlor	10.	U
53494-70-5	Endrin Ketone	20.	U
5103-71-9	Alpha Chlordane	100.	U
5103-74-2	Gamma Chlordane	100.	U
8001-35-2	Toxaphene	200.	U
12674-11-2	Aroclor-1016	100.	U
11104-28-2	Aroclor-1221	100.	U
11141-16-5	Aroclor-1232	100.	U
53469-21-9	Aroclor-1242	100.	U
12672-29-6	Aroclor-1248	100.	U
11097-69-1	Aroclor-1254	200.	U
11096-82-5	Aroclor-1260	200.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B18(0-2)

Lab Name: AES, INC Contract: 000007

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: B9.2(0-2)

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 13. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/25/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	Alpha-BHC	9.2	UJ
319-85-7	Beta-BHC	9.2	UJ
319-86-8	Delta-BHC	9.2	UJ
58-89-9	Gamma-BHC	9.2	UJ
76-44-8	Heptachlor	9.2	UJ
309-00-2	Aldrin	9.2	UJ
1024-57-3	Heptachlor Epoxide	9.2	UJ
959-98-8	Endosulfan I	9.2	UJ
60-57-1	Dieldrin	18.	UJ
72-55-9	4,4'-DDE	18.	UJ
72-20-8	Endrin	18.	UJ
33213-65-9	Endosulfan II	18.	UJ
72-54-8	4,4'-DDD	18.	UJ
1031-07-8	Endosulfan Sulfate	18.	UJ
50-29-3	4,4'-DDT	18.	UJ
72-43-5	Methoxychlor	9.2	UJ
53494-70-5	Endrin Ketone	18.	UJ
5103-71-9	Alpha Chlordane	9.2	UJ
5103-74-2	Gamma Chlordane	9.2	UJ
8001-35-2	Toxaphene	185.	UJ
12674-11-2	Aroclor-1016	93.	UJ
11104-28-2	Aroclor-1221	93.	UJ
11141-16-5	Aroclor-1232	93.	UJ
53469-21-9	Aroclor-1242	93.	UJ
12672-29-6	Aroclor-1248	93.	UJ
11097-69-1	Aroclor-1254	185.	UJ
11096-82-5	Aroclor-1260	185.	UJ

9-30-92

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B18(2-4)

Lab Name: AES, INC. Contract: 000008

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: B18(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 18. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	610.	U
11104-28-2	Arochlor-1221	610.	U
11141-16-5	Arochlor-1232	610.	U
53469-21-9	Arochlor-1242	610.	U
12672-29-6	Arochlor-1248	610.	U
11097-69-1	Arochlor-1254	610.	U
11096-82-5	Arochlor-1260	610.	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C1(0-2)

Lab Name: AES, INC. Contract: 000009

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: C1(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 18. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	610.	U
11104-28-2	Arochlor-1221	610.	U
11141-16-5	Arochlor-1232	610.	U
53469-21-9	Arochlor-1242	610.	U
12672-29-6	Arochlor-1248	610.	U
11097-69-1	Arochlor-1254	610.	U
11096-82-5	Arochlor-1260	500.	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C1(2-4)

Lab Name: AES, INC. Contract: 000070

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: C1(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 21. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	630.	UJ
11104-28-2	Arochlor-1221	630.	UJ
11141-16-5	Arochlor-1232	630.	UJ
53469-21-9	Arochlor-1242	630.	UJ
12672-29-6	Arochlor-1248	630.	UJ
11097-69-1	Arochlor-1254	630.	UJ
11096-82-5	Arochlor-1260	540.	J

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C2(0-2)

Lab Name: AES, INC Contract: CCCC71

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: C2(0-2)

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 19. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/25/92

GPC Cleanup: (Y/N) N pH: 9.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	Alpha-BHC	10.	U
319-85-7	Beta-BHC	10.	U
319-86-8	Delta-BHC	10.	U
58-89-9	Gamma-BHC	10.	U
76-44-8	Heptachlor	10.	U
309-00-2	Aldrin	10.	U
1024-57-3	Heptachlor Epoxide	10.	U
959-98-8	Endosulfan I	10.	U
60-57-1	Dieldrin	20.	U
72-55-9	4,4'-DDE	20.	U
72-20-8	Endrin	20.	U
33213-65-9	Endosulfan II	20.	U
72-54-8	4,4'-DDD	20.	U
1031-07-8	Endosulfan Sulfate	20.	U
50-29-3	4,4'-DDT	20.	U
72-43-5	Methoxychlor	10.	U
53494-70-5	Endrin Ketone	20.	U
5103-71-9	Alpha Chlordane	100.	U
5103-74-2	Gamma Chlordane	100.	U
8001-35-2	Toxaphene	200.	U
12674-11-2	Aroclor-1016	100.	U
11104-28-2	Aroclor-1221	100.	U
11141-16-5	Aroclor-1232	100.	U
53469-21-9	Aroclor-1242	100.	U
12672-29-6	Aroclor-1248	100.	U
11097-69-1	Aroclor-1254	200.	U
11096-82-5	Aroclor-1260	200.	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C2(2-4)

Lab Name: AES, INC. Contract: 000072

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: C2(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 18. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	610.	UJ
11104-28-2	Arochlor-1221	610.	UJ
11141-16-5	Arochlor-1232	610.	UJ
53469-21-9	Arochlor-1242	610.	UJ
12672-29-6	Arochlor-1248	610.	UJ
11097-69-1	Arochlor-1254	610.	UJ
11096-82-5	Arochlor-1260	490.	J

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C3(0-2)

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No. 000073 SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: C3(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 18. dec. _____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	610.	U
11104-28-2	Arochlor-1221	610.	U
11141-16-5	Arochlor-1232	610.	U
53469-21-9	Arochlor-1242	610.	U
12672-29-6	Arochlor-1248	610.	U
11097-69-1	Arochlor-1254	610.	U
11096-82-5	Arochlor-1260	250.	J

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C3(2-4)

Lab Name: AES, INC. Contract: CC0074

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: C3(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 20. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	620.	U
11104-28-2	Arochlor-1221	620.	U
11141-16-5	Arochlor-1232	620.	U
53469-21-9	Arochlor-1242	620.	U
12672-29-6	Arochlor-1248	620.	U
11097-69-1	Arochlor-1254	620.	U
11096-82-5	Arochlor-1260	140.	J

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EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

DUP 3

Lab Name: AES, INC Contract: 000075

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: DUP 3

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 12. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/25/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 4000.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	Alpha-BHC	36000.	U
319-85-7	Beta-BHC	36000.	U
319-86-8	Delta-BHC	36000.	U
58-89-9	Gamma-BHC	36000.	U
76-44-8	Heptachlor	36000.	U
309-00-2	Aldrin	36000.	U
1024-57-3	Heptachlor Epoxide	36000.	U
959-98-8	Endosulfan I	36000.	U
60-57-1	Dieldrin	73000.	U
72-55-9	4,4'-DDE	73000.	U
72-20-8	Endrin	73000.	U
33213-65-9	Endosulfan II	73000.	U
72-54-8	4,4'-DDD	73000.	U
1031-07-8	Endosulfan Sulfate	73000.	U
50-29-3	4,4'-DDT	73000.	U
72-43-5	Methoxychlor	360000.	U
53494-70-5	Endrin Ketone	73000.	U
5103-71-9	Alpha Chlordane	36000.	U
5103-74-2	Gamma Chlordane	36000.	U
8001-35-2	Toxaphene	730000.	U
12674-11-2	Aroclor-1016	360000.	U
11104-28-2	Aroclor-1221	360000.	U
11141-16-5	Aroclor-1232	360000.	U
53469-21-9	Aroclor-1242	360000.	U
12672-29-6	Aroclor-1248	360000.	U
11097-69-1	Aroclor-1254	730000.	U
11096-82-5	Aroclor-1260	400000.	JC

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB3

Lab Name: AES, INC Contract: 000076

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) WATER Lab Sample ID: FB3

Sample wt/vol: 500.0 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received: 7/17/92

% Moisture: not dec. 100. dec._____ Date Extracted: 7/20/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/24/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	Alpha-BHC	.10	U
319-85-7	Beta-BHC	.10	U
319-86-8	Delta-BHC	.10	U
58-89-9	Gamma-BHC	.10	U
76-44-8	Heptachlor	.10	U
309-00-2	Aldrin	.10	U
1024-57-3	Heptachlor Epoxide	.10	U
959-98-8	Endosulfan I	.10	U
60-57-1	Dieldrin	.20	U
72-55-9	4,4'-DDE	.20	U
72-20-8	Endrin	.20	U
33213-65-9	Endosulfan II	.20	U
72-54-8	4,4'-DDD	.20	U
1031-07-8	Endosulfan Sulfate	.20	U
50-29-3	4,4'-DDT	.20	U
72-43-5	Methoxychlor	.10	U
53494-70-5	Endrin Ketone	.20	U
5103-71-9	Alpha Chlordane	.10	U
5103-74-2	Gamma Chlordane	.10	U
8001-35-2	Toxaphene	2.0	U
12674-11-2	Aroclor-1016	.10	U
11104-28-2	Aroclor-1221	.10	U
11141-16-5	Aroclor-1232	.10	U
53469-21-9	Aroclor-1242	.10	U
12672-29-6	Aroclor-1248	.10	U
11097-69-1	Aroclor-1254	2.0	U
11096-82-5	Aroclor-1260	2.0	U

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

A-1(0-12)

Lab Name: AES Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix (soil/water): SOIL Lab Sample ID: A-1(0-12)

Level (low/med): Date Received: 07/17/92

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5950			P
7440-36-0	Antimony	7.1	B	J N	P
7440-38-2	Arsenic	4.4	J	N	F
7440-39-3	Barium	114			P
7440-41-7	Beryllium	0.75	B		P
7440-43-9	Cadmium	2.5			P
7440-70-2	Calcium	32200	J	E*	P
7440-47-3	Chromium	21.9			P
7440-48-4	Cobalt	8.9	B		P
7440-50-8	Copper	109	J		P
7439-89-6	Iron	20200	J	E	P
7439-92-1	Lead	151	J	*	P
7439-95-4	Magnesium	10100	J	E	P
7439-96-5	Manganese	421	J	E	P
7439-97-6	Mercury	0.45	J		CV
7440-02-0	Nickel	18.6			P
7440-09-7	Potassium	1130			P
7782-49-2	Selenium	1.1	U	J N W	F
7440-22-4	Silver	0.90	U	J N	P
7440-23-5	Sodium	217	B		P
7440-28-0	Thallium	2.2	U	J W	F
7440-62-2	Vanadium	23.1			P
7440-66-6	Zinc	672	J		P
	Cyanide				NR

9-30-92

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

A-11,0-12

Lab Name: AES Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix (soil/water): SOIL Lab Sample ID: A-11,0-12

Level (low/med): Date Received: 07/17/92

% Solids: 80.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5290	-		P
7440-36-0	Antimony	10.5	B	J N	P
7440-38-2	Arsenic	2.7	J	SN	F
7440-39-3	Barium	80.2			P
7440-41-7	Beryllium	0.69	B		P
7440-43-9	Cadmium	0.82	B		P
7440-70-2	Calcium	101000	J	E*	P
7440-47-3	Chromium	11.3			P
7440-48-4	Cobalt	7.0	B		P
7440-50-8	Copper	18.7			P
7439-89-6	Iron	13400	J	E	P
7439-92-1	Lead	83.8	J	*	P
7439-95-4	Magnesium	12000	J	E	P
7439-96-5	Manganese	554	J	E	P
7439-97-6	Mercury	0.12	U	J	CV
7440-02-0	Nickel	18.3			P
7440-09-7	Potassium	706	B		P
7782-49-2	Selenium	1.2	U	N	F
7440-22-4	Silver	1.0	U	J N	P
7440-23-5	Sodium	247	B		P
7440-28-0	Thallium	2.5	U	J W	F
7440-62-2	Vanadium	15.8			P
7440-66-6	Zinc	161	-		P
	Cyanide		-		NR
			-		

9-30-92

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

B18,0-2

Name: AES Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix (soil/water): SOIL Lab Sample ID: B18,0-2

Level (low/med): Date Received: 07/17/92

% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7520			P
7440-36-0	Antimony	6.0	U	J N	P
7440-38-2	Arsenic	3.0	J	N	F
7440-39-3	Barium	124			P
7440-41-7	Beryllium	0.70	B		P
7440-43-9	Cadmium	0.55	U		P
7440-70-2	Calcium	54800	J	E*	P
7440-47-3	Chromium	15.2			P
7440-48-4	Cobalt	12.8			P
7440-50-8	Copper	15.6			P
7439-89-6	Iron	23300	J	E	P
7439-92-1	Lead	25.8	J	*	P
7439-95-4	Magnesium	20000	J	E	P
7439-96-5	Manganese	626	J	E	P
7439-97-6	Mercury	0.11	U	J	CV
7440-02-0	Nickel	17.8			P
7440-09-7	Potassium	1050	B		P
7782-49-2	Selenium	1.1	U	N	F
7440-22-4	Silver	0.93	U	J N	P
7440-23-5	Sodium	347	B		P
7440-28-0	Thallium	2.3	U	J W	F
7440-62-2	Vanadium	20.2			P
7440-66-6	Zinc	67.7			P
	Cyanide				NR

9-30-92

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

C2,0-2

Lab Name: AES Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix (soil/water): SOIL Lab Sample ID: C2,0-2

Level (low/med): Date Received: 07/17/92

% Solids: 81.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25700			P
7440-36-0	Antimony	6.5	U	J N	P
7440-38-2	Arsenic	2.5	U	N W	F
7440-39-3	Barium	197			P
7440-41-7	Beryllium	0.19	U		P
7440-43-9	Cadmium	0.81	B		P
7440-70-2	Calcium	66300	J	E*	P
7440-47-3	Chromium	37.2			P
7440-48-4	Cobalt	17.2			P
7440-50-8	Copper	16.1			P
7439-89-6	Iron	30500	J	E	P
7439-92-1	Lead	8.2	U	* K	P
7439-95-4	Magnesium	20400	J	E	P
7439-96-5	Manganese	633	J	E	P
7439-97-6	Mercury	0.12	U	J	CV
7440-02-0	Nickel	32.5			P
7440-09-7	Potassium	10400			P
7782-49-2	Selenium	1.2	U	J N W	F
7440-22-4	Silver	1.0	U	J N	P
7440-23-5	Sodium	1370			P
7440-28-0	Thallium	2.5	U		F
7440-62-2	Vanadium	56.3			P
7440-66-6	Zinc	74.9			P
	Cyanide				NR

FZ 9-30-92

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

U.S. EPA - CLP 000031

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DUP-3

Lab Name: AES Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix (soil/water): SOIL Lab Sample ID: DUP-3

Level (low/med): Date Received: 07/17/92

% Solids: 88.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6670			P
7440-36-0	Antimony	18.4	J	N	P
7440-38-2	Arsenic	7.2	J	N	F
7440-39-3	Barium	105			P
7440-41-7	Beryllium	0.86	B		P
7440-43-9	Cadmium	2.2			P
7440-70-2	Calcium	45100	J	E*	P
7440-47-3	Chromium	21.6			P
7440-48-4	Cobalt	10.6	B		P
7440-50-8	Copper	76.5	J		P
7439-89-6	Iron	18500	J	E	P
7439-92-1	Lead	140	J	*	P
7439-95-4	Magnesium	13500	J	E	P
7439-96-5	Manganese	372	J	E	P
7439-97-6	Mercury	0.11	U	J	CV
7440-02-0	Nickel	19.9			P
7440-09-7	Potassium	1420			P
7782-49-2	Selenium	1.1	U	N	F
7440-22-4	Silver	0.92	U	J N	P
7440-23-5	Sodium	243	B		P
7440-28-0	Thallium	2.3	U	J W	F
7440-62-2	Vanadium	22.8			P
7440-66-6	Zinc	423	J		P
	Cyanide				NR

D4 9-30-92

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

ADIRONDACK ENVIRONMENTAL SERVICES 000082

I - CON

CONVENTIONAL WET CHEM ANALYSIS DATA SHEET

SAMPLE ID

A-1 (0-12)

Lab Name: AES INC Contract:_____

Lab Code: AES Case No: B16000 SAS No._____ SDG NO.: A-1 (0-12)

Matrix (SOIL/WATER): SOIL Lab Sample ID: A-1 (0-12)

% Solids: 90 Date Received: 7/17/92

Concentration Units (UG/L or MG/KG):MG/KG Dilution factor:

CAS NO.	ANALYTES	CONCENTRATION	C	M	Q
	CYANIDE	5.6	U	C	
	SULFIDE				
	TPH				
	TPH - GC				
	FLASHPOINT				
	CORROSIVITY				
	TDS				
	TS				
	HEX CHROMIUM				
	CHLORIDE				
	TURBIDITY				
	PHENOL				

ADIRONDACK ENVIRONMENTAL SERVICES

I - CON

CONVENTIONAL WET CHEM ANALYSIS DATA SHEET

SAMPLE ID

A 11(0-12)

Lab Name: AES INC Contract:_____

Lab Code: AES Case No: E16000 SAS No._____ SDG No.: A-1

Matrix (SOIL/WATER): SOIL Lab Sample ID: A 11(0-12)

% Solids: 80 Date Received: 7/17/92

Concentration Units (UG/L or MG/KG):MG/KG Dilution factor:

CAS NO.	ANALYTES	CONCENTRATION	C	M	Q
	CYANIDE	6.2	U	C	
	SULFIDE				
	TPH				
	TPH - GC				
	FLASHPOINT				
	CORROSIVITY				
	TDS				
	TS				
	HEX CHROMIUM				
	CHLORIDE				
	TURBIDITY				
	PHENOL				

ADIRONDACK ENVIRONMENTAL SERVICES

I - CCH

CONVENTIONAL WET CHEM ANALYSIS DATA SHEET

SAMPLE ID

B 18(0-2)

Lab Name: AES INC Contract:_____

Lab Code: AES Case No: E16000 SAS No._____ SDG No.: A-1

Matrix (SOIL/WATER): SOIL Lab Sample ID: B 18(0-2)

% Solids: 87 Date Received: 7/17/92

Concentration Units (UG/L or MG/KG):MG/KG Dilution factor:

CAS NO.	ANALYTES	CONCENTRATION	C	M	Q
	CYANIDE	5.7	U	C	
	SULFIDE				
	TPH				
	TPH - GC				
	FLASHPOINT				
	CORROSIVITY				
	TDS				
	TS				
	HEX CHROMIUM				
	CHLORIDE				
	TURBIDITY				
	PHENOL				

ADIRONDACK ENVIRONMENTAL SERVICES

I - COC

CONVENTIONAL WET CHEM ANALYSIS DATA SHEET

SAMPLE ID

C 2(0-2)

Lab Name: AES INC Contract:_____

Lab Code: AES Case No: E16000 SAS No._____ SDG No.: A-1

Matrix (SOIL/WATER): SOIL Lab Sample ID: C 2(0-2)

% Solids: 81 Date Received: 7/17/92

Concentration Units (UG/L or MG/KG):MG/KG Dilution factor:

CAS NO.	ANALYTES	CONCENTRATION	C	M	Q
	CYANIDE	6.2	U	C	
	SULFIDE				
	TPH				
	TPH - GC				
	FLASHPOINT				
	CORROSIVITY				
	TDS				
	TS				
	HEX CHROMIUM				
	CHLORIDE				
	TURBIDITY				
	PHENOL				

ADIRONDACK ENVIRONMENTAL SERVICES

I - CON

CONVENTIONAL WET CHEM ANALYSIS DATA SHEET

SAMPLE ID

DUP-2

Lab Name: AES INC Contract:_____

Lab Code: AES Case No: S16000 SAS No._____ SDG No.: A-1 (0-12)

Matrix (SOIL/WATER): SOIL Lab Sample ID: DUP-2

% Solids: 88 Date Received: 7/17/92

Concentration Units (UG/L or MG/KG): MG/KG Dilution factor:

CAS NO.	ANALYTES	CONCENTRATION	C	M	Q
	CYANIDE	5.7	U	C	
	SULFIDE				
	TPH				
	TPH - GC				
	FLASHPOINT				
	CORROSIVITY				
	TDS				
	TS				
	HEX CHROMIUM				
	CHLORIDE				
	TURBIDITY				
	PHENOL				

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TITLE PAGE

On July 17, 1992 twelve (12) soil samples, and one (1) fieldblank were received via Federal Express by Adirondack Environmental Services, Inc. from ERM-Northeast, Inc. in association with the ERM-Buffalo Sweeney Steel Project. These samples were analyzed for the parameters annotated on the Chain of Custody in accordance with the 1989 NYSDEC Analytical Services Protocol (ASP). The project was completed on September 24, 1992.

Frank Sweeney
Laboratory Director

Date: Sept 24, 1992

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CASE NARRATIVE

Client : ERM - Northeast, Inc.

Case : E16000

SDG : A1(0-12)

Samples :

A1(0-12)	
A11(0-12)	
B18(0-2)	
B18(2-4)	(PCB ONLY)
B18(8-10)	(*Extract and Hold* - PCB ONLY)
C1(0-2)	(PCB ONLY)
C1(2-4)	(PCB ONLY)
C2(0-2)	
C2(2-4)	(PCB ONLY)
C3(0-2)	(PCB ONLY)
C3(2-4)	(PCB ONLY)
DUP-3	
FB-3	

Note:
Samples in this case designated as "PCB's only" were assessed for PCB's using a modification of method 8080 as discussed previously. See Chain of Custody (COC).
_Insufficient sample volume was received for the Fieldblank sample (FB-3) in this case. As a result, half the required sample volume (500 ml) was used in the BNA and PEST/PCB extractions. Detection limits and/or relevant calcuations have been adjusted to reflect this fact. See telephone correspondence on 7/17/92 between Frank Scuderi (AES) and David Bradley (ERM).

VOLATILES

The compound, acetone, was slightly over the specified % RSD requirement of 35% for the initial calibration, at 39.6%. The % D's in all continuing calibtrations analyzed were within the speicified limits (below 35% D). It should be noted that current NYSDEC 12/91 protocol specifies a 100% D and RSD for this compound.

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The following samples were re-analyzed due to surrogates and/or internal standard recoveries that were outside of the specified limits. Results here indicate that matrix affects may exist.

SAMPLE NAME	SURROGATE(S) OUT	INTERNAL STD(S) OUT
A1(0-12)	TOL	DFB, CBZ
A1(0-12)RE	TOL	CBZ
B18(0-2)	TOL	DFB, CBZ
B18(0-2)RE	TOL, BFB	DFB, CBZ
DUP-3	-	DFB, CBZ
DUP-3RE	TOL	DFB, CBZ
A11(0-2)MS, MSD	-	CBZ *

* Corresponding sample area low, but just within specified limits.

Please note that apparent discrepancies between compounds detected in samples and their corresponding re-anlayses have been verified as "correct".

SEMIVOLATILES

The method blank (SBLK1) extracted with sample FB-3 (fieldblank) contained eleven (11) low level TIC's. Due to insufficient sample volume (see note above), the fieldblank could not be re-extracted with a "clean" water blank. It is believed that this factor did not have a negative impact on the identification of target, or TIC constituents contained in this sample.

The method blank (SBLK2) extracted with the soil samples in this SDG contained four (4) TIC's at the time of analysis. During the initial screen of the blank in question (included following narrative), this blank did not contain any TIC's above 10% of the closest Internal Standard. As a result corresponding samples were not re-extracted at that time with another blank. It is believed that this factor does not have a negative impact on the identification of target, or TIC constituents contained in the samples in this case.

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The following samples were re-analyzed due to surrogates and/or internal standard recoveries that were outside of the specified limits. Results here indicate that matrix affects may exist.

SAMPLE NAME	SURROGATE(S) OUT	INTERNAL STD(S) OUT
DUP-3	TPH	ANT, PHN, CRY, PRY
DUP-3RE	-	ANT, PHN, CRY, PRY
A1(0-12)	TPH	ANT, PHN, CRY, PRY
A1(0-12)RE	-	ANT, PHN, CRY, PRY

The spike compound, pentachlorophenol has been flagged "E" (over-range) in the MS of sample A11(0-12) and the MSB due to levels of the compound exceeding the calibration range by 1.43 and 51.41 ppb respectively. Since one is required to spike at a level (200 ppb) exceeding the calibration range (160ppb), when excellent recoveries (around 100%) are obtained (similar to the ones observed here), over-range values can be "expected". As a result, these samples were not diluted and re-analyzed for the pentachlorophenol values noted above.

The compound 3,3'dichlorobenzidine was above the 35% RSD requirements for initial calibration on the GCMS "A" instrument only. The corresponding %D's in continuing calibrations analyzed on the "A" and "B" instruments were all within the specified % D criteria of 25% with the exception of continuing BS166, which exceeded the criteria by 2%. None of the samples in this case contained the compound noted above. It should be noted, the current 12/91 NYSDEC protocol specifies a %RSD and %D of **100** % for this compound.

The spike recoveries for the matrix spike blank sample were below the advisory recovery limits. These limits are significantly higher than the limits set for matrix spike and matrix spike duplicate samples. Due to the affinity of phenols for water, we find it extremely difficult to achieve these new limits. Included in this data package, therefore, please find supporting data indicating that the recoveries reported are well within the recovery ranges supplied by EPA method 8270 even though they are outside of the range as specified by this protocol. This evidence can be found behind a semivolatile comment page after this narrative.

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The discrepancy in the 9/89 protocol for non-CCC compounds is as follows:

DIII 44.4.4 = max 25%D for non-CCC
E-50 2.6.2.1 = max 20%D for non-CCC

Per clarification at the data validator's meeting on 5/16/90, all semivolatile continuing calibration standards should be assessed for compliance using the maximum value of 25%D for non-CCC compounds.

PEST/PCB

The compound Endosulfan II was over 20% D by 6.6 % in INDB (17:25) analyzed on confirmation column, DB1701. This compound was below 15% on the primary column as required, and was not detected in any of the samples in this case.

Samples A1(0-12) and DUP-3 were extracted low level were diluted 4000-fold prior to analysis due to suspected (screening) and confirmed high levels of target constituents. This dilution was well below the 100,000 fold dilution allowable in low level analysis as specified in both the NYSDEC 12/91 ASP and EPA SOW 3/90 protocols. Corresponding concentration values were within the calibration range, and were qualitatively confirmed by GC/MS.

Following this narrative, please find corresponding peaks used for PCB identification along with concentration values present in INDA and INDB mixes.

PCB

Following this narrative, please find corresponding peaks used for PCB identification.

Spike recoveries for AR1260 on the primary column were slightly outside of the advisory limits in the corresponding MS and MSD of sample C2(2-4). These results indicate that matrix affects may exist.

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INORGANICS

The following element was outside of the specified range for pre-digestion spike recovery (75-125%) and has been flagged "N" on forms 1 and 5A in the data package as required. This may indicate possible matrix interferences.

Pre-Digestion Spike	Element(s)	ICP POST SPIKE
A11(0-12)	Sb (25.3%)	170% R
A11(0-12)	Se, As	Se, As
A11(0-12)	Ag	NR

The analytes Ca, Fe, Mg, and Mn have been flagged "E" on forms 1 and 9 in the data package as required, due to results obtained from the serial dilution analysis of sample A11(0-12). These results indicate that chemical interferences may exist.

Samples A1(0-12), A11(0-12), B18(0-2), C2(0-2) and DUP-3 were inadvertently analyzed one (1) day outside of the specified holding time (26 days) for mercury analysis. Mercury was only detected in sample A1(0-12) at 0.41 ppm. Please note samples were delivered within one day of collection (see COC).

Due to sample volume limitations noted above the fieldblank was not analyzed for metals even though the analysis was requested (see COC).

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Frank Seuden
Laboratory Director

Date: Sept 24, 1992

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OCC151

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CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM-Northeast	General Electric 318 Urban St	Karen Baker
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Albany	380.048	Karen ES Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.		SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
920717BD1	FB-3	7/16/92	1610	A/P	Water		X	4	1-PCBs 3-TCL > TAL-TCL FS 7/1
BD 2	DUP-3	7/16/92		A/P	Soil	X		4	1-PCBs 3-TCL > TAL-TCL FS 7/17/9
BD 3	A1 (0"-12")	7/16/92	1150	A/P	Soil	X		4	1-PCBs 3-TCL > TAL-TCL FS 7/17/92
BD 4	A11 (+MS/MSD) (0"-12")	7/16/92	1210	A/P	Soil	X		6	6-TCL (3 are TAL-TCL MS/MSD)
BD 5	B18, 0'-2'	7/16/92	0840	A/P	Soil	X		4	1-PCBs 3-TCL > TAL-TCL FS 7/1
BD 6	B18, 2'-4'	7/16/92	0845	A/P	Soil	X		1	PCBs
BD 7	B18, 8'-10'	7/16/92	0905	A/P	Soil	X		1	EXTRACT & HOLD FOR POSSIBLE PCB ANALYS
BD 8	C1, 0'-2'	7/16/92	1415	A/P	Soil	X		1	PCBs
BD 9	C1, 2'-4'	7/16/92	1430	A/P	Soil	X		1	PCBs
B 10	C2, 0'-2'	7/16/92	1310	A/P	Soil	X		4	1-PCBs 3-TCL > TAL-TCL FS 7/17/92
B 11	C2, 2'-4' (+MS/MSD)	7/16/92	1320	A/P	Soil	X		2	PCBs (1 is MS/MSD)
B 12	C3, 0'-2'	7/16/92	1345	A/P	Soil	X		1	PCBs
B 13	C3, 2'-4'	7/16/92	1350	A/P	Soil	X		1	PCBs

Turnaround Time

Laboratory Approval:

Relinquished by: (Signature) Karen ES Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**

Dispatched by: (Signature) Karen ES Baker	**Date/Time** 7/16/92	**Received for Laboratory by:** C Shugulard	**Date/Time** 7/17/92 8:45
Method of Shipment: Federal Express	**Send Report To:** Dave Bradley - ERM-NE Albany		**Client Phone No.:**

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of $10.00 per container for disposal.

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

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CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM - Northeast	General Electric 318 Urban St.	Karen Baker
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Albany	380.048	Karen E Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
920717B14	TB-1 (Trip Blank)		A/P	Water		X	2	2-TCL Canal 1
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					

Turnaround Time

Laboratory Approval:

Relinquished by: (Signature) Karen E Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**

Dispatched by: (Signature) Karen E Baker	**Date/Time** 7/16/92	**Received for Laboratory by:** C Hegeland	**Date/Time** 7/17/92 8:45
Method of Shipment: Federal Express	**Send Report To:** Dave Bradley - ERM-NE Albany		**Client Phone No.:**

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of $10.00 per container for disposal.

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

000153

FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL PACKAGE TRACKING NUMBER 6733105971

1031N 6733105971

Date 7/16/92

RECIPIENT'S COPY

1 From (Your Name) Please Print: Karen Baker — Your Phone Number (Very Important): (716)633-5920

Company: ERM-NORTH EAST — Department/Floor No.:

Street Address: 5500 MAIN STREET

City: WILLIAMSVILLE — State: NY — ZIP Required: 1 4 2 2 1

2 To (Recipient's Name) Please Print: Dimple Handler — Recipient's Phone Number (Very Impo): 515 434-4

Company: Adirondack Environmental S — Department/Floo

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip+ Codes.): 314 N. Pearl St.

City: Albany — State: NY — ZIP Required: 12207

YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.): 3X0.046

H IF HOLD FOR PICK-UP, Print FEDEX Address Here — Street Address — City — State — ZIP Required

3 PAYMENT 1 ☐ Bill Sender 2 ☐ Bill Recipient's FedEx Acct. No. 3 ☒ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card 5 ☐ Cash

4 SERVICES (Check only one box)

Priority Overnight Service (Delivery by next business morning†)	Standard Overnight Service (Delivery by next business afternoon†)
11 ☒ YOUR PACKAGING	51 ☐
16 ☐ FEDEX LETTER *	56 ☐ FEDEX LETTER *
12 ☐ FEDEX PAK *	52 ☐ FEDEX PAK *
13 ☐ FEDEX BOX	53 ☐ FEDEX BOX
14 ☐ FEDEX TUBE	54 ☐ FEDEX TUBE

Economy Service (formerly Standard Air) (Delivery by second business day†)	Heavyweight Service (for Extra Large or any package over 150 lbs.)
30 ☐ ECONOMY SERVICE	70 ☐ HEAVYWEIGHT **
	80 ☐ DEFERRED HEAVYWEIGHT **

†Delivery commitment may be later in some areas. *Declared Value Limit $100. **Call for delivery schedule.

DELIVERY AND SPECIAL HANDLING

1 ☐ HOLD FOR PICK-UP (Fill in Box H)
2 ☒ DELIVER WEEKDAY
3 ☐ DELIVER SATURDAY (Extra charge) (Not available to all locations)
4 ☐ DANGEROUS GOODS (Extra charge) (CSS not available for Dangerous Goods Shipments)
5 ☐ CONSTANT SURVEILLANCE SVC. (CSS) (Extra charge) (Release Signature Not Applicable)
6 ☐ DRY ICE _____ Lbs.
7 ☐ OTHER SPECIAL SERVICE _____
8 ☐
9 ☐ SATURDAY PICK-UP (Extra charge)
10 ☐
11 ☐
12 ☐ HOLIDAY DELIVERY (Extra charge)

PACKAGES	WEIGHT in Pounds Only	YOUR DECLARED VALUE	OVER SIZE
Total	Total	Total	

DIM SHIPMENT (Heavyweight Services Only) ☐ _____ lbs.

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FedEx Emp. No.

5 Release Signature: _____ Date/Time

Emp. No. — Date

☐ Cash Received ☐ Return Shipment ☐ Third Party ☐ Chg. To Del. ☐ Chg. To Hold

Street Address

City — State — Zip

Received By: X

Date/Time Received — FedEx Employee Number

Federal Express Use	
Base Charges	
Declared Value Charge	
Other 1	
Other 2	
Total Charges	

REVISION DATE 11/89 PART #119501 NCREC FORMAT #014

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TELECOMMUNICATION

Between: Dave Bradly - Doug Wolf of ERM

and

Frank Scuderi (AES)

Date: 7/17/92

Time: 11:20 am

Summary:

Observed problem with Chain of Custody and sample volumes received today (July 17, 1992), ERM - Sweeney Steel Buffalo Project.

1) Samples labeled for analysis 1-PCB, 3-TCL are, infact for Full TAL-TCL.

2) For Field Blank - Split liter for Pest/PCB and Semivols. Okay from Dave Bradly and Doug Wolf to give higher MDL.

3) Cancel Trip Blank.

INTERNAL CHAIN OF CUSTODY **000155**

AES SAMPLE # 920717-B01 BOTTLE # 1		CLIENTS SAMP. ID. FB-3		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	Monica H. Travers	Transfer to VOA Refrigerator	7/17/92	9:45

AES SAMPLE # 920717-B01 BOTTLE # 2		CLIENTS SAMP. ID. FB-3		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	Monica H. Travers	Transfer to VOA Refrigerator	7/17/92	9:45

AES SAMPLE # 920717-B01 BOTTLE # 3		CLIENTS SAMP. ID. FB-3		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	Transfer to VOA Refrigerator	7/17/92	9:45

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000156

AES SAMPLE # 920717-301 RELINQUISHED BY	BOTTLE # 4 RECEIVED BY	CLIENTS SAMP. ID. FB-3 REASON FOR TRANSFER	DATE	TIME
[signature]	Colleen O'Hern	to extract	7/20/92	1423

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000157

AES SAMPLE # 920717-B02 BOTTLE # 1		CLIENTS SAMP. ID. Dup-3		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	Monica H. Treaver	Transfer to ADK Refrigerator	7/17/92	9:45

AES SAMPLE # 920717-B02 BOTTLE # 2		CLIENTS SAMP. ID. Dup-3		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	Monica H. Treaver	Transfer to ADK Refrigerator	7/17/92	9:45

AES SAMPLE # 920717-B02 BOTTLE # 3		CLIENTS SAMP. ID. Dup-3		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	Monica H. Treaver	Transfer to ADK Refrigerator	7/17/92	9:45
[signature]	[signature]	[signature]	7/17/92	12:45

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY

000158

AES SAMPLE # 920717-B02 BOTTLE # 4 CLIENTS SAMP. ID. Dup-3

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	Kathleen Riff	To Be Extracted	7/17/92	2:35 PM
Kathleen Riff	[signature]	Return to Login	7/17/92	4:30 PM
[signature]	[signature]	CYANIDE ANALYSIS	7/22/92	1120
[signature]	[signature]	Return to Login	7/22/92	1440
[signature]	Carol A Hagmon	To be digested for Hg	8/13/92	15:14
Carol A Hagmon	[signature]	Return to Login	8/13/92	16:48
[signature]	Carol A Hagmon	To digest for metals	8/26/92	9:20
Carol A Hagmon	[signature]	Return to Login	8/26/92	4:30

AES SAMPLE # BOTTLE # CLIENTS SAMP. ID.

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME

AES SAMPLE # BOTTLE # CLIENTS SAMP. ID.

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY

AES SAMPLE # 920717-B03 BOTTLE # 1		CLIENTS SAMP. ID. A1(0-2)		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	Transfer to VOA Refrigerator	7/17/92	9:45

AES SAMPLE # 920717-B03 BOTTLE # 2		CLIENTS SAMP. ID. A1(0-2)		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	Transfer to VOA Refrigerator	7/17/92	9:45

AES SAMPLE # 920717-B03 BOTTLE # 3		CLIENTS SAMP. ID. A1(0-2)		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	Transfer to VOA Refrigerator	7/17/92	9:45
+ [signature]	[signature]	FOR BN/A extraction	7/17/92	12:45
[signature]	+ [signature]	RETURN to VOA Refrigerator	7/17/92	16:00

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 0001CO

AES SAMPLE # 920717-B03 BOTTLE # 4 RELINQUISHED BY	RECEIVED BY	CLIENTS SAMP. ID. A1(0-2) REASON FOR TRANSFER	DATE	TIME
	Kathleen R Siff	To Be Extracted	7/17/92	2 35 PM
		Return to Login	7/17/92	4 30 PM
		Cyanide Analysis	7/22/92	1130
		Return to Login	7/22/92	1440
	Carol L Hagmon	To digest for Hg	8/13/92	15:14
		Return to Login	8/13/92	16:48
	Carol L Hagmon	To digest for metals	8/26/92	9:20
		Return to Login	8/26/92	4.30

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000161

AES SAMPLE # 920717-604 RELINQUISHED BY	BOTTLE # 2 RECEIVED BY	CLIENTS SAMP. ID. All (ms/msd) (0-12) REASON FOR TRANSFER	DATE	TIME
[signature]	Carol A Hagaman	To digest for metals	8/26/92	9:20
Carol A Hagaman	[signature]	Return to Logan	8/26/92	4:30

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY **000162**

AES SAMPLE # 920717-B04 BOTTLE # #1 RELINQUISHED BY	RECEIVED BY	CLIENTS SAMP. ID. A 11 (MS/MSD) (0-12) REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	Transfer to VOA Refrig.	7/17/92	9:45

AES SAMPLE # 920717-B04 BOTTLE # #2 RELINQUISHED BY	RECEIVED BY	CLIENTS SAMP. ID. A 11 (MS/MSD) (0-12) REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	Transfer to VOA Refrig.	7/17/92	9:45
	[signature]		7/17/92	12:45
[signature]	Kathleen R Siff	To Be Extracted	7/17/92	3 45 PM
Kathleen R Siff	[signature]	Return to Login	7/17/92	4 30 PM
[signature]	[signature]	CYANIDE ANALYSIS	7/22/92	1130
[signature]	[signature]	Return to Login	7/22/92	1440
[signature]	Carol A Hagnon	Digest for Hg	8/13/92	15:40
Carol A Hagnon	[signature]	Return to Login	8/13/92	16:48

AES SAMPLE # 920717-B04 BOTTLE # #3 RELINQUISHED BY	RECEIVED BY	CLIENTS SAMP. ID. A 11 (MS/MSD) (0-12) REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	Transfer to VOA Refrigerator	7/17/92	9.45

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY **000163**

AES SAMPLE # 920717-B04 RELINQUISHED BY	BOTTLE # #4 RECEIVED BY	CLIENTS SAMP. ID. All (MS MSD) (1-12) REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	Analysis	7/17/92	9:45
[signature]	Kathleen R Siff	To Be Extracted	7/17/92	2:45
Kathleen R Siff	[signature]	Return to Login	7/17/92	4:30 pm

AES SAMPLE # 920717-B04 RELINQUISHED BY	BOTTLE # 5 RECEIVED BY	CLIENTS SAMP. ID. All (MS MSD) (1-12) REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	Analysis	7/17/92	9:45
[signature]	Kathleen R Siff	To Be Extracted	7/17/92	2:45
Kathleen R Siff	[signature]	Return to Login	7/17/92	4:30 pm

AES SAMPLE # 920717-B04 RELINQUISHED BY	BOTTLE # 6 RECEIVED BY	CLIENTS SAMP. ID. All (MS MSD) (1-12) REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	Transfer to IEA Refrig.	7/17/92	9:45

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000154

AES SAMPLE # 920717-B05 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. B18,0-2 REASON FOR TRANSFER	DATE	TIME
[signature]	H. Travers	Transfer to VOA Refrigerator	7/17/92	9:45

AES SAMPLE # 920717-B05 RELINQUISHED BY	BOTTLE # 2 RECEIVED BY	CLIENTS SAMP. ID. B18,0-2 REASON FOR TRANSFER	DATE	TIME
[signature]	H. Travers	Transfer to VOA Refrigerator	7/17/92	9:45

AES SAMPLE # 920717-B05 RELINQUISHED BY	BOTTLE # 3 RECEIVED BY	CLIENTS SAMP. ID. B18,0-2 REASON FOR TRANSFER	DATE	TIME
[signature]	H. Travers	Transfer to VOA Refrigerator	7/17/92	9:45
[signature]	[signature]	BN/A extraction	7/17/92	12:15
[signature]	H. Travers	Return to VOA Refrigerator	7/17/92	16:00

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000165

AES SAMPLE # 920717-B05 RELINQUISHED BY	BOTTLE # 4 RECEIVED BY	CLIENTS SAMP. ID. BBD-2 REASON FOR TRANSFER	DATE	TIME
[signature]	Kathleen R Siff	To Be Extracted	7/17/92	2 45 PM
Kathleen R Siff	[signature]	Return to Login	7/17/92	4 30 PM
[signature]	[signature]	Cyanide Analysis	7/22/92	1130
[signature]	[signature]	Return to Login	7/22/92	1440
[signature]	Carol A Hagmon	Digest for Hg	8/13/92	15:14
Carol A Hagmon	[signature]	Return to Login	8/13/92	16:48
[signature]	Carol A Hagmon	To digest for Metals	8/26/92	9:20
Carol A Hagmon	[signature]	Return to Login	8/26/92	4:30

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000165

AES SAMPLE # 920717-B06 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. B18, 2-4 REASON FOR TRANSFER	DATE	TIME
Lisa M. Jaquish	Kathleen R Siff	To Be Extracted	7/17/92	2 45 PM
Kathleen R Siff	Lisa M Jaquish	Return to Login	7/17/92	4 30 PM

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000167

AES SAMPLE # 920717-B57 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. B18,8-10 REASON FOR TRANSFER	DATE	TIME
Lisa M Dopp	Kathleen R Siff	To Be Extracted	7/17/92	2 45 PM
Kathleen R Siff	Lisa M Dopp	Return to Login	7/17/92	4 30 PM

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.®

INTERNAL CHAIN OF CUSTODY 000168

AES SAMPLE # 920717-B58 BOTTLE # 1 RELINQUISHED BY	RECEIVED BY	CLIENTS SAMP. ID. C1,0-2 REASON FOR TRANSFER	DATE	TIME
[signature]	Kathleen RSiff	To Be Extracted	7/17/92	2 45 PM
Kathleen RSiff	[signature]	Return to Login	7/17/92	4 30 PM

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000169

AES SAMPLE # 920717-B09 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. C1, 2-4 REASON FOR TRANSFER	DATE	TIME
Lisa M. LaDuke	Kathleen R Siff	To Be Extracted	7/17/92	2 45 92
Kathleen R Siff	Lisa M. LaDuke	Return to Login	7/17/92	4 30 pm

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY

000170

AES SAMPLE # 920717-BID BOTTLE # 1 RELINQUISHED BY	RECEIVED BY	CLIENTS SAMP. ID. C2, D-2 REASON FOR TRANSFER	DATE	TIME
[signature]	N. Travers	Transfer to VOA Refrigerator	7/17/92	9:45

AES SAMPLE # 920717-BID BOTTLE # 2 RELINQUISHED BY	RECEIVED BY	CLIENTS SAMP. ID. C2, D-2 REASON FOR TRANSFER	DATE	TIME
[signature]	N. Travers	Transfer to VOA Refrigerator	7/17/92	9:45

AES SAMPLE # 920717-BID BOTTLE # 3 RELINQUISHED BY	RECEIVED BY	CLIENTS SAMP. ID. C2, D-2 REASON FOR TRANSFER	DATE	TIME
[signature]	N. Travers	Transfer to VOA Refrigerator	7/17/92	9:45
N. Travers	Cathy Sennett	FOR BN/A extraction	7/17/92	12:45
Cathy Sennett	N. Travers	Return to VOA Refrigerator	7/17/92	16:00

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY

000171

AES SAMPLE # 920717-310 RELINQUISHED BY	BOTTLE # 4 RECEIVED BY	CLIENTS SAMP. ID. C2,0-2 REASON FOR TRANSFER	DATE	TIME
	Kathleen R Siff	To Be Extracted	7/17/92	2 45 PM
Kathleen R Siff		Return to Login	7/17/92	4 30 PM
	Mark Cuba	Cyanide Analysis	7/22/92	1430
Mark Cuba		Return to Login	7/22/92	1440
	Carol L Hagnon	Digest for Hg	8/13/92	15:14
Carol L Hagnon		Return to Login	8/13/92	16:48
	Carol L Hagnon	To digest for metals	8/26/92	9:20
Carol L Hagnon		Return to Login	8/26/92	4:30

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000172

AES SAMPLE # 920717-B11 RELINQUISHED BY	BOTTLE # #1 RECEIVED BY	CLIENTS SAMP. ID. C2, 2-4 (MS/MSD) REASON FOR TRANSFER	DATE	TIME
[signature]	Kathleen R Siff	To Be Extracted	7/17/92	2 45 PM
Kathleen R Siff	[signature]	Return to Login	7/17/92	4 30

AES SAMPLE # 920717-B11 RELINQUISHED BY	BOTTLE # 2 RECEIVED BY	CLIENTS SAMP. ID. C2, 2-4 (MS/MSD) REASON FOR TRANSFER	DATE	TIME

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOA
ANALYSES

000176

SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	DATE EXTRACTED	DATE ANALYZED
A1	SOIL	7/16/92	7/17/92	N/A	7/20/92
A11 (0-12)	SOIL	7/16/92	7/17/92	N/A	7/20/92
B18 (0-2)	SOIL	7/16/92	7/17/92	N/A	7/20/92
C2 (0-2)	SOIL	7/16/92	7/17/92	N/A	7/20/92
DUP 3	SOIL	7/16/92	7/17/92	N/A	7/20/92
FB3	WATER	7/16/92	7/17/92	N/A	7/24/92

