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March 30, 1995

Kim Koegler
Bechtel Hanford
H6-02
Richland, WA

Dear Kim:

Enclosed is a data package containing the data collected during the drilling of well 299-W15-25 in the 200 West Area as part of the In-Well Vapor Stripping demonstration. The data package includes:

- Borehole logs
- Drilling activity summary
- Well summary sheets (As-builts)
- Aquifer test results from slug testing
- Summary of water and sediment samples collected
- Status of reported results from Data Chem and IT
- Sediment and water VOC results from PNL lab
- Sediment water content analysis results
- Calcium carbonate analysis results
- Particle size distribution results
- Geophysical logging summary report
- Geophysical logs

The Data Chem and IT laboratories have not reported all the analytical results from the water and soil samples collected from the well. We anticipate to receive all of the results from these laboratories by June, 1995. We will transmit this data as soon as we receive a complete set.

Sincerely,

Tyler J Gilmore
Senior Research Scientist
Geology and Geophysics Group
EARTH AND ENVIRONMENTAL SCIENCES CENTER

TJG:bjd

enc

Doris,
All of the information in this data package (with the exception, I think, of the flagged page) is included in BHI-00399.
I'm sending it to help put the 06/14/95 data package in context. Thanks!
virginia

Sonic Drilling of In Well Vapor Stripping Well
(299-W15-25)

First Drilling Event

Drilled with 8.75" dia. drill string
Difficulty penetrating formation from ground surface to depth of 80'

30' Water added to facilitate drilling

80' Temperatures of drilling tools up to 205 F (measured after tripping pipe out of borehole)

120' 170F temp

128' Caliche encountered

158' 156F temp casing will not advance, heats up to emit smoke

break in casing at 80' and 117', break in drill rod at 138'

164' maximum depth drilled

Second Drilling Event

58' overream to this depth with 12" dia casing

158' pulled 8" drill string and injected wet bentonite grout as pulled back casing

Final Drilling Event

157' air rotary drilling to this depth

170' difficulty moving drill shoe in and out of casing
water added to aid with drill casing (and shoe) removal

190' difficult to recover sediments from borehole

203' attempt to collect sediment samples with sonic split-barrel, melts lexan liners,
add 2 gallons water

211' water table

214-219 slug test interval, rapid water recovery after bailing
large amount of sediment slurry removed during bailing,
possibly contributing to the large "hole" filled with sand during completion

224-229 slug test interval, not as good recovery after bailing, but still recovers quickly

234-239 slug test interval, very slow recovery after bailing

240-250 more cemented zone, more difficult to drill through

272 total drilled depth

BOREHOLE LOG

Boring or Well No. 299-W15-25

Sheet 1 of 6

Location 200 West, N of 231-2

Project In-Well Vapor Stripping

Prepared By Alan Pearson/Alan Pearson (Sign/Print Name) Date 12/1/94

Reviewed By _____ (Sign/Print Name) Date _____

Depth (160)	Sample Type and No.	Sample Blows or Recovery	Graphic Log	Sample Description (Group Name, Group Symbol, Grain Size Distribution, Soil Classification, Color, Moisture Content, Sorting, Angularity, Mineralogy, Max Particle Size, Reaction to HCl)	Comments (Depth of Casing, Drilling Rate, Casing Size & Type, Bit Size, Water Level)
				(160') MUDDY SANDY GRAVEL: 60% Gravel	Note: Samples Not
				30% Sand, 10% Mud: 10% SC, 10% VCP, 10% CP	collect/described above
				10% MP, 10% FP, 10% VFP, 10% VCS, 5% CS, 5% MS,	160'
				5% FS, 5% VFS, 10% Mud: VPS:	Sampled w/5' sonic
				Gravel 60% Basalt, 30% Felsic, 10% Qtzite SR-SA	SS sampler
				Sand 40% Mafic, 60% Felsic, SR-SA	
				Wet color 5Y 4/2 Olive Gray	
				No rx w/10% HCL, Sl. consolidated	
165'	(1) Lith			(165') MUDDY SANDY GRAVEL: 50% Gravel	Sampled w/ Sonic
				40% Sand, 10% Mud: 10% VCP, 10% CP, 10% MP	
				10% FP, 10% VFP, 10% VCS, 10% CS, 10% MS, 5% FS,	
				5% VFS, 10% Mud: VPS:	
				Gravel: 60% Basalt, 30% Felsic, 10% Qtzite SR-SA	
				Sand: 40% Mafic, 60% Felsic, SR-SA	
				Wet color 5Y 4/2 olive gray	
				No rx w/10% HCL, Sl. consolidated	
170'	(1) Lith (3) Phys (1) Hyd cond. (2) Chem (1) Rad Release			(171') SAND: 95% Sand, 5% Mud	Sampled w/5' sonic
				5% CS, 50% MS, 20% FS, 10% VFS, 5% Mud	SS sampler
				Well Sorted: Sand: 25% Mafic	HELS # B09GF5
				75% Felsic A-SR:	& # B09GF6
				Wet color 2.5Y 5/4 light olive brown	(1) Alpha, Beta, Gamma (1A) VOGL B09GF6
				No rx w/10% HCL, Sl. consolidated	(1) VOGL
				Sand began @ ~170'	(1) ICP B09GF5
				Field VOA not taken (no containers)	(1) AS
					(1) PB
					(1) ABN
175	(1) Lith			(175') GRAVELLY MUDDY SAND (moist)	Sampled w/ Sonic
				20% Gravel, 60% Sand, 20% Mud: 2% CP 3% MP	
				5% FP, 5% VFP, 5% VCS, 5% CS, 15% MS, 15% FS	
				20% VFS, 20% Mud, Poorly Sorted	
				Gravel 75% Basalt, 25% Felsic, SR-SA	
				Sand 40% Mafic, 60% Felsic, SR-SA	
				Wet Color 5Y 4/2 Olive Gray,	
				No rx w/10% HCL, Sl. consolidated.	
				Sand appears mostly in lighter colored	
				thin discrete lenses.	

BOREHOLE LOG

Boring or Well No. 299-W15-25

Sheet 2 of 6

Location 200 West, North of 231-2

Project In-Well Vapor Stripping

Prepared By Alan Pearson/Alan Pearson (Sign/Print Name) Date 12/6/94

Reviewed By _____ (Sign/Print Name) Date _____

Depth (180')	Sample Type and No.	Sample Blows or Recovery	Graphic Log	Sample Description (Group Name, Group Symbol, Grain Size Distribution, Soil Classification, Color, Moisture Content, Sorting, Angularity, Mineralogy, Max Particle Size, Reaction to HCl)	Comments (Depth of Casing, Drilling Rate, Casing Size & Type, Bit Size, Water Level) Chem. Samples
	(1) Phy			(180') MUDDY SANDY GRAVEL: 50% Gravel,	Sampled w/5' Sonic
	(1) F VOA			40% Sand, 10% Mud: 10% VCP, 10% CP, 10% MP	SS Sampler.
	(1) Lith			10% FP, 10% VFP, 2% VCS, 3% CS, 10% MS, 10% FS, 10% VFS	(1) Alpha, Beta, Gam. (1) VOGC
	(1) H Conductivity			10% Mud: VPS: Gravel 70% Basalt, 30% Felsic	(1) VOGC #B096F8
	(8) Chem			R-SA: Sand 15% Mafic, 85% Felsic, SR-A	(1) ICP HELS# (1) VOA Field Check
	(1) T. Act.			Wet Color 2.5Y 4/2 dark grayish brown	(1) AS B096F7
				No rx w/10% HCL, Mod. consolidated	(1) PB 181.0'-181.5'
				Lost 6' (bottom) of sample, liners melted	(2) ABN Depth of all samples Chem.
				together at 180' & No Bulk Density	
				Sample collected.	
185'				(188') MUDDY SANDY GRAVEL: 50% Gravel	Lith sample collected
				40% Sand, 10% Mud: 10% SC, 10% VCP, 10% CP,	@ 188' because sonic
				10% MP, 5% FP, 5% VFP, 5% VCS, 5% CS, 10% MS	barrel cracked @ head
				10% FS, 10% VFS, 10% Mud: VPS:	could not shake the
				Gravel 60% Basalt, 30% Felsic, 10% Qtzite R-SA	rest out
	(1) Lith			Sand 25% Mafic, 75% Felsic, SR-A	
	@ 188'			Wet Color 2.5Y 4/2 dark grayish brown	
				No rx w/10% HCL, Mod. Consolidated,	
				Sl. coarser grained than above.	
190'	(1) Phy	190.5'-192'		(191') GRAVELLY SANDY MUD: 15% Gravel	Sampled w/5" Split Spoon
	(1) B. Den	191'-191.5'		35% Sand, 50% Mud: 2% CP, 3% MP, 5% FP	Sampler (cable tool)
	(1) F VOA	192'-192.5'		5% VFP, 5% VCS, 5% CS, 5% MS, 10% FS, 10% VFS	(1) Alpha, Beta, Gam (1) VOGC HELS# B096GP
	(1) Lith	191'		50% Mud: Mod. Sorted.	(1) VOGC (1) VOA Field for Check
	(1) H. Cond	191.5'-192'		Gravel 60% Basalt, 30% Felsic, 10% Qtzite, SR-A	(1) ICP HELS#
	(8) Chem	(192'-192.5'		Sand 30% Mafic, 70% Felsic, SR-SA	(1) AS B096F9
	(1) Total Act.	190.5-192.5		Wet Color 5Y 4/3 olive, No rx w/10%	(1) PB
				HCL, Mod consolidated	(2) ABN
				Heat Ind. Stickers on 192-192.5. liner	
				indicated temp <100°F	
195'	(1) Lith			(195') MUDDY SANDY GRAVEL: 40% Gravel	Lith sample collected
	@ 195'			35% SAND, 25% Mud: 5% VCP, 5% CP, 10% MP	w/7" Sonic barrel
				10% FP, 10% VFP, 5% VCS, 5% CS, 5% MS, 10% FS, 10% VFS	
				25% Mud: VPS	
				Gravel: 60% Basalt, 30% Felsic, 10% Qtzite SR-A	
				Sand: 30% Mafic, 70% Felsic, SR-SA	
				Wet Color 2.5Y 4/2 dark grayish brown	
				No rx w/10% HCL Mod. consolidation	

BOREHOLE LOG

Boring or Well No. 299-W15-25

Sheet 3 of 6

Location 200 West, North of 231-Z

Project In Well Vapor Stripping

Prepared By Alan Pearson/Alan Pearson (Sign/Print Name) Date 12/13/94

Reviewed By _____ (Sign/Print Name) Date _____

Depth (200)	Sample Type and No.	Sample Blows or Recovery	Graphic Log	Sample Description (Group Name, Group Symbol, Grain Size Distribution, Soil Classification, Color, Moisture Content, Sorting, Angularity, Mineralogy, Max Particle Size, Reaction to HCl)	Comments (Depth of Casing, Drilling Rate, Casing Size & Type, Bit Size, Water Level)
	(1) Lith	(202)		(202') MUDDY SANDY GRAVEL: 35% Gravel,	Sampled w/ 4' Cable Tool
	(1) Phy Prop	202-202.5		40% Sand, 25% Mud: 10% VCP, 10% CP, 5% MP, 5% FP	Split Spoon Sampler:
	(1) Hydr Cond	(202-202.5)		5% VFP, 5% VCS, 5% CS, 10% MS, 10% FS, 10% VFS	Chem HELS#s B09GG1
	(1) Tot Act.	(203.5-20		2.5% Mud, VPS. Gravel 60% Basalt, 40% Felsic. SR-A	(202.5'-203.5') B09GG2
	(1) F. VOA	202.5-203.5		Sand: 30% Mafic, 70% Felsic, SR-A	B09GG3
	(10) Chem	(202.5-203.5)		Wet Color 5Y 4/2 olive gray. No rx	B09GG4
				w/ 10% HCL, Mod. Consolidated, Sample	
				is moist from H_2O Added Above	
				No Bulk density sample collected.	
205				Not enough sample	
				207') SANDY GRAVEL: 50% Gravel,	Sampled w/ Sonic 7"
				45% Sand, 5% Mud: 5% SC, 5% VCP,	Barrel
				10% CP, 10% MP, 10% FP, 10% VFP, 10% VCS, 10% CS	
	(1) Lith			10% MS, 10% FS, 10% VFS, 5% Mud: VPS	
	@207'			Gravel: 40% Basalt, 60% Felsic, SR-A	
				Sand: 25% Mafic, 75% Felsic, SR-SA	water table @ 211.0'
				Wet Color 2.5Y 4/2 dark grayish brown,	12-15-94
				No rx w/ 10% HCl, Mod Consolidation.	
				Weathering rinds around gravels	
210	(1) Lith	(211)		211') SANDY GRAVEL: 40% Gravel,	Sample w/ 4' Cable Tool
	(1) Phys Prop	(211.5)		55% Sand, 5% Mud: 5% VCP, 5% CP, 10% MP	Split Spoon Sampler
	(1) B Den.	(200.2-210.5)		10% FP, 10% VFP, 10% VCS, 10% CS, 10% MS, 10% FS	Chem Liner (211.5'-211.0')
	(1) Hydr Cond.	(211-210.5)		15% VFS, 5% Mud: VPS	HELS# Not yet assigned
	(1) F. VOA	211'		Gravel 40% Basalt, 60% Felsic, SR-A	kept in liner on ice.
	(1) T. Act.	(210-211.5)		Sand 25% Mafic, 75% Felsic, SR-SA	
	(1) Chem Liner	(210.5-211)		Wet Color 2.5Y 4/2 dark grayish brown	
				No rx w/ 10% HCl, Mod. Consolidated	
				Weathering rinds around gravels	
215				Mud in thin discrete lenses.	
	(1) Lith			(215') MUDDY SANDY GRAVEL:	Sampled w/ Sonic 9"
	@215			40% GRAVEL, 40% Sand, 20% Mud, 5% SC	Barrel
	H2O	(217-219)		5% VCP, 5% CP, 10% MP, 10% FP, 5% VFP, 5% VCS	
	(2) VOA			5% CS, 10% MS, 10% FS, 10% VFS, 20% Mud	Slug Test 12-14-94
	(1) ICP ABN	12-15-94		VPS: Gravel 35% Basalt, 65% Felsic, R-SA	at 214'-219' depth
	(3) VOCC			Sand, 30% Mafic, 70% Felsic, SR-SA	
	(3) ABN			Wet Color 5Y 4/2 olive gray, No rx	
	(1) Alpha Beta			w/ 10% HCl. Mod Consolidation.	
	(1) Gamma			Sample is wet.	

