



# EnSafe / Allen & Hoshall

a joint venture for professional services

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## MEMORANDUM

**TO:** Mark Taylor/David Porter, SOUTH DIV  
Tonya Barker/Rob Williamson, NAS Memphis  
Jack Carmichael/Bill Parks, USGS  
David Williams, EPA  
Jim Morrison/Jordan English/Clint Willer, TDEC  
Brenda Duggar, MSCHD  
E/A&H Project Team

**FROM:** Lawson Anderson, E/A&H Task Order Manager

**SUBJECT:** Project Update #13; NAS Memphis RFI; Millington, Tennessee; CTOs-094/106

**DATE:** June 26, 1995

**ASSEMBLY A DATA SUMMARY:** Attached to this memo are tables of "hits only" and hits exceeding RBCs and/or MCLs and/or TDEC UST cleanup levels. The soil data is validated, while the groundwater data is not. The table for SWMU 5 (Aircraft Fire Fighting Training Facility) includes data from the previous UST and interim measure investigations. These tables replace the preliminary tables distributed at the last BCT meeting, so please discard the old ones.

**ASSEMBLY B FIELD WORK:** Test results for 17 of 28 sediment samples collected from the drainage ditches associated with SWMUs 4, 6, 10, 31, and 38 are expected today. The remainder are expected tomorrow, with the exception of results for herbicides, pesticides, organophosphorus pesticides, and GRO/DRO-TPH analyses. A GC problem will delay results for those analyses until the end of the week.

**ADDITIONAL FIELD WORK AT SWMU 7:** The monitoring wells at this site were resampled the first week of May. Partial results (4 of 9 well clusters) had been received at the time of the last update. Test results for the remaining five well clusters have been received and are included in the attached "hits only" table for Assembly A SWMUs. Note that the TCE concentration in the lower fluvial deposits at Well Cluster 4 increased dramatically from 2 ppb to 390 ppb, and that the chlorinated solvents previously detected in Cockfield Formation wells were not detected in second round samples.

**PCE AT BACKGROUND LOCATION 5:** As described in the last update, four groundwater samples were collected from the top of the fluvial deposits at BG5 (Navy Road) with the DPT rig. One sample was collected at the well cluster and the others were collected 50 feet east, west, and north of the cluster. A PCE concentration of 7.7 ppb was detected at 48 feet in the sample collected 50 feet east of the cluster. Nothing was detected in the other three samples.

**GRAY AREA INVESTIGATION REPORT:** The revised *Gray Area Investigation Report* was distributed Friday, June 16.

**DATA VALIDATION:** Validation of Assembly A groundwater monitoring data has been completed by the subcontractor who is now entering the required information into the database in an electronic format. Delivery of the validated data is expected this week.

**DISTRIBUTION OF NEW BASE MAPS:** As of last Friday (June 23), two CDs remained to be copied; therefore, NAS Memphis and SOUTHDIV copies should be delivered this week. An 8 mm tape will be prepared for TDEC based on request at last BCT meeting. Waymon Meeks, E/A&H GIS Coordinator, has been coordinating delivery of EPA's copy with Richard Hammond (EPA), who requested that we deliver EPA's copy when the street name/facility number file is available.

**INVESTIGATION DERIVED WASTES:** In a June 14, 1995 telephone conversation, Bill Krispin of TDEC's Central Office confirmed that use of residential soil RBCs is acceptable for determining if listed hazardous waste "contained in" environmental media exceeds health-based levels.

E/A&H will arrange for a subcontractor to move the IDW drums (now classified as non-hazardous) in the permitted facility to the central storage area where the other drums are stored.

**APPLICATION OF GEOSTATISTICS AT SWMU 7:** After reviewing the SWMU 7 data, Stephen Howard (E/A&H) believes that the use of geostatistics to analyze the data is not appropriate at this time for the following reasons:

1. There is only a limited amount of data for the lower fluvial deposits.
2. There is no obvious relationship between TCE concentrations in the upper and lower fluvial deposits, and so the concentrations in the upper fluvial cannot be used as predictors for the lower fluvial.
3. High TCE concentrations are present along the eastern edge of the sampled area. Therefore, additional points will be required to the east, but geostatistics will give no guidance as to where those sample points should be because geostatistics will not meaningfully extrapolate **outside** the sampled area.