INTERNAL CHAIN OF CUSTODY

000175

AES SAMPLE # 920717-B14 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. TB-1 REASON FOR TRANSFER	DATE	TIME
[signature]	R. H. Traver	Cancelled	7/17/92	9:45

AES SAMPLE # 920717-B14 RELINQUISHED BY	BOTTLE # 2 RECEIVED BY	CLIENTS SAMP. ID. TB-1 REASON FOR TRANSFER	DATE	TIME
[signature]	R. H. Traver	Cancelled	7/17/92	9:45

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000174

AES SAMPLE # 920717-B13 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. C3, 2-4 REASON FOR TRANSFER	DATE	TIME
Lisa M Loyd	Kathleen R Siff	To Be Extracted	7/17/92	2 45 pm
Kathleen R Siff	Lisa M Loyd	Return to Login	7/17/92	4 30 pm

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.®

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
BNA
ANALYSES

000177

SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	DATE EXTRACTED	DATE ANALYZED
A - 1 (0-12)	SOIL	7/16/92	7/17/92	7/17/92	8/12/92
A - 11 (0-12)	SOIL	7/16/92	7/17/92	7/17/92	8/11/92
B - 18 (0-2)	SOIL	7/16/92	7/17/92	7/17/92	8/11/92
C - 2 (0-2)	SOIL	7/16/92	7/17/92	7/17/92	8/11/92
Dup - 3	SOIL	7/16/92	7/17/92	7/17/92	8/12/92
Field Blank 3	WATER	7/16/92	7/17/92	7/20/92	8/11/92

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

000178

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PEST/PCB
ANALYSES

SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	DATE EXTRACTED	DATE ANALYZED
A1(0-12)	SOIL	7/16/92	7/17/92	7/17/92	8/25/92
A11(0-12)	SOIL	7/16/92	7/17/92	7/17/92	8/25/92
B18(0-2)	SOIL	7/16/92	7/17/92	7/17/92	8/25/92
C2(0-2)	SOIL	7/16/92	7/17/92	7/17/92	8/25/92
DUP-3	SOIL	7/16/92	7/17/92	7/17/92	8/25/92
FB3	WATER	7/16/92	7/17/92	7/20/92	8/25/92

INTERNAL CHAIN OF CUSTODY

AES SAMPLE # 920717-B12 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. C3,0-2 REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	To Be Extracted	7/17/92	2 45 pm
[signature]	[signature]	Return to Login	7/17/92	4 30 pm

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

AES SAMPLE # RELINQUISHED BY	BOTTLE # RECEIVED BY	CLIENTS SAMP. ID. REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY

PCB

ANALYSES

000179

SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	DATE EXTRACTED	DATE ANALYZED
B18(2-4)	SOIL	7/16/92	7/17/92	7/17/92	7/31/92
C1(0-2)	SOIL	7/16/92	7/17/92	7/17/92	7/31/92
C1(2-4)	SOIL	7/16/92	7/17/92	7/17/92	7/31/92
C2(2-4)	SOIL	7/16/92	7/17/92	7/17/92	7/31/92
C3(0-2)	SOIL	7/16/92	7/17/92	7/17/92	7/31/92
C3(2-4)	SOIL	7/16/92	7/17/92	7/17/92	7/31/92

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Name: AES_____ Contract: _____

Lab Code: AES_____ Case No.: E16000____ SAS No.: _____ SDG No.: A-1_____

SOW No.: _____

EPA Sample No.	Lab Sample ID.
A-1(0-12)	A-1(0-12)
A-11,0-12	A-11,0-12
A-11,0-12 D	A-11,0-12 D
A-11,0-12 S	A-11,0-12 S
B18,0-2	B18,0-2
C2,0-2	C2,0-2
DUP-3	DUP-3

Were ICP interelement corrections applied ? Yes/No NO_

Were ICP background corrections applied ? Yes/No NO_
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: _____

Date: _____

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY

INORGANIC ANALYSIS

LABORATORY SAMPLE CODE	MATRIX	ANALTYICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
A -1 (0-12)	SOIL	Al	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Sb	EPA 3050	NONE	200
A -1 (0-12)	SOIL	As	EPA 3050	0.05% Pd	200
A -1 (0-12)	SOIL	Ba	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Be	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Cd	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Ca	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Cr	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Co	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Cu	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Fe	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Pb	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Mg	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Mn	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Hg	EPA 3050	10% sNcL2	200
A -1 (0-12)	SOIL	Ni	EPA 3050	NONE	200
A -1 (0-12)	SOIL	K	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Se	EPA 3050	0.05% Pd	200
A -1 (0-12)	SOIL	Ag	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Na	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Tl	EPA 3050	0.05% Pd	200
A -1 (0-12)	SOIL	V	EPA 3050	NONE	200
A -1 (0-12)	SOIL	Zn	EPA 3050	NONE	200

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

000182

SAMPLE PREPARATION AND ANALYSIS SUMMARY

INORGANIC ANALYSIS

LABORATORY SAMPLE CODE	MATRIX	ANALTYICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
A -11 (0-12)	SOIL	Al	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Sb	EPA 3050	NONE	200
A -11 (0-12)	SOIL	As	EPA 3050	0.05% Pd	200
A -11 (0-12)	SOIL	Ba	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Be	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Cd	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Ca	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Cr	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Co	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Cu	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Fe	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Pb	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Mg	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Mn	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Hg	EPA 3050	10% sNcL2	200
A -11 (0-12)	SOIL	Ni	EPA 3050	NONE	200
A -11 (0-12)	SOIL	K	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Se	EPA 3050	0.05% Pd	200
A -11 (0-12)	SOIL	Ag	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Na	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Tl	EPA 3050	0.05% Pd	200
A -11 (0-12)	SOIL	V	EPA 3050	NONE	200
A -11 (0-12)	SOIL	Zn	EPA 3050	NONE	200

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY

000133

INORGANIC ANALYSIS

LABORATORY SAMPLE CODE	MATRIX	ANALTYICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
B -18 (0-2)	SOIL	Al	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Sb	EPA 3050	NONE	200
B -18 (0-2)	SOIL	As	EPA 3050	0.05% Pd	200
B -18 (0-2)	SOIL	Ba	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Be	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Cd	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Ca	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Cr	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Co	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Cu	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Fe	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Pb	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Mg	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Mn	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Hg	EPA 3050	10% sNcL2	200
B -18 (0-2)	SOIL	Ni	EPA 3050	NONE	200
B -18 (0-2)	SOIL	K	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Se	EPA 3050	0.05% Pd	200
B -18 (0-2)	SOIL	Ag	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Na	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Tl	EPA 3050	0.05% Pd	200
B -18 (0-2)	SOIL	V	EPA 3050	NONE	200
B -18 (0-2)	SOIL	Zn	EPA 3050	NONE	200

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 000484

SAMPLE PREPARATION AND ANALYSIS SUMMARY

INORGANIC ANALYSIS

LABORATORY SAMPLE CODE	MATRIX	ANALTYICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
C -2 (0-2)	SOIL	Al	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Sb	EPA 3050	NONE	200
C -2 (0-2)	SOIL	As	EPA 3050	0.05% Pd	200
C -2 (0-2)	SOIL	Ba	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Be	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Cd	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Ca	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Cr	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Co	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Cu	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Fe	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Pb	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Mg	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Mn	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Hg	EPA 3050	10% sNcL2	200
C -2 (0-2)	SOIL	Ni	EPA 3050	NONE	200
C -2 (0-2)	SOIL	K	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Se	EPA 3050	0.05% Pd	200
C -2 (0-2)	SOIL	Ag	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Na	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Tl	EPA 3050	0.05% Pd	200
C -2 (0-2)	SOIL	V	EPA 3050	NONE	200
C -2 (0-2)	SOIL	Zn	EPA 3050	NONE	200

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY

000135

INORGANIC ANALYSIS

LABORATORY SAMPLE CODE	MATRIX	ANALTYICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
DUP -3	SOIL	Al	EPA 3050	NONE	200
DUP -3	SOIL	Sb	EPA 3050	NONE	200
DUP -3	SOIL	As	EPA 3050	0.05% Pd	200
DUP -3	SOIL	Ba	EPA 3050	NONE	200
DUP -3	SOIL	Be	EPA 3050	NONE	200
DUP -3	SOIL	Cd	EPA 3050	NONE	200
DUP -3	SOIL	Ca	EPA 3050	NONE	200
DUP -3	SOIL	Cr	EPA 3050	NONE	200
DUP -3	SOIL	Co	EPA 3050	NONE	200
DUP -3	SOIL	Cu	EPA 3050	NONE	200
DUP -3	SOIL	Fe	EPA 3050	NONE	200
DUP -3	SOIL	Pb	EPA 3050	NONE	200
DUP -3	SOIL	Mg	EPA 3050	NONE	200
DUP -3	SOIL	Mn	EPA 3050	NONE	200
DUP -3	SOIL	Hg	EPA 3050	10% sNcL2	200
DUP -3	SOIL	Ni	EPA 3050	NONE	200
DUP -3	SOIL	K	EPA 3050	NONE	200
DUP -3	SOIL	Se	EPA 3050	0.05% Pd	200
DUP -3	SOIL	Ag	EPA 3050	NONE	200
DUP -3	SOIL	Na	EPA 3050	NONE	200
DUP -3	SOIL	Tl	EPA 3050	0.05% Pd	200
DUP -3	SOIL	V	EPA 3050	NONE	200
DUP -3	SOIL	Zn	EPA 3050	NONE	200

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000006

ORGANIC SEMIVOLATILE COMMENT

As explained in the case narrative, it is extremely difficult to obtained the recovery limits as specified by the 1989 Analytical Services Protocol for blank spikes. Attached is a copy of recovery limits for the matrix spike and matrix spike duplicate under EPA method 8270 for these spiking compounds, along with three other separate analyses in addition the one reported in this package, of matrix spike blank samples and recoveries obtained.

From the supporting data presented here, every recovery is outside of the new range (75-125%) in every blank spike, except for n-nitroso-di-n-propylamine in one SBLKMSB. Even that recovery was closer to the lower 75% limit. Also indicated on these forms is an assessment of the blank spike using EPA method 8270 recovery limits set for the matrix spike and duplicate. If these results are based on these limits, all recoveries would be will within the range.

Although the limits specified by protocol are denoted as "advisory", and the data as presented for the matrix spike blank is technically compliant, in the Laboratory's assessment, they are extremely difficult to obtain, if not physically impossible. This is true not only when considering these analyses, but also when considering the nature of the Base/Neutral and Acid/Phenol compounds themselves, their physical/chemical characteristics, and their affinity for water. Perhaps limits closer to those outlined in EPA method 8270 would be more suitable.

TABLE 6.
QC ACCEPTANCE CRITERIA 000007

Parameter	Test conc. (ug/L)	Limit for s (ug/L)	Range for x̄ (ug/L)	Range p, ps (%)
Acenaphthene	100	27.6	60.1-132.3	47-145
Acenaphthylene	100	40.2	53.5-126.0	33-145
Aldrin	100	39.0	7.2-152.2	D-166
Anthracene	100	32.0	43.4-118.0	27-133
Benz(a)anthracene	100	27.6	41.8-133.0	33-143
Benzo(b)fluoranthene	100	38.8	42.0-140.4	24-159
Benzo(k)fluoranthene	100	32.3	25.2-145.7	11-162
Benzo(a)pyrene	100	39.0	31.7-148.0	17-163
Benzo(ghi)perylene	100	58.9	D-195.0	D-219
Benzyl butyl phthalate	100	23.4	D-139.9	D-152
β-BHC	100	31.5	41.5-130.6	24-149
δ-BHC	100	21.6	D-100.0	D-110
Bis(2-chloroethyl)ether	100	55.0	42.9-126.0	12-158
Bis(2-chloroethoxy)methane	100	34.5	49.2-164.7	33-184
Bis(2-chloroisopropyl)ether	100	46.3	62.8-138.6	36-166
Bis(2-ethylhexyl)phthalate	100	41.1	28.9-136.8	8-158
4-Bromophenyl phenyl ether	100	23.0	64.9-114.4	53-127
2-Chloronaphthalene	100	13.0	64.5-113.5	60-118
4-Chlorophenyl phenyl ether	100	33.4	38.4-144.7	25-158
Chrysene	100	48.3	44.1-139.9	17-168
4,4'-DDD	100	31.0	D-134.5	D-145
4,4'-DDE	100	32.0	19.2-119.7	4-136
4,4'-DDT	100	61.6	D-170.6	D-203
Dibenzo(a,h)anthracene	100	70.0	D-199.7	D-227
Di-n-butyl phthalate	100	16.7	8.4-111.0	1-118
1,2-Dichlorobenzene	100	30.9	48.6-112.0	32-129
1,3-Dichlorobenzene	100	41.7	16.7-153.9	D-172
1,4-Dichlorobenzene	100	32.1	37.3-105.7	20-124
3,3'-Dichlorobenzidine	100	71.4	8.2-212.5	D-262
Dieldrin	100	30.7	44.3-119.3	29-136
Diethyl phthalate	100	26.5	D-100.0	D-114
Dimethyl phthalate	100	23.2	D-100.0	D-112
2,4-Dinitrotoluene	100	21.8	47.5-126.9	39-139
2,6-Dinitrotoluene	100	29.6	68.1-136.7	50-158
Di-n-octylphthalate	100	31.4	18.6-131.8	4-146
Endosulfan sulfate	100	16.7	D-103.5	D-107
Endrin aldehyde	100	32.5	D-188.8	D-209
Fluoranthene	100	32.8	42.9-121.3	26-137
Fluorene	100	20.7	71.6-108.4	59-121
Heptachlor	100	37.2	D-172.2	D-192
Heptachlor epoxide	100	54.7	70.9-109.4	26-155

TABLE 6.
(Continued)

Parameter	Test conc. (ug/L)	Limit for s (ug/L)	Range for x (ug/L)	Range p, p_s (%)
Hexachlorobenzene	100	24.9	7.8-141.5	D-152
Hexachlorobutadiene	100	26.3	37.8-102.2	24-116
Hexachloroethane	100	24.5	55.2-100.0	40-113
Indeno(1,2,3-cd)pyrene	100	44.6	D-150.9	D-171
Isophorone	100	63.3	46.6-180.2	21-196
Naphthalene	100	30.1	35.6-119.6	21-133
Nitrobenzene	100	39.3	54.3-157.6	35-180
N-Nitrosodi-n-propylamine	100	55.4	13.6-197.9	D-230
PCB-1260	100	54.2	19.3-121.0	D-164
Phenanthrene	100	20.6	65.2-108.7	54-120
Pyrene	100	25.2	69.6-100.0	52-115
1,2,4-Trichlorobenzene	100	28.1	57.3-129.2	44-142
4-Chloro-3-methylphenol	100	37.2	40.8-127.9	22-147
2-Chlorophenol	100	28.7	36.2-120.4	23-134
2,4-Chlorophenol	100	26.4	52.5-121.7	39-135
2,4-Dimethylphenol	100	26.1	41.8-109.0	32-119
2,4-Dinitrophenol	100	49.8	D-172.9	D-191
2-Methyl-4,6-dinitrophenol	100	93.2	53.0-100.0	D-181
2-Nitrophenol	100	35.2	45.0-166.7	29-182
4-Nitrophenol	100	47.2	13.0-106.5	D-132
Pentachlorophenol	100	48.9	38.1-151.8	14-176
Phenol	100	22.6	16.6-100.0	5-112
2,4,6-Trichlorophenol	100	31.7	52.4-129.2	37-144

s = Standard deviation of four recovery measurements, in ug/L.

x = Average recovery for four recovery measurements, in ug/L.

p, p_s = Percent recovery measured.

D = Detected; result must be greater than zero.

[a]Criteria from 40 CFR Part 136 for Method 625. These criteria are based directly on the method performance data in Table 7. Where necessary, the limits for recovery have been broadened to assure applicability of the limits to concentrations below those used to develop Table 7.

WATER SEMIVOLATILE MATRIX SPIKE BLANK RECOVERY

Lab Name: AES INC Contract_____

Lab Code: AES Case No: SAS No:_____ SDG No:

Matrix Spike - EPA Sample No.: SBLK

Matrix (SOIL/WATER): WATER

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MSB CONCENTRATION (UG/L)	MS % REC	QC LIMITS REC
PHENOL	200	0	63	32	* 75-125
2-Chlorophenol	200	0	118	59	* 75-125
1.4-Dichlorobenzene	100	0	53	53	* 75-125
N-Nitroso-Di-n-propylamine	100	0	67	67	* 75-125
1,2,4-Trichlorobenzene	100	0	53	53	* 75-125
4-Chloro-3-Methoyphenol	200	0	115	58	* 75-125
Acenaphthene	100	0	55	55	* 75-125
4-Nitorophenol	200	0	37	19	* 75-125
2,4-Dinitrotoluene	100	0	48	48	* 75-125
Pentachlorophenol	200	0	107	54	* 75-125
Pyrene	100	0	61	61	* 75-125

** Spike Recovery 0 out of 11 outside of recovery limits using "reasonable" method 8270 recovery limits.

Spike Recovery: 11 out of 11 outside of limits (using new set limits)

000010

- WATER SEMIVOLATILE MATRIX SPIKE BLANK RECOVERY

Lab Name: AES INC Contract_____

Lab Code: AES Case No: SAS No:_____ SDG No:

Matrix Spike - EPA Sample No.: SBLK

Matrix (SOIL/WATER): WATER

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MSB CONCENTRATION (UG/L)	MS % REC	QC LIMITS REC
PHENOL	200	0	62	31	* 75-125
2-Chlorophenol	200	0	121	60	* 75-125
1.4-Dichlorobenzene	100	0	56	56	* 75-125
N-Nitroso-Di-n-propylamine	100	0	74	74	* 75-125
1,2,4-Trichlorobenzene	100	0	56	56	* 75-125
4-Chloro-3-Methoyphenol	200	0	107	54	* 75-125
Acenaphthene	100	0	60	60	* 75-125
4-Nitorophenol	200	0	32	16	* 75-125
2,4-Dinitrotoluene	100	0	51	51	* 75-125
Pentachlorophenol	200	0	105	53	* 75-125
Pyrene	100	0	65	65	* 75-125

** Spike Recovery 0 out of 11 outside of recovery limits using "reasonable" method 8270 recovery limits.

Spike Recovery: 11 out of 11 outside of limits (using new set limits)

WATER SEMIVOLATILE MATRIX SPIKE BLANK RECOVERY

Lab Name: AES INC Contract_____ 000011

Lab Code: AES Case No: SAS No:_____ SDG No:

Matrix Spike - EPA Sample No.: SBLK

Matrix (SOIL/WATER): WATER

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MSB CONCENTRATION (UG/L)	MS % REC	QC LIMITS REC
PHENOL	200	0	67	34	* 75-125
2-Chlorophenol	200	0	125	62	* 75-125
1.4-Dichlorobenzene	100	0	62	62	* 75-125
N-Nitroso-Di-n-propylamine	100	0	81	81	75-125
1,2,4-Trichlorobenzene	100	0	62	62	* 75-125
4-Chloro-3-Methoyphenol	200	0	117	59	* 75-125
Acenaphthene	100	0	65	65	* 75-125
4-Nitorophenol	200	0	43	21	* 75-125
2,4-Dinitrotoluene	100	0	61	61	* 75-125
Pentachlorophenol	200	0	117	58	* 75-125
Pyrene	100	0	63	63	* 75-125

** Spike Recovery 0 out of 11 outside of recovery limits using "reasonable" method 8270 recovery limits.

Spike Recovery: 10 out of 11 outside of limits (using new set limits)

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000012

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PESTICIDE/PCB DATA INFORMATION SHEET

SDG: A1(0-12) **Client: ERM - NE** **Case No.: E16000**

EXTRACTION SUMMARY:

Matrix = SOIL, WATER (FB)

Level = LOW

Final volume after concentration (ml) = 20

Blank extraction amount (g or ml) = 500 ML , 30 G

Dual Column Analysis - 1ul analyzed on each column

STANDARD SUMMARY

STD	CONC (ppm)
INDA	
a-bhc	0.05
heptachlor	0.05
g-bhc	0.05
endosulfan1	0.05
dieldrin	0.10
endrin	0.10
4,4-ddd	0.10
4,4-ddt	0.10
methoxychlor	0.50
dbc	0.10
INDB	
beta-bhc	0.05
delta-bhc	0.05
aldrin	0.05
heptachlor epoxide	0.05
a-chlordane	0.05
g-chlordane	0.05
4,4-dde	0.10
endosulfan sulfate	0.10
endrin aldehyde	0.10
endrin ketone	0.10
endosulfan II	0.10
dbc	0.10

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GCCC13

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PESTICIDE/PCB DATA INFORMATION SHEET

SDG: A1(0-12) **Client: ERM** **Case No.: E16000**

STD	CONC (ppm)		PEAKS USED FOR QUANT/CONF (RT) DB608	DB1701
AR1016------	0.20	---------	10.59	12.64
			10.77	12.91
			11.19	13.36
			11.64	13.69
			12.03	14.01
AR1260------	0.20	_____	17.17	18.07
			18.24	18.50
			18.37	19.16
			18.54	19.63
			18.71	19.69
AR1221------	0.20	---------	7.94	9.39
			8.60	9.93
				10.12
AR1232------	0.50	---------	8.59	10.12
			8.74	11.45
			11.07	12.91
			11.19	16.03
			14.07	16.10
AR1242------	0.20	---------	11.18	12.90
			11.63	13.35
			12.02	13.68
			12.22	14.00
			12.36	14.83
AR1248------	0.50	---------	13.89	14.82
			14.06	15.12
			14.22	15.71
			14.39	16.01
			14.53	16.09
AR1254------	0.20	---------	16.02	18.72
			16.68	19.13
			17.14	19.66
			17.85	19.76
			18.34	20.19

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000014

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SDG: A1(0-12) **Client: ERM - NE** **Case No.: E16000**

SPIKE SUMMARY:

Average DBC area used for calculations = 68298(DB608); 104034(DB1701)
approximate DBC RT
DB608 column - 20.17
DB1701 column - 23.15

SAMPLE CALCULATIONS:

Surrogate recovery:

Sample Name - PBLK717 (DB608)

$$\frac{61231}{68298} \times 100 = 90\%$$

Detected Compound :

Sample Name - A1(0-12) Compound - AR1260

$$\frac{\text{sample area x fv x conc std (ppm) x DF}}{\text{standard area x kg ext x decimal dry}} = [\ ]$$

$$\frac{45339 \times 20 \times 0.20 \times 4000}{60061 \times 0.03 \times 0.90} = \text{ppb}$$

447338 ug/kg = 450000

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C00015

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PCB DATA INFORMATION SHEET

SDG: A1(0-12) **Client: ERM - NE** **Case No.: E16000**

EXTRACTION SUMMARY:

Matrix = SOIL

Level = LOW

Final volume after concentration (ml) = 50

Blank extraction amount (g or ml) = 10 G

Dual Column Analysis - 2ul analyzed on each column

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PCB DATA INFORMATION SHEET

SDG: A1(0-12) Client: ERM Case No.: E16000

STD	CONC (ppm)	PEAKS USED FOR QUANT/CONF (RT)		
			DB5	DB1701
AR1016------	0.86	---------	2.8	4.29
			3.13	4.86
			3.67	5.41
			3.89	5.77
			4.05	6.03
AR1260------	0.86	_____	8.98	12.10
			9.30	12.36
			9.72	13.20
			10.20	14.00
			11.64	14.98
AR1221------	1.0	---------	1.37	2.93
			2.10	3.37
AR1232------	1.0	---------	3.66	5.40
			3.87	5.77
			4.03	6.02
			4.94	6.38
			5.20	7.03
				7.30
AR1242------	1.0	---------	3.66	5.40
			3.87	5.76
			4.03	6.02
			4.95	6.39
			5.20	4.85
AR1248------	1.0	---------	4.55	7.04
			4.94	7.30
			5.20	7.82
			5.95	8.15
			6.42	8.77
AR1254------	1.0	---------	6.00	8.17
			6.63	8.74
			8.3	9.99
			9.00	11.62
			9.73	12.10

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000017

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PCB DATA INFORMATION SHEET

SDG: A1(0-12) **Client: ERM - NE** **Case No.: E16000**

SPIKE SUMMARY:

Average DCB area used for calculations = 260420(DB1701); 380074(DB5)
approximate DCB RT
DB5 column - 16.04
DB1701 column - 17.96

SAMPLE CALCULATIONS:

Surrogate recovery:

Sample Name - B18(2-4) (DB1701)

$$\frac{173477/(0.1)}{260420/(0.2)} \times 100 = 133\%$$

0.1 UG ADDED IN SAMPLE; 0.2 UG ADDED IN STD

Detected Compound :

Sample Name - C1(0-2) Compound - AR1260

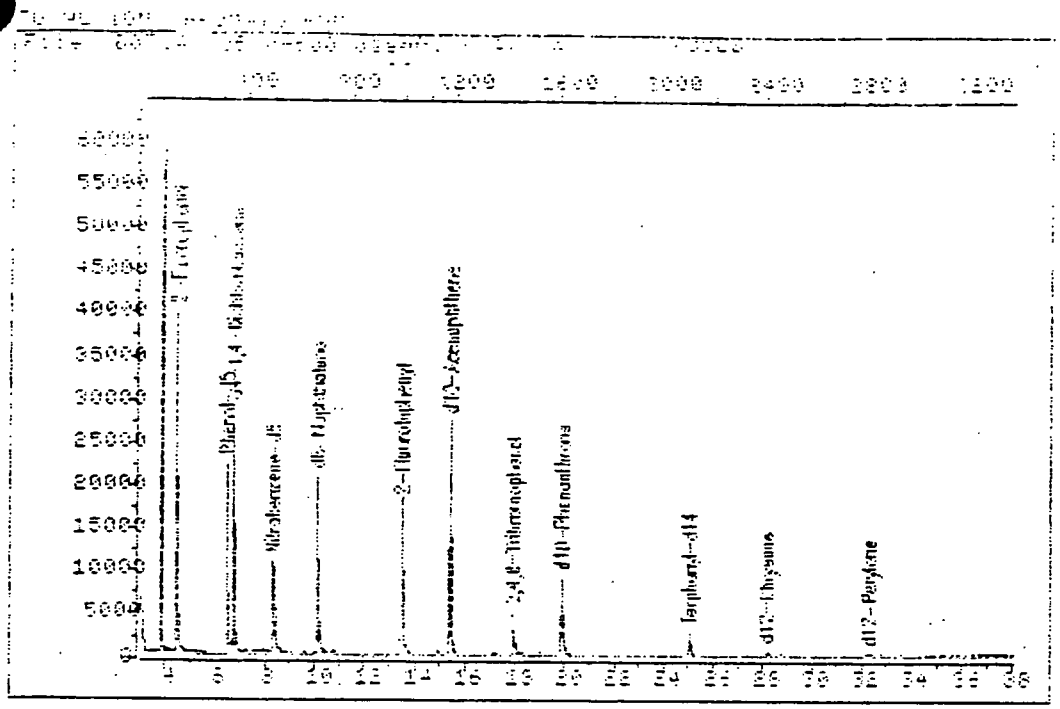
$$\frac{\text{sample area x fv x conc std (ppm) x DF}}{\text{standard area x kg ext x decimal dry}} = [\ ]$$

$$\frac{49620 \times 50 \times 0.86 \times 1.00}{524890 \times 0.01 \times 0.82} = \text{ppb}$$

500 ug/kg

SDLK

000018



Data File: >SD71A::B1 Quant Output File: ^SD71A::QT
Name: BLANK 7/17/92 Screen.
Misc: 7002B BTL# 1

Id File: 1DSNA2::QT
Title: HP BNA Continuing Calibration Standard Rev. E
Last Calibration: 920908 13:54

Operator ID: BILL
Quant Time: 920910 11:40
Injected at: 920720 17:19

The Following Image(s) are the Best Copy Available

BIEL'S

QUANT Report

Operator ID: BILL
Data File: B8V1A::H1
Name: BLANK 7/17/91
Misc: 7000B

Quant Report: 1
Quant Time: 9207/0 11:40
Injected at: 9207/0 17:14
Dilution Factor: 1.00000

BNA 1

ID File: IDBN40::DT
Title: HP BN+ Continuing Calibration Standard Rev. E
Last Calibration: 9207/0 15:54

	Compound	R.T.	Q Ion	Area	Conc	Units	Q
1)	*d4-1,4-Dichlorobenzene	6.71	150.0	16493	40.00	UG	98
3)	2-Fluorophenol	4.41	112.0	18933	100.86	UG	94
4)	Phenol-d6	6.42	99.0	23312	91.19	UG	90
19)	*d8-Naphthalene	10.07	136.0	29123	40.00	UG	91
20)	Nitrobenzene-d5	8.26	82.0	13898M	42.69	UG	88
34)	*d10-Acenaphthene	15.36	162.0	15639	40.00	UG	91
39)	2-Fluorobiphenyl	13.44	172.0	18860	39.39	UG	97
54)	*d10-Phenanthrene	14.85	188.0	14311	40.00	UG	93
58)	2,4,6-Tribromophenol	10.88	329.0	2493	74.23	UG	93
67)	*d12-Chrysene	28.17	240.0	3999M	40.00	UG	
69)	Terphenyl-d14	25.01	244.0	5173	45.47	UG	97
76)	*d12-Perylene	32.27	264.0	2366M	40.00	UG	

Compound is ISTD

Data file header from : B0718

Temp at BLANK 7/17/92 Operator: B [illegible] INT 7/20/92 Trip
Misc : 7002B BTL# 1
Sys. #: 1 Inj mode: TH Inj vol.: [illegible] ALS # : 3
Method file: MB-HOC Tuning file: MTP01 No. of extra rechrgs: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	40.	300.	0.	0.	0.
Chromatographic times, min. :	1.0	37.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.0	0.0

B0718 BLANK 7/17/92 7002B
35.0| 500.0 CLP ADC TIC
Dpslope: .20 Area Reject: 1061. Max Peaks: 8 Bunching: 1
Dnslope: 0.00 Results File IB0718 Sorted by Time/Area INT

Peak #	P.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	3.77	61	65	79	61041	139315	136411	100.00	90.607
2	4.57	141	142	154	710	5670	3980	2.92	2.644
3	8.97	562	564	570	565	2139	1185	.87	.787
4	9.54	612	619	623	467	1917	1286	.94	.854
5	13.69	1013	1014	1020	574	2403	1703	1.25	1.131
6	14.87	1128	1171	1140	434	2377	1508	1.11	1.002
7	17.17	1350	1352	1357	594	1756	1210	.89	.804
8	18.00	1431	1432	1440	925	4186	3270	2.40	2.172

← Surrogate

Sum of corrected areas: 150593.

Summary of Unknowns PBM Library Search and Quantitation

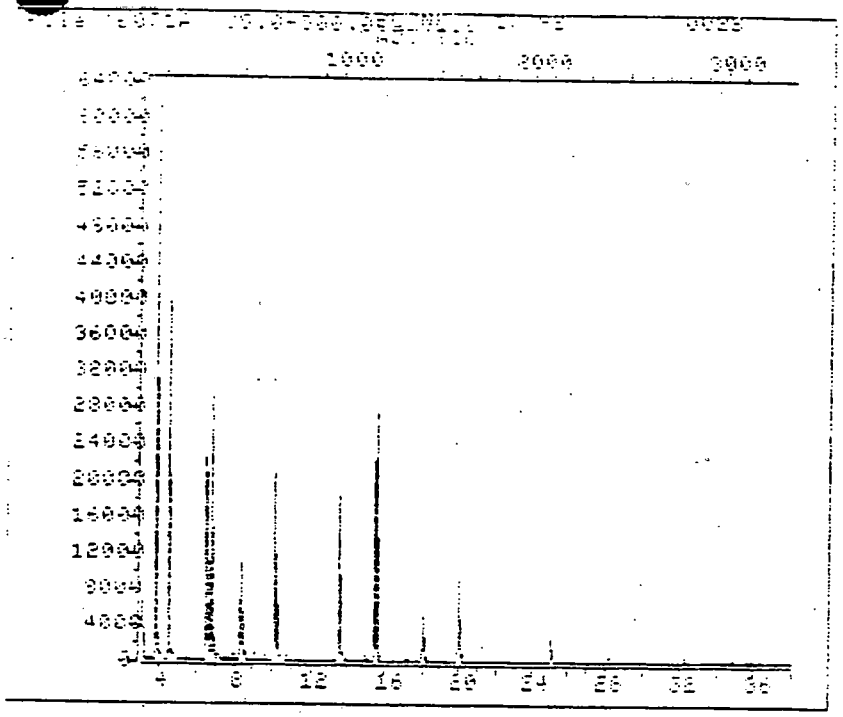
Standard	Concentration	Area	Retention Time	Unknown Window
1	40.0	73712.	6.71	3.03 - 8.39
2	40.0	71879.	10.07	8.39 - 12.71
3	40.0	74086.	15.36	12.71 - 17.60
4	40.0	39225.	19.85	17.60 - 23.99
5	40.0	10613.	28.13	23.99 - 30.20
6	40.0	10613.	32.27	30.20 - 38.04

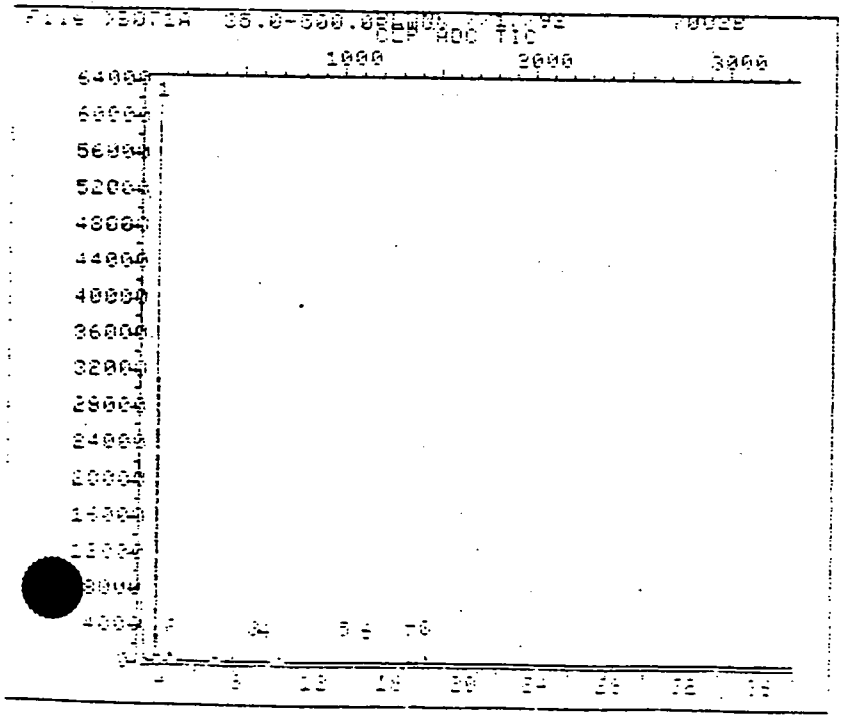
Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 1000.00 Amount Used (AU) = 1000.00

Correction Factor = 1.00 = (AM / AU) / (DF * FS)

$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unk} * \text{Correction Factor}$$

12:02 PM THU., 10 SEPT., 1992


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2A

WATER VOLATILE SURROGATE RECOVERY

Lab Name: AES, inc. Contract: 000087

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
1	VBLK194	90	88	82		0
2	FB-3	92	91	88		0
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	QC LIMITS
S1 (TOL) = Toluene d-8	(88-110)
S2 (BFB) = Bromofluorobenzene	(86-115)
S3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2B

SOIL VOLATILE SURROGATE RECOVERY

Lab Name: AES, INC

Contract: 000088

Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
1	VBLK189	85	85	83		0
2	MSB 7/20	90	88	85		0
3	DUP-3	117	79	85		0
4	A-1	122 *	85	93		1
5	A11(0-2)	104	86	90		0
6	B18(0-2)	132 *	78	105		1
7	C2(0-2)	98	81	84		0
8	A11(0-2) MS	111	94	102		0
9	A11(0-2) MSD	115	92	103		0
10	VBLK190	94	92	91		0
11	DUP-3 RE	133 *	90	99		1
12	A-1 RE	120 *	92	100		1
13	B18(0-2)RE	142 *	58 *	100		2
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	QC LIMITS
S1 (TOL) = Toluene d-8	(81-117)
S2 (BFB) = Bromofluorobenzene	(74-121)
S3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II VOA-2 1/87 Rev.

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

000089

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: SAS No.: SDG No.: A1(0-1

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
1	FB-3	100	93	123	74	72	99		0
2	SBLK	64	96	97	42	47	91		0
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		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl-d14	(33-141)
S4 (PHL)	= Phenol-d5	(10- 94)
S5 (2FP)	= 2-Fluorophenol	(21-100)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: AES, INC. 000090 Contract:

Code: AES Case No.: SAS No.: SDG No.: A1(0-12)

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
1	SBLK 2	92	78	91	87	84	62		0
2	MSB 7/17	76	94	115	79	77	104		0
3	A11(0-12)	54	71	101	89	77	97		0
4	A11(0-12)MS	79	84	117	88	94	121		0
5	A11(0-12)MSD	73	83	100	73	76	99		0
6	B18(0-2)	78	88	120	97	90	100		0
7	C2(0-2)	58	74	102	86	82	95		0
8	DUP-3	53	104	162 *	71	71	103		1
9	A1(0-12)	62	111	65	64	55	105		0
10	DUP-3 RE	55	100	108	81	73	109		0
11	A1(0-12)RE	56	112	0 *	72	63	97		1
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	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(23-120)
S2 (FBP) = 2-Fluorobiphenyl	(30-115)
S3 (TPH) = Terphenyl-d14	(18-137)
S4 (PHL) = Phenol-d5	(24-113)
S5 (2FP) = 2-Fluorophenol	(25-121)
S6 (TBP) = 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

000112

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Lab File ID (Standard): BS160 Date Analyzed: 8/11/92

Instrument ID: 7002B Time Analyzed: 17:00

		IS1(DCB) AREA	#	RT	IS2(NPT) AREA	#	RT	IS3(ANT) AREA	#	RT
	12 HOUR STD	24085.		6.70	45210.		10.06	28192.		15.33
	UPPER LIMIT	48170.		7.20	90420.		10.56	56384.		15.83
	LOWER LIMIT	12043.		6.20	22605.		9.56	14096.		14.83
	EPA SAMPLE NO.									
1	SBLK 2	19852.		6.67	31826.		10.03	18956.		15.31
2	MSB 7/17	23747.		6.69	44581.		10.04	27357.		15.32
3	FB-3	25664.		6.67	49624.		10.03	31454.		15.32
4	A11(0-12)	27196.		6.67	58211.		10.03	33497.		15.32
5	A11(0-12)MS	31220.		6.69	57788.		10.05	36155.		15.33
6	A11(0-12)MSD	28340.		6.68	53252.		10.05	33548.		15.33
7	B18(0-2)	25809.		6.67	54143.		10.04	34668.		15.32
8	C2(0-2)	25419.		6.68	54124.		10.03	33383.		15.32
9	DUP-3	14292.		6.66	23575.		10.03	8087.	*	15.31
10	A1(0-12)	14609.		6.66	23715.		10.02	8032.	*	15.30
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IS1 (DCB) = d4-1,4-Dichlorobenzene
IS2 (NPT) = d8-Naphthalene
IS3 (ANT) = d10-Acenaphthene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AES, INC. Contract: 000123

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Lab File ID (Standard): BS160 Date Analyzed: 8/11/92

Instrument ID: 7002B Time Analyzed: 17:00

		IS4(PHN) AREA	#	RT	IS5(CRY) AREA	#	RT	IS6(PRY) AREA	#	RT
	12 HOUR STD	43074.		19.82	15585.		28.03	9790.		32.17
	UPPER LIMIT	86148.		20.32	31170.		28.53	19580.		32.67
	LOWER LIMIT	21537.		19.32	7793.		27.53	4895.		31.67
	EPA SAMPLE NO.									
1	SBLK 2	28727.		19.79	8899.		28.06	6251.		32.21
2	MSB 7/17	36066.		19.81	11958.		28.05	7059.		32.19
3	FB-3	41986.		19.80	16957.		28.04	8805.		32.17
4	A11(0-12)	44475.		19.81	16210.		28.02	9282.		32.15
5	A11(0-12)MS	50466.		19.82	15783.		28.03	9039.		32.15
6	A11(0-12)MSD	48665.		19.81	17822.		28.03	12788.		32.15
7	B18(0-2)	49661.		19.80	16995.		28.03	10385.		32.15
8	C2(0-2)	44745.		19.81	16616.		28.03	11498.		32.16
9	DUP-3	4068.	*	19.82	187.	*	28.06	0.	*	.00
10	A1(0-12)	3635.	*	19.82	883.	*	28.06	934.	*	32.19
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IS4 (PHN) = d10-Phenanthrene
IS5 (CRY) = d12-Chrysene
IS6 (PRY) = d12-Perylene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AES, INC. Contract: 000114

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Lab File ID (Standard): BS166 Date Analyzed: 8/18/92

Instrument ID: 7002B Time Analyzed: 15:14

	IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
12 HOUR STD	27420.	7.04	52205.	9.94	32635.	15.20
UPPER LIMIT	54840.	7.54	104410.	10.44	65270.	15.70
LOWER LIMIT	13710.	6.54	26103.	9.44	16318.	14.70
EPA SAMPLE NO.						
1 DUP-3 RE	14342.	6.57	27150.	9.92	9811.*	15.18
2 A1(0-12)RE	13854.	6.56	27948.	9.91	9373.*	15.18
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IS1 (DCB) = d4-1,4-Dichlorobenzene
IS2 (NPT) = d8-Naphthalene
IS3 (ANT) = d10-Acenaphthene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AES, INC. Contract: 000145

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Lab File ID (Standard): BS166 Date Analyzed: 8/18/92

Instrument ID: 7002B Time Analyzed: 15:14

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	45788.	19.67	12783.	27.88	9933.	31.98
	UPPER LIMIT	91576.	20.17	25566.	28.38	19866.	32.48
	LOWER LIMIT	22894.	19.17	6392.	27.38	4967.	31.48
	EPA SAMPLE NO.						
1	DUP-3 RE	4029.*	19.69	363.*	27.92	0.*	.00
2	A1(0-12)RE	3950.*	19.68	0.*	.00	0.*	.00
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IS4 (PHN) = d10-Phenanthrene
IS5 (CRY) = d12-Chrysene
IS6 (PRY) = d12-Perylene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

2E

WATER PESTICIDE SURROGATE RECOVERY

000031

Lab Name: AES, INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLK720	86	
2	FB3	96	
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ADVISORY QC LIMITS (24-154)

S1 (DBC) = Dibutyl Chlorendate

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II PEST-1 1/87 Rev.

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKE3	109	
2	PBLKMSBE3	120	
3	B18(2-4)	133	
4	C1(0-2)	130	
5	C1(2-4)	164 *	
6	C2(2-4)	153 *	
7	C3(0-2)	137	
8	C3(2-4)	138	
9	C2(2-4)MS	131	
10	C2(2-4)MSD	119	
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ADVISORY QC LIMITS (50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: AES, INC Contract: 000093

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLK717	90	
2	PBLKMSB	71	
3	B1B(0-2)	7 *	
4	C2(0-2)	77	
5	A11(0-12)	87	
6	A11(0-12)MS	64	
7	A11(0-12)MSD	96	
8	DUP 3	D	
9	A1(0-12)	D	
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ADVISORY QC LIMITS (20-150)

S1 (DBC) = Dibutyl Chlorendate

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: AES, INC. Contract: CCCC94

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Level: (low/med) LOW

conf.