BOREHOLE LOG

Boring or Well No. 299-W15-25

Sheet 4 of 6

Location 200 West, North of 231-2

Project In Well Vapor Stripping

Prepared By Alan Pearson/Alan Pearson (Sign/Print Name) Date 12/17/94

Reviewed By _____ (Sign/Print Name) Date _____

Depth (220)	Sample Type and No.	Sample Blows or Recovery	Graphic Log	Sample Description: Group Name, Group Symbol, Grain Size Distribution, Soil Classification, Color, Moisture Content, Sorting, Angularity, Mineralogy, Max Particle Size, Reaction to HCl	Comments: Depth of Casing, Drilling Rate, Casing Size & Type, Bit Size, Water Level
	(1) lith	~~HH-10~~		(221') MUDDY SANDY GRAVEL: 60% Gravel	collect split spoon sample
	(1) phys. prop.	219'-221'		25% Sand, 15% Mud: 10% SC, 10% VCP, 10% CP,	with cable tool 219'-221'
	(1) chem			10% MP, 10% FP, 10% VFP, 2% VCS, 3% CS, 5% MS,	40% stuff. 12-14-94 0825
	(1) VOA			5% FS, 10% VFS, 15% Mud: VFS	chem samples sealed in
	(1) total activity			Gravel 60% Basalt, 40% Felsic, SR-A	Lexan liner, stored on ice.
	(1) moisture			Sand 25% Mafic, 75% Felsic, SR-SA	waiting for bottles to
				Wet Color 5Y 4/2 olive gray,	be divided & sent to lab
				No rx w/10% HCl, Mod. Consolidation	lith sample collected
					from shoe @ 221'
225				(225') MUDDY SANDY GRAVEL	collect H_2O samples
	(1) Lith @225			Gravel-45%, Sand-40%, Mud-15%	12-15-94 0805 (217'-219')
				SC-20%, VCP-tr, CP-5% MP-10%,	HELS # B09GG5, B09GG6,
				FP-5%, VFP-5% VCS-5% CS-5%,	B09GG7, B09GG8, B09GG9
				MS-15%, FS-10%, VFS-5% M-15%;	Also 2 VOA - Field Screen
				Gravel - Angular-Rounded, 25% mafic,	(225') Sample - Lithology
				10% qtzite, 5% qtz, 60% felsics	& Field Screen collected
				Sand - SubAngular 85% qtz, 5% qtzite,	w/sonic core barrel
				10% mafics; mod. consolidation	12-15-94 1600
				poorly sorted, wet, slight HCl rxn	Slug Test 224'-229'
				wet color: lt. brownish gray 2.5Y 6/2	(230') Sample w/ lith
230	(2) chem			(232') MUDDY SANDY GRAVEL: 70% gravel,	Cable Tool Split Spoon
	(1) phys. prop.			25% Sand, 5% Mud: 10% LC, 20% SC, 10% CP,	Sampler
	(1) VOA			10% CP, 10% MP, 5% FP, 5% VFP, 5% VCS, 5% CS,	from Liners (230.5-231.0)
	(1) total Act.			5% MS, 5% FS, 5% VFS, 5% Mud: VFS	(231.5-232)
				Gravel 50% Basalt, 50% Felsic, R-SA	Phy Liner (231-231.5)
	(1) Lith @232			Sand 35% Mafic, 65% Felsic, SR-SA	(1) Field VOA
				Wet Color 5Y 4/2 olive gray, No rx	(1) Lith @ 232 from
				w/10% HCl, Mod. Consolidated.	Sonic barrel
					H_2O samples 224'-230' w/ TRACE
					HELS #s B09GH0 & B09GH1
235	(1) Lith @235			(235') MUDDY SANDY GRAVEL:	Sampled w/ 7" Sonic
				Same as above	Barrel @ 235'
					Total Act. 25-235
					Slug Test 234'-239'
					12-17-94

BOREHOLE LOG

Boring or Well No. 299-W15-25

Sheet 5 of 6

Location 200 West, North of 231-2

Project In Well Vapor Stripping Demo

Prepared By L.A. Doremus/ (Sign/Print Name) Date 12-22-94

Reviewed By (Sign/Print Name) Date

Depth	Sample: Type and No.	Sample: Blows or Recovery	Graphic Log	Sample Description: Group Name, Group Symbol, Grain Size Distribution, Soil Classification, Color, Moisture Content, Sorting, Angularity, Mineralogy, Max Particle Size, Reaction to HCl	Comments: Depth of Casing, Drilling Rate, Casing Size & Type, Bit Size, Water Level
240	(1) Lith (1) T. Act. (1) FVOA (1) Phys (1) Chem			(241') MUDDY SANDY GRAVEL: 40% Gravel, 40% Sand, 20% Mud: 10% VCP, 10% CP, 10% MP, 5% FP, 5% VFP, 2% VCS, 3% CS, 5% MS, 10% FS, 20% VFS, 20% Mud: VPS	Sampled w/ 4' Cable Tool Split Spoon Sampler Field VOA - 241' Lith 241' Total Act 241' Phys. 241-241.5' (Liner) Chem 240.5-241.0' (Liner)
				Gravel: 50% Basalt 50% Felsic SR-SA	
				Sand 30% Mafic 70% Felsic, SR-SA	
				Wet Color: 5Y4/1 dark gray, No rx	
				w/ 10% HCL, Mod Consolidated, Note	H2O Sample w/ Teflon Bailer
				A to smaller grainsize & increase %	299 239.5-234.5 screened
				mud	HEIS# B04GH2, B04GH3
245	(1) Lith			(245') MUDDY SANDY GRAVEL: 50% Gravel,	(2) Field VOAs
				30% Sand, 20% Mud: 5% SC, 5% VCP 10% CP	
				10% MP, 10% FP, 10% VFP, 5% VCS, 5% CS, 5% MS,	Sampled 245 Lith w/
				5% FS, 10% VFS, 20% Mud: VPS	7" Sonic barrel
	water:			Gravel 50% Basalt, 50% Felsic, SR-SA	
	(6) VOGC			Sand 30% Mafic, 70% Felsic, SR-SA	
	(2) Field VOA			Wet Color 5Y4/2 olive gray, Mod rx	
	(1) ICP, As, Pb			w/ 10% HCL. Mod Consolidation.	
	(1) ABN			Note increase in clast size.	(250)
	(1) Alpha, Beta, Gamma			(250') MUDDY SANDY GRAVEL	Sample collected from
	(1) Gamma			45% Gravel, 35% Sand, 20% Mud	cable tool split spoon (wet)
	sediment:			15% VCP, 15% CP, 5% MP, 5% FP, 5% VFP	sampler 1-3-95 @ 1050.
250	(1) lith			5% VCS, 10% CS, 10% MS, 5% FS, 5% VFS	Also collected from same
	(1) total activity			20% Mud; v. poorly sorted, slight HCl rxn	sample: Field VOA, total
	(1) Field VOA			Gravel: A-R 50% mafic, 25% qtzite, 15% felsic,	activity (25-250/N427)
	(1) phys. liner (250.0-250.5)			10% qtz; unconsolidated	3 sediment cores sealed
	(2) chem liners (251.0-251.5, 250.5-251.0)			Sand: SA-SR 70% qtz, 20% mafic 10% qtzite	in lexan liners: 250.0-250.5
				wet color: 2.5Y 5/2 grayish brown	phys; 250.5-251.0, 251.0-251.5
					chemical.
255	(1) lith			(255') MUDDY SANDY GRAVEL	
	(1) total activity			60% Gravel, 25% Sand, 15% Silt Mud	water samples collected
				VCP 25%, 5% CP, 15% MP, 10% FP, 5% VFP	with teflon bailer from
				VCS 5%, 5% CS, 10% MS, 5% FS, 5% VFS	247.5-250.0 1-3-95 1300
				15% M; poorly sorted, mod. consolidation	HEIS # B09GH4, B09GH5
				Gravel: R-SA 40% mafic, 40% qtzite, 10% qtz	
				10% felsics	(255) Sample collected
				Sand: SR 75% qtz, 15% mafics, 10% qtzite	from sonic core barrel
				no HCl rxn, WET, wet color 5Y 3/2	1-3-94 1530, also collected
				dark olive gray	1 total activity 25-255/N427

BOREHOLE LOG

Boring or Well No. 299-W15-25

Sheet 6 of 6

Location 200 West, North of 231 Z

Project In Well Vapor Stripping

Prepared By C.A. Dovemus (Sign/Print Name) Date 1-5-95

Reviewed By _____ (Sign/Print Name) Date _____

Depth	Sample Type and No.	Sample Blows or Recovery	Graphic Log	Sample Description (Group Name, Group Symbol, Grain Size Distribution, Soil Classification, Color, Moisture Content, Sorting, Angularity, Mineralogy, Max Particle Size, Reaction to HCl)	Comments (Depth of Casing, Drilling Rate, Casing Size & Type, Bit Size, Water Level)
260	(1) lith - SEDIMENT (1) field VOA (1) physical liner (261.5-262.0) (1) chem liner (261.0-261.5) (1) Total activity	100% slurry		(260) MUDDY SANDY GRAVEL 45% sand, 40% Gravel, 15% Mud 5% VCP 5% CP 10% MP 10% FP 10% VFP, 5% VCS, 10% CS, 10% MS, 5% FS, 10% VFS, 15% M; no HCl rxn Gravel - 50% mafic, 30% qtzite, 10% fels 10% qtz Rounded-Angular Sand - 25% mafic, 25% qtzite, 50% qtz subangular, slightly consolidated, poorly sorted, wet color 2.5Y 5/4 lt. olive brown, wet sample	Sample collected in cable tool split barrel sampler 260.0'-262.0' 1-4-95 925, also sealed 2 liners, 1 for chem 1 for phys analyses
265	(1) lith (1) total activity			(265) MUDDY SANDY GRAVEL same as above	(265') lith sample collected from sonic core barrel 1-4-95
270	SEDIMENT (1) lith (1) total activity WATER (2) Field VOA (6) VOC (1) total activity (1) ICP, As, Pb (3) ABN (1) ions (1) AIKB (1) TDS (1) TOC (1) alpha, beta (1) gamma			(271) MUDDY SANDY GRAVEL 40% Gravel 45% sand 15% Mud 30% VCP, 5% CP, 5% MP, tr FP, tr VFP, tr VCS, 18% CS, 15% MS, 15% FS, 5% VFS, 15% M, poorly sorted Gravel - R-SA, qtzite 70%, mafics 10% felsics 15% qtz 5% Sand - SR-SA qtz 90%, qtzite 5%, mafics %; no HCl rxn, wet unconsolidated, matrix supported wet color 5Y 5/4 olive better sorted, different color than overlying sediments, larger coarse size fraction, distinct sand size fraction MS-CS	(271') lith sample collected from sonic core barrel 1-6-95 Groundwater samples collected in Teflon bailer 1-5-95, 1120 HEIS #s B09GH6, B09GH7, B09GH8, Total Activity # (270'-272')
275	TD = 272'				