When more data are available, geostatistics may be useful to determine data gaps **within** the sampled area.

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**DRAFT ASSEMBLY D SIPs:** SOUTHDIV and NAS Memphis are currently reviewing the draft SIPs for Assembly D SMWUs. Upon receipt of their comments (this week), revisions will be made and the official draft version of the SIPs will be sent to those on the regular distribution list.

**DRAFT ASSEMBLY E SIPs:** Draft SIPs for Assembly E SWMUs should be completed this week and submitted to SOUTHDIV, NAS Memphis, and the USGS for internal review. The target date for shipping the document is Wednesday, June 28. After their comments are received (target date is July 7), revisions will be made and the official draft version of the SIPs will be shipped to those on the regular distribution list by July 14.

**BRAC DATABASE:** Steve Green is updating the user's manual. When revisions are complete, he will distribute to BCT members.

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**SITE-SPECIFIC GEOPHYSICAL SURVEYS FOR ASSEMBLIES D AND E:** Larry Hughes (E/A&H) will begin EM-31 surveys at Assembly D (SWMU 36) and Assembly E (SWMUs 2, 14, and 65) on Wednesday, July 5. The surveys are needed to look for USTs at SWMUs 36 (Northside STP Incinerator) and 65 (Bldg. S-362, Training Mock-up Site), to determine the location of the former building foundation and underground sumps at SWMU 14 (Bldg. S-140 Site and 7th Avenue Ditch), and to locate the boundaries of SWMU 2 (Southside Landfill).

Herbicides in Soil SWMU 1 - Soil Pile ( $\mu\text{g}/\text{kg}$ )			
Sample I.D./Depth	Compound		
	2,4,5-TP	MCPP	Dichloropropane
01S0001-01	19 J	12000 J	49 J

Pesticides in Soil SWMU 1 - Soil Pile ( $\mu\text{g}/\text{kg}$ )	
Compound	Sample I.D./Depth
	01S0001-01
Heptachlor epoxide	3.6 J
Dieldrin	178 JD
4,4'-DDE	12 J
4,4'-DDD	12
4,4'-DDT	27 J

Total Petroleum Hydrocarbons in Soil SWMU 1 - Soil Pile ( $\text{mg}/\text{kg}$ )	
Sample I.D./Depth	TPH
01S0001-01	1300

Volatile Organic Compounds in Soil SWMU 1 - Soil Pile ( $\mu\text{g}/\text{kg}$ )	
Sample I.D./Depth	Compound
	Toluene
01S0001 - 01	4 J

Volatile Organic Compounds in Soil Building N-121 Plating Shop - SWMU 3 ( $\mu\text{g}/\text{kg}$ )		
Sample I.D./Depth	Compound	
	Acetone	2-Butanone(MEK)
03S0004 - 07	240	41

Semivolatile Organic Compounds in Soil Building N-121 - SWMU 3 ( $\mu\text{g}/\text{kg}$ )			
Compound	Sample I.D./Depth		
	03S0002-01	03S0003 - 01	03S0005 - 01
Butylbenzylphthalate	67 J		
Diethylphthalate		160 J	
Phenanthrene			110 J
Fluoranthene			310 J
Pyrene			250 J
Benzo(a)anthracene			140 J
Chrysene			150 J
Benzo(b)fluoranthene			130 J
Benzo(k)fluoranthene			120 JY
Benzo(a)pyrene			130 J
Indeno(1,2,3-cd)pyrene			81 J
Benzo(g,h,i)perylene			98 J

Herbicides in Soil Building N-121 Plating Shop - SWMU 3 ( $\mu\text{g}/\text{kg}$ )		
Sample I.D./Depth	Compound	
	Dinoseb	MCPA
03S0004-12	23 J	
03S0005-07		7100 J
03S0005-11		4300 J

Pesticides in Soil Building N-121 Plating Shop - SWMU 3 ( $\mu\text{g}/\text{kg}$ )			
Sample I.D./Depth	Compound		
	Dieldrin	4,4'-DDE	4,4'-DDD
03S0002-01	14		
03S0004-01		6.1	4.5
03S0005-01	23 J		

Total Petroleum Hydrocarbons in Soil Building N-121 Plating Shop - SWMU 3 ( $\text{mg}/\text{kg}$ )	
Sample I.D./Depth	Concentration
03S0003-01	810
03S0004-12	180