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKE3	125	
2	C1(0-2)	132	
3	C1(2-4)	156 *	
4	C2(2-4)	155 *	
5	C3(0-2)	167 *	
6	C3(2-4)	159 *	
7	C2(2-4)MS	189 *	
8	C2(2-4)MSD	178 *	
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ADVISORY QC LIMITS (50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

SOIL PESTICIDE SURROGATE RECOVERY

000005

Lab Name: AES, INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Level: (low/med) LOW

Conf

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLK717	97	
2	DUP3	D	
3	A1(0-12)	D	
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ADVISORY QC LIMITS (20-150)

S1 (DBC) = Dibutyl Chlorendate

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES, inc. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix Spike - EPA Sample No.: A11(0-2) Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	61.	0.	57.	93	59-172
Trichloroethene	61.	0.	48.	79	62-137
Benzene	61.	0.	63.	103	66-142
Toluene	61.	0.	61.	100	59-139
Chlorobenzene	61.	0.	52.	85	60-133

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	64.	65.	101	9	22	59-172
Trichloroethene	64.	53.	83	5	24	62-137
Benzene	64.	72.	113	9	21	66-142
Toluene	64.	70.	110	10	21	59-139
Chlorobenzene	64.	59.	92	9	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES.INC. Contract: 68C037

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix Spike - EPA Sample No.: A11(0-12) Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Phenol	8333.	0.	5646.	68	26- 90
2-Chlorophenol	8333.	0.	4910.	59	25-102
1,4-Dichlorobenzene	4167.	0.	2130.	51	28-104
N-Nitroso-Di-n-prop.(1)	4167.	0.	2876.	69	41-126
1,2,4-Trichlorobenzene	4167.	0.	2442.	59	38-107
4-Chloro-3-methylphenol	8333.	0.	5111.	61	26-103
Acenaphthene	4167.	0.	3172.	76	31-137
4-Nitrophenol	8333.	0.	5260.	63	11-114
2,4-Dinitrotoluene	4167.	0.	2960.	71	28- 89
Pentachlorophenol	8333.	0.	6726.	81	17-109
Pyrene	4167.	122.	5032.	118	35-142

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	8333.	4156.	50	30	35	26- 90
2-Chlorophenol	8333.	4225.	51	15	50	25-102
1,4-Dichlorobenzene	4167.	2254.	54	6	27	28-104
N-Nitroso-Di-n-prop.(1)	4167.	2967.	71	3	38	41-126
1,2,4-Trichlorobenzene	4167.	2563.	62	5	23	38-107
4-Chloro-3-methylphenol	8333.	5026.	60	2	33	26-103
Acenaphthene	4167.	3337.	80	5	19	31-137
4-Nitrophenol	8333.	3640.	44	36	50	11-114
2,4-Dinitrotoluene	4167.	3023.	73	2	47	28- 89
Pentachlorophenol	8333.	5320.	64	23	47	17-109
Pyrene	4167.	4479.	105	12	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS:

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES, INC Contract: CCCC38

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix Spike - EPA Sample No.: A11(0-12) Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Gamma-BHC	33.33	.00	21.18	64	46-127
Heptachlor	33.33	.00	20.71	62	35-130
Aldrin	33.33	.00	20.64	62	34-132
Dieldrin	83.33	.00	50.61	61	31-134
Endrin	83.33	.00	53.74	64	42-139
4,4'-DDT	83.33	.00	88.01	106	23-134

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gamma-BHC	33.33	31.84	96	40	50	46-127
Heptachlor	33.33	32.56	98	44 *	31	35-130
Aldrin	33.33	33.06	99	46 *	43	34-132
Dieldrin	83.33	75.79	91	40 *	38	31-134
Endrin	83.33	83.97	101	44	45	42-139
4,4'-DDT	83.33	138.64	166*	45	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 3 out of 6 outside limits
Spike Recovery: 1 out of 12 outside limit

COMMENTS:

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES, INC. Contract: 000099

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix Spike - EPA Sample No.: C2(2-4) Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Arochlor-1016	3344.51	.00	2138.36	64	60-160
Arochlor-1260	3009.15	415.21	2438.56	67	60-160

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arochlor-1016	3344.51	2437.13	73	13	50	60-160
Arochlor-1260	3009.15	2010.86	53 *	24	50	60-160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 1 out of 4 outside limits

COMMENTS:

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES, INC. Contract: 000200

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix Spike - EPA Sample No.: C2(2-4) Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Arochlor-1016	3344.51	.00	2375.06	71	60-160
Arochlor-1260	3009.15	486.98	2090.58	53 *	60-160

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arochlor-1016	3344.51	2464.62	74	4	50	60-160
Arochlor-1260	3009.15	2216.27	57 *	8	50	60-160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 2 out of 4 outside limits

COMMENTS:

SOIL PESTICIDE MATRIX SPIKE BLANK RECOVERY

000201

Lab Name: AES,INC Contract:
Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(8-12)
EPA Sample No.: PBLK MSB Matrix: SOIL

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MSB CONCENTRATION (ug/Kg)	% REC.	QC LIMITS REC.
LINDANE	26.67	0	20	75	75-125
HEPTACHLOR	26.67	0	20	75	75-125
ALDRIN	26.67	0	21	79	75-125
DIELDRIN	66.67	0	51	76	75-125
ENDRIN	66.67	0	51	76	75-125
4,4'-DDT	66.67	0	65	97	75-125

SOIL PCB MATRIX SPIKE BLANK RECOVERY

Lab Name: AES,INC Contract:
Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)
EPA Sample No.: PBLK MSBE Matrix: SOIL

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MSB CONCENTRATION (ug/Kg)	% REC.	QC LIMITS REC.
AROCLOR-1016	2194	0	2000	91	75-125
AROCLOR-1260	1974	0	1800	91	75-125

WATER VOLATILE MATRIX SPIKE BLANK RECOVERY

000103

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.	0.	50.	100	75-125
Trichloroethene	50.	0.	41.	82	75-125
Benzene	50.	0.	50.	100	75-125
Toluene	50.	0.	47.	94	75-125
Chlorobenzene	50.	0.	43.	86	75-125

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

SEMIVOLATILE MATRIX SPIKE BLANK RECOVERY

Lab Name: AES, INC Contract: 920104

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Phenol	6667.	0.	4200.	63#	75-125
2-Chlorophenol	6667.	0.	3700.	55#	75-125
1,4-Dichlorobenzene	3333.	0.	2000.	60#	75-125
N-Nitroso-Di-n-prop.(1)	3333.	0.	2700.	81	75-125
1,2,4-Trichlorobenzene	3333.	0.	2200.	66#	75-125
4-Chloro-3-methylphenol	6667.	0.	4400.	66#	75-125
Acenaphthene	3333.	0.	3000.	90	75-125
4-Nitrophenol	6667.	0.	4500.	67#	75-125
2,4-Dinitrotoluene	3333.	0.	2700.	81	75-125
Pentachlorophenol	6667.	0.	7000	105	75-125
Pyrene	3333.	0.	4600.	139#	75-125

(1) N-Nitroso-di-n-propylamine

Values outside of QC limits

Spike Recovery: 7 out of 11 outside limits

COMMENTS: See case narrative.

U.S. EPA - CLP

6 01 0405
DUPLICATES

EPA SAMPLE NO.

A-11,0-12 D

Lab Name: AES Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix (soil/water): SOIL Level (low/med):

% Solids for Sample: 80.0 % Solids for Duplicate: 80.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		5287.5000		5467.5000		3.3		P
Antimony	15.0	10.4900	B	6.5700	U			P
Arsenic	2.5	2.7100		3.5000		25.4		F
Barium	50.0	80.1500		72.4500		10.1		P
Beryllium	1.2	0.6900	B	0.5100	B	30.0		P
Cadmium	1.2	0.8200	B	0.6000	U			P
Calcium		100700.0000		65150.0000		42.9	*	P
Chromium	2.5	11.2800		9.2600		19.7		P
Cobalt	12.5	6.9700	B	5.4200	B	25.0		P
Copper	6.2	18.7400		15.1200		21.4		P
Iron		13422.5000		14342.5000		6.6		P
Lead		83.8200		62.5000		29.1	*	P
Magnesium		11992.5000		9932.5000		18.8		P
Manganese		554.0000		589.0000		6.1		P
Mercury	0.1	0.1200	U	0.1200	U			CV
Nickel	10.0	18.3200		14.9700		20.1		P
Potassium	1250.0	706.0000	B	563.7500	B	22.4		P
Selenium	1.2	1.2500	U	1.2500	U			F
Silver	2.5	1.0100	U	1.0100	U			P
Sodium	1250.0	247.1200	B	192.1500	B	25.0		P
Thallium	2.5	2.5000	U	2.5000	U			F
Vanadium	12.5	15.8100		16.7400		5.7		P
Zinc		161.2800		149.0200		7.9		P
Cyanide								NR

Prepared by DAO 4-30-92

U.S. EPA - CLP

6
Field DUPLICATES

EPA SAMPLE NO.
A-1(0-12)
DUP-3

Lab Name: AES Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1(0-12)

Matrix (soil/water): Soil Level (low/med): Low

% Solids for Sample: 90.0 % Solids for Duplicate: 88.0

Concentration Units (ug/L or mg/kg dry weight): mg/kg

Analyte	Control Limit	A-1(0-12) Sample (S)	C	DUP-3 Duplicate (D)	C	RPD	Q	M
Aluminum		5950		6672		11.4		
Antimony	13.3	7.1	B	13.4		61.6		
Arsenic	2.2	4.4		7.2		48.3	*	
Barium	44.4	114		105		8.2		
Beryllium	1.1	0.75	B	0.86	B	13.7		
Cadmium	1.1	2.5		2.2		12.8		
Calcium		32300		45100		33.4	*	
Chromium		21.5		21.6		1.4		
Cobalt	11.1	8.9	B	10.6		17.4		
Copper		109		76.5		35.0	*	
Iron		20200		19500		3.8		
Lead		151		140		7.6		
Magnesium		10100		13500		28.8	*	
Manganese		421		372		12.3		
Mercury	0.11	0.45		0.11	U		*	
Nickel	8.9	18.6		19.9		6.8		
Potassium	1111	1130		1430		22.7		
Selenium		1.1	U	1.1	U			
Silver		0.90	U	0.92	U			
Sodium	1111	217	B	243	B	11.3		
Thallium		2.2	U	2.3	U			
Vanadium	11.1	23.1		22.3		1.3		
Zinc		672		425		45.5	*	
Cyanide								

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
A-11,0-12 S

Lab Name: AES_____ Contract:_____

Lab Code: AES_____ Case No.: E16000___ SAS No.: _____ SDG No.: A-1_____

Matrix (soil/water): SOIL_ Level (low/med): _____

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		6910.0000		5287.5000					NR
Antimony	75-125	42.1200		10.4900	B	125.00	25.3	N	P
Arsenic	75-125	15.8200		2.7100		10.00	131.1	N	F
Barium	75-125	657.2500		80.1500		500.00	115.4		P
Beryllium	75-125	15.4300		0.6900	B	12.50	117.9		P
Cadmium	75-125	15.0900		0.8200	B	12.50	114.2		P
Calcium		78975.0000		100700.0000					NR
Chromium	75-125	69.7200		11.2800		50.00	116.9		P
Cobalt	75-125	152.1200		6.9700	B	125.00	116.1		P
Copper	75-125	79.4500		18.7400		62.50	97.1		P
Iron		15017.5000		13422.5000					NR
Lead	75-125	220.8000		83.8200		125.00	109.6		P
Magnesium		14935.0000		11992.5000					NR
Manganese		871.0000		554.0000		125.00	253.6		P
Mercury	75-125	0.6200		0.1200	U	0.62	100.0		CV
Nickel	75-125	160.2800		18.3200		125.00	113.6		P
Potassium		729.0000	B	706.0000	B				NR
Selenium	75-125	3.4800		1.2500	U	2.50	139.2	N	F
Silver	75-125	6.7700		1.0100	U	12.50	54.2	N	P
Sodium		216.8200	B	247.1200	B				NR
Thallium	75-125	10.0000		2.5000	U	12.50	80.0		F
Vanadium	75-125	159.6200		15.8100		125.00	115.0		P
Zinc	75-125	307.2500		161.2800		125.00	116.8		P
Cyanide									NR

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

A-11,0-12 A

Lab Name: AES_____Contract:_____

Lab Code: AES_____ Case No.: E16000____ SAS No.: _____ SDG No.: A-1_____

Matrix (soil/water): SOIL_ Level (low/med): _____

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic		893.40		42.00	B	500.0	170.3		P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

ADIRONDACK ENVIRONMENTAL SERVICES

000108

5

DUPLICATES

SAMPLE ID

A 110-12

Lab Name: AES INC Contract:_____

Lab Code: AES Case No: E16000 SAS No:_____ SDG No: A-1 (0-12)

Concentration Units (UG/L or MG/KG dry weight): MG/KG

Matrix (SOIL/WATER): SOIL

% Solids for Sample: 80 % Solids for Duplicate: 80

ANALYTES	CONTROL LIMIT	SAMPLE	C	DUPLICATE	C	RPD	Q	M
CYANIDE	20	6.2	U	6.2	U	<1		C
SULFIDE								
TPH								
TPH - GC								
FLASHPNT								
CORROSIV								
TDS								
TSS								
HEX CHROM								
CHLORIDE								
TURBIDITY								
PHENOL								

[illegible] ENVIRONMENTAL SERVICES

000109

SPIKE SAMPLE RECOVERY

SAMPLE ID

A 1(0-12)

Lab Name: AES INC Contract:

Lab Code: AES Case No: E16000 SAS No: SDG No: A-1 (0-12)

Concentration Units (UG/L or MG/KG dry weight): UG/L % SOLIDS 80

Matrix (SOIL/WATER): SOIL Level (LOW/MED):

ANALYTES	CONTROL LIMIT %R	SPIKED SAMPLE RECOVERY (SSR)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	%R	Q	M
CYANIDE	75-125	85		10	U	100	85		C
SULFIDE									
TPH									
TPH - GC									
FLASHPNT									
CORROSIV									
TDS									
TSS									
HEX CHROM									
CHLORIDE									
TURBIDITY									
PHENOL									

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: AES, inc. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Lab File ID: DB189 Lab Sample ID: VBLK189

Date Analyzed: 7/20/92 Time Analyzed: 16:26

Matrix: (soil/water) SOIL Level: (low/med) LOW

Instrument ID: 7002D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	MSB 7/20	MSB 7/20/92	D2034	17:24
2	DUP-3	DUP-3	D2035	18:07
3	A-1	A-1	D2036	18:49
4	A11(0-2)	A11(0-2)	D2037	19:31
5	B18(0-2)	B18(0-2)	D2038	20:13
6	C2(0-2)	C2(0-2)	D2039	20:55
7	A11(0-2)MS	A11(0-2)MS	D2040	21:37
8	A11(0-2)MSD	A11(0-2)MSD	D2041	22:20
9				
10				
11				
12				
13				
14				
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16				
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COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK189

Lab Name: AES, INC. Contract: 000111

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: VBLK189

Sample wt/vol: 5.000 (g/mL) G Lab File ID: DB189

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 7/20/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	7.	
67-64-1	Acetone	17.	
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
591-78-6	2-Hexanone	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylenes (total)	5.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK189

Lab Name: AES, INC Contract: 000112

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: VBLK189

Sample wt/vol: 5.000 (g/mL) G Lab File ID: DB189

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 7/20/92

Column: (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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.					
30.					

4A

VOLATILE METHOD BLANK SUMMARY

000113

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Lab File ID: DB190 Lab Sample ID: VBLK190

Date Analyzed: 7/21/92 Time Analyzed: 11:26

Matrix: (soil/water) SOIL Level: (low/med) LOW

Instrument ID: 7002D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	DUP-3 RE	DUP-3 RE	D2050	12:22
2	A-1 RE	A-1 RE	D2051	13:04
3	B18(0-2)RE	B18(0-2) RE	D2052	13:46
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
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19				
20				
21				
22				
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COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK190

Lab Name: AES, inc. Contract: 000114

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: VBLK190

Sample wt/vol: 5.000 (g/mL) G Lab File ID: DB190

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 7/21/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	
67-64-1	Acetone	12.	
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
591-78-6	2-Hexanone	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylenes (total)	5.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: VBLK190

Lab Name: AES, INC. Contract: 000115

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) SOIL Lab Sample ID: VBLK190

Sample wt/vol: 5.000 (g/mL) G Lab File ID: DB190

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 7/21/92

Column: (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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4H

VOLATILE METHOD BLANK SUMMARY

Lab Name: AES, inc. Contract: 000116

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Lab File ID: DB194 Lab Sample ID: VBLK194

Date Analyzed: 7/24/92 Time Analyzed: 13:30

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: 7002D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	FB-3	FB-3	D2083	14:12
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COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK194

Lab Name: AES, inc Contract: CCC127

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Matrix: (soil/water) WATER Lab Sample ID: VBLK194

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: DB194

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 100. Date Analyzed: 7/24/92

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	J
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
591-78-6	2-Hexanone	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylenes (total)	5.	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: VBLK194

Lab Name: AES, inC · Contract:

Lab Code: AES Case No.: E16000 SAS No.: 000118 SDG No.: A-1

Matrix: (soil/water) WATER Lab Sample ID: VBLK194

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: DB194

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 100. Date Analyzed: 7/24/92

Column: (pack/cap) PACK Dilution Factor: 1.00

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Lab Name: AES, INC. Contract: 000119

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Lab File ID: A1159 Lab Sample ID: SBLK 1

Date Extracted: 7/20/92 Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 7/31/92 Time Analyzed: 0:41

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: 7001A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	FB-3	FB-3	B0744	8/11/92
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COMMENTS:

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000120

SBLK 1

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.:E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) WATER Lab Sample ID: SBLK 1

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: A1159

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 100. dec._____ Date Extracted: 7/20/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(-2-Chloroethyl)Ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl Alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	bis(2-Chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-Di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic Acid	50.	U
111-91-1	bis(-2-Chloroethoxy)Methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethyl Phthalate	10.	U
208-96-8	Acenaphthylene	10.	U
99-09-2	3-Nitroaniline	50.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK 1

Lab Name: AES, INC. Contract: 060121

Lab Code: AES Case No.:E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) WATER Lab Sample ID: SBLK 1

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: A1159

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 100. dec._____ Date Extracted: 7/20/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-Butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)Anthracene	10.	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10.	U
218-01-9	Chrysene	10.	U
117-84-0	Di-n-octyl phthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)Fluoranthene	10.	U
50-32-8	Benzo(a)Pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10.	U
53-70-3	Dibenzo(a,h)Anthracene	10.	U
191-24-2	Benzo(g,h,i)Perylene	10.	U

(1) - Cannot be separated from diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLK 1

Lab Name: AES, INC. Contract: 000122

Lab Code: AES Case No.:E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) WATER Lab Sample ID: SBLK 1

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: A1159

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 100. dec.____ Date Extracted: 7/20/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 11 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN OXYGENATED COMPOUND	4.11	10.	J
2.	- -	UNKNOWN CYCLIC ALKANE	20.50	10.	J
3.	- -	UNKNOWN	26.55	20.	J
4.	- -	UNKNOWN	28.04	7.	J
5.	- -	UNKNOWN	28.66	6.	J
6.	- -	UNKNOWN ALKANE	29.26	10.	J
7.	- -	UNKNOWN ALKANE	31.29	7.	J
8.	- -	UNKNOWN ALKANE	32.24	5.	J
9.	- -	UNKNOWN	33.06	10.	J
10.	- -	UNKNOWN ALKANE	33.17	8.	J
11.	- -	UNKNOWN	33.51	30.	J
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SEMIVOLATILE METHOD BLANK SUMMARY

000133

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.:E16000 SAS No.: SDG No.:A1(0-12)

Lab File ID: B0742 Lab Sample ID: SBLK 2

Date Extracted: 7/17/92 Extraction:(SepF/Cont/Sonc) SONC

Date Analyzed: 8/11/92 Time Analyzed: 17:48

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: 7002B

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	MSB 7/17	MSB 7/17	B0743	8/11/92
2	A11(0-12)	A11(0-12)	B0745	8/11/92
3	A11(0-12)MS	A11(0-12)MS	B0746	8/11/92
4	A11(0-12)MSD	A11(0-12)MSD	B0747	8/11/92
5	B18(0-2)	B18(0-2)	B0748	8/11/92
6	C2(0-2)	C2(0-2)	B0749	8/11/92
7	DUP-3	DUP-3	B0750	8/12/92
8	A1(0-12)	A1(0-12)	B0751	8/12/92
9	DUP-3 RE	DUP-3 RE	B0791	8/18/92
10	A1(0-12)RE	A1(0-12)RE	B0792	8/18/92
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COMMENTS:

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK 2

Lab Name: AES, INC. Contract: 000124

Lab Code: AES Case No.:E16000 SAS No.: SDG No.:A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: SBLK 2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0742

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/11/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330.	U
111-44-4	bis(-2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl Alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
108-60-1	bis(2-Chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic Acid	1700.	U
111-91-1	bis(-2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
99-09-2	3-Nitroaniline	1700.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK 2

Lab Name: AES, INC. Contract: 000125

Lab Code: AES Case No.:E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: SBLK 2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0742

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/11/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330.	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	330.	U
120-12-7	Anthracene	330.	U
84-74-2	Di-n-Butylphthalate	330.	U
206-44-0	Fluoranthene	330.	U
129-00-0	Pyrene	330.	U
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	670.	U
56-55-3	Benzo(a)Anthracene	330.	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	330.	U
218-01-9	Chrysene	330.	U
117-84-0	Di-n-octyl phthalate	330.	U
205-99-2	Benzo(b)fluoranthene	330.	U
207-08-9	Benzo(k)Fluoranthene	330.	U
50-32-8	Benzo(a)Pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330.	U
53-70-3	Dibenzo(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)Perylene	330.	U

(1) - Cannot be separated from diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: SBLK 2

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: SBLK 2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0742

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. _____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/11/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	ALDOL CONDENSATE	3.73	2000.	J A
2.	- -	UNKNOWN	24.72	900.	J
3.	- -	UNKNOWN	26.92	400.	J
4.	- -	UNKNOWN	27.00	200.	J
5.					
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PESTICIDE METHOD BLANK SUMMARY

000137

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Lab Sample ID: PBLKE3 Lab File ID:

Matrix: (soil/water) SOIL Level: (low/med) LOW

Date Extracted: 7/17/92 Extraction: (SepF/Cont/Sonc) SON

Date Analyzed (1): 7/30/92 Date Analyzed (2): 7/30/92

Time Analyzed (1): 18:12 Time Analyzed (2): 18:13

Instrument ID (1): VAR2A Instrument ID (2): VAR2A

GC Column ID (1): DB1701 GC Column ID (2): DB5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	PBLKMSBE3	PBLKMSBE3	7/31/92	
2	B18(2-4)	B18(2-4)	7/31/92	
3	C1(0-2)	C1(0-2)	7/31/92	7/31/92
4	C1(2-4)	C1(2-4)	7/31/92	7/31/92
5	C2(2-4)	C2(2-4)	7/31/92	7/31/92
6	C3(0-2)	C3(0-2)	7/31/92	7/31/92
7	C3(2-4)	C3(2-4)	7/31/92	7/31/92
8	C2(2-4)MS	C2(2-4)MS	7/31/92	7/31/92
9	C2(2-4)MSD	C2(2-4)MSD	7/31/92	7/31/92
10				
11				
12				
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24				
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26				

Comments:

PESTICIDE ORGANICS ANALYSIS DATA SHEET

PBLKE3

Lab Name: AES, INC. Contract: 000138

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: PBLKE3

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec.____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/30/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	500.	U
11104-28-2	Arochlor-1221	500.	U
11141-16-5	Arochlor-1232	500.	U
53469-21-9	Arochlor-1242	500.	U
12672-29-6	Arochlor-1248	500.	U
11097-69-1	Arochlor-1254	500.	U
11096-82-5	Arochlor-1260	500.	U

PESTICIDE METHOD BLANK SUMMARY

Lab Name: AES, INC Contract: CC109

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Lab Sample ID: PBLK720 Lab File ID:

Matrix: (soil/water) WATER Level: (low/med) LOW

Date Extracted: 7/20/92 Extraction: (SepF/Cont/Sonc) SON

Date Analyzed (1): 8/24/92 Date Analyzed (2): 8/24/92

Time Analyzed (1): 21:09 Time Analyzed (2):

Instrument ID (1): VAR1A Instrument ID (2):

GC Column ID (1): DB608 GC Column ID (2):

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	FB3	FB3	8/24/92	
2				
3				
4				
5				
6				
7				
8				
9				
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11				
12				
13				
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Comments:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK720

Lab Name: AES, INC Contract: CCC130

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) WATER Lab Sample ID: PBLK720

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received:

% Moisture: not dec. 100. dec._____ Date Extracted: 7/20/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/24/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	Alpha-BHC	.05	U
319-85-7	Beta-BHC	.05	U
319-86-8	Delta-BHC	.05	U
58-89-9	Gamma-BHC	.05	U
76-44-8	Heptachlor	.05	U
309-00-2	Aldrin	.05	U
1024-57-3	Heptachlor Epoxide	.05	U
959-98-8	Endosulfan I	.05	U
60-57-1	Dieldrin	.10	U
72-55-9	4,4'-DDE	.10	U
72-20-8	Endrin	.10	U
33213-65-9	Endosulfan II	.10	U
72-54-8	4,4'-DDD	.10	U
1031-07-8	Endosulfan Sulfate	.10	U
50-29-3	4,4'-DDT	.10	U
72-43-5	Methoxychlor	.05	U
53494-70-5	Endrin Ketone	.10	U
5103-71-9	Alpha Chlordane	.50	U
5103-74-2	Gamma Chlordane	.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	.50	U
11104-28-2	Aroclor-1221	.50	U
11141-16-5	Aroclor-1232	.50	U
53469-21-9	Aroclor-1242	.50	U
12672-29-6	Aroclor-1248	.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

PESTICIDE METHOD BLANK SUMMARY

Lab Name: AES, INC Contract: 000131

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Lab Sample ID: PBLK717 Lab File ID: PBLK717

Matrix: (soil/water) SOIL Level: (low/med) LOW

Date Extracted: 7/17/92 Extraction: (SepF/Cont/Sonc) SON

Date Analyzed (1): 8/24/92 Date Analyzed (2): 8/24/92

Time Analyzed (1): 21:54 Time Analyzed (2): 21:52

Instrument ID (1): VAR1A Instrument ID (2): VAR1A

GC Column ID (1): DB608 GC Column ID (2): DB1701

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	PBLKMSB	PBLKMSB	8/24/92	
2	B18(0-2)	B18(0-2)	8/25/92	
3	C2(0-2)	C2(0-2)	8/25/92	
4	A11(0-12)	A11(0-12)	8/25/92	
5	A11 (0-12) ms	A11 (0-12) ms	8/25/92	
6	A11 (0-12) msd	A11 (0-12) msd	8/25/92	
7	DUP 3	DUP 3	8/25/92	8/25/92
8	A1(0-12)	A1(0-12)	8/25/92	8/25/92
9				
10				
11				
12				
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14				
15				
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26				

Comments:

PESTICIDE ORGANICS ANALYSIS DATA SHEET

PBLK717

Lab Name: AES, INC Contract: 000132

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Matrix: (soil/water) SOIL Lab Sample ID: PBLK717

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received:

% Moisture: not dec. 0. dec._____ Date Extracted: 7/17/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/24/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	Alpha-BHC	8.0	U
319-85-7	Beta-BHC	8.0	U
319-86-8	Delta-BHC	8.0	U
58-89-9	Gamma-BHC	8.0	U
76-44-8	Heptachlor	8.0	U
309-00-2	Aldrin	8.0	U
1024-57-3	Heptachlor Epoxide	8.0	U
959-98-8	Endosulfan I	8.0	U
60-57-1	Dieldrin	16.	U
72-55-9	4,4'-DDE	16.	U
72-20-8	Endrin	16.	U
33213-65-9	Endosulfan II	16.	U
72-54-8	4,4'-DDD	16.	U
1031-07-8	Endosulfan Sulfate	16.	U
50-29-3	4,4'-DDT	16.	U
72-43-5	Methoxychlor	8.0	U
53494-70-5	Endrin Ketone	16.	U
5103-71-9	Alpha Chlordane	80.	U
5103-74-2	Gamma Chlordane	80.	U
8001-35-2	Toxaphene	160.	U
12674-11-2	Aroclor-1016	80.	U
11104-28-2	Aroclor-1221	80.	U
11141-16-5	Aroclor-1232	80.	U
53469-21-9	Aroclor-1242	80.	U
12672-29-6	Aroclor-1248	80.	U
11097-69-1	Aroclor-1254	160.	U
11096-82-5	Aroclor-1260	160.	U

Lab Name: AES_____ Contract: _____

Lab Code: AES___ Case No.: E1600 SAS No.: _____ SDG No.: A-1___

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prep-aration Blank	C	M
Aluminum	27.7	U	27.7	U	27.7	U	27.7	U	5.543	U	P
Antimony	26.3	U	26.3	U	43.6	B	55.1	B	5.259	U	P
Arsenic			0.0	U							P
Barium	6.5	U	6.5	U	7.5	B	9.4	B	1.304	U	P
Beryllium	1.4	B	0.8	U	0.8	U	0.8	U	0.151	U	P
Cadmium	4.1	B	2.4	B	2.4	U	2.4	U	0.478	U	P
Calcium	238.6	U	238.6	U	238.6	U	238.6	U	47.728	U	P
Chromium	4.6	U	4.6	U	4.6	U	4.6	U	0.918	U	P
Cobalt	6.2	U	6.2	U	6.2	U	6.2	U	1.232	U	P
Copper	2.0	U	3.6	B	2.7	B	3.6	B	0.405	U	P
Iron	10.3	U	10.3	U	10.3	U	10.3	U	5.838	B	P
Lead	33.2	U	33.2	U	33.2	U	33.2	U	6.646	U	P
Magnesium	433.0	U	433.0	U	433.0	U	433.0	U	86.593	U	P
Manganese	1.7	U	1.7	U	1.7	U	1.7	U	0.332	U	P
Mercury	0.2	U	0.2	U					0.100	U	CV
Nickel	8.1	U	8.1	U	8.1	U	11.3	B	1.614	U	P
Potassium	1608.2	U	1608.2	U	1608.2	U	1608.2	U	321.632	U	P
Selenium	5.0	U	5.0	U					1.000	U	F
Silver	4.0	U	4.0	U	4.0	U	4.0	U	0.808	U	P
Sodium	304.4	U	304.4	U	304.4	U	304.4	U	123.500	B	P
Thallium	10.0	U	10.0	U	10.0	U	10.0	U	2.000	U	F
Vanadium	3.8	U	3.8	U	3.8	U	3.8	U	0.992	B	P
Zinc	2.0	U	2.0	U	2.0	U	2.0	U	0.409	U	P
Cyanide											NR

Lab Name: AES_____ Contract: _____

Lab Code: AES___ Case No.: E1600 SAS No.: _____ SDG No.: A-1___

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prep. Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	10.0	U	10.0	U	10.0	U			2.000	U	F
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium	5.0	U	5.0	U	5.0	U	5.0	U			F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

3
BLANKS

Lab Name: AES_____ Contract: _____

Lab Code: AES___ Case No.: E1600 SAS No.: _____ SDG No.: A-1___

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U			F
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

ADIRONDACK ENVIRONMENTAL SERVICES

000135

3

BLANKS

Lab Name: AES INC Contract:_____

Lab Code: AES Case No: E16000 SAS No:_____ SDG No:A-1 (0-12)

Concentration Units (MG/KG or UG/L): UG/L

Preparation Blank Matrix (soil/water): WATER

	INITIAL CAL BLANK (UG/L)			Continuing Calibration Blank (UG/L)								Preparation Blank (UG/L or MG/KG)		
ANALYTES	I	C		I	C	I	C	I	C			I	C	M
CYANIDE	10	U		10	U	10	U					10	U	C
SULFIDE														
TPH														
TPH - GC														
FLASHPNT														
CORROSIV														
TDS														
TSS														
HEX CHROM														
CHLORIDE														
TURBIDITY														
PHENOL														

000155

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Lab File ID: DT170 BFB Injection Date: 7/17/92

Instrument ID.: 7002D BFB Injection Time: 16:45

Matrix:(soil/water) SOIL Level:(low/med): LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.3
75	30.0 - 60.0% of mass 95	56.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.6
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	74.8
175	5.0 - 9.0% of mass 174	5.5 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	75.2 (100.7)1
177	5.0 - 9.0% of mass 176	5.4 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD020	VSTD020	DS318	7/17/92	17:14
2	VSTD050	VSTD050	DS319	7/17/92	17:56
3	VSTD100	VSTD100	DS320	7/17/92	18:39
4	VSTD150	VSTD150	DS321	7/17/92	19:21
5	VSTD200	VSTD200	DS322	7/17/92	20:03
6					
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20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

000137

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Lab File ID: DT172 BFB Injection Date: 7/20/92

Instrument ID.: 7002D BFB Injection Time: 15:03

Matrix:(soil/water) SOIL Level:(low/med): LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.4
75	30.0 - 60.0% of mass 95	53.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	72.5
175	5.0 - 9.0% of mass 174	5.7 (7.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	72.7 (100.2)1
177	5.0 - 9.0% of mass 176	5.9 (8.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	VSTD050	DS329	7/20/92	15:30
2	VBLK189	VBLK189	DB189	7/20/92	16:26
3	MSB 7/20	MSB 7/20/92	D2034	7/20/92	17:24
4	DUP-3	DUP-3	D2035	7/20/92	18:07
5	A-1	A-1	D2036	7/20/92	18:49
6	A11(0-2)	A11(0-2)	D2037	7/20/92	19:31
7	B18(0-2)	B18(0-2)	D2038	7/20/92	20:13
8	C2(0-2)	C2(0-2)	D2039	7/20/92	20:55
9	A11(0-2)MS	A11(0-2)MS	D2040	7/20/92	21:37
10	A11(0-2)MSD	A11(0-2)MSD	D2041	7/20/92	22:20
11					
12					
13					
14					
15					
16					
17					
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19					
20					
21					
22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

000138

b Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Lab File ID: DT173 BFB Injection Date: 7/21/92

Instrument ID.: 7002D BFB Injection Time: 8:56

Matrix:(soil/water) SOIL Level:(low/med): LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.5
75	30.0 - 60.0% of mass 95	56.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	75.3
175	5.0 - 9.0% of mass 174	6.1 (8.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	74.1 (98.4)1
177	5.0 - 9.0% of mass 176	5.4 (7.3)2

1-Value is % mass 174 2-Value is % mass 176

IS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	VSTD050	DS330	7/21/92	9:22
2	VBLK190	VBLK190	DB190	7/21/92	11:26
3	DUP-3 RE	DUP-3 RE	D2050	7/21/92	12:22
4	A-1 RE	A-1 RE	D2051	7/21/92	13:04
5	B18(0-2)RE	B18(0-2) RE	D2052	7/21/92	13:46
6					
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22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

000139

Lab Name: AES INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Lab File ID: DT174 BFB Injection Date: 7/21/92

Instrument ID.: 7002D BFB Injection Time: 16:34

Matrix:(soil/water) WATER Level:(low/med): LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.9
75	30.0 - 60.0% of mass 95	52.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.9
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	66.8
175	5.0 - 9.0% of mass 174	5.6 (8.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	66.5 (99.5)1
177	5.0 - 9.0% of mass 176	3.9 (5.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD020	VSTD020	DS331	7/21/92	17:01
2	VSTD050	VSTD050	DS332	7/21/92	17:43
3	VSTD100	VSTD100	DS333	7/21/92	18:25
4	VSTD150	VSTD150	DS334	7/21/92	19:07
5	VSTD200	VSTD200	DS335	7/21/92	19:49
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22					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Lab File ID: DT177 BFB Injection Date: 7/24/92

Instrument ID.: 7002D BFB Injection Time: 12:27

Matrix:(soil/water) WATER Level:(low/med): LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.4
75	30.0 - 60.0% of mass 95	52.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	.0 (.0)1
174	Greater than 50.0% of mass 95	78.5
175	5.0 - 9.0% of mass 174	6.2 (7.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	75.0 (95.5)1
177	5.0 - 9.0% of mass 176	5.5 (7.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	VSTD050	DS338	7/24/92	12:48
2	VBLK194	VBLK194	DB194	7/24/92	13:30
3	FB-3	FB-3	D2083	7/24/92	14:12
4					
5					
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SEMIVOLATILE ORGANICS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: AES, INC. Contract: 68D20

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

b File ID: AT1S6 DFTPP Injection Date: 7/28/92

Instrument ID.: 7001A DFTPP Injection Time: 10:17

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.0
68	Less than 2.0% of mass 69	.0 (.01
69	Mass 69 relative abundance	72.2
70	Less than 2.0% of mass 69	.0 (.01
127	40.0 - 60.0% of mass 198	50.9
197	Less than 1.0% of mass 198	.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.8
275	10.0 - 30.0% of mass 198	19.8
365	Greater than 1.00% of mass 198	2.0
441	Present, but less than mass 443	9.8
442	Greater than 40.0% of mass 198	73.4
443	17.0 - 23.0% of mass 442	14.0 (19.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	SSTD020	SSTD020	AS186	7/28/92	10:33
2	SSTD050	SSTD050	AS187	7/28/92	11:24
3	SSTD080	SSTD080	AS188	7/28/92	12:16
4	SSTD120	SSTD120	AS189	7/28/92	13:08
5	SSTD160	SSTD160	AS190	7/28/92	14:00
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SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: AES, INC. Contract: 68D30139

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Lab File ID: AT195 DFTPP Injection Date: 7/30/92

Instrument ID.: 7001A DFTPP Injection Time: 22:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.9
68	Less than 2.0% of mass 69	.0 (.001
69	Mass 69 relative abundance	61.5
70	Less than 2.0% of mass 69	.0 (.001
127	40.0 - 60.0% of mass 198	44.9
197	Less than 1.0% of mass 198	.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	16.5
365	Greater than 1.00% of mass 198	1.7
441	Present, but less than mass 443	6.4
442	Greater than 40.0% of mass 198	48.4
443	17.0 - 23.0% of mass 442	8.8 (18.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	SSTD050	SSTD050	AS195	7/30/92	23:45
2	SBLK	SBLK	A1159	7/31/92	0:41
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SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: AES, INC. Contract: 000230

Lab Code: AES Case No.: SAS No.: SDG No.: A1(0-12)

Lab File ID: BT154 DFTPP Injection Date: 8/10/92

Instrument ID.: 7002B DFTPP Injection Time: 11:58

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	56.1
68	Less than 2.0% of mass 69	.0 (.0)1
69	Mass 69 relative abundance	70.4
70	Less than 2.0% of mass 69	.0 (.0)1
127	40.0 - 60.0% of mass 198	41.9
197	Less than 1.0% of mass 198	.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	22.5
365	Greater than 1.00% of mass 198	2.4
441	Present, but less than mass 443	11.4
442	Greater than 40.0% of mass 198	81.7
443	17.0 - 23.0% of mass 442	15.2 (18.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	SSTD020	SSTD020	BS154	8/10/92	13:10
2	SSTD050	SSTD050	BS155	8/10/92	14:02
3	SSTD080	SSTD080	BS156	8/10/92	14:55
4	SSTD120	SSTD120	BS157	8/10/92	15:48
5	SSTD160	SSTD160	BS158	8/10/92	16:40
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SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: AES, INC. Contract: 68C[illegible]

Lab Code: AES Case No.:E16000 SAS No.: SDG No.:A11(0-12)

Lab File ID: BT159 DFTPP Injection Date: 8/11/92

Instrument ID.: 7002B DFTPP Injection Time: 15:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	56.1
68	Less than 2.0% of mass 69	.0 (.01)
69	Mass 69 relative abundance	68.8
70	Less than 2.0% of mass 69	.0 (.01)
127	40.0 - 60.0% of mass 198	41.8
197	Less than 1.0% of mass 198	.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	21.3
365	Greater than 1.00% of mass 198	3.1
441	Present, but less than mass 443	12.5
442	Greater than 40.0% of mass 198	85.3
443	17.0 - 23.0% of mass 442	16.1 (18.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	SSTD050	SSTD050	BS160	8/11/92	17:00
2	SBLK 2	SBLK 2	B0742	8/11/92	17:48
3	MSB 7/17	MSB 7/17	B0743	8/11/92	18:35
4	FB-3	FB-3	B0744	8/11/92	19:23
5	A11(0-12)	A11(0-12)	B0745	8/11/92	20:11
6	A11(0-12)MS	A11(0-12)MS	B0746	8/11/92	20:59
7	A11(0-12)MSD	A11(0-12)MSD	B0747	8/11/92	21:47
8	B18(0-2)	B18(0-2)	B0748	8/11/92	22:34
9	C2(0-2)	C2(0-2)	B0749	8/11/92	23:22
10	DUP-3	DUP-3	B0750	8/12/92	0:10
11	A1(0-12)	A1(0-12)	B0751	8/12/92	0:58
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FORM V SV 1/87 Rev.

SEMIVOLATILE ORGANICS - MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.:E16000 SAS No.: 000339 SDG No.: A1(0-12)

Lab File ID: BT166 DFTPP Injection Date: 8/18/92

Instrument ID.: 7002B DFTPP Injection Time: 14:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.8
68	Less than 2.0% of mass 69	.0 (.0)1
69	Mass 69 relative abundance	71.4
70	Less than 2.0% of mass 69	.0 (.0)1
127	40.0 - 60.0% of mass 198	42.3
197	Less than 1.0% of mass 198	.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	18.8
365	Greater than 1.00% of mass 198	2.4
441	Present, but less than mass 443	9.5
442	Greater than 40.0% of mass 198	67.3
443	17.0 - 23.0% of mass 442	12.8 (19.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	SSTD050	SSTD050	BS166	8/18/92	15:14
2	DUP-3 RE	DUP-3 RE	B0791	8/18/92	16:39
3	A1(0-12)RE	A1(0-12)RE	B0792	8/18/92	17:31
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VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AES, INC. Contract: 000137

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Lab File ID (Standard): DS329 Date Analyzed: 7/20/92

Instrument ID: 7002D Time Analyzed: 15:30

Matrix: (soil/water) SOIL Level: (low/med): LOW Column: (pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	13960.	9.81	57040.	20.21	49167.	25.21
	UPPER LIMIT	27920.	10.31	114080.	20.71	98334.	25.71
	LOWER LIMIT	6980.	9.31	28520.	19.71	24584.	24.71
	EPA SAMPLE NO.						
1	VBLK189	12379.	9.85	50432.	20.22	43652.	25.22
2	MSB 7/20	14050.	9.81	57908.	20.20	49296.	25.20
3	DUP-3	9331.	9.83	27956.*	20.20	15102.*	25.20
4	A-1	9394.	9.82	28389.*	20.21	15392.*	25.21
5	A11(0-2)	9624.	9.84	36375.	20.21	27507.	25.21
6	B18(0-2)	7228.	9.83	24183.*	20.24	16094.*	25.22
7	C2(0-2)	12104.	9.82	48377.	20.21	36435.	25.22
8	A11(0-2) MS	7573.	9.80	28588.	20.19	22650.*	25.20
9	A11(0-2) MSD	8049.	9.81	30677.	20.18	23748.*	25.18
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

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VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AES Inc Contract: 000128

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

Lab File ID (Standard): DS330 Date Analyzed: 7/21/92

Instrument ID: 7002D Time Analyzed: 9:22

Matrix:(soil/water) SOIL Level:(low/med): LOW Column:(pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	14487.	9.77	60751.	20.19	51734.	25.17
	UPPER LIMIT	28974.	10.27	121502.	20.69	103468.	25.67
	LOWER LIMIT	7244.	9.27	30376.	19.69	25867.	24.67
	EPA SAMPLE NO.						
1	VBLK190	13850.	9.89	56979.	20.28	49327.	25.26
2	DUP-3 RE	8854.	9.89	24877.*	20.26	13166.*	25.24
3	A-1 RE	10267.	9.85	37612.	20.24	25821.*	25.26
4	B18(0-2)RE	8963.	9.85	29076.*	20.24	16329.*	25.24
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AES, INC. Contract: 000139

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A-1

File ID (Standard): DS338 Date Analyzed: 7/24/92

Instrument ID: 7002D Time Analyzed: 12:48

Matrix:(soil/water) WATER Level:(low/med): LOW Column:(pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	14344.	9.85	64477.	20.27	54563.	25.27
	UPPER LIMIT	28688.	10.35	128954.	20.77	109126.	25.77
	LOWER LIMIT	7172.	9.35	32239.	19.77	27282.	24.77
	EPA SAMPLE NO.						
1	VBLK194	13848.	9.83	62538.	20.28	50510.	25.28
2	FB-3	12859.	9.86	58999.	20.28	49247.	25.28
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

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SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AES, INC. Contract: 000140

Lab Code: AES Case No.: E16000SAS No.: SDG No.: A1(0-12)

Lab File ID (Standard): AS195 Date Analyzed: 7/30/92

Instrument ID: 7001A Time Analyzed: 23:45

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	66746.	8.41	133471.	11.97	81669.	17.39
	UPPER LIMIT	133492.	8.91	266942.	12.47	163338.	17.89
	LOWER LIMIT	33373.	7.91	66736.	11.47	40835.	16.89
	EPA SAMPLE NO.						
1	SBLK	42076.	8.40	88775.	11.94	54134.	17.37
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IS1 (DCB) = d4-1,4-Dichlorobenzene
IS2 (NPT) = d8-Naphthalene
IS3 (ANT) = d10-Acenaphthene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000SAS No.: SDG No.: A1(0-12)

Lab File ID (Standard): AS195 CC0141 Date Analyzed: 7/30/92

Instrument ID: 7001A Time Analyzed: 23:45

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	126537.	21.97	34246.	30.28	16510.	34.48
	UPPER LIMIT	253074.	22.47	68492.	30.78	33020.	34.98
	LOWER LIMIT	63269.	21.47	17123.	29.78	8255.	33.98
	EPA SAMPLE NO.						
1	SBLK 1	65046.	21.93	17417.	30.26	12609.	34.47
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IS4 (PHN) = d10-Phenanthrene
IS5 (CRY) = d12-Chrysene
IS6 (PRY) = d12-Perylene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

000142

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Lab File ID (Standard): BS160 Date Analyzed: 8/11/92

Instrument ID: 7002B Time Analyzed: 17:00

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	24085.	6.70	45210.	10.06	28192.	15.33
	UPPER LIMIT	48170.	7.20	90420.	10.56	56384.	15.83
	LOWER LIMIT	12043.	6.20	22605.	9.56	14096.	14.83
	EPA SAMPLE NO.						
1	SBLK 2	19852.	6.67	31826.	10.03	18956.	15.31
2	MSB 7/17	23747.	6.69	44581.	10.04	27357.	15.32
3	FB-3	25664.	6.67	49624.	10.03	31454.	15.32
4	A11(0-12)	27196.	6.67	58211.	10.03	33497.	15.32
5	A11(0-12)MS	31220.	6.69	57788.	10.05	36155.	15.33
6	A11(0-12)MSD	28340.	6.68	53252.	10.05	33548.	15.33
7	B18(0-2)	25809.	6.67	54143.	10.04	34668.	15.32
8	C2(0-2)	25419.	6.68	54124.	10.03	33383.	15.32
9	DUP-3	14292.	6.66	23575.	10.03	8087.*	15.31
10	A1(0-12)	14609.	6.66	23715.	10.02	8032.*	15.30
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IS1 (DCB) = d4-1,4-Dichlorobenzene
IS2 (NPT) = d8-Naphthalene
IS3 (ANT) = d10-Acenaphthene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AES, INC. Contract: 000183

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Lab File ID (Standard): BS160 Date Analyzed: 8/11/92

Instrument ID: 7002B Time Analyzed: 17:00

		IS4(PHN) AREA	#	RT	IS5(CRY) AREA	#	RT	IS6(PRY) AREA	#	RT
	12 HOUR STD	43074.		19.82	15585.		28.03	9790.		32.17
	UPPER LIMIT	86148.		20.32	31170.		28.53	19580.		32.67
	LOWER LIMIT	21537.		19.32	7793.		27.53	4895.		31.67
	EPA SAMPLE NO.									
1	SBLK 2	28727.		19.79	8899.		28.06	6251.		32.21
2	MSB 7/17	36066.		19.81	11958.		28.05	7059.		32.19
3	FB-3	41986.		19.80	16957.		28.04	8805.		32.17
4	A11(0-12)	44475.		19.81	16210.		28.02	9282.		32.15
5	A11(0-12)MS	50466.		19.82	15783.		28.03	9039.		32.15
6	A11(0-12)MSD	48665.		19.81	17822.		28.03	12788.		32.15
7	B18(0-2)	49661.		19.80	16995.		28.03	10385.		32.15
8	C2(0-2)	44745.		19.81	16616.		28.03	11498.		32.16
9	DUP-3	4068.	*	19.82	187.	*	28.06	0.	*	.00
10	A1(0-12)	3635.	*	19.82	883.	*	28.06	934.	*	32.19
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IS4 (PHN) = d10-Phenanthrene
IS5 (CRY) = d12-Chrysene
IS6 (PRY) = d12-Perylene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

Lab Name: AES, INC. Contract: 000114

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Lab File ID (Standard): BS166 Date Analyzed: 8/18/92

Instrument ID: 7002B Time Analyzed: 15:14

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	27420.	7.04	52205.	9.94	32635.	15.20
	UPPER LIMIT	54840.	7.54	104410.	10.44	65270.	15.70
	LOWER LIMIT	13710.	6.54	26103.	9.44	16318.	14.70
	EPA SAMPLE NO.						
1	DUP-3 RE	14342.	6.57	27150.	9.92	9811.*	15.18
2	A1(0-12)RE	13854.	6.56	27948.	9.91	9373.*	15.18
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IS1 (DCB) = d4-1,4-Dichlorobenzene
IS2 (NPT) = d8-Naphthalene
IS3 (ANT) = d10-Acenaphthene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

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SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: AES, INC. Contract: 000415

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-12)

Lab File ID (Standard): BS166 Date Analyzed: 8/18/92

Instrument ID: 7002B Time Analyzed: 15:14

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	45788.	19.67	12783.	27.88	9933.	31.98
	UPPER LIMIT	91576.	20.17	25566.	28.38	19866.	32.48
	LOWER LIMIT	22894.	19.17	6392.	27.38	4967.	31.48
	EPA SAMPLE NO.						
1	DUP-3 RE	4029.*	19.69	363.*	27.92	0.*	.00
2	A1(0-12)RE	3950.*	19.68	0.*	.00	0.*	.00
3							
4							
5							
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20							
21							
22							

IS4 (PHN) = d10-Phenanthrene
IS5 (CRY) = d12-Chrysene
IS6 (PRY) = d12-Perylene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

PCB DATA VALIDATION OF SOIL SAMPLE ANALYSES
318 URBAN STREET SITE OFF PROPERTY SAMPLING
ERM-NORTHEAST PROJECT NUMBER 380.048
ADIRONDACK ENVIRONMENTAL SERVICES CASE NO. E16000, SDG NO. A5 (3-6)

Deliverables:

The above referenced Data Summary Package and Sample Data Package contain all required deliverables as stipulated under the 1989 New York State Analytical Services Protocol (ASP) Superfund category for all PCB analyses. PCB analyses were performed by an amended pesticide/PCB analytical method previously approved by the NYSDEC. This validation report pertains to the following samples:

Samples		QC Samples
A5 (3-6)	SEW-4	DUP6 MS
B17 (0-2)	SEW-6	DUP6 MSD
B17 (2-4)	DUP 6	FB7
B19 (1.5-3.5)		
B19 (3.5-5.5)		
B20 (1.5-3.5)		
B20 (3.5-5.5)		

The following items/criteria were reviewed:

- Case Narrative
- Deliverable Requirements
- Holding times
- GC/MS Tuning (confirmational analysis)
- Initial GC calibration data
- Continuing GC calibration data
- PCB standards summary and data
- Procedural blank summary and data
- Field blank data
- Surrogate recoveries, retention times, and summary
- MS/MSD recoveries and summary
- Method blank spike recoveries and summary
- Field duplicate
- Organic Analysis Data Sheets (Form I)
- GC/ECD Chromatograms and data system printouts

The above items were in compliance with NYSDEC QC criteria with the exceptions discussed in the following text. The data have been validated according to the above procedures and qualified as described on the attached definitions list.