A-6000-382 (01/93)

WELL SUMMARY SHEET

Boring or Well No. 241-W15-25

Sheet 1 of 2

Location 200 W, North of 231-2

Project In-Well Vapor Stripping Demo

Prepared By Cliff Doremus (Sign/Print Name) Date 1-24-95

Reviewed By (Sign/Print Name) Date

CONSTRUCTION DATA		Depth in Feet	GEOLOGIC/HYDROLOGIC DATA	
Description	Diagram		Graphic Log	Lithologic Description
cement Grout (2.0' - 13.2')		5		Samples not collected/described above 160' (as per work plan)(WHC-SD-EN-AP-117 Rev.Ø)
		10		
		15		
11" dia borehole - 10¾" dia temporary threaded carbon steel casing		20		
		25		
		30		
		35		
overreamed with 12" dia. temporary casing to 58'		40		
		45		
		50		
mesh bentonite crumbles (13.2' - 206.5')		55		
		60		
		65		
		70		
4" dia. stainless steel well casing (+1.0' - 234.3')		75		
		80		
		85		
		90		
originally drilled with 8⅝" dia. casing to 160' depth, backpulled and filled with bentonite grout before redrilling w/ 11" casing		95		
		100		
		105		
		110		
		115		
		120		
		125		
		130		
		135		
		140		
		145		
		150		
		155		

WELL SUMMARY SHEET

Boring or Well No. 299-W15-25

Sheet 2 of 2

Location 200 W, North of 231-2

Project In-Well Vapor Stripping Demo

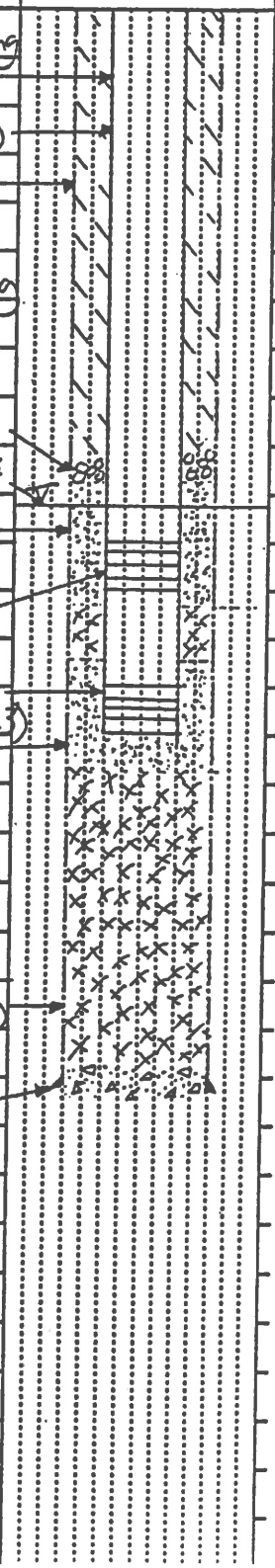
Prepared By L.A. Doremus (Sign/Print Name) Date 1-16-95

Reviewed By _____ (Sign/Print Name) Date _____

CONSTRUCTION DATA

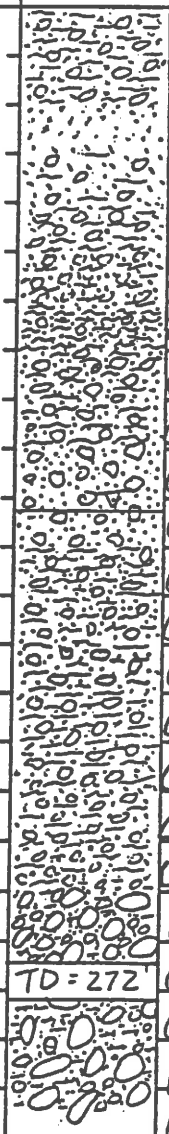
Description
4" dia. Stainless Steel Well casing (+1.0' - 234.3')
Bentonite Crumbles (13.2'-206.5')
11" dia borehole
10 3/4" dia. temporary threaded carbon steel casing
3/8" dia bentonite pellets (206.5'-209.7')
water table @ 211.2' 12-17-94
20-40 mesh silica sand (209.7'-222.1')
(2) 5' length, 10 slot wire wrap screens (4" dia) @ (214.0'-219.0') and (229.0'-234.3')
20-40 mesh silica sand (227.3'-239.3')
Volclay Chunks (239.3'-269.5')
Slough (269.5'-272')

Diagram



Depth in Feet
165
170
175
180
185
190
195
200
205
210
215
220
225
230
235
240
245
250
255
260
265
270
TD = 272'

Graphic Log



GEOLOGIC/HYDROLOGIC DATA

Lithologic Description
(160') MUDDY SANDY GRAVEL
(165') " " "
(171') SAND
(175') GRAVELLY MUDDY SAND
(180') MUDDY SANDY GRAVEL
(185') " " "
(191') GRAVELLY SANDY MUD
(195') MUDDY SANDY GRAVEL
(202') " " "
(207') SANDY GRAVEL
(211') " "
(215') MUDDY SANDY GRAVEL
(221') MUDDY SANDY GRAVEL
(225') " " "
(232') " " "
(235') " " "
(241') " " "
(245') " " "
(250') " " "
(255') " " "
(260') " " "
(265') " " "
(271') " " "

Battelle
Pacific Northwest Laboratories

Project Number K21172

Internal Distribution

File/LB

Date January 18, 1995

To T.J. Gilmore

From F.A. Spane

Subject Slug Test Analysis Results for Well 299-W15-25: Volatile Organic Compounds - Arid Integrated Demonstration Program

This letter report presents the analysis results of slug tests conducted at well 299-W15-25, prior to well completion. The field tests were performed in support of the planning and design of a proposed in-well vapor stripping field demonstration on the Hanford Site, as part of the Volatile Organic Compounds - Arid Integrated Demonstration Program (VOC-Arid ID). In all, three depth intervals were tested during the course of drilling well 299-W15-25. The depth intervals tested were: 214 to 219 ft bgs; 225 to 230 ft bgs; and, 235 to 240 ft bgs. The tests were conducted by installing a temporary 8-in telescoping well screen and then pulling back the 8-in well casing approximately 5 ft, which had previously been advanced 10 ft during the course of drilling the well. The purpose of the temporary well screen installation was to stabilize the unconsolidated to semi-consolidated test formation (i.e., to keep from collapsing the formation into the borehole) during slug testing and hydrochemical sampling activities.

The slug tests were conducted by instantaneously immersing (slug injection test) or removing (slug withdrawal test) a slugging rod with a calculated displacement volume of 0.457 ft^3. In total, four slug withdrawal and two slug injection tests were conducted. Analysis results, however, focused solely on slug withdrawal tests because of their reported superior results within unconfined aquifer test conditions (e.g., Bouwer 1989, Spane 1992, 1994).

Slug test analysis methods used included the semi-empirical graphical technique originally described in Bouwer and Rice (1976) and the type-curve matching method presented in Spane (1994). The type-curve matching method described in Spane (1994) is for the analysis of slug interference response (i.e., for observation well results); however, it can be utilized as well for the analysis of single-well slug tests. The type-curve method is based on the conversion of unconfined aquifer pumping test type curves to equivalent slug test responses. This procedure is discussed in detail in Spane (1994) and will not be presented in this letter report.

The Bouwer and Rice (1976) method and the type-curve matching method can be used to analyze partially penetrating wells, within anisotropic unconfined aquifers. Like most analytical methods, both methods are dependent on the

assumption that the aquifer being tested is homogeneous over its entire thickness, which based on available surrounding information was assumed to be 190 ft. Other assumed test parameter values used to support the test analyses include: elastic storativity, S, (0.0001) and vertical anisotropy, K_D (0.1). The author's experience in the analysis of single-well slug tests indicates that slug test response is extremely insensitive to these two parameters for tests performed in partially penetrating wells.

As noted in Spane (1994), for quantitative slug test analysis, the "effective" stress well radius, r_{ew}, must also be known. Bouwer (1989) recommends that for unconfined wells with well screens located below the water table, the r_{ew} is equivalent to the " ... radius of the screened or open section of the well plus the thickness of a sand or gravel pack and/or of the developed zone around the well." For test situations where the stress well screen encompasses the water table and has a sand/gravel pack installation, Bouwer (1989) provides the following equation for calculating r_{ew}:

$$r_{ew} = [(1-n)r_w^2 + nr_s^2]^{1/2} \qquad (1)$$

where n = sand pack porosity, r_s = radial distance from center of well to outer sand pack boundary, and r_w = well screen radius.

For test situations where well drilling and development have caused creation of an "enhanced" zone of greater permeability surrounding the stress well, a slightly different approach for calculating r_{ew} is proposed. Bouwer (1989) states that for these test conditions, a double straight-line effect is commonly displayed for stress well slug test response plots of the log slug head response, y_t, versus time, t, as shown in Figure 1. As noted in Bouwer (1989), the first straight-line (A - B) is reflective of the artificial zone of higher permeability surrounding the well, while the second slope straight-line (B - C) is more representative of the undisturbed test formation response. As will be shown, this type of double straight-line response, indicative of a zone of enhanced permeability immediately surrounding the test well, was exhibited for all slug tests conducted at well 299-W15-25.

For the analysis of slug tests exhibiting this type of composite model response, Bouwer (1989) recommends extension of the second straight-line slope to a time equal to zero for calculating the maximum slug stress level, y_o, actually imposed on the undisturbed test formation. If the slug test stress volume, V_t, is known (e.g., from the slugging rod displacement volume), then

the "enhanced" effective stress well radius, r_{ew}, can be calculated using the following re-arrangement of the equation for the volume of a cylinder:

$$r_{ew} = [V_t/(\pi\ y_o)]^{1/2} \qquad (2)$$

Because of its semi-empirical nature, analytical results obtained using the Bouwer and Rice (1976) method (i.e., in contrast to results obtained using the type-curve matching method) are expected to be subject to error. Bouwer and Rice (1976) indicated that the estimate of hydraulic conductivity and transmissivity using their analysis method should be accurate to within 10 to 25%. Recently however, Hyder and Butler (1995) report that errors as great as 100% can occur under certain test site conditions. For these reasons, greater credence is afforded the analytical results obtained using the type-curve matching approach, which have a more rigorous analytical basis. The analysis results for both test method analyses for the various individual test/depth intervals are presented below and are summarized in Table 1.

<u>Test/Depth Interval: 214 - 219 ft</u>

Data for slug withdrawal Test 1 and Test 3 are available for test analysis. No slug injection tests were conducted for this test/depth interval. The tests were initiated on December 15, 1994 by rapidly removing a submerged slugging rod, with a calculated displacement volume of 0.457 ft^3 from the well fluid column. The static water level at the time of testing was reported as 210.89 ft bgs.

Figures 2 and 3 show the early-time test response and projected initial test formation slug test level, y_o, for each test, based on the back projection of the second straight-line segment to the start of the test. As indicated in the figures, an enhanced zone of permeability surrounding the borehole is indicated by the first steep straight-line during the initial 7 secs of the test. Following procedures outlined in the previous section of the letter report, initial formation stress levels for the tests, based on back-projection of the second straight-lines, were calculated to be 0.367 ft and 0.428 ft for Tests 1 and 3, respectively. Effective well radii, r_{ew}, of 0.630 ft and 0.583 ft were calculated for Tests 1 and 3, using equation (2) and the known slugging rod displacement volume and calculated formation stress level for each test. The second straight-line for each test was then analyzed using the Bouwer and Rice (1976) method for determining the transmissivity of the

test formation. As indicated in the figures, the Bouwer and Rice analysis provided transmissivity estimates of 1315 ft^2/d and 1170 ft^2/d for Tests 1 and 3, respectively.

Results from type-curve matching analysis are shown in Figures 4 and 5. The dimensionless head test data response exhibits a distinctive data shift at ≈ 1 min for both tests. There are a number of possible explanations for the cause of the shift in the test response (e.g., instrument effects, change in borehole size, lateral permeability change). The fact that the effect was reproduced for both Tests 1 and 3 suggests a true physical test formation condition. To analyze the test responses, two analyses were performed: an early test system response analysis (i.e., for data 0 to 1 min) and a late test system response analysis (i.e., for data ≥ 1 min). Figures 4 and 5 show the results of the late test system response analysis. The slug test type-curve analysis utilizes the combined dimensionless head and dimensionless head derivative approach discussed in Spane and Wurstner (1993). As shown in the figures, Test 1 displays a better type-curve match than Test 3; although similar transmissivity values (2400 ft^2/d vs. 2200 ft^2/d) are indicated. Similar transmissivity estimates of 3000 ft^2/d and 2600 ft^2/d were also obtained for the early test system response analyses (not shown) for Test 1 and Test 3, respectively.