Soil-3

Herbicides in Soil Aircraft Firefighting Training Facility - SWMU 5 ( $\mu\text{g}/\text{kg}$ )		
Sample I.D./Depth	Compound	
	2,4,5-T	MCPA
05S0001-01		19000 J
05S0002-08	4.4 P	4500 J

Volatile Organic Compounds in Soil Aircraft Firefighting Training Facility - SWMU 5 ( $\mu\text{g}/\text{kg}$ )				
Sample I.D./Depth	Compound			
	Acetone	Methylene chloride	2-Butanone (MEK)	Ethylbenzene
05C0004 - 01		2 J		
05S0004 - 05	110 J		20 J	5 J
05S0004 - 10	10 J			

**Semivolatile Organic Compounds in Soil**  
**Aircraft Firefighting Training Facility - SWMU 5**  
**(µg/kg)**

Compound	Sample I.D./Depth									
	S0002 - 01	S0004 - 05	S0003 - 01	S0003 - 17	S0004 - 01	C0004 - 01	S0006 - 07	S0006 - 12	S0007 - 01	S0007 - 10
BEHP	140 J			51 J		45 J	57 J	64 J	67 J	64 J
Naphthalene		130 J								
2-Methylnaphthalene		150 J								
Fluoranthene			44 J		150 J	320 J			180 J	
Pyrene					120 J	270 J			170 J	
Phenanthrene					53 J	110 J				
Benzo(a)anthracene					60 J	140 J			140 J	
Chrysene					77 J	170 J			140 J	
Benzo(b)fluoranthene					76 J	170 J			140 J	
Benzo(k)fluoranthene					78 J	170 J			130 J	
Benzo(a)pyrene					81 J	170 J			150 J	
Ideno(1,2,3-cd)pyrene					50 J	120 J			67 J	
Benzo(g,h,i)perylene					57 J	130 J			77 J	

Pesticides in Soil Aircraft Firefighting Training Facility - SWMU 5 ( $\mu\text{g}/\text{kg}$ )					
Sample I.D./Depth	Compound				
	Dieldrin	Heptachlor epoxide	4,4'-DDT	Endrin	Aroclor-1260
05S0001 - 01	22 J				
05S0002 - 01	43 J				
05S0003 - 01	60 JD				57 J
05S0003 - 07	45 J				
05S0004 - 01	290 J	2.8 J	11 J		90 J
05C0004-01	928 J	6.8 J	33 J	8.2 J	223 J
05S0004-05	8.3 J				
05S0006-01	15 J				
05S0006-07	103 D	12 J			
05S0007-01	29		5.3 J		47 J

Herbicides in Soil N-126 Plating Shop - SWMU 7 ( $\mu\text{g}/\text{kg}$ )						
Sample I.D./Depth	Compound					
	MCPP	Dicamba	2,4,5-T	2,4-DB	2,4-D	2,4,5-TP
07S0001-14					120 J	
07S0006-01				41 J		
07S0006-24	3300 J					
07S0007-01		8.6 J	1.7 J			
07S0007-10						1.6 J
07S0009-01				23 J		

Organo Pesticides in Soil Building N-126 - SWMU 7 ( $\mu\text{g}/\text{kg}$ )	
Sample I.D./Depth	Compound
	Guthion
07S0001-01	280 J

Chlorinated Pesticides/PCBs Building N-126 - SWMU 7 ( $\mu\text{g}/\text{kg}$ )					
Sample I.D./Depth	Compound				
	Dieldrin	Heptachlor epoxide	4,4'-DDE	4,4'DDD	Aroclor- 1260
07S0001-01	7				
07S0002-01		14 J	12	5.6	
07S0005-01		4.6 J			
07S0007-01	55 J				20000 DJ

Total Petroleum Hydrocarbons in Soil Building N-126 - SWMU 7 ( $\text{mg}/\text{kg}$ )	
Sample I.D./Depth	Compound
07S0001-01	1400
07S0002-08	510
07S0002-25	750
07S0007-01	1400
07S0008-01	3900