- All samples were extracted for analysis within the five day holding time and extracts were all analyzed within forty days of extraction per ASP QC criteria. The table below details holding time information. Sample DUP 6 was received as part of an earlier SDG, which was received less than seven days prior to this SDG. It was included in this package so that it could be used for the MS/MSD analyses.

Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
A5 (3-6)	Soil	7/21/92	7/22/92	7/24/92	8/5/92
B17 (0-2)	Soil	7/21/92	7/22/92	7/24/92	8/4/92
B17 (2-4)	Soil	7/21/92	7/22/92	7/24/92	8/4/92
B19 (1.5-3.5)	Soil	7/21/92	7/22/92	7/24/92	8/4/92
B19 (3.5-5.5)	Soil	7/21/92	7/22/92	7/24/92	8/4/92
B20 (1.5-3.5)	Soil	7/21/92	7/22/92	7/24/92	8/4/92
B20 (3.5-5.5)	Soil	7/21/92	7/22/92	7/24/92	8/5/92
SEW-4	Soil	7/23/92	7/24/92	7/24/92	8/5/92
SEW-6	Soil	7/23/92	7/24/92	7/24/92	8/5/92
FB7	Water	7/23/92	7/24/92	7/24/92	8/3/92
DUP 6	Soil	7/21/92	7/22/92	7/23/92	8/4/92

- All ion abundance criteria were met for GC/MS tuning prior to sample confirmational analyses.

- GC/ECD initial calibration factors and retention time (RT) windows were correctly calculated and reported. Initial and continuing calibration standards for aroclor 1221 only feature two peaks instead of the required three. However, since no aroclor 1221 was detected in any samples, no qualification to the data is required.

- The first continuing calibration standard (Ar 1260) analyzed in association with this package indicated that the instrument response to PCB compounds had changed significantly (26%D), however no new initial calibration was performed as required by ASP criteria. In telephone conversations between ERM and the laboratory it was decided to use the calibration factor from the first continuing calibration as the initial response factor. All subsequent continuing calibration response factors exhibited less than 15% difference from the new initial. The new initial calibration standard is, however, a 0.4ng standard and the peak area of the aroclor 1260 exhibited by some samples is greater than the standard peak area. The sample result is still within the

linear range of the instrument as established by the laboratory per ASP criteria, therefore no qualification to the data is necessary.

- Procedural blanks were analyzed with the proper frequency (one per 20 samples per matrix) and exhibited no positive results for PCB analyses. All chromatograms exhibited stable baselines.

- One aqueous field blank submitted for PCB analysis with these soil samples (FB-7) exhibited no positive results for PCB analyses.

- Samples B17 (0-2), B19 (3.5-5.5), B20 (1.5-3.5), B20 (3.5-5.5) and SEW-4 exhibited surrogate recoveries over the 50% to 150% advisory QC limits. All positive results for PCBs associated with these samples are considered estimated and possibly biased high. Samples A5 (3-6) and SEW-6 exhibited zero recovery for surrogates due to high dilution factors. No qualification to these two data is necessary. Surrogate recovery summaries are attached.

- The MS/MSD spike recoveries for aroclor 1260 (48% and 45%, respectively) were lower than the 60% to 160% QC limits. All sample results for aroclor 1260 are considered estimated due to possible matrix interferences. MS/MSD recovery summaries are attached.

- Method blank spike recoveries fell within the ASP QC limits of 75 to 125%. Method blank spike summary forms are attached.

- No field duplicate of any field sample in this SDG was submitted to the laboratory for PCB analysis.

- All gas chromatographic data and system printouts have been reviewed and are acceptable.

- Organic analysis data sheets (Form I) for sample and QC analyses are attached. All data are valid and usable as presented on these sheets.

- The soil sample SEW-6 exhibited 56% moisture. For this reason, all PCB results for this sample are considered estimated.

- Sample B17 (2-4) exhibited significant interference in the early part of the chromatogram arising from the presence of sulfur compounds. This sample was sulfur cleaned along with an aroclor 1016/1260 standard and re-analyzed. The analysis confirmed the absence of PCBs in the sulfur cleaned samples.

SUMMARY OF PCB RESULTS
318 URBAN STREET SITE
ADIRONDACK ENVIRONMENTAL SERVICES CASE NO. E16000,SDG NO.A5(3-6)

Sample ID	AR 1254 (mg/kg)	AR 1260 (mg/kg)
A5 (3-6)	33U	97
B17 (0-2)	3.2U	12
B17 (2-4)	0.60U	0.38J
B19 (1.5-3.5)	0.60U	0.60U
B19 (3.5-5.5)	0.64U	0.092J
B20 (1.5-3.5)	0.60U	0.60U
B20(3.5-5.5)	0.61U	0.61U
SEW-4	19	20
SEW-6	5700U	16,000C
FB7	0.5U $\mu g/\ell$	0.5 $\mu g/\ell$

* Sample results as reported prior to quatification by data validation.

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A5(3-6)

Lab Name: AES,INC Contract: 000007

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Matrix: (soil/water) SOIL Lab Sample ID: A5(3-6)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 24. dec._____ Date Extracted: 7/24/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 5/92

GPC Cleanup: (Y/N) N pH: 8.8 Dilution Factor: 50.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	33000.	U
11104-28-2	Arochlor-1221	33000.	U
11141-16-5	Arochlor-1232	33000.	U
53469-21-9	Arochlor-1242	33000.	U
12672-29-6	Arochlor-1248	33000.	U
11097-69-1	Arochlor-1254	33000.	U
11096-82-5	Arochlor-1260	97000.	5

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17(0-2)

Lab Name: AES,INC Contract: 000008

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Matrix: (soil/water) SOIL Lab Sample ID: B17(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 23. dec._____ Date Extracted: 7/24/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	3200.	U
11104-28-2	Arochlor-1221	3200.	U
11141-16-5	Arochlor-1232	3200.	U
53469-21-9	Arochlor-1242	3200.	U
12672-29-6	Arochlor-1248	3200.	U
11097-69-1	Arochlor-1254	3200.	U
11096-82-5	Arochlor-1260	12000.	J

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FORM I PEST 1/87 Rev.

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B17(2-4)

Lab Name: AES,INC Contract: 000009

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Matrix: (soil/water) SOIL Lab Sample ID: B17(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 17. dec._____ Date Extracted: 7/24/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	600.	U
11104-28-2	Arochlor-1221	600.	U
11141-16-5	Arochlor-1232	600.	U
53469-21-9	Arochlor-1242	600.	U
12672-29-6	Arochlor-1248	600.	U
11097-69-1	Arochlor-1254	600.	U
11096-82-5	Arochlor-1260	380.	J

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B19(1.5-3.5)

Lab Name: AES,INC Contract: 000010

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Matrix: (soil/water) SOIL Lab Sample ID: B19(1.5-3.5)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 16. dec._____ Date Extracted: 7/24/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 9.1 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	600.	U
11104-28-2	Arochlor-1221	600.	U
11141-16-5	Arochlor-1232	600.	U
53469-21-9	Arochlor-1242	600.	U
12672-29-6	Arochlor-1248	600.	U
11097-69-1	Arochlor-1254	600.	U
11096-82-5	Arochlor-1260	600.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B19(3.5-5.5)

Lab Name: AES,INC Contract: 000011

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Matrix: (soil/water) SOIL Lab Sample ID: B19(3.5-5.5)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 22. dec._____ Date Extracted: 7/24/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 9.1 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	640.	U
11104-28-2	Arochlor-1221	640.	U
11141-16-5	Arochlor-1232	640.	U
53469-21-9	Arochlor-1242	640.	U
12672-29-6	Arochlor-1248	640.	U
11097-69-1	Arochlor-1254	640.	U
11096-82-5	Arochlor-1260	92.	J

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B20(1.5-3.5)

Lab Name: AES,INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: 000012 SDG No.: A5(3-6)

Matrix: (soil/water) SOIL Lab Sample ID: B20(1.5-3.5)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 17. dec._____ Date Extracted: 7/24/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	600.	U
11104-28-2	Arochlor-1221	600.	U
11141-16-5	Arochlor-1232	600.	U
53469-21-9	Arochlor-1242	600.	U
12672-29-6	Arochlor-1248	600.	U
11097-69-1	Arochlor-1254	600.	U
11096-82-5	Arochlor-1260	600.	U

ID

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B20(3.5-5.5)

Lab Name: AES,INC Contract: CCC013

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Matrix: (soil/water) SOIL Lab Sample ID: B20(3.5-5.5)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 18. dec._____ Date Extracted: 7/24/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 5/92

GPC Cleanup: (Y/N) N pH: 8.9 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	610.	U
11104-28-2	Arochlor-1221	610.	U
11141-16-5	Arochlor-1232	610.	U
53469-21-9	Arochlor-1242	610.	U
12672-29-6	Arochlor-1248	610.	U
11097-69-1	Arochlor-1254	610.	U
11096-82-5	Arochlor-1260	610.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SEW4

Lab Name: AES,INC Contract: 000014

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Matrix: (soil/water) SOIL Lab Sample ID: SEW4

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 23. dec.____ Date Extracted: 7/24/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 5/92

GPC Cleanup: (Y/N) N pH: 7.7 Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	6500.	U
11104-28-2	Arochlor-1221	6500.	U
11141-16-5	Arochlor-1232	6500.	U
53469-21-9	Arochlor-1242	6500.	U
12672-29-6	Arochlor-1248	6500.	U
11097-69-1	Arochlor-1254	19000.	J
11096-82-5	Arochlor-1260	20000.	J

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SEW6

Lab Name: AES,INC Contract: 000015

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Matrix: (soil/water) SOIL Lab Sample ID: SEW6

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 56. dec._____ Date Extracted: 7/24/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 5/92

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 5000.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	5700000.	U
11104-28-2	Arochlor-1221	5700000.	U
11141-16-5	Arochlor-1232	5700000.	U
53469-21-9	Arochlor-1242	5700000.	U
12672-29-6	Arochlor-1248	5700000.	U
11097-69-1	Arochlor-1254	5700000.	U
11096-82-5	Arochlor-1260	16000000.	J C

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP6

Lab Name: AES,INC Contract: 000016

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Matrix: (soil/water) SOIL Lab Sample ID: DUP6

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 20. dec._____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	620.	U
11104-28-2	Arochlor-1221	620.	U
11141-16-5	Arochlor-1232	620.	U
53469-21-9	Arochlor-1242	620.	U
12672-29-6	Arochlor-1248	620.	U
11097-69-1	Arochlor-1254	620.	U
11096-82-5	Arochlor-1260	620.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: FB7

Lab Name: AES,INC Contract: 000017

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Matrix: (soil/water) WATER Lab Sample ID: FB7

Sample wt/vol: 400.0 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 100. dec._____ Date Extracted: 7/24/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/ 3/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-21-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

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TITLE PAGE

Over the period of July 22, 1992, through July 24, 1992, thirteen (13) soil samples, and one (1) fieldblank were received by Adirondack Environmental Services, Inc. from ERM-Northeast, Inc. in association with the ERM-Buffalo Sweeney Steel Project. These samples were analyzed for PCB constituents using a modification of method 8080 as previously described in accordance with the 1989 NYSDEC Analytical Services Protocol (ASP). The project was completed on September 30, 1992.

Frank Sweder
Laboratory Director

Date: Sept 30, 1992

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CASE NARRATIVE

Client : ERM - Northeast, Inc.

Case : E16000

SDG : A5(3-6)

Samples : A5(3-6)
B17(0-2)
B17(2-4)
B17(8-10) *(EXTRACT AND HOLD)*
B19(1.5-3.5)
B19(3.5-5.5)
B19(8-10) *(EXTRACT AND HOLD)*
B20(1.5-3.5)
B20(3.5-5.5)
B20(8-10) *(EXTRACT AND HOLD)*
SEW-4
SEW-6
DUP6
FB7

Note:
Samples in this case were assessed for PCB's only using a modification of method 8080 as discussed previously. See Chain of Custody (COC).

PCB

Following this narrative, please find corresponding peaks used for PCB identification.

Please note that sample DUP6 has been included in this SDG to provide MS/MSD information. This sample was reported (unspiked) in SDG:B8(0-2) and was received within 7 days of the samples listed above. AR1260 was slightly below the advisory limits in both the MS and MSD. These results indicate that matrix affects may exist.

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000002

The following samples were sulfur cleaned. Chromatograms corresponding to the sulfur cleaned samples have been included after the initial analysis on the primary and confirmation columns in the sample data section. These samples did not contain any aroclor constituents that were obscured by the presence of sulfur (see sulfur cleaned chromatograms substantiating this fact).

SAMPLE NAME
DUP6
DUP6MS
DUP6MSD
B17(2-4)

The following samples were diluted prior to analysis due to suspected (screening) and confirmed high levels of target constituents.

SAMPLE NAME	DILUTION FACTOR	CONFIRMED BY GC/MS
A5(3-6)	50	-
B17(0-2)	5	-
SEW-4	10	-
SEW-6	5000 *	Y

* This sample was extracted low level. The dilution required (5000) is well below the 100,000 fold dilution allowable in low level analysis as specified in both the NYSDEC 12/91 ASP and EPA SOW 3/90 protocols. Corresponding concentration values were within the calibration range, and were qualitatively confirmed by GC/MS.

An incorrect amount of surrogate was added to PBLKE6. Therefore, the recovery reported (10%) is well below the advisory limits. No Aroclors were detected in this blank.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Frank Sculler
Laboratory Director

Date: Sept 30, 1992

Adirondack Environmental Services, Inc.
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Albany, New York 12207
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000003

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PESTICIDE/PCB DATA INFORMATION SHEET

SDG: A5(3-6) **Client: ERM - NE** **Case No.: E16000**

EXTRACTION SUMMARY:

Matrix = SOIL, WATER (FB)

Level = LOW

Final volume after concentration (ml) = 50 (soil), 4 (water)

Blank extraction amount (g or ml) = 400 ML , 10 G

Dual Column Analysis - 2ul on each column

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SDG: A5(3-6) **Client: ERM - NE** **Case No.:** E16000

SPIKE SUMMARY:

Average DCB area used for calculations =
239300(DB1701); 335363(DB5)

approximate DCB RT
DB5 column - 16.02
DB1701 column - 17.96

SAMPLE CALCULATIONS:

Surrogate recovery:

Sample Name - B17(2-4) (DB5)

$$\frac{232593\ /(0.1)}{335363/(0.2)} \times 100 = 139\%$$

0.1 UG ADDED IN SAMPLE; 0.2 UG ADDED IN STD

Detected Compound :

Sample Name - A5(3-6) Compound - AR1260

$$\frac{\text{sample area x fv x conc std (ppm) x DF}}{\text{standard area x kg ext x decimal dry}} = [\ ]$$

$$\frac{179996 \times 50 \times 0.4 \times 50}{244136 \times 0.01 \times 0.76} = \text{ppb}$$

97000 ug/kg

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518-434-4546/434-0891 FAX

000005

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PESTICIDE/PCB DATA INFORMATION SHEET

SDG: A5(3-6) **Client: ERM** **Case No.: E16000**

STD	CONC (ppm)		PEAKS USED FOR QUANT/CONF (RT) DB5	DB1701
AR1016------	1.0	---------	2.79	4.29
			3.11	4.83
			3.65	5.40
			3.87	5.76
			4.03	6.02
AR1260------	0.4	_____	8.99	12.11
			9.32	12.37
			9.73	12.87
			10.21	13.20
			11.66	15.00
AR1221------	1.0	---------	1.87	2.93
			2.10	3.37
AR1232------	1.0	---------	3.66	5.40
			3.87	5.76
			4.03	6.02
			4.55	6.39
			4.95	7.03
			5.20	7.30
AR1242------	1.0	---------	3.67	5.41
			3.87	5.76
			4.03	6.02
			4.55	6.39
			4.95	7.03
			5.20	7.30
AR1248------	1.0	---------	4.57	7.04
			4.94	7.31
			5.20	7.83
			5.96	8.15
			6.43	8.78
AR1254------	1.0	---------	4.46	8.17
			6.00	8.75
			6.63	10.00
			7.35	10.67
			7.60	12.11

SOIL PESTICIDE SURROGATE RECOVERY

000018

Lab Name: AES,INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKE6	10 *	
2	PBLK7	148	
3	PBLK727	146	
4	PBLKMSB727	119	
5	DUP6	147	
6	B17(0-2)	190 *	
7	B17(2-4)	139	
8	B19(1.5-3.5)	140	
9	B19(3.5-5.5)	160 *	
10	B20(1.5-3.5)	152 *	
11	B20(3.5-5.5)	164 *	
12	A5(3-6)	D	
13	SEW6	D	
14	SEW4	185 *	
15	DUP6 MS	146	
16	DUP6 MSD	89	
17			
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ADVISORY QC LIMITS (50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II PEST-2 1/87 Rev.

SOIL PESTICIDE SURROGATE RECOVERY

000019

Lab Name: AES,INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Level:(low/med) LOW

conf.

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLK7	129	
2	B17(0-2)	165 *	
3	B17(2-4)	136	
4	B19(3.5-5.5)	136	
5	A5(3-6)	D	
6	SEW6	D	
7	SEW4	252 *	
8			
9			
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ADVISORY QC LIMITS (50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II PEST-2 1/87 Rev.

2E

WATER PESTICIDE SURROGATE RECOVERY

000020

Lab Name: AES,INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKW6	159 *	
2	FB7	178 *	
3			
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ADVISORY
QC LIMITS
(50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II PEST-1 1/87 Rev.

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES,INC Contract: 000021

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Matrix Spike - EPA Sample No.: DUP6 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Arochlor-1016	3428.12	.00	2925.20	85	60-160
Arochlor-1260	3084.37	.00	1485.16	48 *	60-160

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arochlor-1016	3428.12	3793.30	111	26	50	60-160
Arochlor-1260	3084.37	1401.80	45 *	6	50	60-160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 2 out of 4 outside limits

COMMENTS:

SOIL PCB MATRIX SPIKE BLANK RECOVERY

Lab Name: AES,INC Contract: 000022
Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)
EPA Sample No.: PBLK MSBE727 Matrix: SOIL

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATIO (ug/Kg)	MSB CONCENTRATIO (ug/Kg)	% REC.	QC LIMITS REC.
AROCLOR-1016	2194	0	2300	105	75-125
AROCLOR-1260	1974	0	1900	96	75-125

PESTICIDE METHOD BLANK SUMMARY

Lab Name: AES,INC Contract: 000023

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Lab Sample ID: PBLKE6 Lab File ID:

Matrix: (soil/water) SOIL Level:(low/med) LOW

Date Extracted: 7/23/92 Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed (1): 8/ 3/92 Date Analyzed (2):

Time Analyzed (1): 19:49 Time Analyzed (2):

Instrument ID (1): VAR2A Instrument ID (2):

GC Column ID (1): DB5 GC Column ID (2):

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	DUP6	DUP6	8/ 4/92	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
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15				
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Comments:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKE6

Lab Name: AES,INC Contract: 000024

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Matrix: (soil/water) SOIL Lab Sample ID: PBLKE6

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec._____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 3/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	500.	U
11104-28-2	Arochlor-1221	500.	U
11141-16-5	Arochlor-1232	500.	U
53469-21-9	Arochlor-1242	500.	U
12672-29-6	Arochlor-1248	500.	U
11097-69-1	Arochlor-1254	500.	U
11096-82-5	Arochlor-1260	500.	U

PESTICIDE METHOD BLANK SUMMARY

000025

Lab Name: AES,INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Lab Sample ID: PBLK7 Lab File ID:

Matrix: (soil/water) SOIL Level:(low/med) LOW

Date Extracted: 7/24/92 Extraction: (SepF/Cont/Sonc) SON

Date Analyzed (1): 8/ 3/92 Date Analyzed (2): 8/ 3/92

Time Analyzed (1): 20:17 Time Analyzed (2): 20:16

Instrument ID (1): VAR2A Instrument ID (2): VAR2A

GC Column ID (1): DB5 GC Column ID (2): DB1701

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	B17(0-2)	B17(0-2)	8/ 4/92	8/ 4/92
2	B17(2-4)	B17(2-4)	8/ 4/92	8/ 4/92
3	B19(1.5-3.5)	B19(1.5-3.5)	8/ 4/92	
4	B19(3.5-5.5)	B19(3.5-5.5)	8/ 4/92	8/ 4/92
5	B20(1.5-3.5)	B20(1.5-3.5)	8/ 4/92	
6	B20(3.5-5.5)	B20(3.5-5.5)	8/ 5/92	
7	A5(3-6)	A5(3-6)	8/ 5/92	8/ 5/92
8	SEW6	SEW6	8/ 5/92	8/ 5/92
9	SEW4	SEW4	8/ 5/92	8/ 5/92
10				
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Comments:

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK7

Lab Name: AES,INC Contract: 000026

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Matrix: (soil/water) SOIL Lab Sample ID: PBLK7

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec._____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 3/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	500.	U
11104-28-2	Arochlor-1221	500.	U
11141-16-5	Arochlor-1232	500.	U
53469-21-9	Arochlor-1242	500.	U
12672-29-6	Arochlor-1248	500.	U
11097-69-1	Arochlor-1254	500.	U
11096-82-5	Arochlor-1260	500.	U

PESTICIDE METHOD BLANK SUMMARY

Lab Name: AES,INC Contract: 000027

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Lab Sample ID: PBLKW6 Lab File ID:

Matrix: (soil/water) WATER Level:(low/med) LOW

Date Extracted: 7/24/92 Extraction: (SepF/Cont/Sonc) SEP

Date Analyzed (1): 8/ 3/92 Date Analyzed (2):

Time Analyzed (1): 16:30 Time Analyzed (2):

Instrument ID (1): VAR2A Instrument ID (2):

GC Column ID (1): DB5 GC Column ID (2):

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	FB7	FB7	8/ 3/92	
2				
3				
4				
5				
6				
7				
8				
9				
10				
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12				
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Comments:

ID

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKW6

Lab Name: AES,INC Contract: 000028

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Matrix: (soil/water) WATER Lab Sample ID: PBLKW6

Sample wt/vol: 400.0 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 100. dec._____ Date Extracted: 7/24/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/ 3/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-21-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

PESTICIDE METHOD BLANK SUMMARY

Lab Name: AES,INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: 000029 SDG No.: A5(3-6)

Lab Sample ID: PBLK727 Lab File ID:

Matrix: (soil/water) SOIL Level:(low/med) LOW

Date Extracted: 7/27/92 Extraction: (SepF/Cont/Sonc) SON

Date Analyzed (1): 8/ 3/92 Date Analyzed (2):

Time Analyzed (1): 20:46 Time Analyzed (2):

Instrument ID (1): VAR2A Instrument ID (2):

GC Column ID (1): DB5 GC Column ID (2):

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	PBLKMSB727	PBLKMSB727	8/ 3/92	
2	DUP6 MS	DUP6 MS	8/ 5/92	
3	DUP6 MSD	DUP6 MSD	8/ 5/92	
4				
5				
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Comments:

FORM IV PEST 1/87 Rev.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

PBLK727

Lab Name: AES,INC Contract: 000030

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A5(3-6)

Matrix: (soil/water) SOIL Lab Sample ID: PBLK727

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec._____ Date Extracted: 7/27/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 3/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	500.	U
11104-28-2	Arochlor-1221	500.	U
11141-16-5	Arochlor-1232	500.	U
53469-21-9	Arochlor-1242	500.	U
12672-29-6	Arochlor-1248	500.	U
11097-69-1	Arochlor-1254	500.	U
11096-82-5	Arochlor-1260	500.	U

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CASE NARRATIVE

Client : ERM - Northeast, Inc.

Case : E16000

SDG : A5(3-6)

Samples : A5(3-6)
B17(0-2)
B17(2-4)
B17(8-10) *(EXTRACT AND HOLD)*
B19(1.5-3.5)
B19(3.5-5.5)
B19(8-10) *(EXTRACT AND HOLD)*
B20(1.5-3.5)
B20(3.5-5.5)
B20(8-10) *(EXTRACT AND HOLD)*
SEW-4
SEW-6
DUP6
FB7

Note:
Samples in this case were assessed for PCB's only using a modification of method 8080 as discussed previously. See Chain of Custody (COC).

PCB

Following this narrative, please find corresponding peaks used for PCB identification.

Please note that sample DUP6 has been included in this SDG to provide MS/MSD information. This sample was reported (unspiked) in SDG:B8(0-2) and was received within 7 days of the samples listed above. AR1260 was slightly below the advisory limits in both the MS and MSD. These results indicate that matrix affects may exist.

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The following samples were sulfur cleaned. Chromatograms corresponding to the sulfur cleaned samples have been included after the initial analysis on the primary and confirmation columns in the sample data section. These samples did not contain any aroclor constituents that were obscured by the presence of sulfur (see sulfur cleaned chromatograms substantiating this fact).

SAMPLE NAME
DUP6
DUP6MS
DUP6MSD
B17(2-4)

The following samples were diluted prior to analysis due to suspected (screening) and confirmed high levels of target constituents.

SAMPLE NAME	DILUTION FACTOR	CONFIRMED BY GC/MS
A5(3-6)	50	-
B17(0-2)	5	-
SEW-4	10	-
SEW-6	5000 *	Y

* This sample was extracted low level. The dilution required (5000) is well below the 100,000 fold dilution allowable in low level analysis as specified in both the NYSDEC 12/91 ASP and EPA SOW 3/90 protocols. Corresponding concentration values were within the calibration range, and were qualitatively confirmed by GC/MS.

An incorrect amount of surrogate was added to PBLKE6. Therefore, the recovery reported (10%) is well below the advisory limits. No Aroclors were detected in this blank.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Frank Lenders
Laboratory Director

Date: Sept 30, 1992

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000035

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CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM-Northeast	General Electric 318 Urban St. Site	Karen Baker
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Albany	380.048	Karen E Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
930724 A01	FB-7	7/23/92	0930 A/P	Water		X	1	PCBs
~~A02~~	T-1	7/23/92	0905 A/P	Water		X	1	PCBs in Oil (sample r 500+ppm volati
A03	SEW-4	7/23/92	1010 A/P	Sed.		X	1	PCBs
~~A04~~	SEW-6	7/23/92	0950 A/P	Sed.		X	1	PCBs
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					
			A/P					

Turnaround Time | **Laboratory Approval:**

Relinquished by: (Signature) Karen E Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**

Dispatched by: (Signature) Karen E Baker	**Date/Time** 7/23/92	**Received for Laboratory by:**	**Date/Time** 7/24/92 9:15
Method of Shipment: Federal Express	**Send Report To:** Dave Bradley - ERM-NE Albany		**Client Phone No.:**

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of $10.00 per container for disposal.

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CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM-Northeast	General Electric 318 Urban St	Karen Baker
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Albany	380.048	Karen E Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
920722-B26	B20, 1.5'-3.5'	7/21/92	1225 A (P)	Soil		X	1	PCBs
920722-B27	B20, 3.5'-5.5'	↓	1230 A (P)	Soil		X	1	PCBs
920722-B28	B20, 8'-10'		1235 A (P)	Soil		X	1	EXTRACT & HOLD FC POSSIBLE PCB anal
920722-B29	A5, 3"-6"		1350 A (P)	Soil		X	1	PCBs
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					

Turnaround Time | **Laboratory Approval:**

Relinquished by: (Signature) Karen E Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature) [redacted]	**Received by:** (Signature)	**Date/Time**
Dispatched by: (Signature) Karen E Baker — **Date/Time** 7/21/92	**Received for Laboratory by:** [signature]	**Date/Time** 7/22/92 9:45
Method of Shipment: Federal Express	**Send Report To:** Dave Bradley, ERM-NE Albany	**Client Phone No.:**

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of $10.00 per container for disposal.

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CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM-Northeast	General Electric 318 Urban St.	Karen Baker
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Albany	380.048	Karen E Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
920722-B14	B15, 0'-2'	7/21/92	0912 A P	Soil		X	1	PCBs
920722-B15	B15, 2'-4'		0915 A P	Soil		X	1	PCBs
920722-B16	B15, 8'-10'		0920 A P	Soil		X	1	EXTRACT + HOLD FOR POSS. P
920722-B17	B16, 0'-2'		0935 A P	Soil		X	1	PCBs
920722-B18	B16, 2'-4'		0940 A P	Soil		X	1	PCBs
920722-B19	B16, 8'-10'		0950 A P	Soil		X	1	EXTRACT + HOLD FOR POSSIBLE PCB analy
920722 B20	B17, 0'-2'		1115 A P	Soil		X	1	PCBs
920722-B21	B17, 2'-4'		1120 A P	Soil		X	1	PCBs
920722-B22	B17, 8'-10'		1130 A P	Soil		X	1	EXTRACT + HOLD FOR POSSIBLE PCB analy
920722-B23	B19, 1.5'-3.5'		1205 A P	Soil		X	1	PCBs
920722-B24	B19, 3.5'-5.5'		1210 A P	Soil		X	1	PCBs
920722-B25	B19, 8'-10'	✓	1215 A P	Soil		X	1	EXTRACT & HOLD FOR POSSIBLE PCB anal
			A P					

Turnaround Time

Laboratory Approval:

Relinquished by: (Signature) Karen E Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**

Dispatched by: (Signature) Karen E Baker	**Date/Time** 7/21/92	**Received for Laboratory by:**	**Date/Time** 7/22/92 9:45
Method of Shipment: Federal Express	**Send Report To:** Drue Bradley-ERM-NE Albany		**Client Phone No.:**

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of $10.00 per container for disposal.

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

000036

FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL PACKAGE TRACKING NUMBER 4214430290

4214430290

1 Date 1-21-92

RECIPIENT'S COPY

From (Your Name) Please Print: Bob Fabian
Your Phone Number (Very Important): (716) 633-5920
Company: ERM-Northeast
Department/Floor No.:
Street Address: 5500 Main St.
City: Williamsville State: N.Y. ZIP Required: 14221

2 To (Recipient's Name) Please Print: Sample Handler
Recipient's Phone Number (Very Important): (518) 434-454
Company: Adirondack Environmental Serv.
Department/Floor:
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 314 North Pearl St.
City: Albany State: N.Y. ZIP Required: 12207

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)
380.048

H If HOLD FOR PICK-UP, Print FEDEX Address Here
Street Address
City State ZIP Required

3 PAYMENT 1 ☐ Bill Sender 2 ☐ Bill Recipient's FedEx Acct. No. 3 ☒ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card
5 ☐ Cash/Check

4 SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning*†)
11 ☒ YOUR PACKAGING
16 ☐ FEDEX LETTER *
12 ☐ FEDEX PAK *
13 ☐ FEDEX BOX
14 ☐ FEDEX TUBE

Standard Overnight (Delivery by next business afternoon*†)
51 ☐ YOUR PACKAGING
56 ☐ FEDEX LETTER *
52 ☐ FEDEX PAK *
53 ☐ FEDEX BOX
54 ☐ FEDEX TUBE

Economy Two-Day (Delivery by second business day*†)
30 ☐ ECONOMY

Government Overnight (Financial or authorized users only)
46 ☐ GOVT LETTER
41 ☐ GOVT PACKAGE

Freight Service (No Extra Large or any package over 150 lbs.)
70 ☐ OVERNIGHT FREIGHT ** (Combined expedition required)
80 ☐ TWO-DAY FREIGHT **
† Delivery commitment may be later in some areas
*Declared Value Limit $100
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5 DELIVERY AND SPECIAL HANDLING (Check services required)

1 ☐ HOLD FOR PICK-UP (Fill in Box H)
2 ☒ DELIVER WEEKDAY
3 DELIVER SATURDAY (Extra charge) ☐ (Not available to all locations)
4 ☐ DANGEROUS GOODS (Extra charge)
5 ☐
6 ☐ DRY ICE ____ Lbs.
7 ☐ OTHER SPECIAL SERVICE
8 ☐
9 ☐ SATURDAY PICK-UP (Extra charge)
10 ☐
11 ☐
12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)

6

PACKAGES	WEIGHT in Pounds Only	YOUR DECLARED VALUE
1	46	
Total	Total	Total
1	46	

DIM SHIPMENT (Chargeable Weight)
☐ ____ lbs.
L ____ x W ____ x H ____ = ____
Received At
1 ☐ Regular Stop 3 ☐ Drop Box
2 ☐ On-Call Stop 4 ☐ BSC 5 ☒ Station

7 Release Signature:
FedEx Emp. No. Date/Time

Emp. No. Date
☐ Cash Received
☐ Return Shipment
☐ Third Party ☐ Chg. To Del. ☐ Chg. To Hold
Street Address
City State Zip
Received By: X
Date/Time Received FedEx Employee Number

Federal Express Use
Base Charges
Declared Value Charge
Other
Other 2
Total Charges

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1031N 773105982

Date 7/29/12

RECIPIENT'S COPY

1 From (Your Name) Please Print	Your Phone Number (Very Important)	2 To (Recipient's Name) Please Print	Recipient's Phone Number (Very Important)
Karen Tucker	716 633-5920	SampleHandler	518 434 4
Company	**Department/Floor No.**	**Company**	**Department/Floor**
ERM-NORTH EAST		Adirondack Environmental Servic	
Street Address		**Exact Street Address** (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.)	
5500 MAIN STREET		314 North Pearl St.	
City / **State** / **ZIP Required**		**City** / **State** / **ZIP Required**	
WILLIAMSVILLE / NY / 14221		Albany / NY / 12207	

YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.)
356.048

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Street Address
City / State / ZIP Required

3 PAYMENT 1 ☐ Bill Sender 2 ☐ Bill Recipient's FedEx Acct. No. 3 ☒ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card
5 ☐ Cash

4 SERVICES (Check only one box) — A01

Priority Overnight Service (Delivery by next business morning†)	Standard Overnight Service (Delivery by same business afternoon†)	DELIVERY AND SPECIAL HANDLING
11 ☒ YOUR PACKAGING	51 ☐	1 ☐ HOLD FOR PICK-UP (Fee applies)
16 ☐ FEDEX LETTER *	56 ☐ FEDEX LETTER *	2 ☒ DELIVER WEEKDAY — A03
12 ☐ FEDEX PAK *	52 ☐ FEDEX PAK *	3 ☐ DELIVER SATURDAY (Extra charge) (Not available to all locations)
13 ☐ FEDEX BOX	53 ☐ FEDEX BOX	4 ☐ DANGEROUS GOODS (Extra Charge) (CSS not available for Dangerous Goods Shipments)
14 ☐ FEDEX TUBE	54 ☐ FEDEX TUBE	5 ☐ CONSTANT SURVEILLANCE SVC. (CSS) (Extra charge) (Release Signature Not Applicable)
Economy Service (formerly Standard Air) (Delivery by second business day†)	**Heavyweight Service** (for Extra Large or any package over 150 lbs.)	6 ☐ DRY ICE ____ Lbs.
30 ☐ ECONOMY SERVICE	70 ☐ HEAVYWEIGHT **	7 ☐ OTHER SPECIAL SERVICE
	80 ☐ DEFERRED HEAVYWEIGHT **	8 ☐
		9 ☐ SATURDAY PICK-UP (Extra charge)
		10 ☐
		11 ☐
		12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)

† Delivery commitment may be later in some areas.
*Declared Value Limit $100.
**Call for delivery schedule

PACKAGES	WEIGHT (In Pounds)	YOUR DECLARED VALUE	OVER SIZE
1	13		
Total 1	Total 13	Total	

DIM SHIPMENT (Heavyweight Services Only) ☐ ____ lbs.

Received At: 1 ☐ Regular Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☐ B.S.C. 5 ☐ D-Station

FedEx Emp. No. / Date/Time

5 Release Signature: ____

Emp. No. / Date
☐ Cash Received
☐ Return Shipment
☐ Third Party ☐ Chg. To Del. ☐ Chg. To Hold
Street Address
City / State / Zip
Received By: X
Date/Time Received / FedEx Employee Number

Federal Express Use
Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges

REVISION DATE 11/99
PART #119501 NCR
FORMAT #014
014
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INTERNAL CHAIN OF CUSTODY

000038

AES SAMPLE # 920722-B15	BOTTLE # 1	CLIENTS SAMP. ID. B16, 3'-4'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/23/92	1255
[signature]	[signature]	return to Kog Dn	7/23/92	1587

AES SAMPLE # 920722-B19	BOTTLE # 1	CLIENTS SAMP. ID. B16, 8'-10'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/23/92	1255
[signature]	[signature]	return to Kog Dn	7/23/92	1552

AES SAMPLE # 920722-B20	BOTTLE # 1	CLIENTS SAMP. ID. B17, 0'-2'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/24/92	820
[signature]	[signature]	return to Kog Dn	7/24/92	1534

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000039

AES SAMPLE # 920722-B21	BOTTLE # 1	CLIENTS SAMP. ID. B17, 2'-4'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Brian	Ellen O'Hehir	to extract	7/24/92	826
Ellen O'Hehir	Brian	return to Log In	7/24/92	1535

AES SAMPLE # 920722-B22	BOTTLE # 1	CLIENTS SAMP. ID. B17, 8'-10'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Brian	Ellen O'Hehir	to extract	7/24/92	827
Ellen O'Hehir	Brian	return to Log In	7/24/92	1535

AES SAMPLE # 920722-B23	BOTTLE # 1	CLIENTS SAMP. ID. B19, 1.5'-3.5'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Brian	Ellen O'Hehir	to extract	7/24/92	827
Ellen O'Hehir	Brian	return to Log In	7/24/92	1535

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000040

AES SAMPLE # 920722-B24	BOTTLE # 1	CLIENTS SAMP. ID. B19, 3.5' - 5.5'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/24/92	828
[signature]	[signature]	return to Rog Dn	7/24/92	1536

AES SAMPLE # 920722-B25	BOTTLE # 1	CLIENTS SAMP. ID. B19, 8'-10'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/24/92	828
[signature]	[signature]	return to Rog Dn	7/24/92	1536

AES SAMPLE # 920722-B26	BOTTLE # 1	CLIENTS SAMP. ID. B20, 1.5' - 3.5'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/24/92	828
[signature]	[signature]	return to Rog Dn	7/24/92	1536

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000041

AES SAMPLE # 920723-B27	BOTTLE # 1	CLIENTS SAMP. ID. B20, 3.5'-5.5'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/24/92	830
[signature]	[signature]	return to log in	7/24/92	1537

AES SAMPLE # 920723-B28	BOTTLE # 1	CLIENTS SAMP. ID. B30, 8'-10'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/24/92	830
[signature]	[signature]	return to log in	7/24/92	1537

AES SAMPLE # 920723-B29	BOTTLE # 1	CLIENTS SAMP. ID. A5 3'-6"		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/24/92	830
[signature]	[signature]	return to log in	7/24/92	1537

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000042

AES SAMPLE # 920734-A01	BOTTLE # 1	CLIENTS SAMP. ID. FB-7		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Lisa M Stefanik	Colleen O'Hehir	to extract	7/24/92	938
Colleen O'Hehir	Lisa M Stefanik	return to Log In	7/24/92	1540

AES SAMPLE # 920734 A02	BOTTLE # 1	CLIENTS SAMP. ID. T-1		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
	cancelled			

AES SAMPLE # 920734 A03	BOTTLE # 1	CLIENTS SAMP. ID. SEW-4		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Lisa M Stefanik	Colleen O'Hehir	to extract	7/24/92	939
Colleen O'Hehir	Lisa M Stefanik	return to log In	7/24/92	1540

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY **000043**

AES SAMPLE # 920724 F04	BOTTLE # (	CLIENTS SAMP. ID. SEW-6		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Lisa M Lapp	Collins O'Helus	to extract	7/24/92	940
Collins O'Helus	Lisa M Lapp	return to Bldg. 1m	7/24/92	1542

AES SAMPLE #	BOTTLE #	CLIENTS SAMP. ID.		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME

AES SAMPLE #	BOTTLE #	CLIENTS SAMP. ID.		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.

00044

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB
ANALYSES

SAMPLE ID	MATRIX	DATE COLLECTE	DATE REC'D AT LAB	DATE EXTRACTE	DATE ANALYZED
A5(3-6)	SOIL	7/21/92	7/22/92	7/24/92	8/5/92
B17(0-2)	SOIL	7/21/92	7/22/92	7/24/92	8/4/92
B17(2-4)	SOIL	7/21/92	7/22/92	7/24/92	8/4/92
B17(8-10)	SOIL	7/21/92	7/22/92	7/24/92	8/4/92
B19(1.5-3.5)	SOIL	7/21/92	7/22/92	7/24/92	8/4/92
B19(3.5-5.5)	SOIL	7/21/92	7/22/92	7/24/92	8/4/92
B19(8-10)	SOIL	7/21/92	7/22/92	7/24/92	8/4/92
B20(1.5-3.5)	SOIL	7/21/92	7/22/92	7/24/92	8/4/92
B20(3.5-5.5)	SOIL	7/21/92	7/22/92	7/24/92	8/5/92
B20(8-10)	SOIL	7/21/92	7/22/92	7/24/92	8/4/92
SEW-4	SOIL	7/23/92	7/24/92	7/24/92	8/5/92
SEW-6	SOIL	7/23/92	7/24/92	7/24/92	8/5/92
DUP6	SOIL	7/21/92	7/22/92	7/23/92	8/4/92
FB-7	WATER	7/23/92	7/24/92	7/24/92	8/3/92

DATA VALIDATION REVIEW OF SOIL SAMPLE ANALYSES
318 URBAN STREET SITE INVESTIGATION
ERM-NORTHEAST PROJECT NUMBER 380.048
ADIRONDACK ENVIRONMENTAL SERVICES CASE NO. E16000
SDG: "SAMPLES TAKEN OFF EXTRACT AND HOLD"

Deliverables:

The above referenced Data Summary Package and Sample Data Package contain all required deliverables as stipulated under the 1989 New York State Analytical Services Protocol (ASP) Superfund category for all Target Compound List (TCL) PCB aroclors. PCB analyses were performed on several samples using an amended pesticide/PCB analytical method previously approved by the NYSDEC.

The three samples contained in this package were originally submitted to the laboratory with samples that are contained in other SDGs. These three samples were extracted at the same time as the other samples, and therefore share the same MS/MSD/MSB and method blanks, but they were held for analysis pending the results of samples obtained from the depth intervals immediately preceding them in the borehole. The data for the associated QC samples is contained in the other SDGs but will be discussed in this review as appropriate. The same is true for associated field blanks. The samples and the SDGs that contain the associated QC data are as follows:

B-6 (8-10): Associated with SDG B-4 (8-10)
B-10 (8-10):Associated with SDG B-4 (8-10)
B-8 (8-10): Associated with SDG B-8 (0-2)

This validation report pertains to the following samples:

Samples	Method Blanks
B-6(8-10)	PBLKE5
B-10(8-10)	PBLK6
B-8(8-10)	

The following items/ criteria were reviewed for each fraction, where appropriate:

- Case Narrative
- Deliverable Requirements
- Holding Times
- Initial calibration data

- Continuing calibration data
- Procedural blank summary and data
- Field blank results
- PCB standards summary and data
- Surrogate recoveries, retention times and summary
- MS/MSD recoveries and summary
- Matrix spike blank recoveries and summary
- Chromatograms
- Data system printouts
- Qualitative and quantitative compound identification
- Organic analysis data sheets (Form I)

The items listed above were in compliance, both technically and contractually, with NYSDEC ASP QC criteria (September 1989) with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

- All samples, blanks and QC samples were extracted for analysis within 5 days of receipt at the laboratory and extracts were all analyzed within forty days of extraction per ASP QC criteria (see sample preparation and analysis summary form attached).

- GC/ECD initial calibration factors and retention time (RT) windows were correctly calculated and reported.

- All continuing calibration standards exhibited calibration factors less than 15% different from the initial factors per ASP criteria for quantitation columns.

- Procedural blanks were analyzed with the proper frequency (one per 20 samples per matrix) and exhibited no positive results for pesticide/PCB or PCB-only analyses. All chromatograms exhibited stable baselines. Method blank summary forms and Form I's are attached.

- Field blank FB-6 included in SDG B-8(0-2) and associated with B-8(8-10) was contaminant-free. Field blank FB-5, included in SDG B-4(8-10) and associated with B-6(8-10) and B-10(8-10) contained 1.3 $\mu g/\ell$ of aroclor-1260. Because the concentration of aroclor-1260 in the samples is orders of magnitude higher than in the field blank, no qualification of sample data is required.

- The surrogate was diluted out of sample B-8(8-10) due to a 100 X dilution factor. Sample B-10(8-10) had 45% surrogate recovery on the DB-5 quantitation column, but acceptable recovery on the DB-1701 confirmation column. PBLKE5 had 159% recovery on the DB-5 column, but acceptable recovery on the DB-1701 column. No action taken to qualify sample data

based on these surrogate results. Surrogate QC limits = 50-150%. Surrogate recovery summary forms are attached.

- Sample B-8(8-10) is associated with B-13(2-4) MS/MSD from SDG B-8(0-2) which had acceptable recoveries and RPDs. B-6(8-10) and B-10(8-10) are associated with B-11(2-4) MS/MSD which had low aroclor-1260 recovery in the MS on both columns (55% on DB-1701, 56% on DB-5. Limits = 60-160%). The MSD had acceptable aroclor-1260 recovery, therefore no action taken to qualify sample results based on MS/MSD data.