Because of the limitations previously discussed for the Bouwer and Rice method, results obtained using the type-curve matching method are considered to be more valid. Results from the late test system response type-curve analysis (transmissivity range = 2400 ft^2/d to 2200 ft^2/d) are also believed to be more reflective of test formational conditions, in comparison to the early test system response, which is more sensitive to localized, near well effects.

<u>Test/Depth Interval: 225 - 230 ft</u>

Data for slug withdrawal Test 6 are available for test analysis for this depth interval. A slug injection test was also conducted for this test/depth interval, but was not analyzed because of previously noted test complications that can occur for slug injection tests in unconfined aquifers. The test was initiated on December 16, 1994 by rapidly removing a submerged slugging rod, with a calculated displacement volume of 0.457 ft^3 from the well fluid column. The static water level at the time of testing was reported as 211.54 ft bgs. Figures 6 shows the early-time test response and projected initial test formation slug test level, y_o, for the test, based on the back projection of the established straight-line segment to the start of the test. As indicated in the figure, oscillatory test response behavior occurred during the initial 5 secs of the test. This oscillatory behavior masks the presence of first

straight-line segment that would extend to a calculated y_o value of 1.309 ft (based on the slugging rod volume and well casing dimensions). The cause of the oscillatory response behavior is not completely understood, but may be attributed well transient/momentum effects that can occur immediately after slug test initiation.

Following procedures previously outlined, the initial formation stress level, based on back-projection of the second straight-line, was calculated to be 0.860 ft for Test 6. An effective well radius, r_{ew}, of 0.411 ft was calculated, using equation (2) and the known slugging rod displacement volume and calculated formation stress level for the test. The straight-line section of the test response was then analyzed using the Bouwer and Rice (1976) method for determining the transmissivity of the test formation. As indicated in the figure, the Bouwer and Rice analysis provided a transmissivity estimate of 3460 ft^2/d.

Results from type-curve matching analysis are shown in Figure 7. As with the previous test interval analyses, the slug test type-curve analysis utilizes the combined dimensionless head and dimensionless head derivative approach discussed in Spane and Wurstner (1993). As shown in the figure, a reasonable match was obtained for the entire test system response, which provided a transmissivity estimate of 5500 ft^2/d. As discussed previously, the type-curve analysis approach is believed to provide more valid hydraulic property estimates, than obtainable with the Bouwer and Rice (1976) method.

<u>Test/Depth Interval: 235 - 240 ft</u>

Data for slug withdrawal Test 8 are available for test analysis for this depth interval. A slug injection test was also conducted for this test/depth interval, but was not analyzed because of previously noted test complications that can occur for slug injection tests in unconfined aquifers. The test was initiated on December 19, 1994 by rapidly removing a submerged slugging rod, with a calculated displacement volume of 0.457 ft^3 from the well fluid column. The static water level at the time of testing was reported as 211.94 ft bgs.

Figures 8 shows the early-time test response and projected initial test formation slug test level, y_o, for the test, based on the back projection of the established straight-line segment to the start of the test. As exhibited for the previous test/depth interval, oscillatory test response behavior occurred during the initial 5 secs of the test. This oscillatory behavior masks the presence of first straight-line segment that would extend to a calculated y_o value of 1.309 ft (based on the slugging rod volume and well casing dimensions).

The initial formation stress level for the test, based on back-projection of the second straight-line, was calculated to be 0.864 ft. An effective well radius, r_{ew}, of 0.410 ft was calculated, using equation (2) and the known slugging rod displacement volume and calculated formation stress level for the test. The straight-line section of the test response was then analyzed using the Bouwer and Rice (1976) method for determining the transmissivity of the test formation. As indicated in the figure, the Bouwer and Rice analysis provided a transmissivity estimate of 29 ft^2/d.

Results from type-curve matching analysis are shown in Figure 9. As with the previous test interval analyses, the slug test type-curve analysis utilizes the combined dimensionless head and dimensionless head derivative approach discussed in Spane and Wurstner (1993). As shown in the figure, the entire test system response could not be matched, especially for test times $\geq$ 30 min. Examination of derivative peak height and steepness of the slug test data during late test times suggests the presence of wellbore damage (i.e., skin effects) and/or changes in the hydrologic trend during dissipation of the slug test response. The best-fit type-curve analysis provided a transmissivity estimate of 150 ft^2/d. As discussed previously, the type-curve analysis approach is believed to provide more valid hydraulic property estimates, than obtainable with the Bouwer and Rice (1976) method.

Summary

Results of the slug test analysis for three test/depth intervals at well 299-W15-25 (see Table 1), indicate a significant decrease in aquifer transmissivity (i.e., 150 ft^2/d) for the deepest test interval depth of 235 to 240 ft bgs. The highest indicated aquifer transmissivity (5500 ft^2/d) was indicated for the second test/depth interval (225 to 230 ft bgs).

The analytical methods used in the letter report are based on the assumption that the aquifer is homogeneous over its presumed thickness, which based on available surrounding subsurface geological information was assumed to be 190 ft. Results from the slug testing, however, suggest that the aquifer is not homogeneous over the depth of testing (especially for the depth interval 235 to 240 ft bgs). Because of the lack of apparent homogeneity over the presumed aquifer thickness, transmissivity estimates presented in this letter report should be considered to be qualitative in nature. More quantitative estimates can be obtained by using a heterogeneous model approach and/or an assumed smaller homogeneous aquifer thickness.

References

Bouwer, H. 1989. The Bouwer and Rice Slug Test - An Update. Ground Water, Vol. 27, No. 3, pp. 304-309.

Bouwer, H. and R. C. Rice. 1976. A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells. Water Resources Research, Vol. 12, No. 12, pp. 423-428.

Hyder, Z. and J. J. Butler, Jr. Slug Tests in Unconfined Formations: An Assessment of the Bouwer and Rice Technique. Ground Water, Vol. 33, No. 1, pp. 16-22.

Spane, F. A. Jr., 1992. Applicability of Slug Interference Tests Under Hanford Site Test Conditions: Analytical Assessment and Field Test Evaluation. Pacific Northwest Laboratory, PNL-8070, Richland, Washington.

Spane, F. A., Jr. 1994. Applicability of Slug Interference Tests for Unconfined Aquifers: (1) Analytical Assessment. Pacific Northwest Laboratory, PNL-SA-24283, Richland, Washington (submitted to Ground Water).

Spane, F. A., Jr., and S. K. Wurstner. 1993. DERIV: A Program for Calculating Pressure Derivatives for Use in Hydraulic Test Analysis. Ground Water, Vol. 31, No. 5, pp. 814-822; also as PNL-SA-21569, Pacific Northwest Laboratory, Richland, Washington.

TABLE 1. Summary of Well 299-W15-25 Slug Test Analytical Results, and Test Comments.

Slug Withdrawal Test Number	Test/Depth Interval ft bgs*	Transmissivity Estimate: Bouwer and Rice Method ft^2/d	Transmissivity Estimate: Type-Curve Matching ft^2/d
1	214 - 219	1315	2400 - 3000
3	214 - 219	1170	2200 - 2600
6	225 - 230	3460	5500
8	235 - 240	29	150

* bgs below ground surface

Slug Withdrawal Test Number	Test Comments
1	Test exhibited enhanced zone of permeability around borehole for the first 7 secs of test. Also there are several test data shifts that occurred during the test, the most prominent being at ≈ 1 min of the test.
3	Same enhanced zone permeability and data shift response characteristics as exhibited for slug withdrawal test 1.
6	Test exhibited test response characteristics indicative of a small zone of enhanced permeability surrounding the borehole. Test response also exhibited a damped oscillatory behavior during the initial 5 secs of the test.
8	Like test number 6, the test exhibited test response characteristics indicative of a small zone of enhanced permeability surrounding the borehole. Test response also exhibited a damped oscillatory behavior during the initial 5 secs of the test.

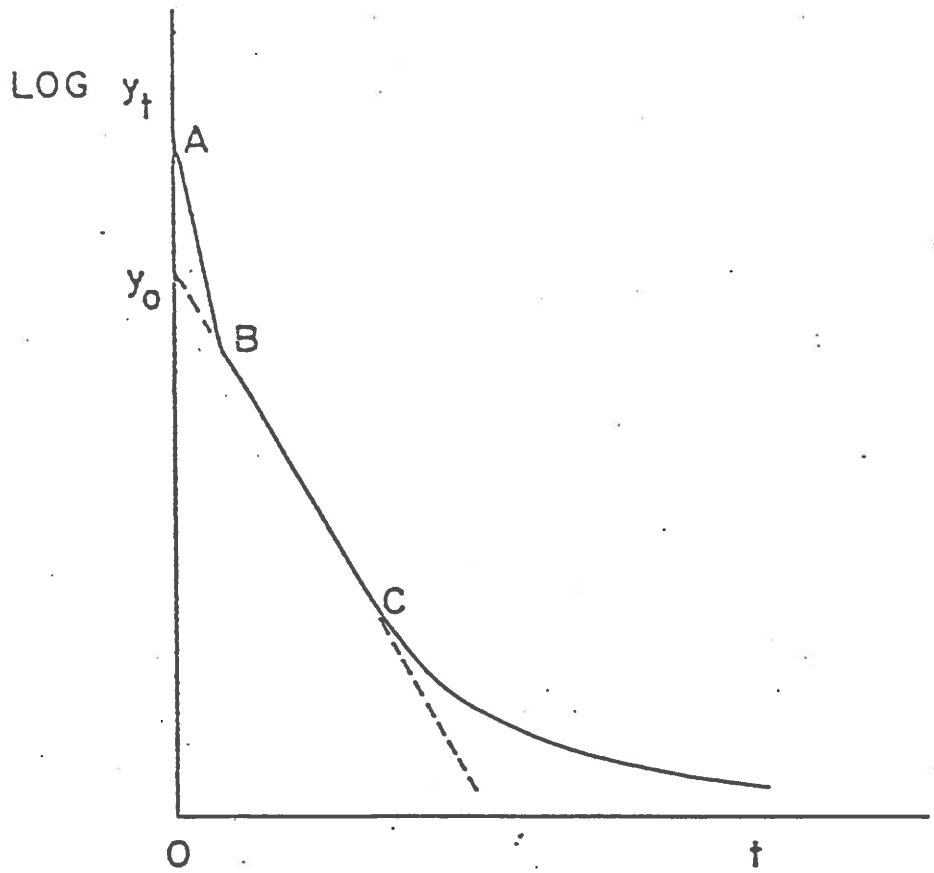


FIGURE 1. Schematic of Slug Test Double Straight-Line Response Effect (adapted from Bouwer 1989)

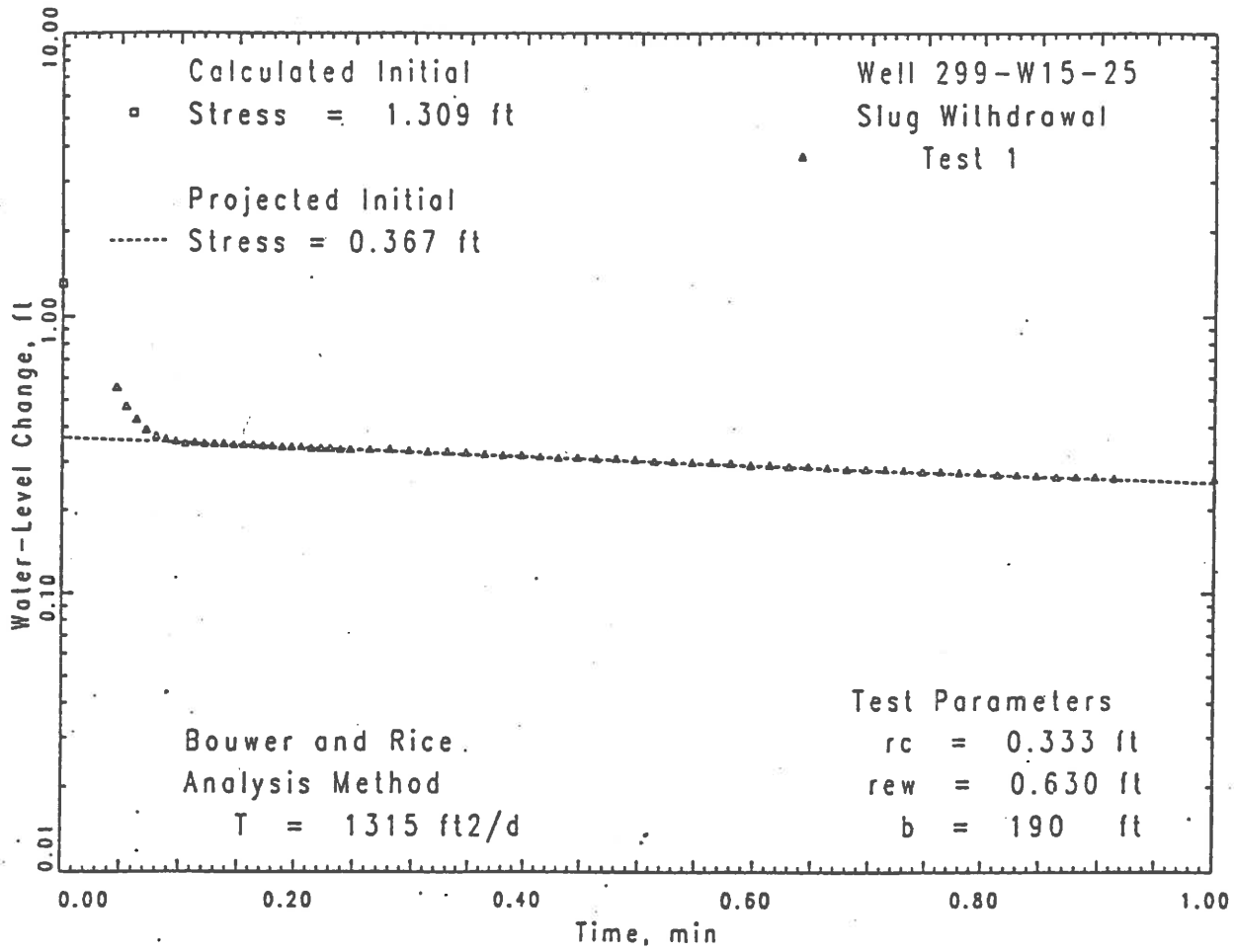


FIGURE 2 Projected Initial Formation Stress Level, Y_o, and Bouwer and Rice Method Analysis for Slug Withdrawal Test 1