Semivolatile Organic Compounds in Soil Building N-126 - SWMU 7 (µg/kg)						
Compound	Sample I.D./Depth					
	S0002-01	S0001-01	S0001-09	S0002-01	S0005-01	S0008-01
Naphthalene						
2-Methylnaphthalene						
Acenaphthene	120 J					
Dibenzofuran	72 J					
Fluoranthene	190 J			2,800	160 J	51 J
BEHP		250 J	55 J			
Phenanthrene				1,600	61 J	
Anthracene				310 J		
Carbozle				160 J		
Pyrene				2,100	110 J	44 J
Benzo(a)anthracene				1,200	74 J	
Chrysene				1,200	78 J	39 J
Benzo(b)fluoranthene				1,200	60 J	
Benzo(k)fluoranthene				990	71 J	
Benzo(a)pyrene				1200	70 J	
Ideno(1,2,3-cd)pyrene				610	45 J	
Dibenzo(a,h)anthracene				240 J		
Benzo(g,h,i)perylene				710	47 J	

Volatile Organic Compounds in Soil Building N-126 - SWMU 7 (µg/kg)											
Compound	Sample I.D./Depth										
	S0001-01	S0001-09	S0001-14	S0001-28	S001-107	S0002-01	S0003-01	S0003-08	S0003-10	S0004-01	S0004-09
Chloromethane			2 J						4 J	6 J	
Bromomethane								2 J		6 J	
Methylene chloride	1 J										
Acetone	47 J	220 J		3 J	5 J	130 J	16 J			32 J	17 J
2-Butanone (MEK)	12 J	19 J								69	
Benzene	8 J	1 J	29								
4-Methyl-2-Pentanone (MIBK)		17									
2-Hexanone		15									
Toluene	170	9 J									
Ethylbenzene	14	2 J									
Xylene (Total)	49 J	5 J									

  

Volatile Organic Compounds in Soil Building N-126 - SWMU 7 (µg/kg)												
Compound	Sample I.D./Depth											
	S004-19	C004-19	S005-01	S005-10	S005-100	S0006-01	S0007-01	C0007-32	S0008-01	S0008-22	S0009-01	S0008-01
Chloromethane						3 J	2 J	3 J		6 J		1 J
Acetone	7 J		45 J	10 J	16				1100 DJ	62 J	66	
Bromomethane	2 JY	2J										

2-Butanone (MEK)											5 J	
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Pesticides in Soil SWMU 8 ( $\mu\text{g}/\text{kg}$ )	
Sample I.D./Depth	Dieldrin
08S0001-01	65 J
08C0002-01	5.1 J
08S0003-01	471 JD
08S0004-01	35 J

Volatile Organic Compounds in Soil SWMU 8 ( $\mu\text{g}/\text{kg}$ )		
Sample I.D./Depth	Compound	
	Acetone	Methylene chloride
08S0001 - 01	19	2 J
08S0001 - 12	18 J	
08S0001 - 19	18 J	
08S0002 - 14	27 J	
08C0002 - 14	110 J	2J
08S0002 - 20	10 J	
08S0004 - 01	36 J	

Herbicides in Soil SWMU 8 ( $\mu\text{g}/\text{kg}$ )		
Sample I.D./Depth	Compound	
	2,4-D	MCP P
08S0001-19	12 J	
08S0002-14		2200 J
08S0002-20		8200 J
08S0003-01		6800 J
08S0003-22		3200 J
08S0004-01		3400 J
08S0004-10		4600 J

Volatile Organic Compounds in Soil Northside Landfill - SWMU 60 (µg/kg)													
Compound	Sample I.D./Depth												
	60S00 01-01	60S00 01-07	60S00 01-14	60S00 01-27	60S00 02-14	60S000 3-01	60S00 3-14	60S00 4-01	60S0 04-15	60S00 5-07	60SHA 01-01	60SHA 01-02	60SHA 02-01
Acetone					16	23 J	17 J				8 J	720	21 B
Methylene chloride	3 J	190 J	3 J	1 J	1 J	2 J		3 J	1 J	1 J			
2-Butanone (MEK)										4 J			
Toluene											2 J		5 J
Ethylbenzene		250 J											
Carbon Disulfide													4 J
Tetrachloroethene												2 J	
Xylene (total)												2 JY	