- MSB6 (associated with B-8(8-10)) spike recoveries were within the ASP QC limits of 75-125%. MSBE5, associated with B-6(8-10) and B-10(8-10) had high recovery of aroclor-1016 (155%). No aroclor-1016 was detected in any sample. No qualification of sample results due to MSBE5 data.

- All gas chromatographic data and system printouts are acceptable. No negative area was experienced by any sample.

- Organic analysis data sheets (Form I) for all analyses are attached. All data is valid and usable as reported. Positive sample results (prior to validation) are as follows:

Samples	Aroclor (concentration in μg/kg)
B-6(8-10)	270J
B-8(8-10)	160000
B-10(8-10)	170J

Note - J qualifier indicates result is less than the quantitation limit.

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B6(8-10)

Lab Name: AES Contract: 000007

Lab Code: AES Case No.: E16000 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: B6(8-10)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 21 dec. _____ Date Extracted: 7/22/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/27/92

GPC Cleanup: (Y/N) N pH: 8.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	630	U
11104-28-2	Arochlor-1221	630	U
11141-16-5	Arochlor-1232	630	U
53469-21-9	Arochlor-1242	630	U
12672-29-6	Arochlor-1248	630	U
11097-69-1	Arochlor-1254	630	U
11096-82-5	Arochlor-1260	270	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B8(8-10)

Lab Name: AES Contract: OCC008

Lab Code: AES Case No.: E16000 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: B8(8-10)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 19 dec._____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/28/92

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	62000	U
11104-28-2	Arochlor-1221	62000	U
11141-16-5	Arochlor-1232	62000	U
53469-21-9	Arochlor-1242	62000	U
12672-29-6	Arochlor-1248	62000	U
11097-69-1	Arochlor-1254	62000	U
11096-82-5	Arochlor-1260	62000	U
		160000	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B10(8-10)

Lab Name: AES Contract: 000009

Lab Code: AES Case No.: E16000 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: B10(8-10)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 20 dec. _____ Date Extracted: 7/22/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/21/92

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	620.	U
11104-28-2	Arochlor-1221	620.	U
11141-16-5	Arochlor-1232	620.	U
53469-21-9	Arochlor-1242	620.	U
12672-29-6	Arochlor-1248	620.	U
11097-69-1	Arochlor-1254	620.	U
11096-82-5	Arochlor-1260	170.	J

Adirondack
Environmental Services, Inc.

314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

A full service analytical research laboratory offering solutions to environmental concerns

TITLE PAGE

Over the period of July 21, 1992, through July 22, 1992, three (3) soil samples were received by Adirondack Environmental Services, Inc. from ERM-Northeast, Inc. in association with the ERM-Buffalo Sweeney Steel Project. Samples were originally received as "EXTRACT and HOLD", but were taken off of hold on 8/27/92 by Mr. Dennis Sutton (ERM) (see telephone correspondence). These samples were analyzed for PCB constituents using a modification of method 8080 as previously described in accordance with the 1989 NYSDEC Analytical Services Protocol (ASP). The project was completed on September 30, 1992.

Frank Lindsay
Laboratory Director

Date: Oct 1, 1992

Adirondack Environmental Services, Inc.
314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

000001

A full service analytical research laboratory offering solutions to environmental concerns

CASE NARRATIVE

Client : ERM - Northeast, Inc.

Case : E16000

SDG : SAMPLES TAKEN OFF "EXTRACT AND HOLD"

Samples : B6(8-10) - FROM SDG: B4(8-10)
B10(8-10) - FROM SDG: B4(8-10)
B8(8-10) - FROM SDG: B8(0-2)

Note:
Samples in this case were assessed for PCB's only using a modification of method 8080 as discussed previously. See Chain of Custody (COC).

PCB

Samples listed above were taken off hold and were originally extracted with their respective SDG's as noted above. Please refer to corresponding QA/QC informatation (MS/MSD/MSB) associated with these samples in these referenced SDG's.

Following this narrative, please find corresponding peaks used for PCB identification.

Sample B8(8-10) was diluted 100-fold prior to analysis due to suspected (screening) and confirmed high levels of target constituents. As a result, the corresponding surrogate on the primary and confirmation columns may have been "dilulted out" (see forms 2 and 8 in the data package).

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Frank Sweeney
Laboratory Director

Date: Oct 1, 1992

Adirondack Environmental Services, Inc.
314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

000002

A full service analytical research laboratory offering solutions to environmental concerns

PESTICIDE/PCB DATA INFORMATION SHEET

Client: ERM - NE **Case No.: E16000**

EXTRACTION SUMMARY:

Matrix = SOIL

Level = LOW

Final volume after concentration (ml) = 50

Blank extraction amount (g or ml) = 10 G

Dual Column Analysis - 2ul on each column

Adirondack Environmental Services, Inc.
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Albany, New York 12207
518-434-4546/434-0891 FAX

000003

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PESTICIDE/PCB DATA INFORMATION SHEET

8/3/92 ANALYSIS Client: ERM Case No.: E16000

STD	CONC (ppm)	PEAKS USED FOR QUANT/CONF (RT)	DB5	DB1701
AR1016------	1.0	---------	2.79	4.29
			3.11	4.83
			3.65	5.40
			3.87	5.76
			4.03	6.02
AR1260------	0.4	_____	8.99	12.11
			9.32	12.37
			9.73	12.87
			10.21	13.20
			11.66	15.00
AR1221------	1.0	---------	1.87	2.93
			2.10	3.37
AR1232------	1.0	---------	3.66	5.40
			3.87	5.76
			4.03	6.02
			4.55	6.39
			4.95	7.03
			5.20	7.30
AR1242------	1.0	---------	3.67	5.41
			3.87	5.76
			4.03	6.02
			4.55	6.39
			4.95	7.03
			5.20	7.30
AR1248------	1.0	---------	4.57	7.04
			4.94	7.31
			5.20	7.83
			5.96	8.15
			6.43	8.78
AR1254------	1.0	---------	6.00	8.17
			6.63	8.75
			8.31	10.00
			9.00	10.67
			9.73	12.11

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PESTICIDE/PCB DATA INFORMATION SHEET

8/27/92 ANALYSIS Client: ERM Case No.: E16000

STD	CONC (ppm)	PEAKS USED FOR QUANT/CONF (RT)	DB5	DB1701
AR1016------	0.5	---------	3.68	5.41
			3.89	5.77
			4.06	6.03
			4.58	6.39
			4.97	7.04
			5.23	
AR1260------	0.5	_____	8.98	12.09
			9.31	12.36
			9.73	13.19
			10.22	14.01
			11.65	14.98
AR1221------	0.5	---------	1.87	2.93
			2.10	3.36
AR1232------	0.5	---------	3.65	5.39
			3.86	5.74
			4.02	6.01
			4.54	6.37
			4.94	7.02
			5.18	
AR1242------	0.5	---------	3.65	5.39
			3.87	5.75
			4.03	6.01
			4.54	4.28
			4.94	4.84
			5.19	
AR1248------	0.5	---------	4.54	7.02
			4.92	7.20
			5.19	7.81
			5.94	8.12
			6.41	8.75
AR1254------	0.5	---------	7.32	10.46
			7.59	10.65
			8.29	11.12
			8.99	11.59
			9.71	12.08

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Client: ERM - NE Case No.: E16000

SPIKE SUMMARY:

Average DCB area used for calculations =
8/3/92 Analysis: 239300(DB1701); 335363(DB5)
8/27/92 Analysis: 958267(DB1701); 1911528(DB5)

approximate DCB RT
DB5 column - 16.02
DB1701 column - 17.96

SAMPLE CALCULATIONS:

Surrogate recovery:

Sample Name - B6(8-10) (DB5)

$$\frac{732448\ /(0.1)}{1911528/(0.2)} \times 100 = 77\%$$

0.1 UG ADDED IN SAMPLE; 0.2 UG ADDED IN STD

Detected Compound :

Sample Name - B8(8-10) Compound - AR1260

$$\frac{\text{sample area x fv x conc std (ppm) x DF}}{\text{standard area x kg ext x decimal dry}} = [\ ]$$

$$\frac{631315 \times 50 \times 0.5 \times 100}{1185188 \times 0.01 \times 0.81} = \text{ppb}$$

160000 ug/kg

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: AES Contract: 000010

Lab Code: AES Case No.: E16000 SAS No.: SDG No.:

Level: (low/med) Low

DB 5

	EPA SAMPLE NO.	S1 (DCB)#	OTHER
1	PBLK6	138	
2	B6 (8-10)	77	
3	B10 (8-10)	45 *	
4	B8 (8-10)	D	
5	PBLKE5	159 *	
6			
7			
8			
9			
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ADVISORY QC LIMITS (50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: AES Contract: 000011

Lab Code: AES Case No.: E16000 SAS No.: SDG No.:

Level:(low/med) Low

DB 1701

	EPA SAMPLE NO.	S1 (DCB)#	OTHER
1	PB1K6	146	
2	B6(8-10)	82	
3	~~B10(8-10)~~	51	
4	~~B8(8-10)~~	D	
5	PBLKE5	132	
6			
7			
8			
9			
10			
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30			

ADVISORY QC LIMITS (50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

000047

Lab Name: AES Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix Spike - EPA Sample No.: B13(2-4) Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
AR1260	2468		2237	91	60-160
AR1016	2740		2277	83	60-160

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
AR1260	2468	2477	100	9	50	60-160
AR1016	2740	2586	94	13	50	60-160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: See case narrative.

3F

SOIL PESTICIDE MATRIX SPIKE BLANK RECOVERY

Lab Name: AES Contract: 000048

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix Spike - EPA Sample No.: MSB6 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
AR1260	1974	0	1694	86	60-160
AR1016	2194	0	2465	112	60-160

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: See case narrative.

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES,INC Contract: CCC023

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix Spike - EPA Sample No.: B11(2-4) Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Arochlor-1016	3304.22	.00	2512.59	76	60-160
Arochlor-1260	2972.89	362.35	2019.89	56 *	60-160

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arochlor-1016	3304.22	2148.69	65	16	50	60-160
Arochlor-1260	2972.89	2449.59	70	23	50	60-160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 3 out of 4 outside limits

COMMENTS:

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES,INC Contract: 00024

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix Spike - EPA Sample No.: B11(2-4) Level:(low/med) LOW

conf.

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Arochlor-1016	3304.22	.00	2798.70	85	60-160
Arochlor-1260	2972.89	489.72	2131.43	55 *	60-160

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arochlor-1016	3304.22	2822.61	85	0.4	50	60-160
Arochlor-1260	2972.89	2499.37	68	20	50	60-160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 3 out of 4 outside limits

COMMENTS:

SOIL PCB MATRIX SPIKE BLANK RECOVERY 000025

Lab Name: AES,INC Contract:
Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)
EPA Sample No.: PBLK MSBE5 Matrix: SOIL

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MSB CONCENTRATION (ug/Kg)	% REC.	QC LIMITS REC.
AROCLOR-1016	2194	0	3400	155*	75-125
AROCLOR-1260	1974	0	1900	96	75-125

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: AES Contract: 000012

Lab Code: AES Case No.: E16000 SAS No.: SDG No.:

Lab Sample ID: PBLK6 Lab File ID: PBLK6

Matrix: (soil/water) SOIL Level:(low/med) LOW

Date Extracted: 7/23/92 Extraction: (SepF/Cont/Sonc) SON

Date Analyzed (1): 8/27/92 Date Analyzed (2): 8/27/92

Time Analyzed (1): 21:53 Time Analyzed (2): 21:49

Instrument ID (1): VAR2A Instrument ID (2): VAR2A

GC Column ID (1): DB5 GC Column ID (2): DB1701

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	B8 (8-10)	B8(8-10)	8/28/92	8/28/92
2				
3				
4				
5				
6				
7				
8				
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26				

Comments:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

P8LK6

Lab Name: AES,INC Contract

Lab Code: AES Case No.: E16000 SAS No. 000013 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: P8LK6

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec.____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/27/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	500.	U
11104-28-2	Arochlor-1221	500.	U
11141-16-5	Arochlor-1232	500.	U
53469-21-9	Arochlor-1242	500.	U
12672-29-6	Arochlor-1248	500.	U
11097-69-1	Arochlor-1254	500.	U
11096-82-5	Arochlor-1260	500.	U

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: AES,INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: 000014 SDG No.: B4(8-10)

Lab Sample ID: PBLKES Lab File ID:

Matrix: (soil/water) SOIL Level:(low/med) LOW

Date Extracted: 7/22/92 Extraction: (SepF/Cont/Sonc) S

Date Analyzed (1): 8/ 3/92 Date Analyzed (2): 8/ 3/92

Time Analyzed (1): 18:24 Time Analyzed (2): 18:22

Instrument ID (1): VAR2A Instrument ID (2): VAR2A

GC Column ID (1): DB5 GC Column ID (2): DB1701

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	B6(8-10)	B6(8-10)	8/27/92	8/27/92
2	B10(8-10)	B10(8-10)	8/27/92	8/27/92

Comments:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKE5

Lab Name: AES,INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: 000015 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: PBLKE5

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec._____ Date Extracted: 7/22/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 3/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	500.	U
11104-28-2	Arochlor-1221	500.	U
11141-16-5	Arochlor-1232	500.	U
53469-21-9	Arochlor-1242	500.	U
12672-29-6	Arochlor-1248	500.	U
11097-69-1	Arochlor-1254	500.	U
11096-82-5	Arochlor-1260	500.	U

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CASE NARRATIVE

Client : ERM - Northeast, Inc.

Case : E16000

SDG : SAMPLES TAKEN OFF "EXTRACT AND HOLD"

Samples : B6(8-10) - FROM SDG: B4(8-10)
B10(8-10) - FROM SDG: B4(8-10)
B8(8-10) - FROM SDG: B8(0-2)

Note:
Samples in this case were assessed for PCB's only using a modification of method 8080 as discussed previously. See Chain of Custody (COC).

PCB

Samples listed above were taken off hold and were originally extracted with their respective SDG's as noted above. Please refer to corresponding QA/QC informatation (MS/MSD/MSB) associated with these samples in these referenced SDG's.

Following this narrative, please find corresponding peaks used for PCB identification.

Sample B8(8-10) was diluted 100-fold prior to analysis due to suspected (screening) and confirmed high levels of target constituents. As a result, the corresponding surrogate on the primary and confirmation columns may have been "dilulted out" (see forms 2 and 8 in the data package).

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Frank Sweden
Laboratory Director

Date: Oct 1, 1992

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CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM-Northeast	General Electric 318 Urban St	Karen Baker
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Albany	380.048	Karen E Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
920721-B01	DUP-5	7/20/92	A/P	Soil		X	1	PCBs
B02	FB-5		1330 A/P	Water		X	1	PCBs
B03	B1, 8'-10'		1050 A/P	Soil		X	1	PCBs
B04	B2, 8'-10'		1435 A/P	"		X	1	PCBs
B05	B3, 8'-10'		0855 A/P	"		X	1	PCBs
B06	B4, 8'-10'		1130 A/P	"		X	1	PCBs
B07	B5, 8'-10'		1205 A/P	"		X	1	PCBs
B09	B6, 0'-2'		1615 A/P	"		X	1	PCBs
B08	B6, 2'-4'		1620 A/P	"		X	1	PCBs
B10	B6, 8'-10'		1630 A/P	"		X	1	EXTRACT + HOLD FOR POSSIBLE PCB analy
B11	B7, 0'-2'		1635 A/P	"		X	1	PCBs
B12	B7, 2'-4'		1638 A/P	"		X	1	PCBs
B13	B7, 8'-10'	↓	1645 A/P	↓		X	1	EXTRACT + HOLD

Turnaround Time

Laboratory Approval:

Relinquished by: (Signature) Karen E Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**

Dispatched by: (Signature) Karen E Baker	**Date/Time**	**Received for Laboratory by:**	**Date/Time** 7/21/92 910
Method of Shipment: Federal Express	**Send Report To:** Duke Bradley - ERM-NE Albany		**Client Phone No.:**

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CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM-Northeast	General Electric 318 Urban St.	Karen Baker
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Albany	380.048	Karen E S Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
B14	B9, 0'-2'	7/20/92	1545 A/P	Soil		X	1	PCBs
B15	B9, 2'-4'		1550 A/P			X	1	PCBs
B16	B9, 8'-10'		1600 A/P			X	1	EXTRACT & HOLD PCBs
B17	B10, 0'-2'		1525 A/P			X	1	PCBs
B18	B10, 4'-6'		1535 A/P			X	1	PCBs
B19	B10, 8'-10'		1540 A/P			X	1	EXTRACT + HOLD
B20	B11, 0'-2'		1500 A/P			X	1	PCBs
B21	B11, 2'-4' +ms/MSD		1503 A/P			X	2	2- PCBs (1 is ms/msd)
B22	B11, 8'-10'	↓	1510 A/P	↓		X	1	EXTRACT + HOLD
			A/P					
			A/P					
			A/P					
			A/P					

Turnaround Time

Laboratory Approval:

Relinquished by: (Signature) Karen E S Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**

Dispatched by: (Signature) Karen E S Baker	**Date/Time** 7/20/92	**Received for Laboratory by:** C Ling Lord	**Date/Time** 7/21/92 9:10
Method of Shipment: Federal Express	**Send Report To:** Dave Bradley - ERM-NE Albany		**Client Phone No.:**

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CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM-Northeast	General Electric 318 Urban St	Karen Baker
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Albany	380.048	Karen E. Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.		SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
920722-1301	FB-6	7/21/92	0945	A/P	Water		X	1	PCBs
920722-1302	DUP-6			A/P	Soil		X	1	PCBs
920722-1303	B8, 0'-2'		1010	A/P	Soil		X	1	PCBs
920722-1304	B8, 8'-10'		1020	A/P	Soil		X	1	EXTRACT + HOLD FOR POSSIBLE PCB ana
920722-1305	B12, 0'-2'		1045	A/P	Soil		X	1	PCBs
920722-1306	B12, 2'-4'		1050	A/P	Soil		X	1	PCBs
920722-1307	B12, 8'-10'		1100	A/P	Soil		X	1	EXTRACT + HOLD FOR POSSIBLE PCB analys
920722-1308	B13, 0'-2'		0820	A/P	Soil		X	1	PCBs
920722-1309	B13, 2'-4' (+MS/MSD)		0825	A/P	Soil		X	2	2-PCBs (1 is MS/MSD)
920722-1310	B13, 8'-10'		0835	A/P	Soil		X	1	EXTRACT + HOLD - DO NOT
920722-1311	B14, 0'-2'		0850	A/P	Soil		X	1	PCBs
920722-1312	B14, 2'-4'		0855	A/P	Soil		X	1	PCBs
920722-1313	B14, 8'-10'	↓	0900	A/P	Soil		X	1	EXTRACT + HOLD FOR POSSIBLE PCB analy

Turnaround Time

Laboratory Approval:

Relinquished by: (Signature) Karen E. Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**

Dispatched by: (Signature) Karen E. Baker	**Date/Time** 7/21/92	**Received for Laboratory by:**	**Date/Time** 7/22/92 9:45
Method of Shipment: Federal Express	**Send Report To:** Dave Bradley, ERM-NE Albany		**Client Phone No.:**

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Your Phone Number (Very Important): (716)633-5920

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City: WILLIAMSVILLE State: NY ZIP Required: 14221

To (Recipient's Name) Please Print: Sample Handler

Recipient's Phone Number (We): 518 434

Company: Adirondack Environmental

Department:

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes): 314 North Pearl St

City: Albany State: NY ZIP Required: 12207

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- 14 ☐ FEDEX TUBE

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- 51 ☐
- 56 ☐ FEDEX LETTER *
- 52 ☐ FEDEX PAK *
- 53 ☐ FEDEX BOX
- 54 ☐ FEDEX TUBE

Economy Service (formerly Standard Air) (Delivery by second business day†)
- 30 ☐ ECONOMY SERVICE

Heavyweight Service (for Extra Large or any package over 150 lbs.)
- 70 ☐ HEAVYWEIGHT **
- 80 ☐ DEFERRED HEAVYWEIGHT **

†Delivery commitment may be later in some areas. *Declared Value Limit $100. **Call for delivery schedule.

5 DELIVERY AND SPECIAL HANDLING
- 1 ☐ HOLD FOR PICK-UP (Fill in Box H)
- 2 ☒ DELIVER WEEKDAY
- 3 ☐ DELIVER SATURDAY (Extra charge) (Not available to all locations)
- 4 ☐ DANGEROUS GOODS (Extra charge) (CSS not available for Dangerous Goods Shipments)
- 5 ☐ CONSTANT SURVEILLANCE SVC. (CSS) (Extra charge) (Release Signature Not Applicable)
- 6 ☐ DRY ICE ____ Lbs.
- 7 ☐ OTHER SPECIAL SERVICE
- 8 ☐
- 9 ☐ SATURDAY PICK-UP (Extra charge)
- 10 ☐
- 11 ☐
- 12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)

PACKAGES	WEIGHT in Pounds Only	YOUR DECLARED VALUE (Required)	EVENT NOTIFY
1	35		
Total 1	Total 35	Total	

DIM SHIPMENT (Heavyweight Services Only) ☐ ____ lbs.

Received At: 1 ☐ Regular Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☐ B.S.C. 5 ☒ Station

FedEx Emp. No. Date/Time

Emp. No. Date

☐ Cash Received ☐ Return Shipment ☐ Third Party ☐ Chg. To Del. ☐ Chg. To Hold

Street Address

City State Zip

Received By: X

Date/Time Received FedEx Employee Number

5 Release Signature

Federal Express Base Charges Declared Value C Other 1 Other 2 Total Charges

REVISION DATE 11/95 PART #119501 NC FORMAT #014

014

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000021

FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER
4214430290

4214430290

Date
1 11-21-92

RECIPIENT'S COPY

From (Your Name) Please Print
Bob Fabian

Your Phone Number (Very Important)
(716) 633-5920

Company
ERM-Northeast

Department/Floor No.

Street Address
5500 Main St.

City
Williamsville

State
N.Y.

ZIP Required
14221

2 To (Recipient's Name) Please Print
Sample Handler

Recipient's Phone Number (Very Important)
(518) 434-45

Company
Adirondack Environmental Serv.

Department/Floor

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.)
314 North Pearl St.

City
Albany

State
N.Y.

ZIP Required
12207

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)
380.048

H If HOLD FOR PICK-UP, Print FEDEX Address Here
Street Address

City

State

ZIP Required

3 PAYMENT 1 ☐ Bill Sender 2 ☐ Bill Recipient's FedEx Acct. No. 3 ☒ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card
5 ☐ Cash/Check

4 SERVICES (Check only one box)

Priority Overnight	Standard Overnight
11 ☒ YOUR PACKAGING	51 ☐ YOUR PACKAGING
16 ☐ FEDEX LETTER *	56 ☐ FEDEX LETTER *
12 ☐ FEDEX PAK *	52 ☐ FEDEX PAK *
13 ☐ FEDEX BOX	53 ☐ FEDEX BOX
14 ☐ FEDEX TUBE	54 ☐ FEDEX TUBE
Economy Two-Day	**Government Overnight**
30 ☐ ECONOMY	46 ☐ GOVT LETTER
	41 ☐ GOVT PACKAGE

Freight Service
70 ☐ OVERNIGHT FREIGHT **
80 ☐ TWO-DAY FREIGHT **
†Delivery commitment may be later in some areas.
*Declared Value Limit $100.
**Call for delivery schedule.

5 DELIVERY AND SPECIAL HANDLING (Check services required)

1 ☐ HOLD FOR PICK-UP
2 ☒ DELIVER WEEKDAY
3 DELIVER SATURDAY ☐
4 ☐ DANGEROUS GOODS
5 ☐
6 ☐ DRY ICE ____ Lbs.
7 ☐ OTHER SPECIAL SERVICE
8 ☐
9 ☐ SATURDAY PICK-UP
10 ☐
11 ☐
12 ☐ HOLIDAY DELIVERY

6

PACKAGES	WEIGHT	YOUR DECLARED VALUE
1	46	
Total	Total	Total
	146	

DIM SHIPMENT (Chargeable Weight)
☐ ____ lbs.
L x W x H =

Received At
1 ☐ Regular Stop
2 ☐ On-Call Stop
3 ☐ Drop Box
4 ☐ BSC
5 ☒ Station

7
Release Signature:

FecEx Emp. No.

Date/Time

Emp. No. Date

☐ Cash Received
☐ Return Shipment
☐ Third Party ☐ Chg. To Del. ☐ Chg. To Hold

Street Address

City State Zip

Received By:
X

Date/Time Received FedEx Employee Number

Federal Express	
Base Charges	
Declared Value Che	
Other 1	
Other 2	
Total Charges	

REVISION DATE 6/91
PART #137205 GBFE
FORMAT #099

099

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000022

FAX TRANSMITTAL

DATE: 8/27/92

NO. OF SHEETS: 1 (INCLUDING COVER SHEET)

FROM: Dennis Sullivan

ERM-NORTHEAST, INC.
5500 MAIN STREET
WILLIAMSVILLE, NY 14221
(716) 633-5920
FAX #(716) 633-5924

PROJECT NAME & PROJECT NO.: 318 Urban Street, 380.048

TO : Frank Stadleris

CO/DIV.: Alexander Labs

Albany

FAX NO.: 1-518-434-0891

COMMENTS/SPECIAL INSTRUCTIONS:

Analyze the following samples for PCB content:

B-6 (8'-10')	920721-B10
B-10 (8'-10')	920721-B19
B-8 (8'-10')	920722-B04

INTERNAL CHAIN OF CUSTODY 000023

AES SAMPLE # 920721-B10	BOTTLE # 1	CLIENTS SAMP. ID. B6, 0-10		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	1035
[signature]	[signature]	return to hcg Dn	7/22/92	1049

AES SAMPLE # 920721-B11	BOTTLE # 1	CLIENTS SAMP. ID. B7, 0-2		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	1035
[signature]	[signature]	return to hcg Dn	7/22/92	1049

AES SAMPLE # 920721-B12	BOTTLE # 1	CLIENTS SAMP. ID. B7, 2-4		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	1035
[signature]	[signature]	return to hcg Dn	7/23/92	1049

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000024

AES SAMPLE # 920722-B04 RELINQUISHED BY:	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. B8, 3'-5' REASON FOR TRANSFER	DATE	TIME
Kristian L	Colleen O'Hehir	to extract	7/23/92	1249
Colleen O'Hehir	Kristian L	return to log In	7/23/92	1545
Christine Mugaard	Cathy Cherette	To Retract	7/27/92	09:00
Cathy Cherette	Christine Mugaard	Returned to Login	7/27/92	12:20

AES SAMPLE # 920722-B05 RELINQUISHED BY:	BOTTLE # 11 RECEIVED BY	CLIENTS SAMP. ID. B12 0-2' REASON FOR TRANSFER	DATE	TIME
Kristian L	Colleen O'Hehir	to extract	7/23/92	1249
Colleen O'Hehir	Kristian L	return to log In	7/23/92	1545
Christine Mugaard	Cathy Cherette	To Retract	7/27/92	09:00
Cathy Cherette	Christine Mugaard	returned to Login	7/27/92	12:20

AES SAMPLE # 920722-B06 RELINQUISHED BY:	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. B12 2'-4' REASON FOR TRANSFER	DATE	TIME
Kristian L	Colleen O'Hehir	to extract	7/23/92	1249
Colleen O'Hehir	Kristian L	return to log In	7/23/92	1545

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY **000025**

AES SAMPLE # 920721-B19	BOTTLE # 1	CLIENTS SAMP. ID. B10, B-10		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	10:39
[signature]	[signature]	return to log in	7/22/92	16:58

AES SAMPLE # 920721-B20	BOTTLE # 1	CLIENTS SAMP. ID. B11, B-2		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	10:39
[signature]	[signature]	return to log in	7/22/92	16:58

AES SAMPLE #	BOTTLE #	CLIENTS SAMP. ID.		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB
ANALYSES

SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	DATE EXTRACTED	DATE ANALYZED
B6(8-10)	SOIL	7/20/92	7/21/92	7/22/92	8/27/92
B8(8-10)	SOIL	7/21/92	7/22/92	7/23/92	8/28/92
B10(8-10)	SOIL	7/20/92	7/21/92	7/22/92	8/27/92

PCB DATA VALIDATION OF SOIL SAMPLE ANALYSES
318 URBAN STREET SITE OFF PROPERTY SAMPLING
ERM-NORTHEAST PROJECT NUMBER 380.048
ADIRONDACK ENVIRONMENTAL SERVICES CASE NO. E16000, SDG NO. B-1 (8-10)

Deliverables:

The above referenced Data Summary Package and Sample Data Package contain all required deliverables as stipulated under the 1989 New York State Analytical Services Protocol (ASP) Superfund category for all PCB analyses. PCB analyses were performed by an amended pesticide/PCB analytical method previously approved by the NYSDEC. This validation report pertains to the following samples:

Samples		QC Samples
B1 (8-10)	B23 (0-2)	B1 (8-10) MS
B2 (8-10)	B23 (2-4)	B1 (8-10) MSD
B3 (8-10)	B24 (0-2)	FB-4
B21 (1.5-3.5)	B24 (2-4)	
B21 (5-7)	B24 (2-4)	
B22 (0-2)	DUP-4	
B22 (2-4)		

The following items/criteria were reviewed:

- Case Narrative
- Deliverable Requirements
- Holding times
- GC/MS Tuning (confirmational analysis)
- Initial GC calibration data
- Continuing GC calibration data
- PCB standards summary and data
- Procedural blank summary and data
- Field blank data
- Surrogate recoveries, retention times, and summary
- MS/MSD recoveries and summary
- Method blank spike recoveries and summary
- Field duplicate
- Organic Analysis Data Sheets (Form I)
- GC/ECD Chromatograms and data system printouts

The above items were in compliance with NYSDEC QC criteria with the exceptions discussed in the following text. The data have been validated according to the above procedures and qualified as described on the attached definitions list.

- All samples were extracted for analysis within the five day holding time and extracts were all analyzed within forty days of extraction per ASP QC criteria. The table below details holding time information.

Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
B1 (8-10)	Soil	7/20/92	7/21/92	7/21/92	8/1/92
B2 (8-10)	Soil	7/20/92	7/21/92	7/21/92	8/1/92
B3 (8-10)	Soil	7/20/92	7/21/92	7/21/92	8/1/92
B21 (1.5-3.5)	Soil	7/17/92	7/20/92	7/21/92	7/31/92
B21 (5-7)	Soil	7/17/92	7/20/92	7/21/92	7/31/92
B22 (0-2)	Soil	7/17/92	7/20/92	7/21/92	8/1/92
B22 (2-4)	Soil	7/17/92	7/20/92	7/21/92	8/1/92
B23 (0-2)	Soil	7/17/92	7/20/92	7/21/92	8/1/92
B23 (2-4)	Soil	7/17/92	7/20/92	7/21/92	8/1/92
B24 (0-2)	Soil	7/17/92	7/20/92	7/21/92	8/1/92
B24 (2-4)	Soil	7/17/92	7/20/92	7/21/92	8/1/92
DUP-4	Soil	7/17/92	7/20/92	7/21/92	7/31/92
FB-4	Water	7/17/92	7/20/92	7/22/92	7/30/92

- No GC/MC confirmational analyses were required.
- GC/ECD initial calibration factors and retention time (RT) windows were correctly calculated and reported. Initial and continuing calibration standards for Aroclor 1221 only feature two peaks instead of the required three. However, since no Aroclor 1221 was detected in any samples, no qualification to the data is required.
- All continuing calibration standards exhibited calibration factors less than 15% different from the initial factors per ASP criteria. All analyte peaks fell in the proper RT windows.
- Procedural blanks were analyzed with the proper frequency (one per 20 samples per matrix) and exhibited no positive results for PCB analyses. All chromatograms exhibited stable baselines.
- One aqueous field blank submitted for PCB analysis with these soil samples (FB-4) exhibited no positive results for PCB analyses.

- All sample, blank, and MS/MSD surrogate recoveries (PCB) were within the QC limits of 50-150%. All surrogate peaks exhibited less than 0.3% difference between their retention times and that of the initial calibration surrogate retention time, per ASP criteria. Surrogate summary forms are attached.

- All MS/MSD spike recoveries were within the laboratory QC limits of 60-160% and the relative percent difference between MS and MSD results were less than the laboratory QC limits of 50%. MS/MSD summary forms are attached. MS/MSD results for Aroclor 1016 were originally masked by the presence of a large amount of sulfur in B1 (8-10). The laboratory chose to sulfur clean the sample along with an Aroclor 1016 standard and then calculate the spike recovery against the cleaned standard rather than the initial calibration. For this reason Aroclor 1016 spike recoveries are considered estimated.

- Method blank spike recoveries fell within the ASP QC limits of 75 to 125%. Method blank spike summary forms are attached.

- Sample DUP-4 is a field duplicate of sample B-22 (8-10). No comparison of the sample results can be made however since B22 (8-10) was submitted to the laboratory to be extracted and held for analysis at a future date. No PCB compounds were detected in DUP-4.

- Organic analysis data sheets (Form I) for sample and QC analyses are attached. All data are valid and usable as presented on these sheets.

- Four samples, B21 (1.5-3.5), B21 (5-7), B24 (0-2), B24 (2-4), exhibited significant interference in the early part of the chromatogram arising from the presence of sulfur compounds. These samples were sulfur cleaned along with an Aroclor 1016/1260 standard and re-analyzed. All four analyses confirmed the absence of PCBs in the sulfur cleaned samples.

SUMMARY OF PCB RESULTS
318 URBAN STREET SITE OFF PROPERTY SAMPLING
ADIRONDACK ENVIRONMENTAL SERVICES CASE NO. E16000,SDG NO.B-1(8-10)

Sample ID	AR 1254 (mg/kg)	AR 1260 (mg/kg)
B1 (8-10)	0.57U	0.57U
B2 (8-10)	1.3	0.74
B3 (8-10)	0.56U	0.56U
B21 (1.5-3.5)	0.57U	0.57U
B21 (5-7)	0.60U	0.60U
B22 (0-2)	0.59U	0.47J
B22 (2-4)	0.61U	0.17J
B23 (0-2)	0.59U	0.59U
B23 (2-4)	0.61U	0.22J
B24 (0-2)	0.57U	0.57U
B24 (2-4)	0.59U	0.59U
DUP-4	0.61U	0.61U
FB-4	0.50U $\mu g/\ell$	0.50U $\mu g/\ell$

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B1(8-10)

Lab Name: AES,INC Contract: 000007

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B1(8-10)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/20/92

% Moisture: not dec. 12. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 1/92

GPC Cleanup: (Y/N) N pH: 8.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	570.	U
11104-28-2	Arochlor-1221	570.	U
11141-16-5	Arochlor-1232	570.	U
53469-21-9	Arochlor-1242	570.	U
12672-29-6	Arochlor-1248	570.	U
11097-69-1	Arochlor-1254	570.	U
11096-82-5	Arochlor-1260	570.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B2(8-10)

Lab Name: AES,INC Contract: 000008

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B2(8-10)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/20/92

% Moisture: not dec. 17. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 1/92

GPC Cleanup: (Y/N) N pH: 8.6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	600.	U
11104-28-2	Arochlor-1221	600.	U
11141-16-5	Arochlor-1232	600.	U
53469-21-9	Arochlor-1242	600.	U
12672-29-6	Arochlor-1248	600.	U
11097-69-1	Arochlor-1254	1300.	
11096-82-5	Arochlor-1260	740.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B3(8-10)

Lab Name: AES,INC Contract: 000009

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B3(8-10)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/20/92

% Moisture: not dec. 10. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 1/92

GPC Cleanup: (Y/N) N pH: 8.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	560.	U
11104-28-2	Arochlor-1221	560.	U
11141-16-5	Arochlor-1232	560.	U
53469-21-9	Arochlor-1242	560.	U
12672-29-6	Arochlor-1248	560.	U
11097-69-1	Arochlor-1254	560.	U
11096-82-5	Arochlor-1260	560.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B21(1.5-3.5)

Lab Name: AES,INC Contract: 000010

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B21(1.5-3.5)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/20/92

% Moisture: not dec. 12. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	570.	U
11104-28-2	Arochlor-1221	570.	U
11141-16-5	Arochlor-1232	570.	U
53469-21-9	Arochlor-1242	570.	U
12672-29-6	Arochlor-1248	570.	U
11097-69-1	Arochlor-1254	570.	U
11096-82-5	Arochlor-1260	570.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B21(5-7)

Lab Name: AES,INC Contrac 000011

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B21(5-7)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/20/92

% Moisture: not dec. 16. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	600.	U
11104-28-2	Arochlor-1221	600.	U
11141-16-5	Arochlor-1232	600.	U
53469-21-9	Arochlor-1242	600.	U
12672-29-6	Arochlor-1248	600.	U
11097-69-1	Arochlor-1254	600.	U
11096-82-5	Arochlor-1260	600.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B22(0-2)

Lab Name: AES,INC Contract: 000012

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B22(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/20/92

% Moisture: not dec. 15. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 1/92

GPC Cleanup: (Y/N) N pH: 8.6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	590.	U
11104-28-2	Arochlor-1221	590.	U
11141-16-5	Arochlor-1232	590.	U
53469-21-9	Arochlor-1242	590.	U
12672-29-6	Arochlor-1248	590.	U
11097-69-1	Arochlor-1254	590.	U
11096-82-5	Arochlor-1260	470.	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B22(2-4)

Lab Name: AES,INC Contract: 000013

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B22(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/20/92

% Moisture: not dec. 18. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 1/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	610.	U
11104-28-2	Arochlor-1221	610.	U
11141-16-5	Arochlor-1232	610.	U
53469-21-9	Arochlor-1242	610.	U
12672-29-6	Arochlor-1248	610.	U
11097-69-1	Arochlor-1254	610.	U
11096-82-5	Arochlor-1260	170.	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B23(0-2)

Lab Name: AES,INC Contract: 000614

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B23(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/20/92

% Moisture: not dec. 15. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 1/92

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	590.	U
11104-28-2	Arochlor-1221	590.	U
11141-16-5	Arochlor-1232	590.	U
53469-21-9	Arochlor-1242	590.	U
12672-29-6	Arochlor-1248	590.	U
11097-69-1	Arochlor-1254	590.	U
11096-82-5	Arochlor-1260	590.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B23(2-4)

Lab Name: AES,INC Contract: C00015

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B23(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/20/92

% Moisture: not dec. 18. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 1/92

GPC Cleanup: (Y/N) N pH: 8.9 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	610.	U
11104-28-2	Arochlor-1221	610.	U
11141-16-5	Arochlor-1232	610.	U
53469-21-9	Arochlor-1242	610.	U
12672-29-6	Arochlor-1248	610.	U
11097-69-1	Arochlor-1254	610.	U
11096-82-5	Arochlor-1260	220.	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B24(0-2)

Lab Name: AES,INC Contract: 000016

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B24(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/20/92

% Moisture: not dec. 12. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 1/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	570.	U
11104-28-2	Arochlor-1221	570.	U
11141-16-5	Arochlor-1232	570.	U
53469-21-9	Arochlor-1242	570.	U
12672-29-6	Arochlor-1248	570.	U
11097-69-1	Arochlor-1254	570.	U
11096-82-5	Arochlor-1260	570.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B24(2-4)

Lab Name: AES,INC Contract: 000017

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B24(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/20/92

% Moisture: not dec. 15. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 1/92

GPC Cleanup: (Y/N) N pH: 8.5 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	590.	U
11104-28-2	Arochlor-1221	590.	U
11141-16-5	Arochlor-1232	590.	U
53469-21-9	Arochlor-1242	590.	U
12672-29-6	Arochlor-1248	590.	U
11097-69-1	Arochlor-1254	590.	U
11096-82-5	Arochlor-1260	590.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP4

Lab Name: AES,INC Contract: 000018

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: DUP4

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/20/92

% Moisture: not dec. 18. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	610.	U
11104-28-2	Arochlor-1221	610.	U
11141-16-5	Arochlor-1232	610.	U
53469-21-9	Arochlor-1242	610.	U
12672-29-6	Arochlor-1248	610.	U
11097-69-1	Arochlor-1254	610.	U
11096-82-5	Arochlor-1260	610.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB4

Lab Name: AES,INC Contract: 000019

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix: (soil/water) WATER Lab Sample ID: FB4

Sample wt/vol: 400.0 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received: 7/20/92

% Moisture: not dec. 100. dec._____ Date Extracted: 7/22/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 7/30/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-21-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

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TITLE PAGE

Over the period of July 20, 1992 through July 21, 1992, sixteen (16) soil samples, and one (1) fieldblank were received by Adirondack Environmental Services, Inc. from ERM-Northeast, Inc. in association with the ERM-Buffalo Sweeney Steel Project. These samples were analyzed for PCB constituents using a modification of method 8080 as previously described in accordance with the 1989 NYSDEC Analytical Services Protocol (ASP). The project was completed on September 25, 1992.

Frank Snyder
Laboratory Director

Date: Sept 25, 1992

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CASE NARRATIVE

Client : ERM - Northeast, Inc.

Case : E16000

SDG : B1(8-10)

Samples :

B1(8-10)	B23(0-2)
B2(8-10)	B23(2-4)
B3(8-10)	B23(8-10) *(EXTRACT AND HOLD)*
B21(1.5-3.5)	B24(0-2)
B21(5-7)	B24(8-10) *(EXTRACT AND HOLD)*
B21(8-10) *(EXTRACT AND HOLD)*	
B22(0-2)	
B22(2-4)	
B22(8-10) *(EXTRACT AND HOLD)*	
DUP-4	
FB-4	

Note:
Samples in this case were assessed for PCB's only using a modification of method 8080 as discussed previously. See Chain of Custody (COC).

PCB

Following this narrative, please find corresponding peaks used for PCB identification.

The following samples were sulfur cleaned. Chromatograms corresponding to the sulfur cleaned sample have been included after the initial analysis on the primary and confirmation columns in the sample data section. These samples did not contain any aroclor constuents (see sulfur cleaned chromatograms substantiating this fact).

SAMPLE NAME
B21(1.5-3.5)
B21(5-7)
B24(0-2)
B24(2-4)

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000002

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Values for AR1016 in the MS and MSD of sample B21(5-7) were obtained from the sulfur cleaned analysis since the presence of sulfur obscured the identification of this Aroclor. The corresponding standard in the sulfur analysis has been included in the "Raw QC Data" section after the MS form 1. AR1260 values were quantitated from the run containing sulfur. All % recoveries in the MS and MSD were within the advisory limits.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Frank Lenden
Laboratory Director

Date: Sept 25, 1992

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000003

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PESTICIDE/PCB DATA INFORMATION SHEET

SDG: B1(8-10) **Client: ERM - NE** **Case No.: E16000**

EXTRACTION SUMMARY:

Matrix = SOIL, WATER (FB)

Level = LOW

Final volume after concentration (ml) = 50

Blank extraction amount (g or ml) = 400 ML , 10 G

Dual Column Analysis - 2 ul on each column.

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PESTICIDE/PCB DATA INFORMATION SHEET

SDG: B1(8-10) **Client: ERM** **Case No.: E16000**

STD	CONC (ppm)		PEAKS USED FOR QUANT/CONF (RT) DB5	DB1701
AR1016------	0.86	---------	2.8	4.29
			3.13	4.86
			3.67	5.41
			3.89	5.77
			4.05	6.03
AR1260------	0.86	_____	8.98	12.10
			9.30	12.36
			9.72	13.20
			10.20	14.00
			11.64	14.98
AR1221------	1.0	---------	1.37	2.93
			2.10	3.37
AR1232------	1.0	---------	3.66	5.40
			3.87	5.77
			4.03	6.02
			4.94	6.38
			5.20	7.03
				7.30
AR1242------	1.0	---------	3.66	5.40
			3.87	5.76
			4.03	6.02
			4.95	6.39
			5.20	4.85
AR1248------	1.0	---------	4.55	7.04
			4.94	7.30
			5.20	7.82
			5.95	8.15
			6.42	8.77
AR1254------	1.0	---------	6.00	8.17
			6.63	8.74
			8.3	9.99
			9.00	11.62
			9.73	12.10

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000005

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SDG: B1(8-10) **Client: ERM - NE** **Case No.: E16000**

SPIKE SUMMARY:

Average DCB area used for calculations = 260420(DB1701); 380074(DB5)
approximate DCB RT
DB5 column - 16.04
DB1701 column - 17.96

SAMPLE CALCULATIONS:

Surrogate recovery:

Sample Name - B1(8-10) (DB1701)

$$\frac{148152/(0.1)}{260420/(0.2)} \times 100 = 114\%$$

0.1 UG ADDED IN SAMPLE; 0.2 UG ADDED IN STD

Detected Compound :

Sample Name - B2(8-10) Compound - AR1260

$$\frac{\text{sample area x fv x conc std (ppm) x DF}}{\text{standard area x kg ext x decimal dry}} = [\ ]$$

$$\frac{64120 \times 50 \times 0.86 \times 1.00}{450477 \times 0.01 \times 0.83} = \text{ppb}$$

740 ug/kg

2E

WATER PESTICIDE SURROGATE RECOVERY

000020

Lab Name: AES,INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKW5	143	
2	FB4	146	
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
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26			
27			
28			
29			
30			

ADVISORY QC LIMITS (50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

SOIL PESTICIDE SURROGATE RECOVERY

000021

Lab Name: AES, INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKE4	157 *	
2	PBLKMSBE4	130	
3	DUP4	138	
4	B21(1.5-3.5)	125	
5	B21(5-7)	140	
6	B22(0-2)	117	
7	B22(2-4)	124	
8	B23(0-2)	128	
9	B23(2-4)	135	
10	B24(0-2)	129	
11	B24(2-4)	136	
12	B1(8-10)	114	
13	B2(8-10)	140	
14	B3(8-10)	139	
15	B21(5-7)MS	121	
16	B21(5-7)MSD	136	
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

S1 (DBC) = DCB

ADVISORY QC LIMITS (50-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

SOIL PESTICIDE SURROGATE RECOVERY

000022

Lab Name: AES, INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Level:(low/med) LOW

conf.