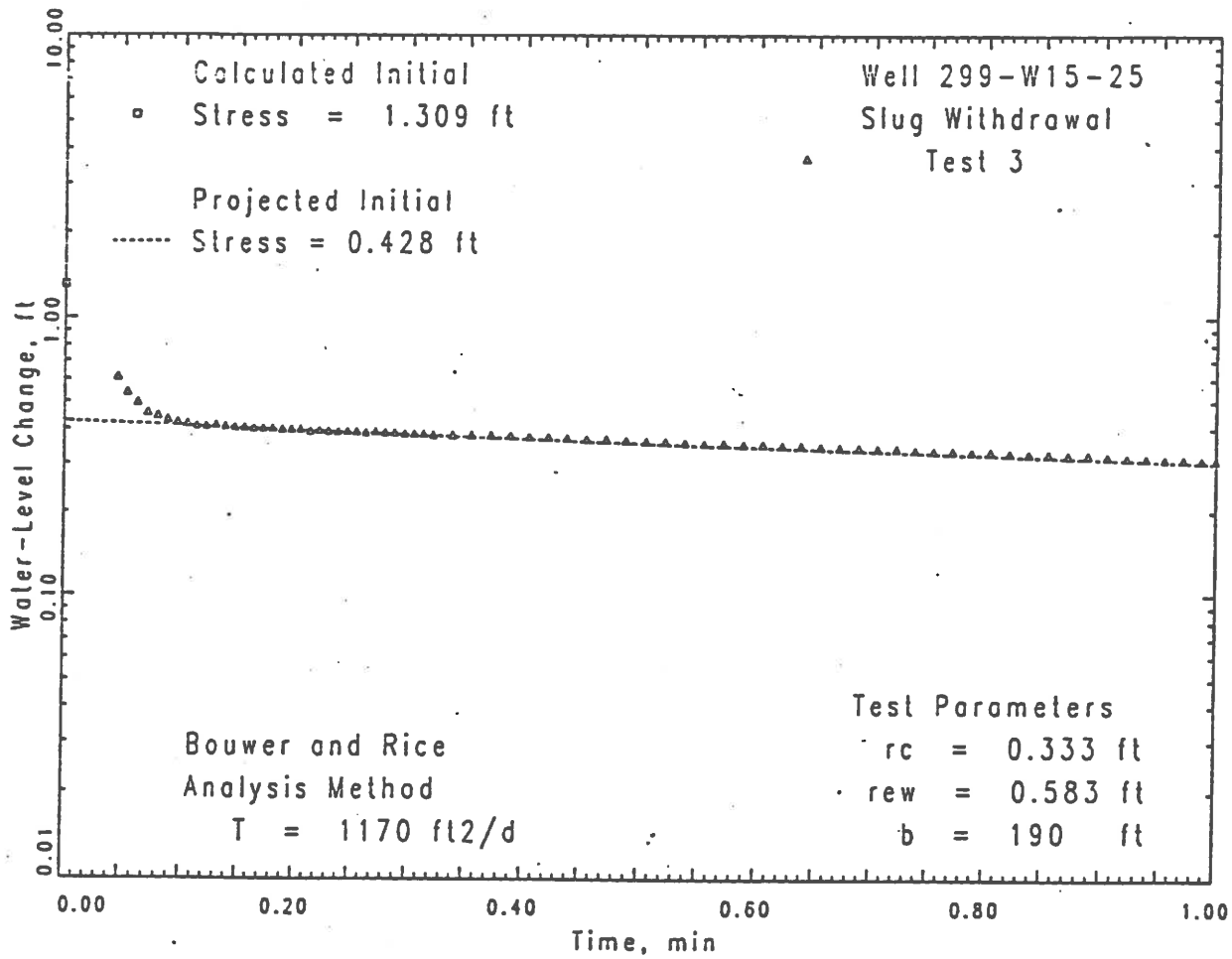


FIGURE 3 Projected Initial Formation Stress Level, Y_o, and Bouwer and Rice Method Analysis for Slug Withdrawal Test 3

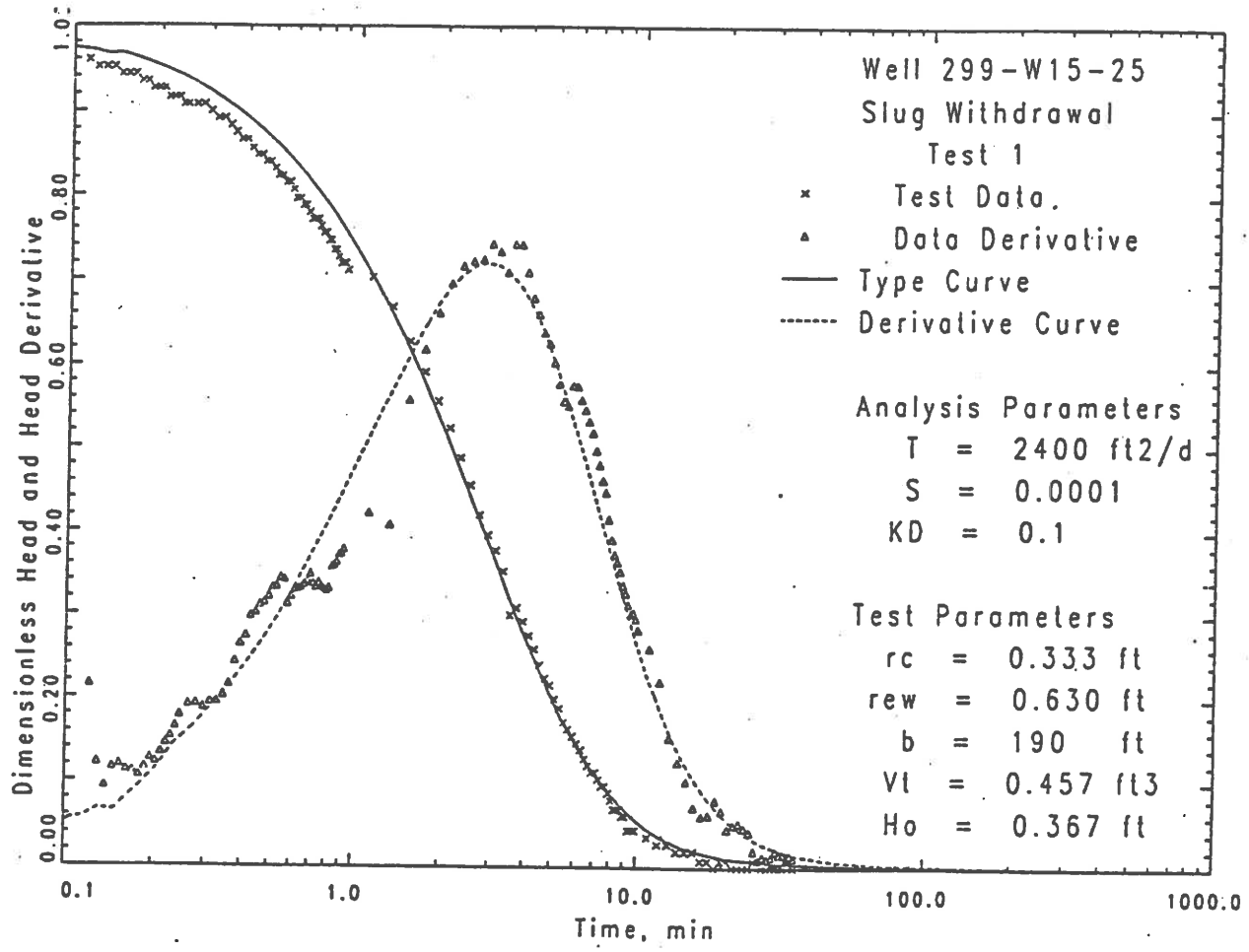


FIGURE 4 Combined Type-Curve and Derivative Plot Analysis for Slug Withdrawal Test 1

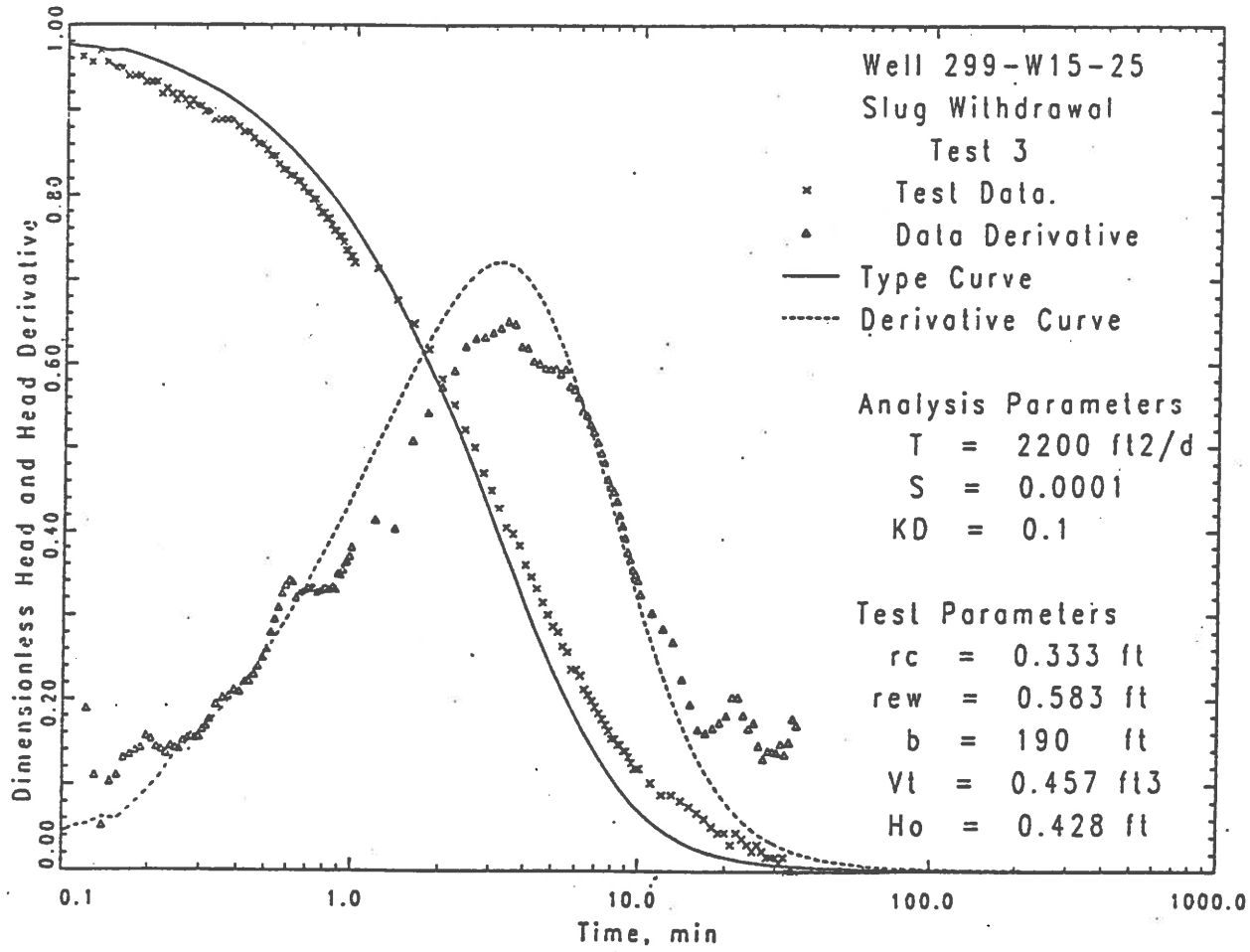


FIGURE 5 Combined Type-Curve and Derivative Plot Analysis for Slug Withdrawal Test 3