**Herbicides in Soil**  
**Northside Landfill - SWMU 60**  
**( $\mu\text{g}/\text{kg}$ )**

Sample I.D./Depth	Compound			
	MCPP	Dicamba	2,4,5-TP	Dinoseb
60S0001 - 07	39,000 J			
60S0001 - 14	3,300 J			
60S0002 - 10		3.1 J		
60S0004 - 09				12 J
60S0006 - 01			1.7 J	
60S0006 - 08			2.3 J	

Pesticides in Soil Northside Landfill - SWMU 60 ( $\mu\text{g}/\text{kg}$ )							
Compound	Sample I.D./Depth						
	60S0002-01	60S0005-01	60SHA01-01	60SHA01-02	60SHA02-01	60SHA03-01	60SHA03-02
Dieldrin	69	47	4.4	6.9		7.7	10
4,4'-DDE	16						
4,4'-DDT	11 J						
4,4'-DDD		10 J					
Methoxychlor			1.5 JP		8.6 J		
Endrin ketone					5.3		

Total Petroleum Hydrocarbons in Soil Northside Landfill - SWMU 60 ( $\text{mg}/\text{kg}$ )	
Sample I.D./Depth	Concentration
60S0001-01	4700
60S0001-07	64000
60S0005-01	1500
60SHA01-01	5600
60SHA02-01	2000
60SHA03-01	180

**Semivolatile Organic Compounds in Soil**  
**Northside Landfill - SWMU 60**  
(µg/kg)

Compound	Sample I.D./Depth									
	60S0001-07	60S0001-01	60S0001-14	60S0001-27	60C0001-27	60S0002-01	60S0006-01	60SHA01-01	60SHA02-01	60SHA03-02
Phenanthrene	430 J	210 J				63 J	40 J			
Chrysene	260 J	190 J					53 J			
Benzo(a)pyrene		210 J					56 J			
Pyrene	250 J						62 J	410 J	330 J	
Benzo(a)anthracene	270 J						46 J			
Fluoranthene							68 J			
Benzo(b)fluoranthene							59 J			
Benzo(k)fluoranthene							54 J			
Benzo(g,h,i)perylene							88 J		260 J	
2-Methylnaphthalene	540 J									
Fluorene	230 J									
BEHP			160 J	100 J	110 J					130 BJ

Volatile Organic Compounds in Groundwater Building N-121 Plating Shop - SWMU 3 ( $\mu\text{g/L}$ )						
Sample Location/I.D.	Compound					
	Acetone	Xylene	Ethyl- benzene	Carbon disulfide	Bromo- methane	Chloroform
03GGMW01- LS	7.0 BJ					
03GGMO2 - LS	6.0 J				1 J	
03GGM03 - LS	7.0 J					
03GMW03 - MF	1200 BE	22 Y	2 J	1.0 J		
03GMW03-MFDL	1000 D	17 DJY				
03HMW03-MF	1500 BE	14 Y	1.0 DJ			
03HMW03-MFDL	1300 D					
03GMW05-MF	24 B					1.0 J
03GGMO6-UF	38					
03GGMO7-UF	34					3.0 J
03GGM08-LS	10 B					35 B

Semivolatile Organic Compounds in Groundwater Building N-121 Plating Shop - SWMU 3 ( $\mu\text{g/L}$ )	
Sample Location/I.D.	BEHP
03GMW04 - LS	2.0 J
03GMW05 - MF	1.0 J
03GGMO6 - UF	5.0 J
03GGM08 - LS	2.0 J

Pesticides in Groundwater Building N-121 Plating Shop - SWMU 3 ( $\mu\text{g/L}$ )	
Sample Location/I.D.	Compound
	Naled
03GMW04 - LS	3.5 P

<b>Volatile Compounds in Groundwater at Aircraft Fueling Training Facility - SWMU 5</b> <b>(µg/L)</b>								
Compound	Sample Location/I.D.							
	05GMW4A UF	05GMW4B UF	05GMW05 LS	05GMW05 LF	05GMW06 LS	05GMW08 LS	05GMW09 LS	05GMW07 LS
Acetone			38/ND	8.0 J	27			
Bromomethane				1.0 J				
1,2-Dichloroethene (total)			8 JY/8 JY					
Trichloroethene			1 J/2 JY					
Carbon tetrachloride	3 J	4 J						4 J
Chlorobenzene			3 J/2 J					
Methylene Chloride						31 BJ		
Benzene						3,900	5 J	
Ethylbenzene						30 J		