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKE4	129	
2	B22(0-2)	153 *	
3	B22(2-4)	150	
4	B23(2-4)	147	
5	B2(8-10)	161 *	
6			
7			
8			
9			
10			
11			
12			
13			
14			
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17			
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19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

S1 (DBC) = DCB

ADVISORY QC LIMITS (50-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

000023

Lab Name: AES,INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix Spike - EPA Sample No.: B21(5-7) Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Arochlor-1016	3264.88	.00	2154.76	66	60-160
Arochlor-1260	2937.50	.00	1869.83	64	60-160

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arochlor-1016	3264.88	2131.64	67	1	50	60-160
Arochlor-1260	2937.50	2131.89	73	13	50	60-160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 2 out of 4 outside limits

COMMENTS: See case narrative

SOIL PCB MATRIX SPIKE BLANK RECOVERY

000024

Lab Name: AES,INC Contract:
Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)
EPA Sample No.: PBLK MSBE4 Matrix: SOIL

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATIO (ug/Kg)	MSB CONCENTRATIO (ug/Kg)	% REC.	QC LIMITS REC.
AROCLOR-1016	2194	0	2000	91	75-125
AROCLOR-1260	1974	0	1800	91	75-125

4C

PESTICIDE METHOD BLANK SUMMARY

000025

Lab Name: AES,INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Lab Sample ID: PBLKE4 Lab File ID:

Matrix: (soil/water) SOIL Level:(low/med) LOW

Date Extracted: 7/21/92 Extraction: (SepF/Cont/Sonc) SON

Date Analyzed (1): 7/30/92 Date Analyzed (2): 7/30/92

Time Analyzed (1): 18:40 Time Analyzed (2): 18:42

Instrument ID (1): VAR2A Instrument ID (2): VAR2A

GC Column ID (1): DB1701 GC Column ID (2): DB608

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	PBLKMSBE	PBLKMSBE4	7/31/92	
2	DUP4	DUP4	7/31/92	
3	B21(1.5-3.5)	B21(1.5-3.5)	7/31/92	
4	B21(5-7)	B21(5-7)	7/31/92	
5	B22(0-2)	B22(0-2)	8/ 1/92	8/ 1/92
6	B22(2-4)	B22(2-4)	8/ 1/92	8/ 1/92
7	B23(0-2)	B23(0-2)	8/ 1/92	
8	B23(2-4)	B23(2-4)	8/ 1/92	8/ 1/92
9	B24(0-2)	B24(0-2)	8/ 1/92	
10	B24(2-4)	B24(2-4)	8/ 1/92	
11	B1(8-10)	B1(8-10)	8/ 1/92	
12	B2(8-10)	B2(8-10)	8/ 1/92	8/ 1/92
13	B3(8-10)	B3(8-10)	8/ 1/92	
14	B21(5-7) MS	B21(5-7) MS	8/ 1/92	
15	B21(5-7)MSD	B21(5-7) MSD	8/ 1/92	
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Comments:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKE4

Lab Name: AES,INC Contract: 920026

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: PBLKE4

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/30/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	500.	U
11104-28-2	Arochlor-1221	500.	U
11141-16-5	Arochlor-1232	500.	U
53469-21-9	Arochlor-1242	500.	U
12672-29-6	Arochlor-1248	500.	U
11097-69-1	Arochlor-1254	500.	U
11096-82-5	Arochlor-1260	500.	U

4C

PESTICIDE METHOD BLANK SUMMARY

000027

Lab Name: AES,INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Lab Sample ID: PBLKW5 Lab File ID:

Matrix: (soil/water) WATER Level:(low/med) LOW

Date Extracted: 7/22/92 Extraction: (SepF/Cont/Sonc) SEP

Date Analyzed (1): 7/30/92 Date Analyzed (2):

Time Analyzed (1): 21:02 Time Analyzed (2):

Instrument ID (1): VAR2A Instrument ID (2):

GC Column ID (1): DB1701 GC Column ID (2):

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	FB4	FB4	7/30/92	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
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17				
18				
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23				
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25				
26				

Comments:

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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKW5

Lab Name: AES,INC Contract: 000028

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B1(8-10)

Matrix: (soil/water) WATER Lab Sample ID: PBLKW5

Sample wt/vol: 400.0 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 100. dec.____ Date Extracted: 7/22/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 7/30/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-21-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

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000029

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CASE NARRATIVE

Client : ERM - Northeast, Inc.

Case : E16000

SDG : B1(8-10)

Samples :

B1(8-10)	B23(0-2)
B2(8-10)	B23(2-4)
B3(8-10)	B23(8-10) *(EXTRACT AND HOLD)*
B21(1.5-3.5)	B24(0-2)
B21(5-7)	B24(8-10) *(EXTRACT AND HOLD)*
B21(8-10) *(EXTRACT AND HOLD)*	
B22(0-2)	
B22(2-4)	
B22(8-10) *(EXTRACT AND HOLD)*	
DUP-4	
FB-4	

Note:
Samples in this case were assessed for PCB's only using a modification of method 8080 as discussed previously. See Chain of Custody (COC).

PCB

Following this narrative, please find corresponding peaks used for PCB identification.

The following samples were sulfur cleaned. Chromatograms corresponding to the sulfur cleaned sample have been included after the initial analysis on the primary and confirmation columns in the sample data section. These samples did not contain any aroclor constuents (see sulfur cleaned chromatograms substantiating this fact).

SAMPLE NAME
B21(1.5-3.5)
B21(5-7)
B24(0-2)
B24(2-4)

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000030

Values for AR1016 in the MS and MSD of sample B21(5-7) were obtained from the sulfur cleaned analysis since the presence of sulfur obscured the identification of this Aroclor. The corresponding standard in the sulfur analysis has been included in the "Raw QC Data" section after the MS form 1. AR1260 values were quantitated from the run containing sulfur. All % recoveries in the MS and MSD were within the advisory limits.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Frank Sneden
Laboratory Director

Date: Sept 25, 1992

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CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM-Northeast	General Electric 318 Urban St	Karen Baker
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Albany	380.048	Karen E S Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
920721-B01	DUP-5	7/20/92	A/P	Soil		X	1	PCBs
B02	FB-5		1330 A/P	Water		X	1	PCBs
B03	B1, 8'-10'		1050 A/P	Soil		X	1	PCBs
B04	B2, 8'-10'		1435 A/P			X	1	PCBs
B05	B3, 8'-10'		0855 A/P			X	1	PCBs
B06	B4, 8'-10'		1130 A/P			X	1	PCBs
B07	B5, 8'-10'		1205 A/P			X	1	PCBs
B08	B6, 0'-2'		1615 A/P			X	1	PCBs
B09	B6, 2'-4'		1620 A/P			X	1	PCBs
B10	B6, 8'-10'		1630 A/P			X	1	EXTRACT + HOLD FOR POSSIBLE PCB analysis
B11	B7, 0'-2'		1635 A/P			X	1	PCBs
B12	B7, 2'-4'		1638 A/P			X	1	PCBs
B13	B7, 8'-10'		1645 A/P			X	1	EXTRACT + HOLD PCB

Turnaround Time

Laboratory Approval:

Relinquished by: (Signature) Karen E S Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**

Dispatched by: (Signature) Karen E S Baker	**Date/Time**	**Received for Laboratory by:**	**Date/Time** 7/21/92 910
Method of Shipment: Federal Express	**Send Report To:** Dave Bradley - ERM-NE Albany		**Client Phone No.:**

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of $10.00 per container for disposal.

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

Adirondack Environmental Services, Inc.
314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

000032

A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM-Northeast	General Electric 318 Urban St.	Karen Baker
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Albany	380.048	Karen E. Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
920720-B01	DUP-4	7/17/92	A P	Soil		X	1	PCBs
B02	FB-4	"	1030 A P	Water		X	1	PCBs
B03	B21, 1.5'-3.5'		1050 A P	Soil		X	1	PCBs
B04	B21, 5'-7' + MS/MSD		1105 A P	Soil		X	2	PCBs (1 is MS/MSD
B05	B21, 8'-10'		1115 A P	Soil		X	1	EXTRACT & HOLD FOR POSSIBLE PCB ANALYS.
B06	B22, 0'-2'		1255 A P	Soil		X	1	PCBs
B07	B22, 2'-4'		1300 A P	Soil		X	1	PCBs
B08	B22, 8'-10'		1315 A P	Soil		X	1	EXTRACT & HOLD FOR POSSIBLE PCB ANALYS
B09	B23, 0'-2'		0930 A P	Soil		X	1	PCBs
B10	B23, 2'-4'		0935 A P	Soil		X	1	PCBs
B11	B23, 8'-10'		0945 A P	Soil		X	1	EXTRACT & HOLD FC POSSIBLE PCB ANALYS
B12	B24, 0'-2'		0845 A P	Soil		X	1	PCBs
B13	B24, 2'-4'	↓	0850 A P	Soil		X	1	PCBs

Turnaround Time

Laboratory Approval:

Relinquished by: (Signature) Karen E. Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**

Dispatched by: (Signature) Karen E. Baker	**Date/Time** 7/17/92	**Received for Laboratory by:** C. Dingelstad	**Date/Time** 7/20/92 8:55
Method of Shipment: Federal Express	**Send Report To:** Dave Bradley-ERM-NE Albany		**Client Phone No.:** 518-452-4291

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of $10.00 per container for disposal.

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

Adirondack Environmental Services, Inc.
314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

000033

A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM - Northeast	General Electric 318 Urban St.	Karen Baker
ADDRESS	**PO NUMBER**	**SAMPLERS: (Signature)**
Albany	380.048	Karen E S Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
B14	B24, 8'-10'	7/17/92	0905 A	Soil		X	1	EXTRACT & HOLD FOR POSSIBLE PCB ANALYSIS

Turnaround Time

Laboratory Approval:

Relinquished by: (Signature) Karen E S Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**

Dispatched by: (Signature) Karen E S Baker	**Date/Time** 7/17/92	**Received for Laboratory by:** C Shaginaw	**Date/Time** 7/20/92 8:55
Method of Shipment: Federal Express	**Send Report To:** Dave Bradley - ERM-NE Albany		**Client Phone No.:** 518-452-4291

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of $10.00 per container for disposal.

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

Adirondack Environmental Services, Inc.

FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL PACKAGE TRACKING NUMBER 4214428083

4214428083

000034

RECIPIENT'S COPY

Date: 7/17/92

1 From (Your Name) Please Print: Karen Baker — Your Phone Number (Very Important): (716)633-5920

Company: ERM-Northeast

Department/Floor No.:

Street Address: 5500 Main St.

City: Williamsville State: NY ZIP Required: 14221

2 To (Recipient's Name) Please Print: Sample Handler — Recipient's Phone Number (Very Imp.): (518)434-4

Company: Adirondack Environmental Se

Department/Floor:

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 314 N. Pearl St.

City: Albany State: NY ZIP Required: 12207

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.): 380.048

H IF HOLD FOR PICK-UP, Print FEDEX Address Here — Street Address: City: State: ZIP Required:

3 PAYMENT 1 [ ] Bill Sender 2 [ ] Bill Recipient's FedEx Acct. No. 3 [X] Bill 3rd Party FedEx Acct. No. 4 [ ] Bill Credit Card — [ ] Cash/Check

4 SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning†)	Standard Overnight (Delivery by next business afternoon†)
11 [X] YOUR PACKAGING	51 [ ] YOUR PACKAGING
16 [ ] FEDEX LETTER*	56 [ ] FEDEX LETTER*
12 [ ] FEDEX PAK*	52 [ ] FEDEX PAK*
13 [ ] FEDEX BOX	53 [ ] FEDEX BOX
14 [ ] FEDEX TUBE	54 [ ] FEDEX TUBE
Economy Two-Day (Delivery by second business day†)	**Government Overnight** (Available to authorized users only)
30 [ ] ECONOMY	46 [ ] GOVT LETTER; 41 [ ] GOVT PACKAGE

Freight Service (for Extra Large or any package over 150 lbs.)
70 [ ] OVERNIGHT FREIGHT** 80 [ ] TWO-DAY FREIGHT**
†Delivery commitment may be later in some areas. *Declared Value Limit $100. **Call to delivery schedule

5 DELIVERY AND SPECIAL HANDLING (Check services required)

1 [ ] HOLD FOR PICK-UP (Fill in Box H)
2 [ ] DELIVER WEEKDAY
3 [X] DELIVER SATURDAY (Extra charge) (Not available to all locations)
4 [ ] DANGEROUS GOODS (Extra charge)
5 [ ]
6 [ ] DRY ICE ____ Lbs.
7 [ ] OTHER SPECIAL SERVICE
8 [ ]
9 [ ] SATURDAY PICK-UP (Extra charge)
10 [ ]
11 [ ]
12 [ ] HOLIDAY DELIVERY (If offered) (Extra charge)

6

PACKAGES	WEIGHT (In Pounds Only)	YOUR DECLARED VALUE
Total	Total	Total
	1 32	

DIM SHIPMENT (Chargeable Weight): [ ] ____ lbs. ____ x ____ x ____ =

Received At: 1 [ ] Regular Stop 2 [ ] On-Call Stop 3 [ ] Drop Box 4 [ ] BSC 5 [ ] Station

7 Release Signature:

FedEx Emp. No. Date/Time

Emp. No. Date

[ ] Cash Received [ ] Return Shipment [ ] Third Party [ ] Chg. To Del. [ ] Chg. To Hold

Street Address

City State Zip

Received By: X

Date/Time Received FedEx Employee Number

Federal Express Base Charges Declared Value Charges Other 1 Other 2 Total Charges

REVISION DATE 6/91 PART #119501 FORMAT #099

099

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FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL PACKAGE TRACKING NUMBER 6733106004

1031W 6733106004

RECIPIENT'S COPY

Date: 7/20/92

1 From (Your Name) Please Print: Karen Baker — Your Phone Number (Very Important): (716)633-5920

Company: ERM-NORTH EAST

Department/Floor No.:

Street Address: 5500 MAIN STREET

City: WILLIAMSVILLE State: NY ZIP Required: 14221

2 To (Recipient's Name) Please Print: Sample Handler — Recipient's Phone Number (Very Import.): 518,434-4

Company: Adirondack Environmental Se

Department/Floor:

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 314 North Pearl St

City: Albany NY State: ZIP Required: 12207

YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.)

H IF HOLD FOR PICK-UP, Print FEDEX Address Here — Street Address: City: State: ZIP Required:

3 PAYMENT 1 [ ] Bill Sender 2 [ ] Bill Recipient's FedEx Acct. No. 3 [X] Bill 3rd Party FedEx Acct. No. 4 [ ] Bill Credit Card — 5 [ ] Cash

4 SERVICES (Check only one box)

Priority Overnight Service (Delivery by next business morning†)	Standard Overnight Service (Delivery by next business afternoon†)
11 [X] YOUR PACKAGING	51 [ ]
16 [ ] FEDEX LETTER*	56 [ ] FEDEX LETTER*
12 [ ] FEDEX PAK*	52 [ ] FEDEX PAK*
13 [ ] FEDEX BOX	53 [ ] FEDEX BOX
14 [ ] FEDEX TUBE	54 [ ] FEDEX TUBE
Economy Service (formerly Standard Air) (Delivery by second business day†)	**Heavyweight Service** (for Extra Large or any package over 150 lbs.)
30 [ ] ECONOMY SERVICE	70 [ ] HEAVYWEIGHT**; 80 [ ] DEFERRED HEAVYWEIGHT**

†Delivery commitment may...

5 DELIVERY AND SPECIAL HANDLING

1 [ ] HOLD FOR PICK-UP (Fill in Box H)
2 [X] DELIVER WEEKDAY
3 [ ] DELIVER SATURDAY (Extra charge) (Not available to all locations)
4 [ ] DANGEROUS GOODS (Extra charge) (CSS not available for Dangerous Goods Shipments)
5 [ ] CONSTANT SURVEILLANCE SVC. (CSS) (Extra charge. Release Signature not Applicable)
6 [ ] DRY ICE ____ Lbs.
7 [ ] OTHER SPECIAL SERVICE ____
8 [ ]
9 [ ] SATURDAY PICK-UP (Extra charge)
10 [ ]
11 [ ] ____

6

PACKAGES	WEIGHT (In Pounds Only)	YOUR DECLARED VALUE	OVER SIZE
	1 25		
Total	Total	Total	
	1 32		

DIM SHIPMENT (Heavyweight Services Only): [ ] ____ lbs.

Received At: 1 [ ] Regular Stop 2 [ ] On-Call Stop 3 [ ] Drop Box 4 [ ] BSC 5 [X] Station

5 Release Signature:

Emp. No. Date

[ ] Cash Received [ ] Return Shipment [ ] Third Party [ ] Chg. To Del [ ] Chg. To Hold

Street Address

City State Zip

Received By: X

Date/Time Received FedEx Employee Number

Federal Express Use Base Charges Declared Value Charges Other 1 Other 2 Total Charges

REVISION DATE 11/89 PART #119501 NCR FEC FORMAT #014

014

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INTERNAL CHAIN OF CUSTODY **000035**

AES SAMPLE # 920720 B01 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. Dup-4 REASON FOR TRANSFER	DATE	TIME
Christine Angeland	Colleen O'Hehir	to extract	7/21/92	1052
Colleen O'Hehir	Christine Angeland	return to Rog Dr	7/21/92	427

AES SAMPLE # 920720 B02 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. FB-4 REASON FOR TRANSFER	DATE	TIME
Christine Angeland	Colleen O'Hehir	to extract	7/21/92	1052
Colleen O'Hehir	[illegible]	return to Rog Dr	7/23/92	1527

AES SAMPLE # 930735 B03 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. ~~FB3~~ B31, 1.5-3.5 REASON FOR TRANSFER	DATE	TIME
Christine Angeland	Colleen O'Hehir	to extract	7/21/92	1053
Colleen O'Hehir	Christine Angeland	return to Rog Dr	7/21/92	427

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000036

AES SAMPLE # 920720 B04	BOTTLE # 1	CLIENTS SAMP. ID. B21, S-7 + ms/msD		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Christine Hoagland	Colleen O'Hehir	to extract	7/21/92	1053
Colleen O'Hehir	Christine Hoagland	return to Big Dn	7/21/92	1628

AES SAMPLE # 920720 B04	BOTTLE # 2	CLIENTS SAMP. ID. B21, S-7 + ms/msD		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME

AES SAMPLE # 920720 B05	BOTTLE # 1	CLIENTS SAMP. ID. B21, S-10		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Christine Hoagland	Colleen O'Hehir	to extract	7/21/92	1053
Colleen O'Hehir	Christine Hoagland	return to Big Dn	7/21/92	1628

Adirondack Environmental Services, Inc.

000037

INTERNAL CHAIN OF CUSTODY

AES SAMPLE # 930720 B06 BOTTLE # 1 CLIENTS SAMP. ID. B22, 0-2

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Christine Hoagland	Colleen O'Hehir	to extract	7/21/92	1054
Colleen O'Hehir	Christine Hoagland	return to Frig Dn	7/21/92	1628

AES SAMPLE # 930720 B07 BOTTLE # 1 CLIENTS SAMP. ID. B22, 2-4

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Christine Hoagland	Colleen O'Hehir	to extract	7/21/92	1054
Colleen O'Hehir	Christine Hoagland	return to Frig Dn	7/21/92	1629

AES SAMPLE # 930720 B08 BOTTLE # 1 CLIENTS SAMP. ID. B22, 8-10

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Christine Hoagland	Colleen O'Hehir	to extract	7/21/92	1054
Colleen O'Hehir	Christine Hoagland	return to Frig Dn	7/21/92	1629

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY **000038**

AES SAMPLE # 920720 B09 BOTTLE # 1 CLIENTS SAMP. ID. B23, C-2

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Christine Mugaland	Colleen O'Hehir	to extract	7/21/92	1055
Colleen O'Hehir	Christine Mugaland	return to Log In	7/21/92	1630

AES SAMPLE # 920720 B10 BOTTLE # 1 CLIENTS SAMP. ID. B23, 2-4

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Christine Mugaland	Colleen O'Hehir	to extract	7/21/92	1055
Colleen O'Hehir	Christine Mugaland	return to Log In	7/21/92	1630

AES SAMPLE # 920720 B11 BOTTLE # 1 CLIENTS SAMP. ID. B23, 8-10

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Christine Mugaland	Colleen O'Hehir	to extract	7/21/92	1055
Colleen O'Hehir	Christine Mugaland	return to Log In	7/21/92	1630

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000039

AES SAMPLE # 920720 B12 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. B24, 0-2 REASON FOR TRANSFER	DATE	TIME
Christine Hoglund	Colleen O'Hehir	to extract	7/21/92	1052
Colleen O'Hehir	Christine Hoglund	return to frig in	7/21/92	1635

AES SAMPLE # 920720 B13 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. B24, 2-4 REASON FOR TRANSFER	DATE	TIME
Christine Hoglund	Colleen O'Hehir	to extract	7/21/92	1052
Colleen O'Hehir	Christine Hoglund	return to frig in	7/21/92	1634

AES SAMPLE # 920720 B14 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. B24, 8-10 REASON FOR TRANSFER	DATE	TIME
Christine Hoglund	Colleen O'Hehir	to extract	7/21/92	1056
Colleen O'Hehir	Christine Hoglund	return to frig in	7/21/92	1634

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000040

AES SAMPLE # 920721-B01 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. Dup-5 REASON FOR TRANSFER	DATE	TIME
Lisa M Sorn	Colleen O'Hehir	to extract	7/21/92	1103
Colleen O'Hehir	Kristen A	return to log in	7/21/92	1637

AES SAMPLE # 920721-B02 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. FB-5 REASON FOR TRANSFER	DATE	TIME
Lisa M Sorn	Colleen O'Hehir	to extract	7/21/92	1108
Colleen O'Hehir		return to log in	7/23/92	1506

AES SAMPLE # 920721-B03 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. B1, B-10 REASON FOR TRANSFER	DATE	TIME
Lisa M Sorn	Colleen O'Hehir	to extract	7/21/92	1108
Colleen O'Hehir	Kristen A	return to log in	7/21/92	1639

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000041

AES SAMPLE # 920721-B04 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. B2, 8-10 REASON FOR TRANSFER	DATE	TIME
Lisa M Jon	Colleen O'Hara	to extract	7/21/92	1109
Colleen O'Hara	Kristian C	return to Fay Dr	7/21/92	16:39

AES SAMPLE # 920721-B05 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. B3, 8-10 REASON FOR TRANSFER	DATE	TIME
Lisa M Jon	Colleen O'Hara	to extract	7/21/92	1109
Colleen O'Hara	Kristian C	return to Fay Dr	7/21/92	16:38

AES SAMPLE # 920721-B06 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. B4, 8-10 REASON FOR TRANSFER	DATE	TIME
Lisa M Jon	Colleen O'Hara	to extract	7/21/92	1110
Colleen O'Hara	Kristian C	return to Fay Dr	7/21/92	16:40

Adirondack Environmental Services, Inc.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB
ANALYSES

SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	DATE EXTRACTED	DATE ANALYZED
B1(8-10)	SOIL	7/20/92	7/21/92	7/21/92	8/1/92
B2(8-10)	SOIL	7/20/92	7/21/92	7/21/92	8/1/92
B3(8-10)	SOIL	7/20/92	7/21/92	7/21/92	8/1/92
B21(1.5-3.5)	SOIL	7/17/92	7/20/92	7/21/92	7/31/92
B21(5-17)	SOIL	7/17/92	7/20/92	7/21/92	7/31/92
B22(0-2)	SOIL	7/17/92	7/20/92	7/21/92	8/1/92
B22(2-4)	SOIL	7/17/92	7/20/92	7/21/92	8/1/92
B23(0-2)	SOIL	7/17/92	7/20/92	7/21/92	8/1/92
B23(2-4)	SOIL	7/17/92	7/20/92	7/21/92	8/1/92
B24(0 -2)	SOIL	7/17/92	7/20/92	7/21/92	8/1/92
B24(2-4)	SOIL	7/17/92	7/20/92	7/21/92	8/1/92
DUP-4	SOIL	7/17/92	7/20/92	7/21/92	7/31/92
FB-4	WATER	7/17/92	7/20/92	7/22/92	7/30/92

PCB DATA VALIDATION OF SOIL SAMPLE ANALYSES
318 URBAN STREET SITE OFF PROPERTY SAMPLING
ERM-NORTHEAST PROJECT NUMBER 380.048
ADIRONDACK ENVIRONMENTAL SERVICES CASE NO. E16000, SDG NO. B-8 (0-2)

Deliverables:

The above referenced Data Summary Package and Sample Data Package contain all required deliverables as stipulated under the 1989 New York State Analytical Services Protocol (ASP) Superfund category for all PCB analyses. PCB analyses were performed by an amended pesticide/PCB analytical method previously approved by the NYSDEC. This validation report pertains to the following samples:

Samples		QC Samples
B8 (0-2)	B15 (0-2)	B13 (2-4) MS
B12 (0-2)	B15 (2-4)	B13 (2-4) MSD
B12 (2-4)	B16 (0-2)	FB-6
B13 (0-2)	B16 (2-4)	
B13 (2-4)	DUP-6	
B14 (0-2)		
B14 (2-4)		

The following items/criteria were reviewed:

- Case Narrative
- Deliverable Requirements
- Holding times
- GC/MS Tuning (confirmational analysis)
- Initial GC calibration data
- Continuing GC calibration data
- PCB standards summary and data
- Procedural blank summary and data
- Field blank data
- Surrogate recoveries, retention times, and summary
- MS/MSD recoveries and summary
- Method blank spike recoveries and summary
- Field duplicate
- Organic Analysis Data Sheets (Form I)
- GC/ECD Chromatograms and data system printouts

The above items were in compliance with NYSDEC QC criteria with the exceptions discussed in the following text. The data have been validated according to the above procedures and qualified as described on the attached definitions list.

- All samples were extracted for analysis within the five day holding time and extracts were all analyzed within forty days of extraction per ASP QC criteria. The table below details holding time information.

Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
B8 (0-2)	Soil	7/21/92	7/22/92	7/23/92	8/4/92
B12 (0-2)	Soil	7/21/92	7/22/92	7/23/92	8/4/92
B12 (2-4)	Soil	7/21/92	7/22/92	7/23/92	8/4/92
B13 (0-2)	Soil	7/21/92	7/22/92	7/23/92	8/4/92
B13 (2-4)	Soil	7/21/92	7/22/92	7/23/92	8/4/92
B14 (0-2)	Soil	7/21/92	7/22/92	7/23/92	8/4/92
B14 (2-4)	Soil	7/21/92	7/22/92	7/23/92	8/4/92
B15 (0-2)	Soil	7/21/92	7/22/92	7/23/92	8/4/92
B15 (2-4)	Soil	7/21/92	7/22/92	7/23/92	8/4/92
B16 (0-2)	Soil	7/21/92	7/22/92	7/23/92	8/4/92
B16 (2-4)	Soil	7/21/92	7/22/92	7/23/92	8/4/92
DUP-6	Soil	7/21/92	7/22/92	7/23/92	8/4/92
FB-6	Water	7/21/92	7/22/92	7/24/92	8/3/92

- All ion abundance criteria were met for GC/MS tuning prior to sample confirmational analyses.

- GC/ECD initial calibration factors and retention time (RT) windows were correctly calculated and reported. Initial and continuing calibration standards for Aroclor 1221 only feature two peaks instead of the required three. However, since no Aroclor 1221 was detected in any samples, no qualification to the data is required.

- The first continuing calibration standard (Ar 1260) analyzed in association with this package indicated that the instrument response to PCB compounds had changed significantly (26%D), however no new initial calibration was performed as required by ASP criteria. In telephone conversations between ERM and the laboratory it was decided to use the calibration factor from the first continuing calibration as the initial response factor. All subsequent continuing calibration response factors exhibited less than 15% difference from the new initial. The new initial calibration standard is, however, a 0.4ng standard and the peak area of the Aroclor 1260 exhibited by sample B8 (0-2)

is greater than the standard peak area. The sample result is still within the linear range of the instrument as established by the laboratory per ASP criteria, therefore no qualification to the data is necessary.

- Procedural blanks were analyzed with the proper frequency (one per 20 samples per matrix) and exhibited no positive results for PCB analyses. All chromatograms exhibited stable baselines.

- One aqueous field blank submitted for PCB analysis with these soil samples (FB-6) exhibited no positive results for PCB analyses.

- The laboratory reports that the MS/MSD sample pair, the matrix spike blank, and a procedural blank (PBLK6) were incorrectly spiked with the surrogate compound DCB which resulted in surrogate recoveries of 8%, 5%, 14% and 10%, respectively. Additionally, five samples, the field blank, and the procedural blank PBLKW6 exhibited surrogate recoveries over the 50-150% QC limits. Only data from B16 (0-2) (162% recovery) is effected since it is the only sample with positive results. The Aroclor 1260 result for B16 (0-2) is considered estimated and possibly biased high. All surrogate peaks exhibited less than 0.3% difference between their retention times and that of the initial calibration surrogate, per ASP criteria. Surrogate recovery summaries are attached.

- All MS/MSD spike recoveries were within the laboratory QC limits of 60-160% and the relative percent difference between MS and MSD results were less than the laboratory QC limits of 50%. MS/MSD summary forms are attached. MS/MSD results for Aroclor 1016 were originally masked by the presence of a large amount of sulfur in B13 (2-4). The laboratory chose to sulfur clean the sample along with an Aroclor 1016 standard and then calculate the spike recovery against the cleaned standard rather than the initial calibration. For this reason Aroclor 1016 spike recoveries are considered estimated.

- Method blank spike recoveries fell within the ASP QC limits of 75 to 125%. Method blank spike summary forms are attached.

- Sample DUP-6 is a field duplicate of sample B-14 (2-4). Both samples exhibited non-detect results for all PCB compounds.

- All gas chromatographic data and system printouts have been reviewed and are acceptable.

- Organic analysis data sheets (Form I) for sample and QC analyses are attached. All data are valid and usable as presented on these sheets.

- Seven samples, B12 (2-4), B13 (0-2), B13 (2-4), B14 (2-4), B15 (0-2), B16 (2-4), and DUP-6 exhibited significant interference in the early part of the chromatogram arising from the presence of sulfur compounds. These samples were sulfur cleaned along with an Aroclor 1016/1260 standard and re-analyzed. All four analyses confirmed the absence of PCBs in the sulfur cleaned samples.

SUMMARY OF PCB RESULTS
318 URBAN STREET SITE OFF PROPERTY SAMPLING
ADIRONDACK ENVIRONMENTAL SERVICES CASE NO. E16000,SDG NO.B8(0-2)

Sample ID	AR 1260 (mg/kg)
B8 (0-2)	170C
B12 (0-2)	0.69J
B12 (2-4)	0.60U
B13 (0-2)	0.64U
B13 (2-4)	0.62U
B14 (0-2)	0.60U
B14 (2-4)	0.62U
B15 (0-2)	0.66U
B15 (2-4)	0.62U
B16 (0-2)	0.26J
B16 (2-4)	0.61U
DUP-6	0.62U
FB-6	1.0U $\mu g/\ell$

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B8(0-2)

Lab Name: AES Contract: 000007

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix: (soil/water) SOIL Lab Sample ID: B8(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 35 dec._____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/4/92

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 50.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	39000.	U
11104-28-2	Arochlor-1221	39000.	U
11141-16-5	Arochlor-1232	39000.	U
53469-21-9	Arochlor-1242	39000.	U
12672-29-6	Arochlor-1248	39000.	U
11097-69-1	Arochlor-1254	39000.	U
11096-82-5	Arochlor-1260	170000	C

PESTICIDE ORGANICS ANALYSIS DATA SHEET

B12(0-2)

Lab Name: AES Contract: 000008

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix: (soil/water) SOIL Lab Sample ID: B12(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 19 dec. _____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/4/92

GPC Cleanup: (Y/N) N pH: 8.5 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	3100.	U
11104-28-2	Arochlor-1221	3100.	U
11141-16-5	Arochlor-1232	3100.	U
53469-21-9	Arochlor-1242	3100.	U
12672-29-6	Arochlor-1248	3100.	U
11097-69-1	Arochlor-1254	3100.	U
11096-82-5	Arochlor-1260	690.	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B12(2-4)

Lab Name: AES Contract: 000009

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix: (soil/water) SOIL Lab Sample ID: B12(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 21 dec._____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/4/92

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	630	U
11104-28-2	Arochlor-1221	630	U
11141-16-5	Arochlor-1232	630	U
53469-21-9	Arochlor-1242	630	U
12672-29-6	Arochlor-1248	630	U
11097-69-1	Arochlor-1254	630	U
11096-82-5	Arochlor-1260	630	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B13(0-2)

Lab Name: AES Contract: 000010

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix: (soil/water) SOIL Lab Sample ID: B13(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 22 dec._____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/4/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	640.	U
11104-28-2	Arochlor-1221	640.	U
11141-16-5	Arochlor-1232	640.	U
53469-21-9	Arochlor-1242	640.	U
12672-29-6	Arochlor-1248	640.	U
11097-69-1	Arochlor-1254	640.	U
11096-82-5	Arochlor-1260	640.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B13(2-4)

Lab Name: AES Contract: 000011

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix: (soil/water) SOIL Lab Sample ID: B13 (2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 20 dec.____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/4/92

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	620	U
11104-28-2	Arochlor-1221	620	U
11141-16-5	Arochlor-1232	620	U
53469-21-9	Arochlor-1242	620	U
12672-29-6	Arochlor-1248	620	U
11097-69-1	Arochlor-1254	620	U
11096-82-5	Arochlor-1260	620	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B14(0-2)

Lab Name: AES Contract: 000012

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix: (soil/water) SOIL Lab Sample ID: B14(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 17 dec._____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/4/92

GPC Cleanup: (Y/N) N pH: 8.5 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	600.	U
11104-28-2	Arochlor-1221	600.	U
11141-16-5	Arochlor-1232	600.	U
53469-21-9	Arochlor-1242	600.	U
12672-29-6	Arochlor-1248	600.	U
11097-69-1	Arochlor-1254	600.	U
11096-82-5	Arochlor-1260	600.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000013

B14(2-4)

Lab Name: AES Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix: (soil/water) SOIL Lab Sample ID: B14(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 19 dec. _____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/4/92

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	620.	U
11104-28-2	Arochlor-1221	620.	U
11141-16-5	Arochlor-1232	620.	U
53469-21-9	Arochlor-1242	620.	U
12672-29-6	Arochlor-1248	620.	U
11097-69-1	Arochlor-1254	620.	U
11096-82-5	Arochlor-1260	620.	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

B15(0-2)

Lab Name: AES Contract: 000014

Lab Code: AES Case No.: E15000 SAS No.: SDG No.: B8(0-2)

Matrix: (soil/water) SOIL Lab Sample ID: B15(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 24 dec._____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/4/92

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	660	U
11104-28-2	Arochlor-1221	660	U
11141-16-5	Arochlor-1232	660	U
53469-21-9	Arochlor-1242	660	U
12672-29-6	Arochlor-1248	660	U
11097-69-1	Arochlor-1254	660	U
11096-82-5	Arochlor-1260	660	U

PESTICIDE ORGANICS ANALYSIS DATA SHEET

B15(2-4)

Lab Name: AES Contract: 000015

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix: (soil/water) SOIL Lab Sample ID: B15(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 19 dec. _____ Date Extracted: 7/23/93

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/4/92

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	620	U
11104-28-2	Arochlor-1221	620	U
11141-16-5	Arochlor-1232	620	U
53469-21-9	Arochlor-1242	620	U
12672-29-6	Arochlor-1248	620	U
11097-69-1	Arochlor-1254	620	U
11096-82-5	Arochlor-1260	620	U

B16(0-2)

Lab Name: AES Contract: 000016

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix: (soil/water) SOIL Lab Sample ID: B16(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 16 dec. _____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/4/92

GPC Cleanup: (Y/N) N pH: 8.9 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	600.	U
11104-28-2	Aroclor-1221	600.	U
11141-16-5	Aroclor-1232	600.	U
53469-21-9	Aroclor-1242	600.	U
12672-29-6	Aroclor-1248	600.	U
11097-69-1	Aroclor-1254	600.	U
11096-82-5	Aroclor-1260	260.	J

PESTICIDE ORGANICS ANALYSIS DATA SHEET

B16(2-4)

Lab Name: AES Contract: 000017

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix: (soil/water) SOIL Lab Sample ID: B16(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 18 dec.____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/4/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	610	U
11104-28-2	Arochlor-1221	610	U
11141-16-5	Arochlor-1232	610	U
53469-21-9	Arochlor-1242	610	U
12672-29-6	Arochlor-1248	610	U
11097-69-1	Arochlor-1254	610	U
11096-82-5	Arochlor-1260	610	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP 6

Lab Name: AES Contract: 000018

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix: (soil/water) SOIL Lab Sample ID: DUP 6

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. 20 dec.____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/4/92

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	620	U
11104-28-2	Arochlor-1221	620	U
11141-16-5	Arochlor-1232	620	U
53469-21-9	Arochlor-1242	620	U
12672-29-6	Arochlor-1248	620	U
11097-69-1	Arochlor-1254	620	U
11096-82-5	Arochlor-1260	620	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB 6

Lab Name: AES Contract: 000019

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix: (soil/water) WATER Lab Sample ID: F B 6

Sample wt/vol: 400 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received: 7/22/92

% Moisture: not dec. dec._____ Date Extracted: 7/24/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/3/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-21-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	1.0	U
11096-82-5	Arochlor-1260	1.0	U

Adirondack Environmental Services, Inc.
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TITLE PAGE

On July 22, 1992 eighteen (18) soil samples, and one (1) fieldblank were received by Adirondack Environmental Services, Inc. from ERM-Northeast, Inc. in association with the ERM-Buffalo Sweeney Steel Project. These samples were analyzed for PCB constituents using a modification of method 8080 as previously described in accordance with the 1989 NYSDEC Analytical Services Protocol (ASP). The project was completed on September 28, 1992.

Frank Sendeni
Laboratory Director

Date: Sept 28, 1992

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CASE NARRATIVE

Client : ERM - Northeast, Inc.

Case : E16000

SDG : B8(0-2)

Samples : B8(0-2)
B8(8-10) *(EXTRACT AND HOLD)*
B12(0-2)
B12(2-4)
B12(8-10) *(EXTRACT AND HOLD)*
B13(0-2)
B13(2-4)
B13(8-10) *(EXTRACT AND HOLD)*
B14(0-2)
B14(2-4)
B14(8-10) *(EXTRACT AND HOLD)*
B15(0-2)
B16(2-4)
B16(8-10) *(EXTRACT AND HOLD)*
DUP6
FB6

Note:
Samples in this case were assessed for PCB's only using a modification of method 8080 as discussed previously. See Chain of Custody (COC).

PCB

Following this narrative, please find corresponding peaks used for PCB identification.

An incorrect amount of surrogate was added to samples PBLK6, MSB6, B13(2-4)MS and B13(2-4)MSD. Spike compounds, however, were added at appropriate levels, and corresponidng recoveries were all within the advisory limits in the MS/MSD and MSB. Based on spike data, it does not appear that a high degree of matrix interfernce exists.

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The following samples were sulfur cleaned. Chromatograms corresponding to the sulfur cleaned sample have been included after the initial analysis on the primary and confirmation columns in the sample data section. These samples did not contain any aroclor constituents (see sulfur cleaned chromatograms substantiating this fact).

SAMPLE NAME
B12(2-4)
B13(0-2)
B13(2-4)
B14(2-4)
B15(0-2)
B16(2-4)
DUP6

Sample B12(0-2) was diluted 5-fold prior to analysis due to dark coloration of the sample. No Aroclors were detected above the detection limit in the analysis or in the initial screen. Both the primary and confirmation chromatograms have been included in the data package.

Sample B8(0-2) was diluted 50-fold prior to analysis due to suspected (screening) and confirmed high levels of target constituents. Please note that the total sample area for the aroclor detected was slightly above (<10%) the standard used for quantitation (AR1260-8/3/92; 15:32) even at this, rather high, 50-fold dilution. Initial screen data indicated that this dilution was sufficient. In addition, refer to corresponding GC/MS qualitative confirmation of PCB detected in the sample.

Values for AR1016 in the MS and MSD of sample B13(2-4) were obtained from the sulfur cleaned analysis since the presence of sulfur obscured the identification of this Aroclor. The corresponding standard in the sulfur analysis has been included in the "Raw QC Data" section after the MS form 1. AR1260 values were quantitated from the run containing sulfur. All % recoveries in the MS and MSD were within the advisory limits.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Frank Sculley
Laboratory Director

Date: Sept 30, 1992

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PESTICIDE/PCB DATA INFORMATION SHEET

SDG: B8(0-2) **Client: ERM - NE** **Case No.: E16000**

EXTRACTION SUMMARY:

Matrix = SOIL, WATER (FB)

Level = LOW

Final volume after concentration (ml) = 50

Blank extraction amount (g or ml) = 400 ML , 10 G

Dual Column Analysis - 2ul on each column

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PESTICIDE/PCB DATA INFORMATION SHEET

SDG: B8(0-2) **Client: ERM** **Case No.: E16000**

STD	CONC (ppm)		PEAKS USED FOR QUANT/CONF (RT)	
			DB5	DB1701
AR1016------	1.0	---------	2.79	4.29
			3.11	4.83
			3.65	5.40
			3.87	5.76
			4.03	6.02
AR1260------	0.4	_____	8.99	12.11
			9.32	12.37
			9.73	12.87
			10.21	13.20
			11.66	15.00
AR1221------	1.0	---------	1.87	2.93
			2.10	3.37
AR1232------	1.0	---------	3.66	5.40
			3.87	5.76
			4.03	6.02
			4.55	6.39
			4.95	7.03
			5.20	7.30
AR1242------	1.0	---------	3.67	5.41
			3.87	5.76
			4.03	6.02
			4.55	6.39
			4.95	7.03
			5.20	7.30
AR1248------	1.0	---------	4.57	7.04
			4.94	7.31
			5.20	7.83
			5.96	8.15
			6.43	8.78
AR1254------	1.0	---------	6.00	8.17
			6.63	8.75
			8.31	10.00
			9.00	10.67
			9.73	12.11

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SDG: B81(0-2) **Client: ERM - NE** **Case No.: E16000**

SPIKE SUMMARY:

Average DCB area used for calculations = 239300(DB1701); 341724(DB5)
approximate DCB RT
DB5 column - 16.02
DB1701 column - 17.96

SAMPLE CALCULATIONS:

Surrogate recovery:

Sample Name - B13(0-2) (DB5)

$$\frac{234289\ /(0.1)}{341724/(0.2)} \times 100 = 137\%$$

0.1 UG ADDED IN SAMPLE; 0.2 UG ADDED IN STD

Detected Compound :

Sample Name - B8(0-2) Compound - AR1260

$$\frac{\text{sample area x fv x conc std (ppm) x DF}}{\text{standard area x kg ext x decimal dry}} = [\ ]$$

$$\frac{264091 \times 50 \times 0.4 \times 50}{244136 \times 0.01 \times 0.65} = \text{ppb}$$

170000 ug/kg

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: AES Contract: 000020

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Level:(low/med) Low

DB 5

	EPA SAMPLE NO.	S1 (DCB)#	OTHER
1	PBLK 6	10*	
2	MSB 6	14*	
3	DUP 6	144	
4	B8(0-2)	D	
5	B12(0-2)	112	
6	B12(2-4)	135	
7	B13(0-2)	137	
8	B13(2-4)	125	
9	B14(0-2)	154*	
10	B14(2-4)	143	
11	B15(0-2)	173*	
12	B15(2-4)	169*	
13	B16(0-2)	162*	
14	B16(2-4)	173*	
15	B13(2-4)MS	8*	
16	B12(2-4)MSD	5*	
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29			
30			

ADVISORY QC LIMITS (50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2F

SOIL PESTICIDE SURROGATE RECOVERY

000021

Lab Name: AES Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Level:(low/med) Low

DB 1701 Conf.

	EPA SAMPLE NO.	S1 (DCB)#	OTHER
1	PBLK 6	5*	
2	B8 (0-2)	D	
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			
30			

ADVISORY QC LIMITS (50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2E

WATER PESTICIDE SURROGATE RECOVERY

000022

Lab Name: AES Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKW6	156 *	
2	FB6	154 *	
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			
30			

ADVISORY QC LIMITS (50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II PEST-1 1/87 Rev.

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

000023

Lab Name: AES Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix Spike - EPA Sample No.: B13(2-4) Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
AR1260	2468		2237	91	60-160
AR1016	2740		2277	83	60-160

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
AR1260	2468	2477	100	9	50	60-160
AR1016	2740	2586	94	13	50	60-160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: See case narrative.

3F

SOIL PESTICIDE MATRIX SPIKE BLANK RECOVERY

000024

Lab Name: AES Contract: -

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix Spike - EPA Sample No.: MSB6 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
AR1260	1974	0	1694	86	60-160
AR1016	2194	0	2465	112	60-160

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: See case narrative.

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: AES Contract: 000025

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: 88(0-2)

Lab Sample ID: PBLKW6 Lab File ID:

Matrix: (soil/water) WATER Level:(low/med) LOW

Date Extracted: 7/2/92 Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed (1): 8/3/92 Date Analyzed (2): 8/3/92

Time Analyzed (1): 16:30 Time Analyzed (2):

Instrument ID (1): VAR2A Instrument ID (2):

GC Column ID (1): DB5 GC Column ID (2):

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	FB 6	FB 6	8/3/92	
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				

Comments:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKW 6

Lab Name: AES Contract: 000026

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(O-2)

Matrix: (soil/water) WATER Lab Sample ID: PBLKW 6

Sample wt/vol: 400 (g/mL) ML Lab File ID: _

Level: (low/med) LOW Date Received:

% Moisture: not dec. dec._____ Date Extracted: 7/24/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/3/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-21-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	1.0	U
11096-82-5	Arochlor-1260	1.0	U

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: AES Contract: 000027

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Lab Sample ID: PBLK6 Lab File ID: PBLK6

Matrix: (soil/water) SOIL Level:(low/med) LOW

Date Extracted: 7/23/92 Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed (1): 8/3/92 Date Analyzed (2): 8/3/92

Time Analyzed (1): 19:49 Time Analyzed (2): 19:47

Instrument ID (1): VAR2A Instrument ID (2): VAR2A

GC Column ID (1): DB 5 GC Column ID (2): DB1701

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	~~DUP~~ 6	DUP 6	8/4/92	
2	B 8 (0-2)	B 8(0-2)	8/4/92	8/4/92
3	B 12 (0-2)	B 12(0-2)	8/4/92	
4	B 12(2-4)	B 12(2-4)	8/4/92	
5	B 13(0-2)	B 13(0-2)	8/4/92	
6	B 13(2-4)	B 13(2-4)	8/4/92	
7	B 14(0-2)	B 14 (0-2)	8/4/92	
8	B 14(2-4)	B 14(2-4)	8/4/92	
9	B 15(0-2)	B 15(0-2)	8/4/92	
10	B 15(2-4)	B 15(2-4)	8/4/92	
11	B 16(0-2)	B 16(0-2)	8/4/92	
12	B 16(2-4)	B 16(2-4)	8/4/92	
13	B 13(2-4)MS	B 13(2-4)MS	8/5/92	
14	B 13(2-4)MSD	B 13(2-4)MSD	8/5/92	
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Comments:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK 6

Lab Name: AES Contract: 000028

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B8(0-2)

Matrix: (soil/water) SOIL Lab Sample ID: PBLK 6

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received:

% Moisture: not dec. dec._____ Date Extracted: 7/23/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/3/92

GPC Cleanup: (Y/N) N pH:7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	500.	U
11104-28-2	Arochlor-1221	500.	U
11141-16-5	Arochlor-1232	500.	U
53469-21-9	Arochlor-1242	500.	U
12672-29-6	Arochlor-1248	500.	U
11097-69-1	Arochlor-1254	500.	U
11096-82-5	Arochlor-1260	500.	U

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000029

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CASE NARRATIVE

Client : ERM - Northeast, Inc.