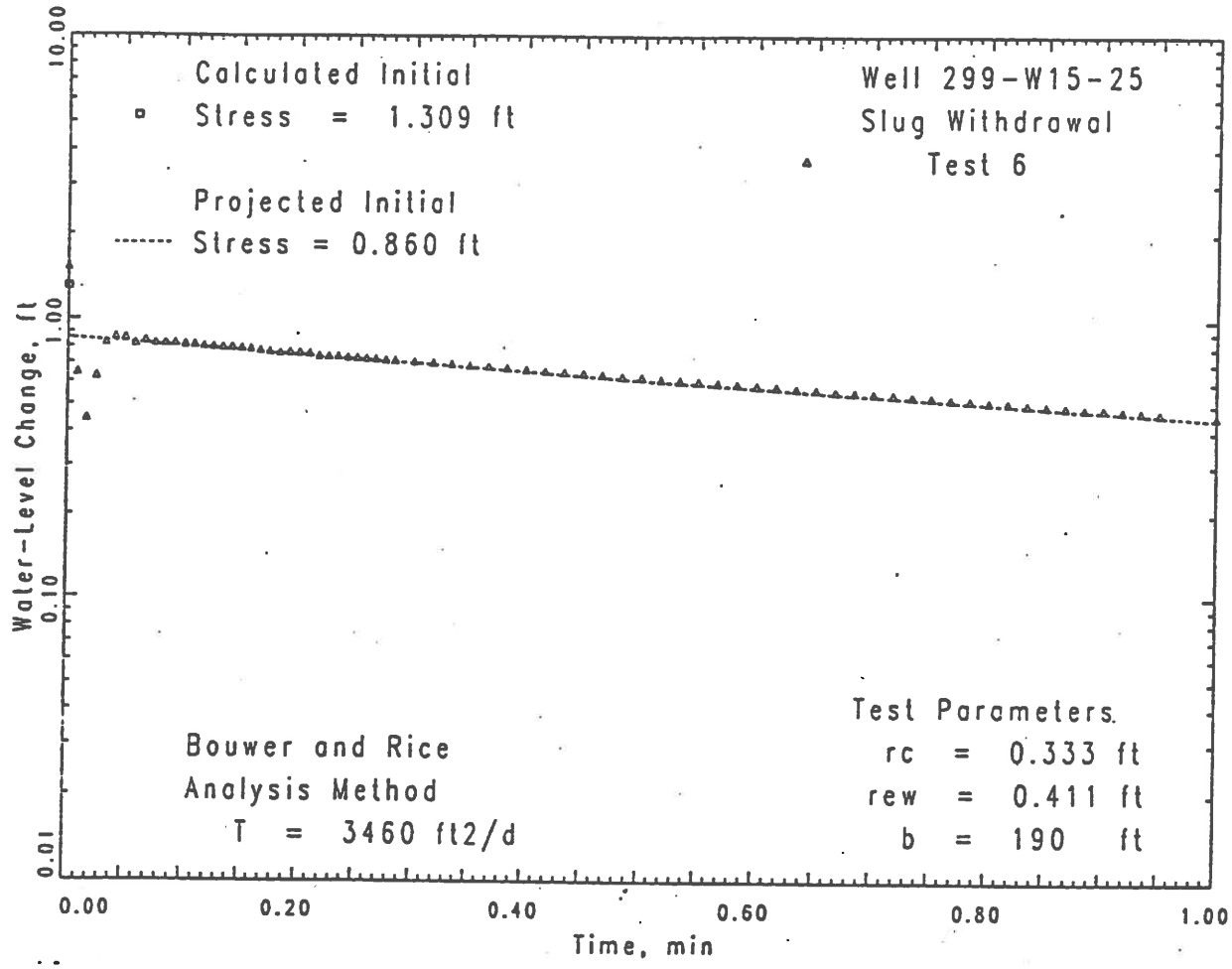


FIGURE 6 Projected Initial Formation Stress Level, Y_o, and Bouwer and Rice Method Analysis for Slug Withdrawal Test 6

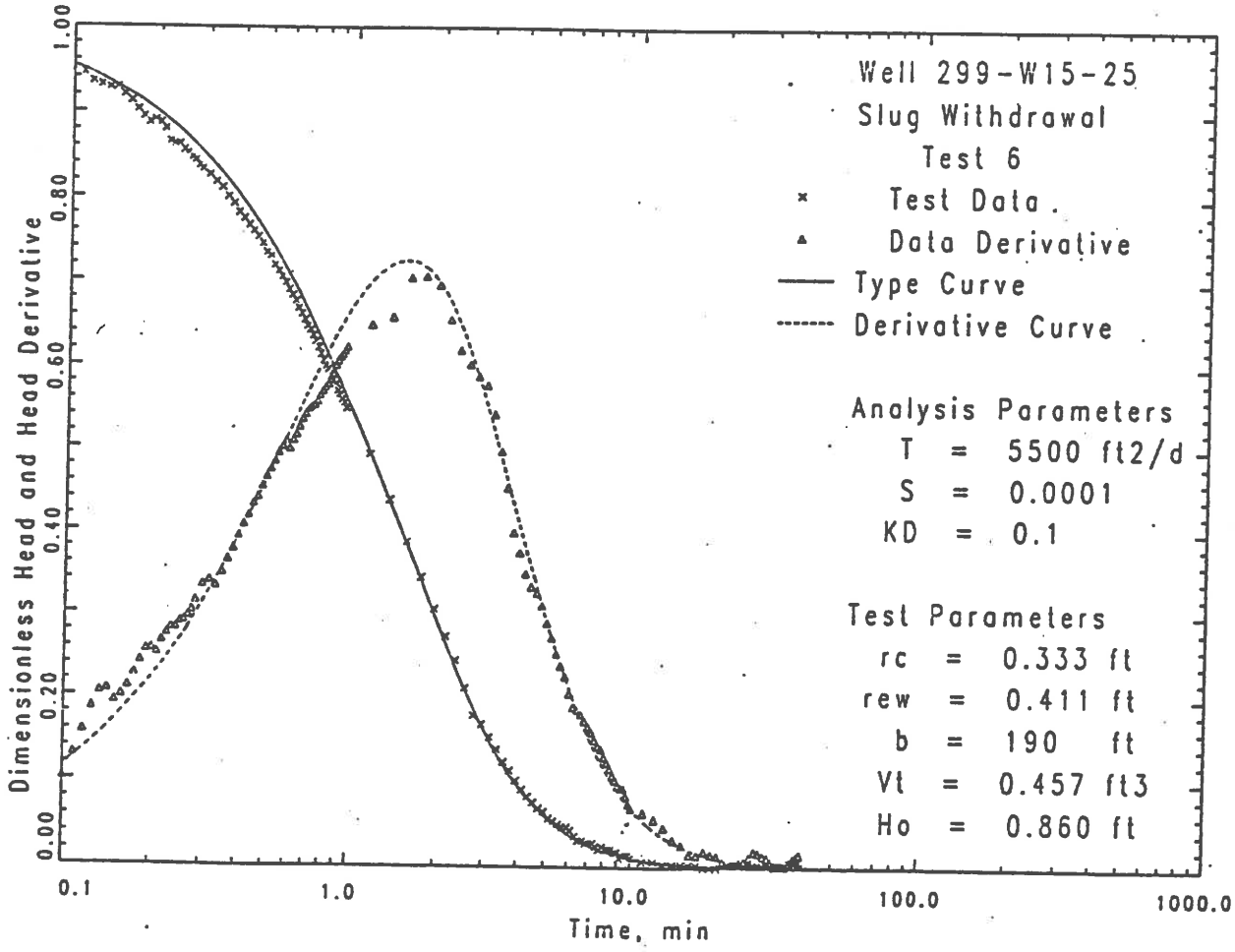


FIGURE 7 Combined Type-Curve and Derivative Plot Analysis for Slug Withdrawal Test 6

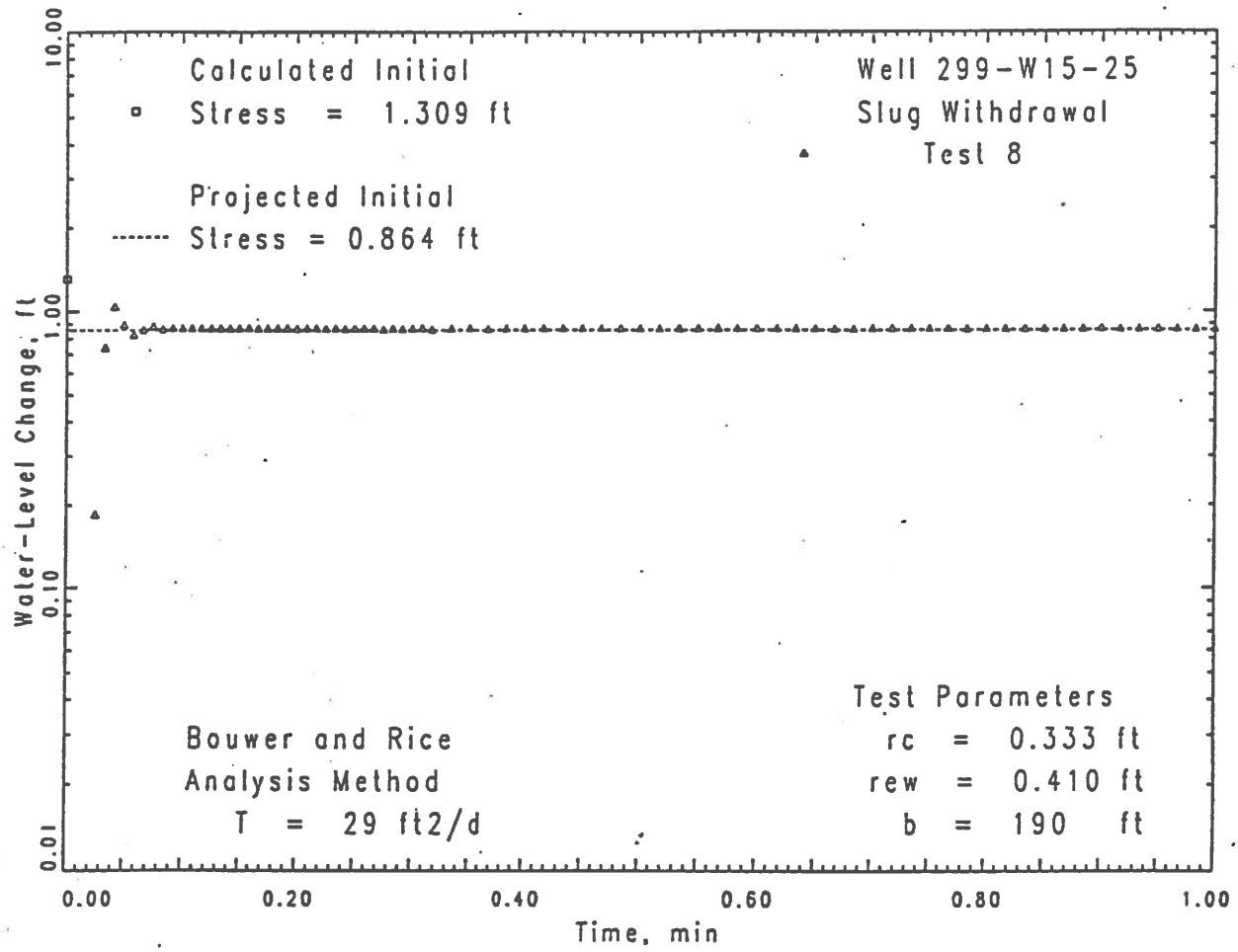


FIGURE 8 Projected Initial Formation Stress Level, Y_o, and Bouwer and Rice Method Analysis for Slug Withdrawal Test 8