Note: 05MW05LS sampled twice - first event/second event

Semivolatile Organic Compounds in Groundwater Aircraft Firefighting Training Facility - SWMU 5 (µg/L)				
Sample Location/I.D.	Compound			
	1,2-Dichlorobenzene	Nitrobenzene	BEHP	Acenaphthene
05GMW01 - UF			2.0 BJ	
05GMW05 - LS	7.0 J/6.0 J			
05GMW06 - LS			2.0 J	
05GMW4A - UF			3.0 J	
05GMW4B - UF		1.0 J		
05GMW08 - LS *				3 J

\* Numerous TICs were identified in sample including 3-Pentanone, 2,2-dimethyl (39 J); Napthalene, 1-methyl (48 J), Dimethylnapthalene isomer (48 J), in addition 16 other unknown compounds.

Pesticides in Groundwater Aircraft Firefighting Training Facility - SWMU 5 (µg/L)	
Sample Location/I.D.	Naled
05GMW03 - LS	2.8 P
05GMW05 - LS	4.3

Volatile Organic Compounds in Groundwater SWMU 7 (µg/L)						
Compound	Sample Location/I.D.					
	07GMW01 - LF	07GGM09 - MF	07GMW01 - LS	07GMW01 - UC	07GMW01 - UF	07GMW03 - LF
Bromomethane				2 BJ/ND		
Acetone						78/ND
1,1-Dichloroethene	3 J/4 J	ND/1 J	1 J/4 J		3 J/4 J	
1,1-Dichloroethane	2 J/3 J		46/79		18/26	
1,2-Dichloroethene (total)	2 JY/2 JY		19 Y/34		5 JY/6 J	
Chloroform	2 J/2 J					8 J/8 J
1,2-Dichloroethane			3 J/4 J			
Carbon tetrachloride	4 J/10					12/16
1,2-Dichloropropane			1 J/2 J			
Trichloroethene	6 J/8 J	4 J/7 J	9 J/19		8 J/11	63/73
Benzene		1 J/ND	7 J/8 J			
2-Hexanone			25/ND			
Tetrachloroethene			ND/2 J		ND/9 J	1 J/2 J
Methylene chloride					8 J/ND	
Xylene						
Vinyl chloride						
Toluene		1 J				
Carbon disulfide						

**Volatile Organic Compounds in Groundwater  
SWMU 7  
(µg/L)**

Compound	Sample Location/I.D.					
	07GMW03 - LS	07GMW03 - UC	07HWM03 - UC	07GMW03 - UF	07GMW04 - LF	07GMW04 - UF
Bromomethane		2 BJ/ND				
Acetone	120/8 J	22 B/16	20	12/39	83/ND	30/18
1,1-Dichloroethene						
1,1-Dichloroethane						
1,2-Dichloroethene (total)						
Chloroform						
1,2-Dichloroethane						
Carbon tetrachloride					ND/9 J	
1,2-Dichloropropane						
Trichloroethene					2 J/390	3 J/1 J
Benzene						
2-Hexanone						
Tetrachloroethene					ND/26	ND/ND
Methylene chloride					1 J/ND	
Xylene						
Vinyl chloride						
Carbon disulfide				ND/3 J		

**Volatile Organic Compounds in Groundwater  
SWMU 7  
(µg/L)**

Compound	Sample Location/I.D.					
	07GMW05 - LF	07GMW05 - LS	07GMW05 - UC	07GMW05 - UF	07GMW06 - LF	07GMW06 - LS
Bromomethane	2 BJ/ND			2 BJ/ND		
Acetone	ND/11	20/ND	49/ND	ND/98	5 J/5 J	11/ND
1,1-Dichloroethene						
1,1-Dichloroethane						
1,2-Dichloroethene (total)						
Chloroform	4 J/5 J					
1,2-Dichloroethane	4 J/4 J					
Carbon tetrachloride	6 J/8 J					
1,2-Dichloropropane						
Trichloroethene	22/28				2 J/2 J	
Benzene						
2-Hexanone						
Tetrachloroethene	ND/1 J				1 J/1 J	
Methylene chloride						
Xylene						
Vinyl chloride						
Ethylbenzene		ND/1 J				