Case : E16000

SDG : B8(0-2)

Samples :

B8(0-2)	
B8(8-10)	*(EXTRACT AND HOLD)*
B12(0-2)	
B12(2-4)	
B12(8-10)	*(EXTRACT AND HOLD)*
B13(0-2)	
B13(2-4)	
B13(8-10)	*(EXTRACT AND HOLD)*
B14(0-2)	
B14(2-4)	
B14(8-10)	*(EXTRACT AND HOLD)*
B15(0-2)	
B16(2-4)	
B16(8-10)	*(EXTRACT AND HOLD)*
DUP6	
FB6	

Note:
Samples in this case were assessed for PCB's only using a modification of method 8080 as discussed previously. See Chain of Custody (COC).

PCB

Following this narrative, please find corresponding peaks used for PCB identification.

An incorrect amount of surrogate was added to samples PBLK6, MSB6, B13(2-4)MS and B13(2-4)MSD. Spike compounds, however, were added at appropriate levels, and corresponidng recoveries were all within the advisory limits in the MS/MSD and MSB. Based on spike data, it does not appear that a high degree of matrix interfernce exists.

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The following samples were sulfur cleaned. Chromatograms corresponding to the sulfur cleaned sample have been included after the initial analysis on the primary and confirmation columns in the sample data section. These samples did not contain any aroclor constituents (see sulfur cleaned chromatograms substantiating this fact).

SAMPLE NAME
B12(2-4)
B13(0-2)
B13(2-4)
B14(2-4)
B15(0-2)
B16(2-4)
DUP6

Sample B12(0-2) was diluted 5-fold prior to analysis due to dark coloration of the sample. No Aroclors were detected above the detection limit in the analysis or in the initial screen. Both the primary and confirmation chromatograms have been included in the data package.

Sample B8(0-2) was diluted 50-fold prior to analysis due to suspected (screening) and confirmed high levels of target constituents. Please note that the total sample area for the aroclor detected was slightly above (<10%) the standard used for quantitation (AR1260-8/3/92; 15:32) even at this, rather high, 50-fold dilution. Initial screen data indicated that this dilution was sufficient. In addition, refer to corresponding GC/MS qualitative confirmation of PCB detected in the sample.

Values for AR1016 in the MS and MSD of sample B13(2-4) were obtained from the sulfur cleaned analysis since the presence of sulfur obscured the identification of this Aroclor. The corresponding standard in the sulfur analysis has been included in the "Raw QC Data" section after the MS form 1. AR1260 values were quantitated from the run containing sulfur. All % recoveries in the MS and MSD were within the advisory limits.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Laboratory Director

Date: Sept 30 1992

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000031

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CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM-Northeast	General Electric 318 Urban St	Karen Baker
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Albany	380.048	Karen ES Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
920722-B01	FB-6	7/21/92	0845 A/P	Water		X	1	PCBs
920722-B02	DUP-6		A/P	Soil		X	1	PCBs
920722-B03	B8, 0'-2'		1010 A/P	Soil		X	1	PCBs
920722-B04	B8, 8'-10'		1020 A/P	Soil		X	1	EXTRACT + HOLD FOR POSSIBLE PCB ana
920722-B05	B12, 0'-2'		1045 A/P	Soil		X	1	PCBs
920722-B06	B12, 2'-4'		1050 A/P	Soil		X	1	PCBs
920722-B07	B12, 8'-10'		1100 A/P	Soil		X	1	EXTRACT + HOLD FOR POSSIBLE PCB analysis
920722-B08	B13, 0'-2'		0820 A/P	Soil		X	1	PCBs
920722-B09	B13, 2'-4' (+MS/MSD)		0825 A/P	Soil		X	2	2-PCBs (1 is ms/ms
920722-B10	B13, 8'-10'		0835 A/P	Soil		X	1	EXTRACT + HOLD - PCBs
920722-B11	B14, 0'-2'		0850 A/P	Soil		X	1	PCBs
920722-B12	B14, 2'-4'		0855 A/P	Soil		X	1	PCBs
920722-B13	B14, 8'-10'		0900 A/P	Soil		X	1	EXTRACT + HOLD FOR Possible PCB analys

Turnaround Time

Laboratory Approval:

Relinquished by: (Signature) Karen ES Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Dispatched by: (Signature) Karen ES Baker — **Date/Time** 7/21/92	**Received for Laboratory by:**	**Date/Time** 7/22/92 9:45
Method of Shipment: Federal Express	**Send Report To:** Dave Bradley, ERM-NE Albany	**Client Phone No.:**

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of $10.00 per container for disposal.

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

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CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM-Northeast	General Electric 318 Urban St.	Karen Baker
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Albany	380.048	Karen E Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
920722-B14	B15, 0'-2'	7/21/92	0912 A P	Soil		X	1	PCBs
920722-B15	B15, 2'-4'		0915 A P	Soil		X	1	PCBs
920722-B16	B15, 8'-10'		0920 A P	Soil		X	1	[redacted] EXTRACT + HOLD FOR POSS.
920722-B17	B16, 0'-2'		0935 A P	Soil		X	1	PCBs
920722-B18	B16, 2'-4'		0940 A P	Soil		X	1	PCBs
920722-B19	B16, 8'-10'		0950 A P	Soil		X	1	EXTRACT + HOLD FOR POSSIBLE PCB analy:
920722-B20	B17, 0'-2'		1115 A P	Soil		X	1	PCBs
920722-B21	B17, 2'-4'		1120 A P	Soil		X	1	PCBs
920722-B22	B17, 8'-10'		1130 A P	Soil		X	1	EXTRACT + HOLD FOR POSSIBLE PCB analy
920722-B23	B19, 1.5'-3.5'		1205 A P	Soil		X	1	PCBs
920722-B24	B19, 3.5'-5.5'		1210 A P	Soil		X	1	PCBs
920722-B25	B19, 8'-10'		1215 A P	Soil		X	1	EXTRACT & HOLD FOR POSSIBLE PCB anal.
			A P					

Turnaround Time

Laboratory Approval:

Relinquished by: (Signature) Karen E Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Dispatched by: (Signature) Karen E Baker — **Date/Time** 7/21/92	**Received for Laboratory by:**	**Date/Time** 7/22/92 9:45
Method of Shipment: Federal Express	**Send Report To:** Dave Bradley-ERM-NE Albany	**Client Phone No.:**

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of $10.00 per container for disposal.

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

000033

FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL PACKAGE TRACKING NUMBER 4214430290

4214430290

1 Date 7-21-92

RECIPIENT'S COPY

From (Your Name) Please Print: Bob Fabian
Your Phone Number (Very Important): (716) 633-5120
Company: ERM-Northeast
Department/Floor No.:
Street Address: 550c Main St.
City: Williamsville State: N.Y. ZIP Required: 14221

2 To (Recipient's Name) Please Print: Sample Handler
Recipient's Phone Number: (518) 434-46
Company: Adirondack Environmental Servi
Department:
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 214 North Pearl St.
City: Albany State: N.Y. ZIP Required: 12207

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)
380.048

H If HOLD FOR PICK-UP, Print FEDEX Address Here
Street Address:
City State ZIP Required

3 PAYMENT 1 ☐ Bill Sender 2 ☐ Bill Recipient's FedEx Acct. No 3 ☒ Bill 3rd Party FedEx Acct. No 4 ☐ Bill Credit Card
5 ☐ Cash/Check

4 SERVICES (Check only one box)

Priority Overnight	Standard Overnight
11 ☒ YOUR PACKAGING	51 ☐ YOUR PACKAGING
16 ☐ FEDEX LETTER *	56 ☐ FEDEX LETTER *
12 ☐ FEDEX PAK *	52 ☐ FEDEX PAK *
13 ☐ FEDEX BOX	53 ☐ FEDEX BOX
14 ☐ FEDEX TUBE	54 ☐ FEDEX TUBE
Economy Two-Day	**Government Overnight**
30 ☐ ECONOMY	46 ☐ GOVT LETTER
	41 ☐ GOVT PACKAGE

Freight Service
70 ☐ OVERNIGHT FREIGHT ** 80 ☐ TWO-DAY FREIGHT **
† Delivery commitment required
*Declared Value Limit $100
**Call for delivery schedule

5 DELIVERY AND SPECIAL HANDLING (Check services required)

1 ☐ HOLD FOR PICK-UP
2 ☒ DELIVER WEEKDAY
3 DELIVER SATURDAY (Extra charge) ☐
4 ☐ DANGEROUS GOODS (Extra charge)
5 ☐
6 ☐ DRY ICE Lbs
7 ☐ OTHER SPECIAL SERVICE
8 ☐
9 ☐ SATURDAY PICK-UP (Extra charge)
10 ☐
11 ☐
12 ☐ HOLIDAY DELIVERY (Extra charge)

6

PACKAGES	WEIGHT in Pounds Only	YOUR DECLARED VALUE
1	46	
Total	Total	Total
	46	

DIM SHIPMENT (Chargeable Weight) ☐ _____ lbs.
___ x ___ x ___ = ___
Received At
1 ☐ Regular Stop 3 ☐ Drop Box
2 ☐ On-Call Stop 4 ☐ BSC 5 ☒ Station

7 Release Signature:
FedEx Emp. No Date/Time

Emp. No. Date
☐ Cash Received
☐ Return Shipment
☐ Third Party ☐ Chg. To Del. ☐ Chg. To Hold
Street Address
City State Zip
Received By: X
Date/Time Received FedEx Employee Number

Federal Express Base Charges
Declared Value Chg
Other
Other 2
Total Charges

REVISION DATE 6/91
PRINTED IN U.S.A.
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099

INTERNAL CHAIN OF CUSTODY 000034

AES SAMPLE # 920722-B01 BOTTLE # 1 CLIENTS SAMP. ID. FB-6

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[illegible]	Colleen O'Hehir	to extract	7/23/92	826
Colleen O'Hehir	[illegible]	return to log in	7/23/92	1534

AES SAMPLE # 920722-B02 BOTTLE # 1 CLIENTS SAMP. ID. Dup-6

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[illegible]	Colleen O'Hehir	to extract	7/23/92	1248
Colleen O'Hehir	[illegible]	return to log in	7/23/92	1545
Christine Hoagland	Cathy Cleveland	To re-extract	7/27/92	09:00
Cathy Cleveland	Christine Hoagland	Returned to Log-in		12:20

AES SAMPLE # 920722-B03 BOTTLE # 1 CLIENTS SAMP. ID. BS, 0'-2'

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[illegible]	Colleen O'Hehir	to extract	7/23/92	1248
Colleen O'Hehir	[illegible]	return to log in	7/23/92	1545
Christine Hoagland	Cathy Cleveland	To Re-extract	7/27/92	09:00
Cathy Cleveland	Christine Hoagland	Returned to Log-in	7/27/92	12:20

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INTERNAL CHAIN OF CUSTODY **000035**

AES SAMPLE # 920722-B04 BOTTLE # 1 CLIENTS SAMP. ID. B6, 3-10'

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Bastian	Colleen O'Hara	to extract	7/23/92	1249
Colleen O'Hara	Bastian	return to Log In	7/23/92	1545
Christine Hegeland	Cathy Cerretta	To Extract	7/27/92	09:00
Cathy Cerretta	Christine Hegeland	Returned to Login	7/27/92	12:20

AES SAMPLE # 920722-B05 BOTTLE # 1 CLIENTS SAMP. ID. B12 0-2'

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Bastian	Colleen O'Hara	to extract	7/23/92	1249
Colleen O'Hara	Bastian	return to Log In	7/23/92	1545
Christine Hegeland	Cathy Cerretta	To Extract	7/27/92	09:00
Cathy Cerretta	Christine Hegeland	returned to Login	7/27/92	12:20

AES SAMPLE # 920722-B06 BOTTLE # 1 CLIENTS SAMP. ID. B12 2-4'

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Bastian	Colleen O'Hara	to extract	7/23/92	1249
Colleen O'Hara	Bastian	return to Log In	7/23/92	1545

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000036

INTERNAL CHAIN OF CUSTODY

AES SAMPLE # 920722-B07	BOTTLE # 1	CLIENTS SAMP. ID. B12, 8'-10'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/23/92	1250
[signature]	[signature]	return to Log In	7/23/92	1546

AES SAMPLE # 920722-B08	BOTTLE # 1	CLIENTS SAMP. ID. B13 0'-2'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/23/92	1250
[signature]	[signature]	return to Log In	7/23/92	1546

AES SAMPLE # 920722-B09	BOTTLE # 1	CLIENTS SAMP. ID. B13 2'-4' (MS/MSD)		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/23/92	1250
[signature]	[signature]	return to Log In	7/23/92	1546

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INTERNAL CHAIN OF CUSTODY

000037

AES SAMPLE # 920722-B09 RELINQUISHED BY	BOTTLE # 2 RECEIVED BY	CLIENTS SAMP. ID. B13, 2'-4' (ms/msd) REASON FOR TRANSFER	DATE	TIME
	Colleen O'Hara			

AES SAMPLE # 920722-B10 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. B3, 8'-10' REASON FOR TRANSFER	DATE	TIME
Brian	Colleen O'Hara	to extract	7/23/92	1253
Colleen O'Hara	Brian	return to log in	7/23/92	1548

AES SAMPLE # 920722-B11 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. B14, 0'-2' REASON FOR TRANSFER	DATE	TIME
Brian	Colleen O'Hara	to extract	7/23/92	1253
Colleen O'Hara	Brian	return to log in	7/23/92	1548

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INTERNAL CHAIN OF CUSTODY 000038

AES SAMPLE # 920722-B12	BOTTLE # 1	CLIENTS SAMP. ID. B14, (2'-4')		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/23/92	1253
[signature]	[signature]	return to log in	7/23/92	1548

AES SAMPLE # 920722-B13	BOTTLE # 1	CLIENTS SAMP. ID. B14, 8'-10'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/23/92	1253
[signature]	[signature]	return to log in	7/23/92	1548

AES SAMPLE # 920722-B14	BOTTLE # 1	CLIENTS SAMP. ID. B15, 0'-2'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/23/92	1253
[signature]	[signature]	return to log in	7/23/92	1548

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000039

AES SAMPLE # 920722-B15	BOTTLE # 1	CLIENTS SAMP. ID. B15, 2'-4'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[illegible]	[illegible]	to extract	7/23/92	1254
[illegible]	[illegible]	return to frig Dn	7/23/92	1549

AES SAMPLE # 920722-B16	BOTTLE # 1	CLIENTS SAMP. ID. B15, 8'-10'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[illegible]	[illegible]	to extract	7/23/92	1254
[illegible]	[illegible]	return to frig Dn	7/23/92	1549

AES SAMPLE # 920722-B17	BOTTLE # 1	CLIENTS SAMP. ID. B16, 0'-2'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[illegible]	[illegible]	to extract	7/23/92	1254
[illegible]	[illegible]	return to frig Dn	7/23/92	1549

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000040

AES SAMPLE # 920722-B15	BOTTLE # 1	CLIENTS SAMP. ID. B16, 3'-4'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/23/92	1255
[signature]	[signature]	return to Log In	7/25/92	1597

AES SAMPLE # 920722-B19	BOTTLE # 1	CLIENTS SAMP. ID. B16, 8'-10'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/23/92	1255
[signature]	[signature]	return to Log In	7/23/92	1552

AES SAMPLE # 920722-B20	BOTTLE # 1	CLIENTS SAMP. ID. B17, 0'-2'		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/24/92	826
[signature]	[signature]	return to Log In	7/24/92	1534

Adirondack Environmental Services, Inc.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB
ANALYSES

SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	DATE EXTRACTED	DATE ANALYZED
B8(0-2)	SOIL	7/21/92	7/22/92	7/23/92	8/4/92
B12(0-2)	SOIL	7/21/92	7/22/92	7/23/92	8/4/92
B12(2-4)	SOIL	7/21/92	7/22/92	7/23/92	8/4/92
B13(0-2)	SOIL	7/21/92	7/22/92	7/23/92	8/4/92
B13(2-4)	SOIL	7/21/92	7/22/92	7/23/92	8/4/92
B14(0-2)	SOIL	7/21/92	7/22/92	7/23/92	8/4/92
B14(2-4)	SOIL	7/21/92	7/22/92	7/23/92	8/4/92
B15(0-2)	SOIL	7/21/92	7/22/92	7/23/92	8/4/92
B15(2-4)	SOIL	7/21/92	7/22/92	7/23/92	8/4/92
B16(0-2)	SOIL	7/21/92	7/22/92	7/23/92	8/4/92
B16(2-4)	SOIL	7/21/92	7/22/92	7/23/92	8/4/92
DUP-6	SOIL	7/21/92	7/22/92	7/23/92	8/4/92
FB-6	WATER	7/21/92	7/22/92	7/24/92	8/3/92

PCB DATA VALIDATION OF SOIL SAMPLE ANALYSES
318 URBAN STREET SITE OFF PROPERTY SAMPLING
ERM-NORTHEAST PROJECT NUMBER 380.048
ADIRONDACK ENVIRONMENTAL SERVICES CASE NO. E16000, SDG NO. B-4 (8-10)

Deliverables:

The above referenced Data Summary Package and Sample Data Package contain all required deliverables as stipulated under the 1989 New York State Analytical Services Protocol (ASP) Superfund category for all PCB analyses. PCB analyses were performed by an amended pesticide/PCB analytical method previously approved by the NYSDEC. This validation report pertains to the following samples:

Samples		QC Samples
B4 (8-10)	B9 (2-4)	B11 (2-4) MS
B5 (8-10)	B10 (0-2)	B11 (2-4) MSD
B6 (0-2)	B10 (4-6)	FB5
B6 (2-4)	B11 (0-2)	
B7 (0-2)	B11 (2-4)	
B7 (2-4)	DUP5	
B9 (0-2)		

The following items/criteria were reviewed:

- Case Narrative
- Deliverable Requirements
- Holding times
- GC/MS Tuning (confirmational analysis)
- Initial GC calibration data
- Continuing GC calibration data
- PCB standards summary and data
- Procedural blank summary and data
- Field blank data
- Surrogate recoveries, retention times, and summary
- MS/MSD recoveries and summary
- Method blank spike recoveries and summary
- Field duplicate
- Organic Analysis Data Sheets (Form I)
- GC/ECD Chromatograms and data system printouts

The above items were in compliance with NYSDEC QC criteria with the exceptions discussed in the following text. The data have been validated according to the above procedures and qualified as described on the attached definitions list.

- All samples were extracted for analysis within the five day holding time and extracts were all analyzed within forty days of extraction per ASP QC criteria. The table below details holding time information.

Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
B4 (8-10)	Soil	7/20/92	7/21/92	7/21/92	8/4/92
B5 (8-10)	Soil	7/20/92	7/21/92	7/21/92	8/4/92
B6 (0-2)	Soil	7/20/92	7/21/92	7/21/92	8/4/92
B6 (2-4)	Soil	7/20/92	7/21/92	7/22/92	8/4/92
B7 (0-2)	Soil	7/20/92	7/21/92	7/22/92	8/4/92
B7 (2-4)	Soil	7/20/92	7/21/92	7/22/92	8/4/92
B9 (0-2)	Soil	7/20/92	7/21/92	7/22/92	8/4/92
B9 (2-4)	Soil	7/20/92	7/21/92	7/22/92	8/4/92
B10 (0-2)	Soil	7/20/92	7/21/92	7/22/92	8/4/92
B10 (4-6)	Soil	7/20/92	7/21/92	7/22/92	8/4/92
B11 (0-2)	Soil	7/20/92	7/21/92	7/22/92	8/4/92
B11 (2-4)	Soil	7/20/92	7/21/92	7/22/92	8/4/92
DUP5	Soil	7/20/92	7/21/92	7/21/92	8/4/92
FB5	Water	7/20/92	7/21/92	7/22/92	8/4/92

- GC/ECD initial calibration factors and retention time (RT) windows were correctly calculated and reported. Initial and continuing calibration standards for aroclor 1221 only feature two peaks instead of the required three. However, since no aroclor 1221 was detected in any samples, no qualification to the data is required.

- The first continuing calibration standard (Ar 1260) analyzed in association with this package indicated that the instrument response to PCB compounds had changed significantly (26%D), however no new initial calibration was performed as required by ASP criteria. In telephone conversations between ERM and the laboratory it was decided to use the calibration factor from the first continuing calibration as the initial response factor. All subsequent continuing calibration response factors exhibited less than 15% difference from the new initial. The new initial calibration standard is, however, a 0.4ng standard and the peak areas of the aroclor 1260 exhibited by samples B5 (8-10), B-6 (0-2), B-6 (2-4), B7 (0-2), B9 (0-2), B10 (4-6) and B11 (0-2) were greater than the standard peak area used for quantitation. The sample results

were, however, within the linear range of the instrument as determined by the laboratory per ASP criteria. Therefore, no qualification to the data is made.

- Procedural blanks were analyzed with the proper frequency (one per 20 samples per matrix) and exhibited no positive results for PCB analyses. All chromatograms exhibited stable baselines.

- One aqueous field blank submitted for PCB analysis with these soil samples (FB-5) exhibited 1.3 $\mu g/\ell$ (ppb) of aroclor 1260. Since all sample results are greater than 10 times this blank result (i.e., >13 $\mu g/kg$ or 13 ppb), no qualification to the data is made.

- All samples submitted for PCB analyses except B4 (8-10), B6 (0-2) and B11 (2-4) exhibited surrogate recoveries higher than the 50%-150% advisory QC limits. All positive sample results reported (except for B4 (8-10), B6 (0-2) and B11 (2-4)) are considered estimated and possibly biased high. Sample B6 (0-2) exhibited zero surrogate recovery due to a fifty fold dilution, however no qualification to this data is necessary. Surrogate recovery summaries are attached.

- The MS recovery for aroclor 1260 (56%) was slightly below the 60%-160% QC limits. All other MS/MSD recoveries were within QC limits as were the relative percent differences between MS and MSD results. No qualifications to the sample data is necessary. Matrix spike summaries are attached.

- The method blank spike for aroclor 1016 (155%) was higher than the 75%-125% QC limits. No qualification of sample data is necessary due to this. Method blank spike summaries are attached.

- Sample DUP5 is a field duplicate of sample B9 (2-4). The table below presents a comparison of their results. The data indicates acceptable field sampling techniques were employed.

	B9 (2-4)	DUP5	RPD
aroclor 1260	0.19J mg/kg	0.17J mg/kg	11%

- All gas chromatographic data and system printouts have been reviewed and are acceptable.

- Organic analysis data sheets (Form I) for sample and QC analyses are attached. All data are valid and usable as presented on these sheets.

- Seven samples, B6 (2-4), B7 (0-2), B7 (2-4), B9 (2-4), B10 (0-2), B11 (2-4), and DUP5 exhibited significant interference in the early part of the chromatogram arising from the presence of sulfur compounds. These samples were sulfur cleaned along with an aroclor 1016/1260 standard and re-analyzed. All seven analyses confirmed the absence of PCBs in the sulfur cleaned samples.

SUMMARY OF PCB RESULTS
318 URBAN STREET SITE OFF PROPERTY SAMPLING
ADIRONDACK ENVIRONMENTAL SERVICES CASE NO. E16000,SDG NO.B4 (8-10)

Sample ID	*AR 1260 (mg/kg)
B4 (8-10)	0.58U
B5 (8-10)	13
B6 (0-2)	150
B6 (2-4)	12
B7 (0-2)	13
B7 (2-4)	1.2U
B9 (0-2)	3.1
B9 (2-4)	0.19J
B10 (0-2)	0.56U
B10 (4-6)	2.9
B11 (0-2)	13
B11 (2-4)	0.36J
DUP5	0.17J
FB5	1.3 $\mu g/\ell$

* Data presented as reported prior to qualification by data validation.

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B4(8-10)

Lab Name: AES,INC Contract: 000005

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B4(8-10)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 14. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 8.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	580.	U
11104-28-2	Arochlor-1221	580.	U
11141-16-5	Arochlor-1232	580.	U
53469-21-9	Arochlor-1242	580.	U
12672-29-6	Arochlor-1248	580.	U
11097-69-1	Arochlor-1254	580.	U
11096-82-5	Arochlor-1260	580.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B5(8-10)

Lab Name: AES,INC Contrac 000006

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B5(8-10)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 16. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 8.8 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	3000.	U
11104-28-2	Arochlor-1221	3000.	U
11141-16-5	Arochlor-1232	3000.	U
53469-21-9	Arochlor-1242	3000.	U
12672-29-6	Arochlor-1248	3000.	U
11097-69-1	Arochlor-1254	3000.	U
11096-82-5	Arochlor-1260	13000.	J

(R) 10-9-92

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B6(0-2)

Lab Name: AES,INC Contract: 000007

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B6(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 23. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 50.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	32000.	U
11104-28-2	Arochlor-1221	32000.	U
11141-16-5	Arochlor-1232	32000.	U
53469-21-9	Arochlor-1242	32000.	U
12672-29-6	Arochlor-1248	32000.	U
11097-69-1	Arochlor-1254	32000.	U
11096-82-5	Arochlor-1260	150000.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B6(2-4)

Lab Name: AES,INC Contract: 000008

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B6(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 16. dec._____ Date Extracted: 7/22/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	3000.	U
11104-28-2	Arochlor-1221	3000.	U
11141-16-5	Arochlor-1232	3000.	U
53469-21-9	Arochlor-1242	3000.	U
12672-29-6	Arochlor-1248	3000.	U
11097-69-1	Arochlor-1254	3000.	U
11096-82-5	Arochlor-1260	12000.	J

10-4-92

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B7(0-2)

Lab Name: AES,INC Contract: 000009

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B7(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 16. dec._____ Date Extracted: 7/22/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	3000.	U
11104-28-2	Arochlor-1221	3000.	U
11141-16-5	Arochlor-1232	3000.	U
53469-21-9	Arochlor-1242	3000.	U
12672-29-6	Arochlor-1248	3000.	U
11097-69-1	Arochlor-1254	3000.	U
11096-82-5	Arochlor-1260	13000.	J

10-7-92

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B7(2-4)

Lab Name: AES,INC Contract: 000010

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B7(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 17. dec._____ Date Extracted: 7/22/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 7.9 Dilution Factor: 2.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	1200.	U
11104-28-2	Arochlor-1221	1200.	U
11141-16-5	Arochlor-1232	1200.	U
53469-21-9	Arochlor-1242	1200.	U
12672-29-6	Arochlor-1248	1200.	U
11097-69-1	Arochlor-1254	1200.	U
11096-82-5	Arochlor-1260	1200.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B9(0-2)

Lab Name: AES,INC Contract: CC0011

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B9(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 17. dec._____ Date Extracted: 7/22/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	600.	U
11104-28-2	Arochlor-1221	600.	U
11141-16-5	Arochlor-1232	600.	U
53469-21-9	Arochlor-1242	600.	U
12672-29-6	Arochlor-1248	600.	U
11097-69-1	Arochlor-1254	600.	U
11096-82-5	Arochlor-1260	3100.	J

(D) 10-9-92

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B9(2-4)

Lab Name: AES,INC Contract: 000012

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B9(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 20. dec._____ Date Extracted: 7/22/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	620.	U
11104-28-2	Arochlor-1221	620.	U
11141-16-5	Arochlor-1232	620.	U
53469-21-9	Arochlor-1242	620.	U
12672-29-6	Arochlor-1248	620.	U
11097-69-1	Arochlor-1254	620.	U
11096-82-5	Arochlor-1260	190.	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B10(0-2)

Lab Name: AES,INC Contract: OCC013

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B10(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 11. dec._____ Date Extracted: 7/22/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	560.	U
11104-28-2	Arochlor-1221	560.	U
11141-16-5	Arochlor-1232	560.	U
53469-21-9	Arochlor-1242	560.	U
12672-29-6	Arochlor-1248	560.	U
11097-69-1	Arochlor-1254	560.	U
11096-82-5	Arochlor-1260	560.	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B10(4-6)

Lab Name: AES,INC Contract: 000014

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

,INC

Matrix: (soil/water) SOIL Lab Sample ID: B10(4-6)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 16. dec._____ Date Extracted: 7/22/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 8.5 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	600.	U
11104-28-2	Arochlor-1221	600.	U
11141-16-5	Arochlor-1232	600.	U
53469-21-9	Arochlor-1242	600.	U
12672-29-6	Arochlor-1248	600.	U
11097-69-1	Arochlor-1254	600.	U
11096-82-5	Arochlor-1260	2900.	J

10-9-92

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B11(0-2)

Lab Name: AES,INC Contract: 000015

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B11(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 20. dec._____ Date Extracted: 7/22/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	3100.	U
11104-28-2	Arochlor-1221	3100.	U
11141-16-5	Arochlor-1232	3100.	U
53469-21-9	Arochlor-1242	3100.	U
12672-29-6	Arochlor-1248	3100.	U
11097-69-1	Arochlor-1254	3100.	U
11096-82-5	Arochlor-1260	13000.	J

10-4-92

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B11(2-4)

Lab Name: AES,INC Contract: 000016

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: B11(2-4)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 17. dec._____ Date Extracted: 7/22/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	600.	U
11104-28-2	Arochlor-1221	600.	U
11141-16-5	Arochlor-1232	600.	U
53469-21-9	Arochlor-1242	600.	U
12672-29-6	Arochlor-1248	600.	U
11097-69-1	Arochlor-1254	600.	U
11096-82-5	Arochlor-1260	360.	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP5

Lab Name: AES,INC Contract: 000017

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: DUP5

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 24. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 4/92

GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	660.	U
11104-28-2	Arochlor-1221	660.	U
11141-16-5	Arochlor-1232	660.	U
53469-21-9	Arochlor-1242	660.	U
12672-29-6	Arochlor-1248	660.	U
11097-69-1	Arochlor-1254	660.	U
11096-82-5	Arochlor-1260	170.	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB5

Lab Name: AES Contract: 0CC018

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-1

Matrix: (soil/water) WATER Lab Sample ID: FB5

Sample wt/vol: 400.0 (g/mL) ML Lab File ID: FB5

Level: (low/med) LOW Date Received: 7/21/92

% Moisture: not dec. 100. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 8/ 3/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Arochlor-1016	1.0	U
11104-28-2	Arochlor-1221	1.0	U
11141-16-5	Arochlor-1232	1.0	U
53469-21-9	Arochlor-1242	1.0	U
12672-29-6	Arochlor-1248	1.0	U
11097-69-1	Arochlor-1254	1.0	U
11096-82-5	Arochlor-1260	1.3	J

10-5-92

FORM I PEST 1/87 Rev.

Adirondack Environmental Services, Inc.
314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

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TITLE PAGE

On July 21, 1992, eighteen (18) soil samples, and one (1) fieldblank were received by Adirondack Environmental Services, Inc. from ERM-Northeast, Inc. in association with the ERM-Buffalo Sweeney Steel Project. These samples were analyzed for PCB constituents using a modification of method 8080 as previously described in accordance with the 1989 NYSDEC Analytical Services Protocol (ASP). The project was completed on September 30, 1992.

Laboratory Director

Date: Sept 30, 1992

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000001

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CASE NARRATIVE

Client : ERM - Northeast, Inc.

Case : E16000

SDG : B4(8-10)

Samples :
B4(8-10)
B5(8-10)
B6(0-2)
B6(2-4)
B6(8-10) *(EXTRACT AND HOLD)*
B7(0-2)
B7(2-4)
B7(8-10) *(EXTRACT AND HOLD)*
B9(0-2)
B9(2-4)
B9(8-10) *(EXTRACT AND HOLD)*
B10(0-2)
B10(4-6)
B10(8-10) *(EXTRACT AND HOLD)*
B11(0-2)
B11(2-4)
B11(8-10) *(EXTRACT AND HOLD)*
DUP5
FB5

Note:
Samples in this case were assessed for PCB's only using a modification of method 8080 as discussed previously. See Chain of Custody (COC).

PCB

Following this narrative, please find corresponding peaks used for PCB identification.

Sample B7(2-4) was diluted 2-fold prior to analysis. No Aroclors were detected in the sample. Corresponding sulfur and non-sulfur cleaned analyses have been included in the data package on the primary and confirmation analysis for comparison. Results presented for the sample are consistent with initial screen data.

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000002

The following samples were sulfur cleaned. Chromatograms corresponding to the sulfur cleaned samples have been included after the initial analysis on the primary and confirmation columns in the sample data section. These samples did not contain any aroclor constituents (see sulfur cleaned chromatograms substantiating this fact).

SAMPLE NAME
B11(2-4)
B7(0-2)
DUP5
B6(2-4)
B10(0-2)
B9(2-4)
B7(2-4)

The following samples were diluted prior to analysis due to suspected (screening) and confirmed high levels of target constituents. Please note that the total sample area for the aroclor detected was slightly above the standard used for quantitation (AR1260-8/3/92; 15:32) even at the dilutions noted. Initial screen data indicated that these dilutions were sufficient.

SAMPLE NAME	DILUTION FACTOR	% OVER STANDARD AREA
B5(8-10)	5	12
B6(0-2)	50	12
B6(2-4)	5	3
B7(0-2)	5	11
B11(0-2)	5	3

In addition, the aroclor areas in samples B9(0-2) and B10(4-6) were 30 and 23% respectively above the standard area used for quantitation (AR1260-8/3/92; 15:32). These samples were not diluted. Again, initial screen data did not indicate that the samples in question required a dilution.

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000003

Values for AR1016 in the MS and MSD of sample B11(2-4) were obtained from the sulfur cleaned analysis since the presence of sulfur obscured the identification of this Aroclor. The corresponding standard in the sulfur analysis has been included in the "Raw QC Data" section after the MS form 1. AR1260 values were quantitated from the run containing sulfur. The % recoveries for aroclor 1016 in the MS and MSD were within the advisory limits on both the primary and confirmation columns.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Frank Sendlin
Laboratory Director

Date: Sept 30, 1992

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00003A

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PESTICIDE/PCB DATA INFORMATION SHEET

SDG: B4(8-10) **Client: ERM - NE** **Case No.: E16000**

EXTRACTION SUMMARY:

Matrix = SOIL, WATER (FB)

Level = LOW

Final volume after concentration (ml) = 50 (soil), 4 (water)

Blank extraction amount (g or ml) = 400 ML , 10 G

Dual Column Analysis - 2ul on each column

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000038

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PESTICIDE/PCB DATA INFORMATION SHEET

SDG: B4(8-10) **Client: ERM** **Case No.: E16000**

STD	CONC (ppm)		PEAKS USED FOR QUANT/CONF (RT) DB5	DB1701
AR1016------	1.0	---------	2.79	4.29
			3.11	4.83
			3.65	5.40
			3.87	5.76
			4.03	6.02
AR1260------	0.4	_____	8.99	12.11
			9.32	12.37
			9.73	12.87
			10.21	13.20
			11.66	15.00
AR1221------	1.0	---------	1.87	2.93
			2.10	3.37
AR1232------	1.0	---------	3.66	5.40
			3.87	5.76
			4.03	6.02
			4.55	6.39
			4.95	7.03
			5.20	7.30
AR1242------	1.0	---------	3.67	5.41
			3.87	5.76
			4.03	6.02
			4.55	6.39
			4.95	7.03
			5.20	7.30
AR1248------	1.0	---------	4.57	7.04
			4.94	7.31
			5.20	7.83
			5.96	8.15
			6.43	8.78
AR1254------	1.0	---------	6.00	8.17
			6.63	8.75
			8.31	10.00
			9.00	10.67
			9.73	12.11

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000036

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SDG: B4(8-10) **Client: ERM - NE** **Case No.: E16000**

SPIKE SUMMARY:

Average DCB area used for calculations =
8/3/92 Analysis: 239300(DB1701); 335363(DB5)
7/30/92 Analysis: 260420(DB1701); 380074(DB5)

approximate DCB RT
DB5 column - 16.02
DB1701 column - 17.96

SAMPLE CALCULATIONS:

Surrogate recovery:

Sample Name - B9(0-2) (DB1701)

$$\frac{152573/(0.1)}{239300/(0.2)} \times 100 = 128\%$$

0.1 UG ADDED IN SAMPLE; 0.2 UG ADDED IN STD

Detected Compound :

Sample Name - B11(2-4) Compound - AR1260

$$\frac{\text{sample area} \times \text{fv} \times \text{conc std (ppm)} \times \text{DF}}{\text{standard area} \times \text{kg ext} \times \text{decimal dry}} = [\ ]$$

$$\frac{36712 \times 50 \times 0.4 \times 1.00}{244136 \times 0.01 \times 0.83} = \text{ppb}$$

360 ug/kg

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: AES,INC Contract: 000019

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)\

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKW5	164 *	
2	FB5	172*	
3			
4			
5			
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27			
28			
29			
30			

ADVISORY
QC LIMITS
(50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II PEST-1 1/87 Rev.

WATER PESTICIDE SURROGATE RECOVERY

CC0020

Lab Name: AES, INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Conf.

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKW5	143	
2	FBS	141	
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
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27			
28			
29			
30			

ADVISORY QC LIMITS (50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II PEST-1 1/87 Rev.

2F

SOIL PESTICIDE SURROGATE RECOVERY

000021

Lab Name: AES, INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKE5	159 *	
2	PBLKMSBE5	163 *	
3	DUP5	155 *	
4	B4(8-10)	145	
5	B5(8-10)	192 *	
6	B6(2-4)	169 *	
7	B7(0-2)	178 *	
8	B7(2-4)	178 *	
9	B9(0-2)	184 *	
10	B9(2-4)	161 *	
11	B10(0-2)	164 *	
12	B10(4-6)	197 *	
13	B11(0-2)	208 *	
14	B11(2-4)	125	
15	B11(2-4)MS	166 *	
16	B11(2-4)MSD	175 *	
17	B6(0-2)	D	
18	PBLKE4	129	
19			
20			
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22			
23			
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25			
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27			
28			
29			
30			

ADVISORY QC LIMITS (50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: AES, INC Contract: 000022

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Level: (low/med) LOW

conf.

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKE5	132	
2	DUP5	127	
3	B5(8-10)	152 *	
4	B6(2-4)	182 *	
5	B7(0-2)	172 *	
6	B9(0-2)	128	
7	B9(2-4)	147	
8	B10(4-6)	179 *	
9	B11(0-2)	202 *	
10	B11(2-4)	114	
11	B11(2-4)MS	149	
12	B11(2-4)MSD	144	
13	B6(0-2)	D	
14	PBLKE4	157 *	
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28			
29			
30			

ADVISORY QC LIMITS (50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES,INC Contract: CCC023

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix Spike - EPA Sample No.: B11(2-4) Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Arochlor-1016	3304.22	.00	2512.59	76	60-160
Arochlor-1260	2972.89	362.35	2019.89	56 *	60-160

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arochlor-1016	3304.22	2148.69	65	16	50	60-160
Arochlor-1260	2972.89	2449.59	70	23	50	60-160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 3 out of 4 outside limits

COMMENTS:

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES,INC Contract: CC0024

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix Spike - EPA Sample No.: B11(2-4) Level:(low/med) LOW

conf.

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Arochlor-1016	3304.22	.00	2798.70	85	60-160
Arochlor-1260	2972.89	489.72	2131.43	55 *	60-160

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arochlor-1016	3304.22	2822.61	85	0.4	50	60-160
Arochlor-1260	2972.89	2499.37	68	20	50	60-160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 3 out of 4 outside limits

COMMENTS:

SOIL PCB MATRIX SPIKE BLANK RECOVERY 000025

Lab Name: AES,INC Contract:
Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)
EPA Sample No.: PBLK MSBE5 Matrix: SOIL

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MSB CONCENTRATION (ug/Kg)	% REC.	QC LIMITS REC.
AROCLOR-1016	2194	0	3400	155*	75-125
AROCLOR-1260	1974	0	1900	96	75-125

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: AES,INC Contract: 000028

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Lab Sample ID: PBLKW5 Lab File ID:

Matrix: (soil/water) WATER Level:(low/med) LOW

Date Extracted: 7/22/92 Extraction: (SepF/Cont/Sonc) SE

Date Analyzed (1): 7/30/92 Date Analyzed (2): 7/30/92

Time Analyzed (1): 21:04 Time Analyzed (2): 21:02

Instrument ID (1): VAR2A Instrument ID (2): VAR2A

GC Column ID (1): DB5 GC Column ID (2): DB1701

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	FB5	FB5	8/3/92	8/3/92
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
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Comments:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000027

PBLKW5

Lab Name: AES,INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix: (soil/water) WATER Lab Sample ID: PBLKW5

Sample wt/vol: 400.0 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 100. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 7/30/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Arochlor-1016	0.5	U
11104-28-2	Arochlor-1221	0.5	U
11141-16-5	Arochlor-1232	0.5	U
53469-21-9	Arochlor-1242	0.5	U
12672-29-6	Arochlor-1248	0.5	U
11097-69-1	Arochlor-1254	0.5	U
11096-82-5	Arochlor-1260	0.5	U

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: AES Contract: 000028

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-1

Lab Sample ID: PBLKE4 Lab File ID: PBLKE4

Matrix: (soil/water) SOIL Level:(low/med) LOW

Date Extracted: 7/21/92 Extraction: (SepF/Cont/Sonc) SO

Date Analyzed (1): 7/30/92 Date Analyzed (2): 7/30/92

Time Analyzed (1): 18:40 Time Analyzed (2): 18:42

Instrument ID (1): VAR2A Instrument ID (2): VAR2A

GC Column ID (1): DB5 GC Column ID (2): DB1701

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	DUP 5	DUP 5	8/4/92	8/4/92
2				
3				
4				
5				
6				
7				
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Comments:

LD

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKE4

Lab Name: AES,INC Contract: 000029

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: PBLKE4

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec._____ Date Extracted: 7/21/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/30/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	500.	U
11104-28-2	Arochlor-1221	500.	U
11141-16-5	Arochlor-1232	500.	U
53469-21-9	Arochlor-1242	500.	U
12672-29-6	Arochlor-1248	500.	U
11097-69-1	Arochlor-1254	500.	U
11096-82-5	Arochlor-1260	500.	U

4C

PESTICIDE METHOD BLANK SUMMARY

000030

Lab Name: AES,INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Lab Sample ID: PBLKES Lab File ID:

Matrix: (soil/water) SOIL Level:(low/med) LOW

Date Extracted: 7/22/92 Extraction: (SepF/Cont/Sonc) SO

Date Analyzed (1): 8/ 3/92 Date Analyzed (2): 8/ 3/92

Time Analyzed (1): 18:24 Time Analyzed (2): 18:22

Instrument ID (1): VAR2A Instrument ID (2): VAR2A

GC Column ID (1): DB5 GC Column ID (2): DB1701

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	PBLKMSBE5	PBLKMSBE5	8/ 3/92	
2	B6(2-4)	B6(2-4)	8/ 4/92	8/ 4/92
3	B7(0-2)	B7(0-2)	8/ 4/92	8/ 4/92
4	B7(2-4)	B7(2-4)	8/ 4/92	
5	B9(0-2)	B9(0-2)	8/ 4/92	8/ 4/92
6	B9(2-4)	B9(2-4)	8/ 4/92	8/ 4/92
7	B10(0-2)	B10(0-2)	8/ 4/92	
8	B10(4-6)	B10(4-6)	8/ 4/92	8/ 4/92
9	B11(0-2)	B11(0-2)	8/ 4/92	8/ 4/92
10	B11(2-4)	B11(2-4)	8/ 4/92	8/ 4/92
11	B11(2-4)ms	B11(2-4) MS	8/ 4/92	8/ 4/92
12	B11(2-4)msd	B11(2-4) MSD	8/ 4/92	8/ 4/92
13	B5(8-10)	B5(8-10)	8/ 4/92	8/ 4/92
14	B6(0-2)	B6(0-2)	8/ 4/92	8/ 4/92
15	B4(8-10)	B4(8-10)	8/ 4/92	8/ 4/92
16				
17				
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Comments:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKE5

Lab Name: AES,INC Contract: 000031

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: B4(8-10)

Matrix: (soil/water) SOIL Lab Sample ID: PBLKE5

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec._____ Date Extracted: 7/22/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 8/ 3/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	500.	U
11104-28-2	Arochlor-1221	500.	U
11141-16-5	Arochlor-1232	500.	U
53469-21-9	Arochlor-1242	500.	U
12672-29-6	Arochlor-1248	500.	U
11097-69-1	Arochlor-1254	500.	U
11096-82-5	Arochlor-1260	500.	U

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000032

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CASE NARRATIVE

Client : ERM - Northeast, Inc.

Case : E16000

SDG : B4(8-10)

Samples :
B4(8-10)
B5(8-10)
B6(0-2)
B6(2-4)
B6(8-10) *(EXTRACT AND HOLD)*
B7(0-2)
B7(2-4)
B7(8-10) *(EXTRACT AND HOLD)*
B9(0-2)
B9(2-4)
B9(8-10) *(EXTRACT AND HOLD)*
B10(0-2)
B10(4-6)
B10(8-10) *(EXTRACT AND HOLD)*
B11(0-2)
B11(2-4)
B11(8-10) *(EXTRACT AND HOLD)*
DUP5
FB5

Note:
Samples in this case were assessed for PCB's only using a modification of method 8080 as discussed previously. See Chain of Custody (COC).

PCB

Following this narrative, please find corresponding peaks used for PCB identification.

Sample B7(2-4) was diluted 2-fold prior to analysis. No Aroclors were detected in the sample. Corresponding sulfur and non-sulfur cleaned analyses have been included in the data package on the primary and confirmation analysis for comparison. Results presented for the sample are consistent with initial screen data.

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The following samples were sulfur cleaned. Chromatograms corresponding to the sulfur cleaned samples have been included after the initial analysis on the primary and confirmation columns in the sample data section. These samples did not contain any aroclor constituents (see sulfur cleaned chromatograms substantiating this fact).

SAMPLE NAME
B11(2-4)
B7(0-2)
DUP5
B6(2-4)
B10(0-2)
B9(2-4)
B7(2-4)

The following samples were diluted prior to analysis due to suspected (screening) and confirmed high levels of target constituents. Please note that the total sample area for the aroclor detected was slightly above the standard used for quantitation (AR1260-8/3/92; 15:32) even at the dilutions noted. Initial screen data indicated that these dilutions were sufficient.

SAMPLE NAME	DILUTION FACTOR	% OVER STANDARD AREA
B5(8-10)	5	12
B6(0-2)	50	12
B6(2-4)	5	3
B7(0-2)	5	11
B11(0-2)	5	3

In addition, the aroclor areas in samples B9(0-2) and B10(4-6) were 30 and 23% respectively above the standard area used for quantitation (AR1260-8/3/92; 15:32). These samples were not diluted. Again, initial screen data did not indicate that the samples in question required a dilution.