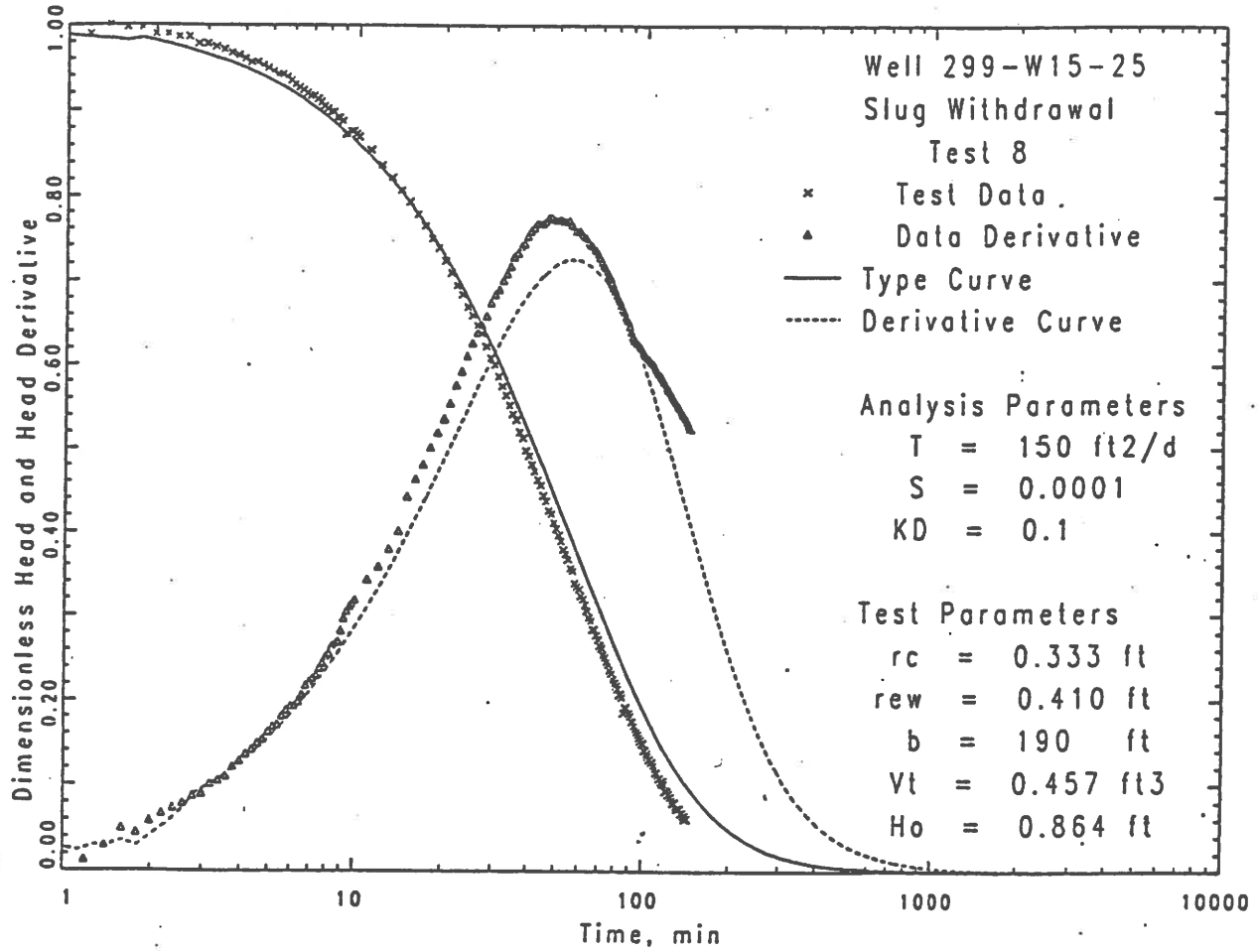


FIGURE 9 Combined Type-Curve and Derivative Plot Analysis for Slug Withdrawal Test 8

SAMPLES COLLECTED FROM 299-W15-25

date	time	depth (ft)	sample media	sample type	HEIS number	STATUS	PNL rad release #	Rad Release #	copy in hand
		160	SOIL	LITH			25-160	N4221	yes
		165	SOIL	LITH			25-165	N4222	yes
11/30/94	1140	170	SOIL	VOCV	B09GF5	DELETED	B09GF5	E7629	yes
11/30/94	1140		SOIL	VOCV	B09GF6	DELETED	B09GF5	E7629	
11/30/94	1140	171	SOIL	LITH					
		175	SOIL	LITH			25-175	N4223	yes
12/2/94	1320	181	SOIL	VOCV	B09GF7	DELETED	B09GF7	E7630	yes
12/2/94	1320	181	SOIL	VOCV	B09GF8	DELETED	B09GF7	E7630	
12/2/94	1320	181	SOIL	LITH					
		188	SOIL	LITH			25-188	N4224	yes
12/6/94	940	192	SOIL	VOCV	B09GF9	DELETED	B09GF9	E7631	yes
12/6/94	940		SOIL	VOCV	B09GG0	DELETED	B09GF9	E7631	
12/6/94	940	191	SOIL	LITH	B09GG0			E7631	
		195	SOIL	LITH			25-195	N4225	yes
12/12/94	930	202	SOIL	LITH					
12/12/94	930	201	SOIL	VOCV	B09GG1	DELETED	B09GG1	E7632	yes
12/12/94	930		SOIL	VOCV	B09GG2	DELETED	B09GG1	E7632	
12/12/94	930		SOIL	VOCV	B09GG3	DELETED	B09GG1	E7632	
12/12/94	930		SOIL	VOCV	B09GG4	DELETED	B09GG1	E7632	
12/12/94	1030	207	SOIL	LITH			25-207	N4226	yes
12/12/94	1130	211	SOIL	TA			15-211	N4160	yes
12/12/94	1130	211	SOIL	LITH					
		215	SOIL	LITH					
		215	SOIL	TA			25-215	N4227	
12/14/94	830	221	SOIL	LITH			25-220	N4182	yes
		220.5-221.0	SOIL	CHEM			25-220	N4182	yes
		219.5-220.5	SOIL (2)	PHYS			25-220	N4182	yes
12/15/94	900	217-219	WATER	VOCV	B09GG5	DELETED	B09GG5	N4213	yes
12/15/94	900		WATER	VOCV	B09GG6	DELETED	B09GG5	E7633	
12/15/94	900		WATER	VOCV	B09GG7	DELETED	B09GG5	N4213	
12/15/94	900		WATER	VOCV	B09GG8	DELETED	B09GG5	N4213	
12/15/95	900		WATER	VOCV	B09GG9	DELETED	B09GG5	N4213	
12/15/95	1110	225	soil	LITH			25-225	N4213	yes
12/16/94	1115	230	SOIL	LITH			25-230	N4214	yes
		231	SOIL	VOCV			25-230		
		230.5-231.0	SOIL	CHEM			25-230		
		231.5-232.0	SOIL	CHEM			25-230		
		231.0-231.5	SOIL	PHYS			25-230		
12/17/94	850	224-229	WATER	VOCV	B09GH0	DELETED	B09GH0	E7634	yes
12/17/94	850		WATER	VOCV	B09GH1	DELETED	B09GH0	E7634	
12/17/94	1100	235	SOIL	LITH			25-235	N4217	YES
12/17/94	1310	241	SOIL	LITH			25-241	N4218	YES
		240.5-241.0	SOIL	CHEM			25-241	N4218	YES
		241.0-241.5	SOIL	PHYS			25-241	N4218	YES
		241		VOCV			25-241	N4218	YES

SAMPLES COLLECTED FROM 299-W15-25

date	time	depth (ft)	sample media	sample type	HEIS number	STATUS	PNL rad release #	Rad Release #	copy in hand
12/19/94	940	240	WATER	VOGC	B09GH2	DELETED	B09GH2	E7635	YES
12/19/94	940		WATER	VOGC	B09GH3	DELETED	B09GH2	E7635	
12/19/94	1630	245	SOIL	LITH			25-245	N4219	
1/3/95	1040	250	SOIL	VOCV			25-250	N4269	yes
1/3/95	1040	250	SOIL	LITH					
1/3/95	1300	250	WATER	VOCV	B09GH4	DELETED	B09GH4	E7636	yes
1/3/95	1300		WATER	VOCV	B09GH5	DELETED	B09GH4	E7636	
1/3/95	1300		WATER	ICP,AS, PB	B09GH4		B09GH4	E7636	
1/3/95	1300		WATER	ABN	B09GH4		B09GH4	E7636	
1/3/95	1300		WATER	ALPHA, BET	B09GH4		B09GH4	E7636	
1/3/95	1300		WATER	GAMMA	B09GH4		B09GH4	E7636	
1/3/95		255	SOIL	LITH					
1/4/95	925	260	SOIL	LITH			25-255	N4270	yes
1/4/95	925	261	SOIL	VOCV			25-260	N4271	yes
1/4/95		265	SOIL	LITH			25-265	N4272	yes
1/4/95	1105	271	SOIL	VOCV			25-271	N4273	yes
1/4/95	1105	271	SOIL	LITH					
1/5/95	1120	270	WATER	ALPHA, BET	B09GH6		B09GH6	E7637	yes
1/5/95	1120		WATER	GAMMA	B09GH6		B09GH6	E7637	
1/5/95	1120		WATER	VOGC	B09GH6	DELETED	B09GH6	E7637	
1/5/95	1120		WATER	ICP, AS,PB	B09GH6		B09GH6	E7637	
1/5/95	1120		WATER	ABN	B09GH6		B09GH6	E7637	
1/5/95	1120		WATER	IONS	B09GH6		B09GH6	E7637	
1/5/95	1120		WATER	TDS	B09GH6		B09GH6	E7637	
1/5/95	1120		WATER	TOC	B09GH6		B09GH6	E7637	
1/5/95	1120		WATER	VOGC	B09GH7	DELETED	B09GH6	E7637	
1/5/95	1120		WATER	VOGC	B09GH8	DELETED	B09GH6	E7637	

Battelle
Pacific Northwest Laboratories

Project Number _____

Internal Distribution

Lilly Burns
File/LB

Date March 3, 1995

To Tyler Gilmore

From Brian Opitz/Denise Sauer

Subject Vapor Stripping Demo-Work Order XD5053

We have been notified by Llyn Doremus that sampling on the vapor demonstration well (299-W15-25) has been completed. The list below shows the number of samples collected and delivered to the laboratories along with the percent of results which have been reported. Note that the number of samples collected is less than the number on the original work scope. Is this correct?

The final analytical report from the laboratory is not due until April 20, 1995. The current practice with the laboratories is a two month delay in receiving the invoices and disposal notices. Work Order XD5053 is scheduled to be closed on April 28, 1995. Please request Bechtel Hanford to extend this work order until June 30, 1995. This is a no cost time extension.

MATRIX	METHOD	COLLECTED AND DELIVERED TO LAB	PERCENT REPORTED
SOIL	ABN	11	50
SOIL	ALPH	11	50
SOIL	AS	11	50
SOIL	BETA	11	50
SOIL	GAMM	11	50
SOIL	ICP	11	0
SOIL	PB	11	50
WATER	ABN	6	83
WATER	ALK3	1	0
WATER	ALPH	6	83
WATER	AS	6	100
WATER	BETA	6	83
WATER	GAMM	6	83
WATER	ICP	6	83
WATER	IONS	1	0
WATER	PB	6	83
WATER	TDS	1	0
WATER	TOC	1	100
WATER	VOGC	2	100
BATTELLE SIGMA V STATUS			
SOIL	VOCV	10	100
WATER	VOCV	5	100

SEDIMENT

Volatile Organic Analysis
GC / PAT / PID / ELCD

SEDIMENT

Project ID: K16499

Sampling Date: 12/14/94 Time: 0825

Date Sample Received: 12/19/94 Time: 1500

Analysis Date: 12/28/94 Time: 1218

Analyst: C. VEVERKA

Lab Notebook Ref: 55077-88-5

Raw Data Spectra No: 4894

Injected Volume (ml): 5

Chain of Custody No: —

HEIS No:

Sample Location / Well: 299-W15-25

Interval Depth (ft): Top 220' Bottom

Drill / Sample Method:

Laboratory Notes: SAMPLE WASN'T KEPT UPRIGHT FROM FIELD TO LABORATORY. OBSERVED SLIGHT METHANOL LEAK, TRIED TO ADJUST VOLUME.