Volatile Organic Compounds in Groundwater SWMU 7 (µg/L)						
Compound	Sample Location/I.D.					
	07HMW06 - UC	07GMW06 - UF	07GMW07 - LF	07GMW07 - LS	07GMW07 - UC	07GMW07 - UF
Bromomethane						
Acetone		59/320	33 Y/ND	12/40	10/21	ND/25
1,1-Dichloroethene			1 J/1 J			
1,1-Dichloroethane			2 J/1 J			
1,2-Dichloroethene (total)						
Chloroform						
1,2-Dichloroethane						
Carbon tetrachloride						
1,2-Dichloropropane						
Trichloroethene			6 J/6 J			
Benzene						
2-Hexanone						
Tetrachloroethene			3 J/3 J			
Methylene chloride						
Xylene	1 JY/ND					
Vinyl chloride						2 J/2 J
Carbon disulfide			1 J/ND			

Volatile Organic Compounds in Groundwater SWMU 7 (µg/L)							
Compound	Sample Location/I.D.						
	07GMW08-LF	07GMW08-UC	07GMW08-UF	07GMW09-LS	07GMW09-UC	07GMW09-LF	07GMW09-UF
Bromomethane		1 J/ND					1 J/ND
Acetone		18/ND		ND/14	29/ND		26/ND
1,1-Dichloroethene	7 J/6 J						
1,1-Dichloroethane	4 J/4 J	1 J/ND					1 J/ND
1,2-Dichloroethene (total)	2 J/1 J	11 Y/ND					
Chloroform		2 J/ND		2 J/3 J		ND/2 J	
1,2-Dichloroethane		1 J/ND	3 J/3 J			ND/2 J	
Carbon tetrachloride							
1,2-Dichloropropane							
Trichloroethene	7 J/8 J	4 J/ND	1 J/1 J			ND/4 J	
Benzene		1 J/ND					
2-Hexanone							
Tetrachloroethene		5 J/ND				ND/6 J	
Methylene chloride							
Xylene							
Vinyl chloride							
Carbon disulfide							

Semivolatile Organic Compounds in Groundwater SWMU 7 ( $\mu\text{g/L}$ )		
Sample Location/I.D.	Compound	
	BEHP	Dimethylphthalate
07GMW01 - LS	2 BJ	
07GMW03 - LS	2 BJ	
07GMW03 - UC	5 J	
07GMW04 - LF	3 BJ	
07GMW04 - UC	3 J	
07GMW05 - UC	1 BJ	1 J
07GMW06 - UF	7 J	
07GMW07 - UF	1 J	

Volatile Organic Compounds in Groundwater SWMU 8 ( $\mu\text{g/L}$ )		
Sample Location/I.D.	Compound	
	Acetone	Bromomethane
08GGM011 - F		1 J
08GMW003 - F	8 J	
08GMW004 - F	12	1 BJ

Semivolatile Organic Compounds in Groundwater SWMU 8 ( $\mu\text{g/L}$ )	
Sample Location/I.D.	BEHP
08GGM011 - F	11
08GMW001 - F	8 J

Volatile Organic Compounds in Groundwater Northside Landfill - SWMU 60 (µg/L)						
Compound	Sample Location/I.D.					
	60GMW01 LS	60GMW01 LF	60GMW02 LF	60HMMW02 LF	60GMW02 LS	60GMW04 LF
Acetone	13	14		10	20	5 J
Xylene	3 JY					
Ethylbenzene	9 J					
Carbon disulfide	22					
1,1-Dichloroethane	1 J					
1,1-Dichloroethene (total)	5 JY					
Benzene	26					
Bromomethane			1 J	1 J	1 J	
Methylene Chloride		1 BJ				

Semivolatile Organic Compounds in Groundwater Northside Landfill - SWMU 60 (µg/L)			
Sample Location/I.D.	Compound		
	2,4-Dimethylphenol	Naphthalene	BEHP
60GMW01 - LS	1 J	1 J	
60HMMW02 - LF			17
60GMW03 - LS			1 BJ
60GMW04 - LS			2 BJ
60GMW06 - LS			1 J

Pesticides in Groundwater Northside Landfill - SWMU 60 (µg/L)	
Sample Location/I.D.	Naled
60GMW04 - LS	3.2 P
60GMW05 - LS	7.6 P