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Values for AR1016 in the MS and MSD of sample B11(2-4) were obtained from the sulfur cleaned analysis since the presence of sulfur obscured the identification of this Aroclor. The corresponding standard in the sulfur analysis has been included in the "Raw QC Data" section after the MS form 1. AR1260 values were quantitated from the run containing sulfur. The % recoveries for aroclor 1016 in the MS and MSD were within the advisory limits on both the primary and confirmation columns.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Frank Sandusky
Laboratory Director

Date: Sept 30, 1992

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CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM-Northeast	General Electric 318 Urban St	Karen Baker
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Albany	380.048	Karen E Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
920721-301	DUP-5	7/20/92	A P	Soil		X	1	PCBs
302	FB-5		1330 A P	Water		X	1	PCBs
303	B1, 8'-10'		1050 A P	Soil		X	1	PCBs
304	B2, 8'-10'		1435 A P			X	1	PCBs
305	B3, 8'-10'		0855 A P			X	1	PCBs
306	B4, 8'-10'		1130 A P			X	1	PCBs
307	B5, 8'-10'		1205 A P			X	1	PCBs
308	B6, 0'-2'		1615 A P			X	1	PCBs
309	B6, 2'-4'		1620 A P			X	1	PCBs
310	B6, 8'-10'		1630 A P			X	1	EXTRACT + HOLD FOR POSSIBLE PCB anal.
311	B7, 0'-2'		1635 A P			X	1	PCBs
312	B7, 2'-4'		1638 A P			X	1	PCBs
313	B7, 8'-10'	↓	1645 A P	↓		X	1	EXTRACT + HOLD

Turnaround Time

Laboratory Approval:

Relinquished by: (Signature) Karen E Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Dispatched by: (Signature) Karen E Baker — **Date/Time**	**Received for Laboratory by:** (Signature)	**Date/Time** 7/21/92 9:10
Method of Shipment: Federal Express	**Send Report To:** Dale Bradley - ERM-NE Albany	**Client Phone No.:**

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of $10.00 per container for disposal.

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

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000036

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CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM-Northeast	General Electric 318 Urban St.	Karen Baker
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Albany	380.048	Karen ES Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
B14	B9, 0'-2'	7/20/92	1545 A/P	Soil		X	1	PCBs
315	B9, 2'-4'		1550 A/P			X	1	PCBs
316	B9, 8'-10'		1600 A/P			X	1	EXTRACT & HC PCB
B17	B10, 0'-2'		1525 A/P			X	1	PCBs
B18	B10, 4'-6'		1535 A/P			X	1	PCBs
B19	B10, 8'-10'		1540 A/P			X	1	EXTRACT + HC.
320	B11, 0'-2'		1500 A/P			X	1	PCBs
B21	B11, 2'-4' +MS/MSD		1503 A/P			X	2	2-PCBs (1 is
322	B11, 8'-10'	↓	1510 A/P	↓		X	1	EXTRACT + HC
			A/P					
			A/P					
			A/P					
			A/P					

Turnaround Time

Laboratory Approval:

Relinquished by: (Signature) Karen ES Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Dispatched by: (Signature) Karen ES Baker	**Date/Time** 7/20/92	**Received for Laboratory by:** C. Hungerford	**Date/Time** 7/21/92
Method of Shipment: Federal Express	**Send Report To:** Dave Bradley-ERM-NE Albany	**Client Phone**

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of $10.00 per container for disposa

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

2 c

000037

FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE TRACKING NUMBER 5733106004

1031H 5733106004

Date 7 20 92

RECIPIENT'S COPY

1 From (Your Name) Please Print: Karen Baker
Your Phone Number (Very Important): (716)633-5920
Company: ERM-NORTH EAST
Department/Floor No.:
Street Address: 5500 MAIN STREET
City: WILLIAMSVILLE State: NY ZIP Required: 14221

2 To (Recipient's Name) Please Print: Sample Handler
Recipient's Phone Number (Very Important): 518 434-4
Company: Adirondack Environmental Sc
Department/Floor:
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zips • Codes.): 314 North Pearl St
City: Albany State: NY ZIP Required: 12207

YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice.)

H IF HOLD FOR PICK-UP, Print FEDEX Address Here
Street Address:
City: State: ZIP Required:

3 PAYMENT 1 ☐ Bill Sender 2 ☐ Bill Recipient's FedEx Acct. No. 3 ☒ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card 5 ☐ Cash

4 SERVICES (Check only one box)

Priority Overnight Service (Delivery by next business morning†)		Standard Overnight Service (Delivery by next business afternoon†)	
11	☒ YOUR PACKAGING	51	☐
16	☐ FEDEX LETTER *	56	☐ FEDEX LETTER *
12	☐ FEDEX PAK *	52	☐ FEDEX PAK *
13	☐ FEDEX BOX	53	☐ FEDEX BOX
14	☐ FEDEX TUBE	54	☐ FEDEX TUBE

Economy Service (formerly Standard Air) (Delivery by second business day†)		Heavyweight Service (for Extra Large or any package over 150 lbs.)	
30	☐ ECONOMY SERVICE	70	☐ HEAVYWEIGHT **
		80	☐ DEFERRED HEAVYWEIGHT **

†Delivery commitment may be later in some areas. *Declared Value Limit $100. **Call for delivery schedule.

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1 ☐ HOLD FOR PICK-UP (Fill in Box H)
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3 ☐ DELIVER SATURDAY (Extra charge) (Not available to all locations)
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5 ☐ CONSTANT SURVEILLANCE SVC. (CSS) (Extra charge) (Release Signature Not Applicable)
6 ☐ DRY ICE ____ Lbs.
7 ☐ OTHER SPECIAL SERVICE
8 ☐
9 ☐ SATURDAY PICK-UP (Extra charge)
10 ☐
11 ☐
12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)

PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE	OVER SIZE
1	3x		
Total 1	Total 3x	Total	

DIM SHIPMENT (Heavyweight Services Only) ☐ ____ lbs.

Received At: 1 ☐ Regular Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☐ B.S.C. 5 ☐ Station

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5 Release Signature:
Date/Time

Emp. No. Date
☐ Cash Received
☐ Return Shipment
☐ Third Party ☐ Chg. To Del ☐ Chg. To Hold
Street Address
City State Zip
Received By: X
Date/Time Received FedEx Employee Number

Federal Express Use
Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges

REVISION DATE 11/89
PART #119501 NCR EC
FORMAT #014
014

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INTERNAL CHAIN OF CUSTODY 000038

AES SAMPLE # 920721-B01 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. Dup-5 REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/21/92	1103
[signature]	[signature]	return to Log In	7/21/92	1637

AES SAMPLE # 920721-B02 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. FB-5 REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/21/92	1108
[signature]		return to Log In	7/23/92	1508

AES SAMPLE # 920721-B03 RELINQUISHED BY	BOTTLE # 1 RECEIVED BY	CLIENTS SAMP. ID. B1, 8-10 REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/21/92	1108
[signature]	[signature]	return to Log In	7/21/92	1638

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000039

AES SAMPLE # 920721-B04 BOTTLE # 1 CLIENTS SAMP. ID. B2, 8-10

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Lisa M Jo	Colleen O'Hehir	to extract	7/21/92	1109
Colleen O'Hehir	[illegible]	return to log In	7/21/92	1639

AES SAMPLE # 920721-B05 BOTTLE # 1 CLIENTS SAMP. ID. B3, 8-10

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Lisa M Jo	Colleen O'Hehir	to extract	7/21/92	1109
Colleen O'Hehir	[illegible]	return to log In	7/21/92	1638

AES SAMPLE # 920721-B06 BOTTLE # 1 CLIENTS SAMP. ID. B4, 8-10

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
Lisa M Jo	Colleen O'Hehir	to extract	7/21/92	1110
Colleen O'Hehir	[illegible]	return to log In	7/21/92	1640

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INTERNAL CHAIN OF CUSTODY 000040

AES SAMPLE # 920721-807 BOTTLE # 1 CLIENTS SAMP. ID. B5, 8-10

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/21/92	1111
[signature]	[signature]	return to lab	7/21/92	1640

AES SAMPLE # 920721-808 BOTTLE # 1 CLIENTS SAMP. ID. B6, 0-2

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/21/92	1111
[signature]	[signature]	return to lab	7/21/92	1640

AES SAMPLE # 920721-809 BOTTLE # 1 CLIENTS SAMP. ID. B6, 2-4

RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	1054
[signature]	[signature]	return to lab	7/22/92	1049

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000041

AES SAMPLE # 920721-B10	BOTTLE # 1	CLIENTS SAMP. ID. B6, 8-10		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	1635
[signature]	[signature]	return to Key Dr	7/22/92	1649

AES SAMPLE # 920721-B11	BOTTLE # 1	CLIENTS SAMP. ID. B7, 0-2		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	1635
[signature]	[signature]	return to Key Dr	7/22/92	1649

AES SAMPLE # 920721-B12	BOTTLE # 1	CLIENTS SAMP. ID. B7, 2-4		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	1635
[signature]	[signature]	return to Key Dr	7/23/92	1649

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000042

AES SAMPLE # 920721-B13	BOTTLE # 1	CLIENTS SAMP. ID. B7, 0-10		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	1636
[signature]	[signature]	return to Hoosick	7/22/92	1655

AES SAMPLE # 920721-B14	BOTTLE # 1	CLIENTS SAMP. ID. B9, 0-2		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	1636
[signature]	[signature]	return to Hoosick	7/22/92	1655

AES SAMPLE # 920721-B15	BOTTLE # 1	CLIENTS SAMP. ID. B9, 2-4		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	1636
[signature]	[signature]	return to Hoosick	7/22/92	1655

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY **000043**

AES SAMPLE # 920721-B16	BOTTLE # 1	CLIENTS SAMP. ID. B9, B-10		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	16.58
[signature]	[signature]	return to Key Dr	7/22/92	16.57

AES SAMPLE # 920721-B17	BOTTLE # 1	CLIENTS SAMP. ID. B10, C-2		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	16.58
[signature]	[signature]	return to Key Dr	7/22/92	16.57

AES SAMPLE # 920721-B18	BOTTLE # 1	CLIENTS SAMP. ID. B10, 4-6		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	16.58
[signature]	[signature]	return to Key Dr	7/22/92	16.57

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000044

AES SAMPLE # 920721-B19	BOTTLE # 1	CLIENTS SAMP. ID. B10, 8-10		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	1059
[signature]	[signature]	return to log on	7/22/92	16:58

AES SAMPLE # 920721-B20	BOTTLE # 1	CLIENTS SAMP. ID. B11, 0-2		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	1059
[signature]	[signature]	return to log in	7/22/92	16:58

AES SAMPLE #	BOTTLE #	CLIENTS SAMP. ID.		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME

Adirondack Environmental Services, Inc.

INTERNAL CHAIN OF CUSTODY 000045

AES SAMPLE # 920721-B21	BOTTLE # 1	CLIENTS SAMP. ID. B11, 2-4 MS/MSD		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	1640
[signature]	[signature]	return to log-in	7/22/92	1700

AES SAMPLE # 920721-B21	BOTTLE # 2	CLIENTS SAMP. ID. B11-2-4 MS/MSD		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME

AES SAMPLE # 920721-B22	BOTTLE # 1	CLIENTS SAMP. ID. B11, 8-10		
RELINQUISHED BY	RECEIVED BY	REASON FOR TRANSFER	DATE	TIME
[signature]	[signature]	to extract	7/22/92	1641
[signature]	[signature]	return to log-in	7/22/92	1700

Adirondack Environmental Services, Inc.

000046

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB
ANALYSES

SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	DATE EXTRACTED	DATE ANALYZED
B4(8-10)	SOIL	7/20/92	7/21/92	7/21/92	8/4/92
B5(8-10)	SOIL	7/20/92	7/21/92	7/21/92	8/4/92
B6(0-2)	SOIL	7/20/92	7/21/92	7/21/92	8/4/92
B6(2-4)	SOIL	7/20/92	7/21/92	7/22/92	8/4/92
B7(2-4)	SOIL	7/20/92	7/21/92	7/22/92	8/4/92
B9(0-2)	SOIL	7/20/92	7/21/92	7/22/92	8/4/92
B9(2-4)	SOIL	7/20/92	7/21/92	7/22/92	8/4/92
B10(0-2)	SOIL	7/20/92	7/21/92	7/22/92	8/4/92
B10(4-6)	SOIL	7/20/92	7/21/92	7/22/92	8/4/92
B11(0-2)	SOIL	7/20/92	7/21/92	7/22/92	8/4/92
B11(2-4)	SOIL	7/20/92	7/21/92	7/22/92	8/4/92
DUP5	SOIL	7/20/92	7/21/92	7/21/92	8/4/92
FB-5	WATER	7/20/92	7/21/92	7/22/92	8/4/92
B7(0-2	SOIL	7/20/92	7/21/92	7/22/92	8/4/92

PCB DATA VALIDATION OF SOIL SAMPLE ANALYSES
318 URBAN STREET SITE OFF PROPERTY SAMPLING
ERM-NORTHEAST PROJECT NO. 380.048
ADIRONDACK ENVIRONMENTAL SERVICES CASE NO. E16000, SDG NO. A1 (0-8)

Deliverables:

The above referenced Data Summary Package and Sample Data Package contain all required deliverables as stipulated under the 1989 New York State Analytical Services Protocol (ASP) Superfund category for all PCB analyses. PCB analyses were performed by an amended pesticide/PCB analytical method previously approved by the NYSDEC. This validation report pertains to the following samples:

Samples		QC Samples
A1 (0-8)	FL-1 (18-21)	FL-4 (18-19) MS
A2 (0-10)	FL-1 (30-32)	FL-4 (18-19) MSD
A3 (0-10)	FL-2 (18-21)	FB-1
A4 (0-8)	FL-3 (18-21)	FB-2
A6 (0-2)	FL-4 (18-19)	
A7 (0-12)	FL-4 (18-19)	
A8 (0-12)	FL-5 (18-21)	
A9 (0-12)	FL-5 (28-30)	
A10 (0-12)	DUP-1	
	DUP-2	

The following items/criteria were reviewed:

- Case Narrative
- Deliverable Requirements
- Holding times
- GC/MS Tuning (confirmational analysis)
- Initial GC calibration data
- Continuing GC calibration data
- PCB standards summary and data
- Procedural blank summary and data
- Field blank data
- Surrogate recoveries, retention times, and summary
- MS/MSD recoveries and summary
- Method blank spike recoveries and summary
- Field duplicate
- Organic Analysis Data Sheets (Form I)
- GC/ECD Chromatograms and data system printouts

The above items were in compliance with NYSDEC QC criteria with the exceptions discussed in the following text. The data have been validated according to the above procedures and qualified as described on the attached definitions list.

- All samples were extracted for analysis within the five day holding time and extracts were all analyzed within forty days of extraction per ASP QC criteria. The table below details holding time information.

Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
A1 (0-8)	Soil	7-8-92	7-9-92	7-9-92	7-31-92
A2 (0-10)	Soil	7-8-92	7-9-92	7-9-92	7-31-92
A3 (0-10)	Soil	7-8-92	7-9-92	7-9-92	7-31-92
A4 (0-8)	Soil	7-8-92	7-9-92	7-9-92	7-31-92
A6 (0-2)	Soil	7-8-92	7-9-92	7-9-92	7-31-92
A7 (0-12)	Soil	7-8-92	7-9-92	7-9-92	7-31-92
A8 (0-12)	Soil	7-8-92	7-9-92	7-9-92	7-31-92
A9 (0-12)	Soil	7-8-92	7-9-92	7-9-92	7-31-92
A10 (0-12)	Soil	7-8-92	7-9-92	7-9-92	7-31-92
A11 (0-12)	Soil	7-8-92	7-9-92	Not Extracted	Not Analyzed
DUP-1	Soil	7-8-92	7-9-92	7-9-92	7-31-92
FB-1	Water	7-8-92	7-9-92	7-9-92	7-30-92
FL-1 (18-21)	Soil	7-13-92	7-14-92	7-14-92	7-31-92
FL-1 (30-32)	Soil	7-13-92	7-14-92	7-14-92	7-31-92
FL-2 (18-21)	Soil	7-13-92	7-14-92	7-14-92	7-31-92
FL-3 (18-21)	Soil	7-13-92	7-14-92	7-14-92	7-31-92
FL-3 (26-28)	Soil	7-13-92	7-14-92	7-14-92	7-31-92
FL-4 (18-19)	Soil	7-13-92	7-14-92	7-14-92	7-31-92
FL-5 (18-21)	Soil	7-13-92	7-14-92	7-14-92	7-31-92
FL-5 (28-30)	Soil	7-13-92	7-14-92	7-14-92	7-31-92
DUP-2	Soil	7-13-92	7-14-92	7-14-92	7-31-92
FB-2	Water	7-13-92	7-14-92	7-14-92	7-30-92

- All ion abundance criteria were met for GC/MS tuning prior to sample confirmational analyses.

- GC/ECD initial calibration factors and retention time (RT) windows were correctly calculated and reported.

- All continuing calibration standards exhibited calibration factors less than 15% different from the initial factors per ASP criteria. All analyte peaks fell in the proper RT windows.

- Procedural blanks were analyzed with the proper frequency (one per 20 samples per matrix) and exhibited no positive results for PCB analyses. All chromatograms exhibited stable baselines.

- Two aqueous field blanks submitted for PCB analysis in association with these soil samples (FB-1, FB-2) exhibited no positive results for PCB analysis.

- All sample, blank and MS/MSD surrogate recoveries (DBC) were within the QC limits of 50-150% with the exceptions of A1 (0-8), A2 (0-10). A3 (0-10), A4 (0-8), A6 (0-2), A7 (0-12), A8 (0-12), A9 (0-12), A9 (0-12), A10 (0-12), DUP-1, FL-2 (18-21), FL-3 (26-28), FL-4 (18-19), (MS/MSD) which exhibited zero recovery due to the surrogate being diluted out of the sample. Additionally, samples FL-3 (18-21) and DUP-2 exhibited 179% and 184%, respectively on the confirmational GC column, however the recoveries were acceptable on the quantitation column, therefore no qualifications of the sample data is necessary. All surrogate peaks exhibited less than or equal to 0.3% difference between their retention times and that of the initial calibration surrogate, per ASP criteria. Surrogate summary forms are attached.

- All MS/MSD spike recoveries for Ar1016 were within the laboratory QC limits of 60-160% and the relative percent difference between MS and MSD results were less than the laboratory QC limit of 50%. Spike recovery for AR1260 was masked by high levels of sample Ar 1260 concentrations resulting in zero recovery for both QC samples. No qualification of the sample data is necessary. MS/MSD summary forms are attached.

- The method blank spike recovery for Ar1016 (73%) fell below the ASP QC limit of 75 to 125%, however this result lies within the matrix spike QC limits of 60 to 160%, therefore no qualification to the sample data is made. Method blank spike summary forms are attached.

- Sample DUP-1 and DUP-2 are field duplicates of samples A9 (0-12) and FL-3 (18-21), respectively. The table below compares the results of their analyses.

	MDL	A9 (0-12)	DUP-1	RPD
ARR60	57 mg/kg	150 mg/kg	180 mg/kg	18%
		FL-3 (18-21)	DUP-2	
AR1260	0.56 mg/kg	1.4 mg/kg	1.8 mg/kg	25%

Since the relative percent difference between both duplicate sets was less than 50% (soil matrix), the field duplicate results are acceptable as specified by the USEPA Functional Guidelines.

- Organic data sheets (Form I) for all analyses are attached. All data is valid and useable as reported.

- All gas chromatographic data and system printouts are acceptable. No negative area was experienced by any sample.

SUMMARY OF PCB RESULTS
318 URBAN STREET SITE OFF PROPERTY SAMPLING
ADIRONDACK ENVIRONMENTAL SERVICES CASE NO. E16000, SDG NO. A1 (0-8)

Sample ID	AR 1260 (mg/kg)
A1 (0-8)	85
A2 (0-10)	300
A3 (0-10)	4400
A4 (0-8)	22
A6 (0-2)	65
A7 (0-12)	31
A8 (0-12)	190
A9 (0-12)	150
A10 (0-12)	93
FL-1 (18-21)	2.4
FL-1 (30-32)	1.7
FL-2 (18-21)	19
FL-3 (18-21)	1.4
FL-3 (26-28)	8.1
FL-4 (18-19)	13
FL-5 (18-21)	2.6
FL-5 (28-30)	1.8
DUP-1	180
DUP-2	1.8
FB-1	<1.0 ug/l
FB-2	<1.0 ug/l

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000007

A1(0-8)

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: A1(0-8)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) LOW Date Received: 7/ 9/92

% Moisture: not dec. 11. dec._____ Date Extracted: 7/ 9/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 20.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	11000.	U
11104-28-2	Arochlor-1221	11000.	U
11141-16-5	Arochlor-1232	11000.	U
53469-21-9	Arochlor-1242	11000.	U
12672-29-6	Arochlor-1248	11000.	U
11097-69-1	Arochlor-1254	11000.	U
11096-82-5	Arochlor-1260	85000.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A2(0-10)

00000S

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: A2(0-10)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) Low Date Received: 7/ 9/92

% Moisture: not dec. 9. dec._____ Date Extracted: 7/ 9/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 100.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	55000.	U
11104-28-2	Arochlor-1221	55000.	U
11141-16-5	Arochlor-1232	55000.	U
53469-21-9	Arochlor-1242	55000.	U
12672-29-6	Arochlor-1248	55000.	U
11097-69-1	Arochlor-1254	55000.	U
11096-82-5	Arochlor-1260	300000.	C

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A3(0-10)

Lab Name: AES, INC. Contract: 000059

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: A3(0-10)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) LOW Date Received: 7/ 9/92

% Moisture: not dec. 12. dec._____ Date Extracted: 7/ 9/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 2000.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	1100000.	U
11104-28-2	Arochlor-1221	1100000.	U
11141-16-5	Arochlor-1232	1100000.	U
53469-21-9	Arochlor-1242	1100000.	U
12672-29-6	Arochlor-1248	1100000.	U
11097-69-1	Arochlor-1254	1100000.	U
11096-82-5	Arochlor-1260	4400000.	C

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000010 | A4(0-8)

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: A4(0-8)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) LOW Date Received: 7/ 9/92

% Moisture: not dec. 11. dec._____ Date Extracted: 7/ 9/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	5600.	U
11104-28-2	Arochlor-1221	5600.	U
11141-16-5	Arochlor-1232	5600.	U
53469-21-9	Arochlor-1242	5600.	U
12672-29-6	Arochlor-1248	5600.	U
11097-69-1	Arochlor-1254	5600.	U
11096-82-5	Arochlor-1260	22000.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A6(0-2)

Name: AES, INC. Contract: 0CCC11

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: A6(0-2)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) LOW Date Received: 7/ 9/92

% Moisture: not dec. 13. dec._____ Date Extracted: 7/ 9/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 20.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	11000.	U
11104-28-2	Arochlor-1221	11000.	U
11141-16-5	Arochlor-1232	11000.	U
53469-21-9	Arochlor-1242	11000.	U
12672-29-6	Arochlor-1248	11000.	U
11097-69-1	Arochlor-1254	11000.	U
11096-82-5	Arochlor-1260	65000.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A7(0-12)

Lab Name: AES, INC. Contract: 000012

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: A7(0-12)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) LOW Date Received: 7/ 9/92

% Moisture: not dec. 16. dec._____ Date Extracted: 7/ 9/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	6000.	U
11104-28-2	Arochlor-1221	6000.	U
11141-16-5	Arochlor-1232	6000.	U
53469-21-9	Arochlor-1242	6000.	U
12672-29-6	Arochlor-1248	6000.	U
11097-69-1	Arochlor-1254	6000.	U
11096-82-5	Arochlor-1260	31000.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A8(0-12)

Lab Name: AES, INC. Contract: CC0013

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: A8(0-12)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) LOW Date Received: 7/ 9/92

% Moisture: not dec. 13. dec._____ Date Extracted: 7/ 9/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 50.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	29000.	U
11104-28-2	Arochlor-1221	29000.	U
11141-16-5	Arochlor-1232	29000.	U
53469-21-9	Arochlor-1242	29000.	U
12672-29-6	Arochlor-1248	29000.	U
11097-69-1	Arochlor-1254	29000.	U
11096-82-5	Arochlor-1260	190000.	C

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A9(0-12)

Lab Name: AES, INC. Contract: C00014

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: A9(0-12)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) LOW Date Received: 7/ 9/92

% Moisture: not dec. 13. dec._____ Date Extracted: 7/ 9/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 100.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	57000.	U
11104-28-2	Arochlor-1221	57000.	U
11141-16-5	Arochlor-1232	57000.	U
53469-21-9	Arochlor-1242	57000.	U
12672-29-6	Arochlor-1248	57000.	U
11097-69-1	Arochlor-1254	57000.	U
11096-82-5	Arochlor-1260	150000.	C

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A10(0-12

Lab Name: AES, INC. Contract: C00015

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: A10(0-12)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) LOW Date Received: 7/ 9/92

% Moisture: not dec. 11. dec._____ Date Extracted: 7/ 9/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 50.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	28000.	U
11104-28-2	Arochlor-1221	28000.	U
11141-16-5	Arochlor-1232	28000.	U
53469-21-9	Arochlor-1242	28000.	U
12672-29-6	Arochlor-1248	28000.	U
11097-69-1	Arochlor-1254	28000.	U
11096-82-5	Arochlor-1260	93000.	C

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FL1(18-21)

Lab Name: AES, INC. Contract: 000016

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: FL1(18-21)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 7/14/92

% Moisture: not dec. 17. dec. Date Extracted: 7/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	600.	U
11104-28-2	Arochlor-1221	600.	U
11141-16-5	Arochlor-1232	600.	U
53469-21-9	Arochlor-1242	600.	U
12672-29-6	Arochlor-1248	600.	U
11097-69-1	Arochlor-1254	600.	U
11096-82-5	Arochlor-1260	2400.	

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

000017

EPA SAMPLE NO.

FL1(30-32)

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: FL1(30-32)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) Low Date Received: 7/14/92

% Moisture: not dec. 15. dec._____ Date Extracted: 7/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	590.	U
11104-28-2	Arochlor-1221	590.	U
11141-16-5	Arochlor-1232	590.	U
53469-21-9	Arochlor-1242	590.	U
12672-29-6	Arochlor-1248	590.	U
11097-69-1	Arochlor-1254	590.	U
11096-82-5	Arochlor-1260	1700.	

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

000015

EPA SAMPLE NO.

FL2(18-21)

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: FL2(18-21)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) LOW Date Received: 7/14/92

% Moisture: not dec. 14. dec._____ Date Extracted: 7/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	5800.	U
11104-28-2	Arochlor-1221	5800.	U
11141-16-5	Arochlor-1232	5800.	U
53469-21-9	Arochlor-1242	5800.	U
12672-29-6	Arochlor-1248	5800.	U
11097-69-1	Arochlor-1254	5800.	U
11096-82-5	Arochlor-1260	19000.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FL3(18-21)

Lab Name: AES, INC. Contract: 600019

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: FL3(18-21)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) LOW Date Received: 7/14/92

% Moisture: not dec. 11. dec._____ Date Extracted: 7/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	560.	U
11104-28-2	Arochlor-1221	560.	U
11141-16-5	Arochlor-1232	560.	U
53469-21-9	Arochlor-1242	560.	U
12672-29-6	Arochlor-1248	560.	U
11097-69-1	Arochlor-1254	560.	U
11096-82-5	Arochlor-1260	1400.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000020 FL3(26-28)

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: FL3(26-28)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) Low Date Received: 7/14/92

% Moisture: not dec. 11. dec._____ Date Extracted: 7/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	2800.	U
11104-28-2	Arochlor-1221	2800.	U
11141-16-5	Arochlor-1232	2800.	U
53469-21-9	Arochlor-1242	2800.	U
12672-29-6	Arochlor-1248	2800.	U
11097-69-1	Arochlor-1254	2800.	U
11096-82-5	Arochlor-1260	8100 .	

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FL4(18-19)

Lab Name: AES, INC. Contract: 000021

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: FL4(18-19)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) LOW Date Received: 7/14/92

% Moisture: not dec. 16. dec._____ Date Extracted: 7/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	3000.	U
11104-28-2	Arochlor-1221	3000.	U
11141-16-5	Arochlor-1232	3000.	U
53469-21-9	Arochlor-1242	3000.	U
12672-29-6	Arochlor-1248	3000.	U
11097-69-1	Arochlor-1254	3000.	U
11096-82-5	Arochlor-1260	13000.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FL5(18-21)

Lab Name: AES, INC. Contract: 000032

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: FL5(18-21)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) Low Date Received: 7/14/92

% Moisture: not dec. 13. dec._____ Date Extracted: 7/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	570.	U
11104-28-2	Arochlor-1221	570.	U
11141-16-5	Arochlor-1232	570.	U
53469-21-9	Arochlor-1242	570.	U
12672-29-6	Arochlor-1248	570.	U
11097-69-1	Arochlor-1254	570.	U
11096-82-5	Arochlor-1260	2600.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FLS(28-30)

Lab Name: AES, INC. Contract: 000023

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: FLS(28-30)

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) Low Date Received: 7/14/92

% Moisture: not dec. 12. dec._____ Date Extracted: 7/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.5 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	570.	U
11104-28-2	Arochlor-1221	570.	U
11141-16-5	Arochlor-1232	570.	U
53469-21-9	Arochlor-1242	570.	U
12672-29-6	Arochlor-1248	570.	U
11097-69-1	Arochlor-1254	570.	U
11096-82-5	Arochlor-1260	1800.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CC0024

DUP1

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: DUP1

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) LOW Date Received: 7/ 9/92

% Moisture: not dec. 11. dec._____ Date Extracted: 7/ 9/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 100.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	56000.	U
11104-28-2	Arochlor-1221	56000.	U
11141-16-5	Arochlor-1232	56000.	U
53469-21-9	Arochlor-1242	56000.	U
12672-29-6	Arochlor-1248	56000.	U
11097-69-1	Arochlor-1254	56000.	U
11096-82-5	Arochlor-1260	180000.	C

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP2

Lab Name: AES, INC. Contract: 000025

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: DUP2

Sample wt/vol: 10.0 (g/mL) G Lab File ID: DUP2

Level: _ (low/med) LOW Date Received: 7/14/92

% Moisture: not dec. 10. dec._____ Date Extracted: 7/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/31/92

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	550.	U
11104-28-2	Arochlor-1221	550.	U
11141-16-5	Arochlor-1232	550.	U
53469-21-9	Arochlor-1242	550.	U
12672-29-6	Arochlor-1248	550.	U
11097-69-1	Arochlor-1254	550.	U
11096-82-5	Arochlor-1260	1800.	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB1

Lab Name: AES, INC. Contract: 000026

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) WATER Lab Sample ID: FB1

Sample wt/vol: 400.0 (g/mL) ML Lab File ID:

Level: _ (low/med) Low Date Received: 7/ 9/92

% Moisture: not dec. 100. dec._____ Date Extracted: 7/ 9/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 7/30/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB2

Lab Name: AES, INC. Contract: 000027

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) WATER Lab Sample ID: FB2

Sample wt/vol: 400.0 (g/mL) ML Lab File ID:

Level: _ (low/med) LOW Date Received: 7/14/92

% Moisture: not dec. 100. dec._____ Date Extracted: 7/15/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 7/30/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Arochlor-1016	1.0	U
11104-28-2	Arochlor-1221	1.0	U
11141-16-5	Arochlor-1232	1.0	U
53469-21-9	Arochlor-1242	1.0	U
12672-29-6	Arochlor-1248	1.0	U
11097-69-1	Arochlor-1254	1.0	U
11096-82-5	Arochlor-1260	1.0	U

2E

WATER PESTICIDE SURROGATE RECOVERY

000028

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKW3	125	
2	PBLKW4	137	
3	FB1	124	
4	FB2	119	
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9			
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28			
29			
30			

ADVISORY
QC LIMITS
(50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II PEST-1 1/87 Rev.

SOIL PESTICIDE SURROGATE RECOVERY

0CC0029

Lab Name: AES, INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKE1	84	
2	PBLKE2	103	
3	PBLKMSBE	111	
4	A1(0-8)	D	
5	A2(0-10)	D	
6	A3(0-10)	D	
7	A4(0-8)	D	
8	A6(0-2)	D	
9	A7(0-12)	D	
10	A8(0-12)	D	
11	A9(0-12)	D	
12	A10(0-12	D	
13	DUP1	D	
14	DUP2	134	
15	FL1(18-21)	131	
16	FL1(30-32)	113	
17	FL2(18-21)	D	
18	FL3(18-21)	113	
19	FL3(26-28)	D	
20	FL4(18-19)	D	
21	FL5(18-21)	138	
22	FL5(28-30)	128	
23	FL4(18-19)MS	D	
24	FL4(18-19)MSD	D	
25			
26			
27			
28			

ADVISORY QC LIMITS (50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II PEST-2 1/87 Rev.

SOIL PESTICIDE SURROGATE RECOVERY 000030

Lab Name: AES, INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Level: (low/med) LOW

conf.

	EPA SAMPLE NO.	S1 (DBC) #	OTHER
1	PBLKE1	88	
2	PBLKE2	114	
3	A1(0-8)	D	
4	A2(0-10)	D	
5	A3(0-10)	D	
6	A4(0-8)	136	
7	A6(0-2)	D	
8	A7(0-12)	D	
9	A8(0-12)	D	
10	A9(0-12)	D	
11	A10(0-12)	D	
12	DUP1	D	
13	DUP2	194 *	
14	FL1(18-21)	154	
15	FL1(30-32)	120	
16	FL2(18-21)	D	
17	FL3(18-21)	199 *	
18	FL3(26-28)	D	
19	FL4(18-19)	D	
20	FL5(18-21)	148	
21	FL5(28-30)	138	
22	FL4(18-19)MS	D	
23	FL4(18-19)MSD	D	
24			
25			
26			
27			
28			
29			
30			

ADVISORY QC LIMITS (50-150)

S1 (DBC) = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II PEST-2 1/87 Rev.

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES, INC Contract: 000031

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix Spike - EPA Sample No.: FL4(18-19) Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Arochlor-1016	3264.88	.00	2056.78	63	60-160
Arochlor-1260	2937.50	13087.27	12025.99	D	60-160

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arochlor-1016	3264.88	2070.96	63	1	50	60-160
Arochlor-1260	2937.50	12494.60	D	D	50	60-160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: Spikes "diluted out". See case narrative.

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

000032

Lab Name: AES, INC Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix Spike - EPA Sample No.: FL4(18-19) Level:(low/med) LOW

conf.

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC	#	QC LIMITS REC.
Arochlor-1016	3264.88	.00	2083.30	64		60-160
Arochlor-1260	2937.50	.00	10320.80	D		60-160

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC	#	% RPD	#	QC LIMITS RPD	REC.
Arochlor-1016	3264.88	2038.97	62		2		50	60-160
Arochlor-1260	2937.50	10808.74	D		D		50	60-160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: See case narrative. Spikes "diluted out".

SOIL PCB MATRIX SPIKE BLANK RECOVERY

Lab Name: AES,INC Contract:
Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)
EPA Sample No.: PBLK MSBE Matrix: SOIL

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MSB CONCENTRATION (ug/Kg)	% REC. #	QC LIMITS REC.
AROCLOR-1016	2194	0	1600	73	75-125
AROCLOR-1260	1974	0	1600	81	75-125

PESTICIDE METHOD BLANK SUMMARY

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Lab Sample ID: PBLKE1 Lab File ID: PBLKE1

Matrix: (soil/water) SOIL Level: (low/med) LOW

Date Extracted: 7/ 9/92 Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed (1): 7/30/92 Date Analyzed (2): 7/30/92

Time Analyzed (1): 17:15 Time Analyzed (2): 17:16

Instrument ID (1): VAR2A Instrument ID (2): VAR2A

GC Column ID (1): DB1701 GC Column ID (2): DB5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	PBLKMSBE	PBLKMSBE	7/30/92	
2	A1(0-8)	A1(0-8)	7/31/92	7/31/92
3	A2(0-10)	A2(0-10)	7/31/92	7/31/92
4	A3(0-10)	A3(0-10)	7/31/92	7/31/92
5	A4(0-8)	A4(0-8)	7/31/92	7/31/92
6	A6(0-2)	A6(0-2)	7/31/92	7/31/92
7	A7(0-12)	A7(0-12)	7/31/92	7/31/92
8	A8(0-12)	A8(0-12)	7/31/92	7/31/92
9	A9(0-12)	A9(0-12)	7/31/92	7/31/92
10	A10(0-12)	A10(0-12)	7/31/92	7/31/92
11	DUP1	DUP1	7/31/92	7/31/92
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13				
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Comments:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKE1

Lab Name: AES, INC. Contract: 000035

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID: PBLKE1

Sample wt/vol: 10.0 (g/mL) G Lab File ID:

Level: _ (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec._____ Date Extracted: 7/ 9/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/30/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	500.	U
11104-28-2	Arochlor-1221	500.	U
11141-16-5	Arochlor-1232	500.	U
53469-21-9	Arochlor-1242	500.	U
12672-29-6	Arochlor-1248	500.	U
11097-69-1	Arochlor-1254	500.	U
11096-82-5	Arochlor-1260	500.	U

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: AES, INC. Contract: CCCCCC

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Lab Sample ID: PBLKE2 Lab File ID: PBLKE2

Matrix: (soil/water) SOIL Level: (low/med) LOW

Date Extracted: 7/14/92 Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed (1): 7/30/92 Date Analyzed (2): 7/30/92

Time Analyzed (1): 17:43 Time Analyzed (2): 17:45

Instrument ID (1): VAR2A Instrument ID (2): VAR2A

GC Column ID (1): DB1701 GC Column ID (2): DB5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	DUP2	DUP2	7/31/92	7/31/92
2	FL1(18-21)	FL1(18-21)	7/31/92	7/31/92
3	FL1(30-32)	FL1(30-32)	7/31/92	7/31/92
4	FL2(18-21)	FL2(18-21)	7/31/92	7/31/92
5	FL3(18-21)	FL3(18-21)	7/31/92	7/31/92
6	FL3(26-28)	FL3(26-28)	7/31/92	7/31/92
7	FL4(18-19)	FL4(18-19)	7/31/92	7/31/92
8	FL5(18-21)	FL5(18-21)	7/31/92	7/31/92
9	FL5(28-30)	FL5(28-30)	7/31/92	7/31/92
10	FL4(18-19MS	FL4(18-19)MS	7/31/92	7/31/92
11	FL4(18-19MSD	FL4(18-19)MSD	7/31/92	7/31/92
12				
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Comments:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKE2

Lab Name: AES, INC. Contract: C00037

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 10.0 (g/mL) G Lab File ID: PBLKE2

Level: _ (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec._____ Date Extracted: 7/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 7/30/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Arochlor-1016	500.	U
11104-28-2	Arochlor-1221	500.	U
11141-16-5	Arochlor-1232	500.	U
53469-21-9	Arochlor-1242	500.	U
12672-29-6	Arochlor-1248	500.	U
11097-69-1	Arochlor-1254	500.	U
11096-82-5	Arochlor-1260	500.	U

4C

PESTICIDE METHOD BLANK SUMMARY

000038

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Lab Sample ID: PBLKW3 Lab File ID:

Matrix: (soil/water) WATER Level: (low/med) LOW

Date Extracted: 7/ 9/92 Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed (1): 7/30/92 Date Analyzed (2): 0/ 0/ 0

Time Analyzed (1): 19:09 Time Analyzed (2): 0:00

Instrument ID (1): VAR2A Instrument ID (2): VAR2A

GC Column ID (1): DB1701 GC Column ID (2): DB5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	FB1	FB1	7/30/92	0/ 0/ 0
2				
3				
4				
5				
6				
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Comments:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000039

EPA SAMPLE NO.

PBLKW3

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) WATER Lab Sample ID:

Sample wt/vol: 400.0 (g/mL) ML Lab File ID: PBLKW3

Level: _ (low/med) Low Date Received: 0/ 0/ 0

% Moisture: not dec. 100. dec._____ Date Extracted: 7/ 9/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 7/30/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Arochlor-1016	1.0	U
11104-28-2	Arochlor-1221	1.0	U
11141-16-5	Arochlor-1232	1.0	U
53469-21-9	Arochlor-1242	1.0	U
12672-29-6	Arochlor-1248	1.0	U
11097-69-1	Arochlor-1254	1.0	U
11096-82-5	Arochlor-1260	1.0	U

4C

PESTICIDE METHOD BLANK SUMMARY

000040

Lab Name: AES, INC. Contract:

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Lab Sample ID: PBLKW4 Lab File ID:

Matrix: (soil/water) WATER Level: (low/med) Low

Date Extracted: 7/15/92 Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed (1): 7/30/92 Date Analyzed (2): 0/ 0/ 0

Time Analyzed (1): 20:34 Time Analyzed (2): 0:00

Instrument ID (1): VAR2A Instrument ID (2): VAR2A

GC Column ID (1): DB1701 GC Column ID (2): DB5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	FB2	FB2	7/30/92	0/ 0/ 0
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
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Comments:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKW4

Lab Name: AES, INC. Contract: 000041

Lab Code: AES Case No.: E16000 SAS No.: SDG No.: A1(0-8)

Matrix: (soil/water) WATER Lab Sample ID: PBLKW4

Sample wt/vol: 400.0 (g/mL) ML Lab File ID:

Level: _ (low/med) Low Date Received: 0/ 0/ 0

% Moisture: not dec. 100. dec._____ Date Extracted: 7/15/92

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 7/30/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Adirondack Environmental Services, Inc.
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518-434-4546/434-0891 FAX

000012

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CASE NARRATIVE

Client : ERM - Northeast, Inc.

Case : E16000

SDG : A1(0-8)

Samples :

A1(0-8)	FL-1(18-21)	DUP-2
A2(0-10)	FL-1(30-32)	FB-1
A3(0-10)	FL-2(18-21)	FB-2
A4(0-8)	FL-3(18-21)	
A6(0-2)	FL-3(26-28)	
A7(0-12)	FL-4(18-19)	
A8(0-12)	FL-5(18-21)	
A9(0-12)	FL-5(28-30)	
A10(0-12)	DUP-1	

Note:
Samples in this case were assessed for PCB's only using a modification of method 8080 as discussed previously. See Chain of Custody (COC).

PCB

Samples FL-1(30-32), FL-3(26-28), and FL-5(28-30) listed on the COC as "extract and hold", were taken off of hold per David Bradley (ERM) on 7/22/92 and subsequently analyzed.

Following this narrative, please find corresponding peaks used for PCB identification.

The AR1016 recovery was slightly outside (2%) the MSB advisory limits . This aroclor was not detected in any of the samples in this case.

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000043

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The following samples were diluted prior to analysis to suspected (screening) and confirmed high levels of target constituents. As a result surrogates and/or spike compounds may have been "diluted out" and are flagged "D" in the data package. (see forms 2, 3, and 8D). In addition, due to high concentration levels present in the extract, some samples have been confirmed by GC/MS as required.

SAMPLE NAME	DILUTION FACTOR	GC/MS CONFIRMATION*
A1(0-8)	20	N
A2(0-10)	100	Y
A3(0-10)	2000	Y
A4(0-8)	10	N
A6(0-2)	20	N
A7(0-12)	10	N
A8(0-12)	50	Y
A9(0-12)	100	Y
A10(0-12)	50	Y
FL-2(18-21)	10	N
FL-3(26-28)	5	N
FL-4(18-19)	5	N
FL-4(18-19)MS	5	N
FL-4(18-19)MSD	5	N
DUP-1	100	Y

** Note: GC/MS confirmation was completed 17 days (VTSR = 7/9/92), or 22 days (VTSR = 7/14/92) outside of the 40 day analysis time specification. Quantitated values appearing on form 1's in the data package were not taken from the GC/MS confirmation analysis. Concentration values were obtained from analysis on the primary (DB1701) column. This analysis (GC/MS) was used solely for confirmation purposes.*

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Frank Sanders
Laboratory Director

Date: September 9, 1992

per conversation between Karen Baker & Dave Bradley on 7/9/92 4:10. Because no vials were received for the TCL VOA's requested. we will not be running them.

Adirondack Environmental Services, Inc.
314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM-NE	General Electric 318 Urban St.	Dennis Sutton / Karen Baker
ADDRESS	PO NUMBER	SAMPLERS: (Signature)
Albany / Buffalo	380.048	Dennis Sutton / Karen E S Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.		SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
920709C01	A1 (0"-8")	7-8-92	1215	A/P	Soil	X		2	1 - PCBs 1 - TCL VOA
920709C02	A2, (0"-10")	7-8-92	1210	A/P	Soil	X		1	PCBs
920709C03	A3, (0"-10")	7-8-92	1200	A/P	Soil	X		1	PCBs
920709C04	A4, (0"-8")	7-8-92	1150	A/P	Soil	X		1	PCBs
920709C05	A6 (0"-2")	7-8-92	1250	A/P	Soil	X		1	PCBs
920709C06	A7 (0"-12")	7-8-92	1330	A/P	Soil	X		1	PCBs
920709C07	A8 (0"-12")	7-8-92	1315	A/P	Soil	X		1	PCBs
920709C08	A9 (0"-12")	7-8-92	1305	A/P	Soil	X		1	PCBs
920709C09	A10 (0"-12")	7-8-92	1240	A/P	Soil	X		2	1 - PCBs 1 - TCL VOA
920709C10	A11 (0"-12")	7-8-92	1345	A/P	Soil	X		1	TCL VOA
920709C11	DUP-1	7-8-92	—	A/P	Soil	X		1	PCBs
920709C12	FB-1	7-8-92		A/P	Soil/Water		X	1	PCBs
				A/P					

Turnaround Time: ASP Sweeny Steel

Laboratory Approval:

Relinquished by: (Signature) Karen E S Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Dispatched by: (Signature)	**Date/Time**	**Received for Laboratory by:** / **Date/Time** 7/9/92 9:15
Method of Shipment: Federal Express	**Send Report To:** Dave Bradley, ERM-NE Albany	**Client Phone No.:**

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of $10.00 per container for disposal.

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

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A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

CLIENT NAME	PROJECT NAME (Location)	SAMPLERS' (Names)
ERM-Northeast	General Electric 318 Urban St. Site	Karen Baker
ADDRESS	**PO NUMBER**	**SAMPLERS: (Signature)**
Albany	380.048	Karen E Baker

AES SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION & LOCATION	DATE SAMPLED	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
920714-B01	FB-2 (Field Blank)	7-13-92	1255 A/P	Water		X	1	PCBs
B02	DUP-2	7-13-92	A/P	Soil	X		1	PCBs
B03	FL-1, 18"-21"	7-13-92	1235 A/P	Soil	X		1	PCBs
B04	FL-1, 30"-32"	7-13-92	1245 A/P	Soil	X		1	[redacted] Extract & Hold for possible PCB a
B05	FL-2, 18"-21"	7-13-92	1310 A/P	Soil	X		1	PCBs
B06	FL-3, 18"-21"	7-13-92	1325 A/P	Soil	X		1	PCBs
B07	FL-3, 26"-28"	7-13-92	1330 A/P	Soil	X		1	Extract & Hold for possible PCB anal
B08	FL-4, 18"-19" (+MS/MSD)	7-13-92	1350 A/P	Soil	X		2	PCBs (one is MS/MS
B09	FL-5, 18"-21"	7-13-92	1405 A/P	Soil	X		1	PCBs
B10	FL-5, 28"-30"	7-13-92	1410 A/P	Soil	X		1	Extract & Hold for possible PCB analy
			A/P					
			A/P					
			A/P					

Turnaround Time

Laboratory Approval:

Relinquished by: (Signature) Karen E Baker	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**
Relinquished by: (Signature)	**Received by:** (Signature)	**Date/Time**

Dispatched by: (Signature)	**Date/Time**	**Received for Laboratory by:** C Augustad	**Date/Time** 7/14/92 19:10
Method of Shipment: Federal Express	**Send Report To:** Dave Bradley, ERM-NE Albany		**Client Phone No.:**

The Laboratory reserves the right to return hazardous samples to the client or may levy a fee of $10.00 per container for disposal.

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