RAW AMT - BKG 50ML 10ML
2.5 ~2.02

	PID	ELCD	Qualifier	Analysis Note
Methylene Chloride (ppb)		—	—	IMPURITYS IN METHANOL
trans-1,2-Dichloroethylene (ppb)		<30	—	
1,1-Dichloroethane (ppb)		<30	—	
cis-1,2-Dichloroethylene (ppb)		<30	—	
Chloroform (ppb)		<30	—	~28
1,1,1-Trichloroethane (ppb)		<30	—	
Carbon Tetrachloride (ppb)		<30	—	~12
1,2-Dichloroethane (ppb)		<30	—	
Benzene (ppb)	<30		—	
Trichloroethylene (ppb)	<30	<30	—	
Toluene (ppb)	<30		—	
Tetrachloroethylene (ppb)	<30	<30	—	
Ethylbenzene (ppb)	<30		—	
m + p - Xylene (ppb)	<30		—	
o - Xylene (ppb)	<30		—	
Other Species (ppb)			—	
Other Species (ppb)			—	
Other Species (ppb)			—	
Other Species (ppb)			—	

SEDIMENT

Volatile Organic Analysis
GC / PAT / PID / ELCD

SEDIMENT

Project ID: K16499

Sampling Date: 12/16/94 Time: 1115

Date Sample Received: 12/19/94 Time: 1500

Analysis Date: 12/28/94 Time: 1320

Analyst: C. VEVERKA

Lab Notebook Ref: 55077-88-6

Raw Data Spectra No: 4895

Injected Volume (ml): 5

Chain of Custody No: W1525V6A12/16/94 HEIS No:

Sample Location / Well: 299-W15-25

Interval Depth (ft): Top 231' Bottom

Drill / Sample Method:

Laboratory Notes:

RAW AMT.-BKG 50 10ML
25 9.35GRS

	PID	ELCD	Qualifier	Analysis Note
Methylene Chloride (ppb)		–		IMPURITYS IN METHANOL.
trans-1,2-Dichloroethylene (ppb)		<10		
1,1-Dichloroethane (ppb)		<10		
cis-1,2-Dichloroethylene (ppb)		<10		
Chloroform (ppb)		28		
1,1,1-Trichloroethane (ppb)		<10		
Carbon Tetrachloride (ppb)		<10		~6
1,2-Dichloroethane (ppb)		<10		
Benzene (ppb)	<10			
Trichloroethylene (ppb)	<10			
Toluene (ppb)	14			
Tetrachloroethylene (ppb)	<10			
Ethylbenzene (ppb)	<10			
m + p - Xylene (ppb)	<10			
o - Xylene (ppb)	<10			
Other Species (ppb)				
Other Species (ppb)				
Other Species (ppb)				
Other Species (ppb)				

SEDIMENT

Volatile Organic Analysis
GC / PAT / PID / ELCD

SEDIMENT

Project ID: K16499

Sampling Date: 12/17/94 Time: 1310

Date Sample Received: 12/20/94 Time: 1425

Analysis Date: 12/28/94 Time: 1422

Analyst: C. VEVERKA

Lab Notebook Ref: 55077-88-7

Chain of Custody No: W15 25 VOA 241 HEIS No:

Sample Location / Well: 299-W15-25

Interval Depth (ft): Top 241 Bottom

Drill / Sample Method:

Raw Data Spectra No: 4896 Injected Volume (ml): 5

Laboratory Notes:

RAW AMT-BKG 50 10mL
2.5 5.50gms

	PID	ELCD	Qualifier	Analysis Note
Methylene Chloride (ppb)		—		IMPURITYS IN METHANOL
trans-1,2-Dichloroethylene (ppb)		<15		
1,1-Dichloroethane (ppb)		<15		
cis-1,2-Dichloroethylene (ppb)		<15		
Chloroform (ppb)		22		
1,1,1-Trichloroethane (ppb)		<15		
Carbon Tetrachloride (ppb)		<15		
1,2-Dichloroethane (ppb)		<15		
Benzene (ppb)	<15			
Trichloroethylene (ppb)	<15	<15		
Toluene (ppb)	<15			
Tetrachloroethylene (ppb)	<15	<15		
Ethylbenzene (ppb)	<15			
m + p - Xylene (ppb)	<15			
o - Xylene (ppb)	<15			
Other Species (ppb)				
Other Species (ppb)				
Other Species (ppb)				
Other Species (ppb)				

SEDIMENT

Volatile Organic Analysis
GC / PAT / PID / ELCD

SEDIMENT

Project ID: K16499

Sampling Date: 12/2/95 Time: 1320

Date Sample Received: 1/13/95 Time: 1300

Analysis Date: 1/13/95 Time: 1351

Analyst: C. VEVERKA

Lab Notebook Ref: 55077-88-14

Raw Data Spectra No: 4962

Chain of Custody No: W1525-181-VOC HEIS No: —

Sample Location / Well: 299-W15-25

Interval Depth (ft): Top 181.0 Bottom 181.5

Drill / Sample Method:

Injected Volume (ml): 5

Laboratory Notes:

RAW AMT. - BKG 50mL 10mL = ppb
2.5mL 3.72 gms

	PID	ELCD	Qualifier	Analysis Note
Methylene Chloride (ppb)		—	←	IMPURITY IN METHANOL
trans-1,2-Dichloroethylene (ppb)		<20	—	
1,1-Dichloroethane (ppb)		<20	—	
cis-1,2-Dichloroethylene (ppb)		<20	—	
Chloroform (ppb)		<20	—	
1,1,1-Trichloroethane (ppb)		<20	—	
Carbon Tetrachloride (ppb)		<20	—	
1,2-Dichloroethane (ppb)		<20	—	
Benzene (ppb)	<20		—	
Trichloroethylene (ppb)	<20	<20	—	
Toluene (ppb)	<20		—	
Tetrachloroethylene (ppb)	<20	<20	—	
Ethylbenzene (ppb)	<20		—	
m + p - Xylene (ppb)	<20		—	
o - Xylene (ppb)	<20		—	
Other Species (ppb)			—	
Other Species (ppb)			—	
Other Species (ppb)			—	
Other Species (ppb)			—	

Hanford

SEDIMENT

Volatile Organic Analysis
GC / PAT / PID / ELCD

SEDIMENT

Project ID: K16499

Sampling Date: 12/12/94 Time: 0930

Date Sample Received: 12/14/94 Time: 1020

Analysis Date: 12/19/94 Time: 1627

Analyst: C. VEVERKA

Lab Notebook Ref: 55077-88-2

Raw Data Spectra No: 4855

Injected Volume (ml): 5

Chain of Custody No: W1525 12/12/94 HEIS No:

Sample Location / Well: 299-W15-25

Interval Depth (ft): Top 203.5 Bottom 202.5

Drill / Sample Method:

Laboratory Notes:

RAW AMT - BKG 50ML 10
2.5 3.01

	PID	ELCD	Qualifier	Analysis Note
Methylene Chloride (ppb)		—		IMPURITYS IN METHANOL
trans-1,2-Dichloroethylene (ppb)		<20		
1,1-Dichloroethane (ppb)		<20		
cis-1,2-Dichloroethylene (ppb)		<20		
Chloroform (ppb)		<20		
1,1,1-Trichloroethane (ppb)		<20		
Carbon Tetrachloride (ppb)		<20		
1,2-Dichloroethane (ppb)		<20		
Benzene (ppb)	<20			
Trichloroethylene (ppb)	<20	<20		
Toluene (ppb)	<20			
Tetrachloroethylene (ppb)	<20	<20		
Ethylbenzene (ppb)	<20			
m + p - Xylene (ppb)	<20			
o - Xylene (ppb)	<20			
Other Species (ppb)				
Other Species (ppb)				
Other Species (ppb)				
Other Species (ppb)				

SEDIMENT

Volatile Organic Analysis
GC / PAT / PID / ELCD

SEDIMENT

Project ID: K16499

Sampling Date: 12/12/94 Time: 1130

Date Sample Received: 12/15/94 Time: 0900

Analysis Date: 12/19/94 Time: 1730

Analyst: C. VEVERKA

Lab Notebook Ref: 55077-88-3

Raw Data Spectra No: 4856

Injected Volume (ml): 5

Chain of Custody No: W1525 12/12/94 A HEIS No:

Sample Location / Well: Z99-W15-25

Interval Depth (ft): Top 211' Bottom

Drill / Sample Method:

Laboratory Notes:

RAW AMT. - BKG 50ML 10
2.5 4.21

	PID	ELCD	Qualifier	Analysis Note
Methylene Chloride (ppb)		—	—	IMPURITYS IN METHANOL.
trans-1,2-Dichloroethylene (ppb)		<15	—	
1,1-Dichloroethane (ppb)		<15	—	
cis-1,2-Dichloroethylene (ppb)		<15	—	
Chloroform (ppb)		31	—	
1,1,1-Trichloroethane (ppb)		<15	—	
Carbon Tetrachloride (ppb)		55	—	
1,2-Dichloroethane (ppb)		<15	—	
Benzene (ppb)	<15		—	
Trichloroethylene (ppb)	<15	<15	—	
Toluene (ppb)	<15		—	
Tetrachloroethylene (ppb)	<15	<15	—	
Ethylbenzene (ppb)	<15		—	
m + p - Xylene (ppb)	<15		—	
o - Xylene (ppb)	<15		—	
Other Species (ppb)			—	
Other Species (ppb)			—	
Other Species (ppb)			—	
Other Species (ppb)			—	

SEDIMENT

Volatile Organic Analysis
GC / PAT / PID / ELCD

SEDIMENT

Project ID: K16479

Sampling Date: 12/6/94 Time: 0940

Date Sample Received: 12/7/94 Time: 1630

Analysis Date: 12/8/94 Time: 2323

Analyst: C. VEVERKA

Lab Notebook Ref: 55077-88-1

Raw Data Spectra No: 4825

Injected Volume (ml): 5

Chain of Custody No: 12694 W1535VOA

HEIS No:

Sample Location / Well: 299-W15-35

Interval Depth (ft): Top 192 Bottom 192.5

Drill / Sample Method:

Laboratory Notes:

RAW AMT. - BKG 50 10
2.5 1.49

	PID	ELCD	Qualifier	Analysis Note
Methylene Chloride (ppb)		—		IMPURITIES IN METHANOL
trans-1,2-Dichloroethylene (ppb)		<40		
1,1-Dichloroethane (ppb)		<40		
cis-1,2-Dichloroethylene (ppb)		<40		
Chloroform (ppb)		<40		
1,1,1-Trichloroethane (ppb)		<40		
Carbon Tetrachloride (ppb)		<40		
1,2-Dichloroethane (ppb)		<40		
Benzene (ppb)	<40			
Trichloroethylene (ppb)	<40	<40		
Toluene (ppb)	<40			
Tetrachloroethylene (ppb)	<40	<40		
Ethylbenzene (ppb)	<40			
m + p - Xylene (ppb)	<40			
o - Xylene (ppb)	<40			
Other Species (ppb)				
Other Species (ppb)				
Other Species (ppb)				
Other Species (ppb)				

GROUNDWATER

Volatile Organic Analysis

GC / PAT / PID / ELCD

GROUNDWATER

Project ID: K16499

Sampling Date: 12/19/94 Time: 0940

Date Sample Received: 12/20/94 Time: 1425

Analysis Date: 12/27/94 Time: 1857

Analyst: C. VEVERKA

Lab Notebook Ref: 55077-88-9

Raw Data Spectra No: 4877, 4893*

Injected Volume (ml): 5

Chain of Custody No: —

HEIS No:

Sample Location / Well: 299-W15-25

Interval Depth (ft): Top 240' Bottom

Drill / Sample Method:

Laboratory Notes:

	PID	ELCD	Qualifier	Analysis Note
Methylene Chloride (ppb)		11		
trans-1,2-Dichloroethylene (ppb)		<0.5		
1,1-Dichloroethane (ppb)		<0.5		
cis-1,2-Dichloroethylene (ppb)		<0.5		
Chloroform (ppb)		480*	D	1:10
1,1,1-Trichloroethane (ppb)		<0.5		
Carbon Tetrachloride (ppb)		1.6		
1,2-Dichloroethane (ppb)		<0.5		
Benzene (ppb)	1.0			
Trichloroethylene (ppb)	1.0	1.1		
Toluene (ppb)	<1			
Tetrachloroethylene (ppb)	2-3	2.4		
Ethylbenzene (ppb)	<0.5			
m + p - Xylene (ppb)	<0.5			
o - Xylene (ppb)	<0.5			
Other Species (ppb) ACETONE	17			
Other Species (ppb)				
Other Species (ppb)				
Other Species (ppb)				

GROUNDWATER

Volatile Organic Analysis
GC / PAT / PID / ELCD

GROUNDWATER

Project ID: K16499

Sampling Date: 12/17/94 Time: 0850

Date Sample Received: 12/20/94 Time: 1425

Analysis Date: 12/27/94 Time: 1754

Analyst: C. VEVERKA

Lab Notebook Ref: 55077-88-8

Raw Data Spectra No: 4876, 4893*

Injected Volume (ml): 5

Chain of Custody No: W1525H20224230 HEIS No:

Sample Location / Well: 299-W15-25

Interval Depth (ft): Top 224 Bottom 230

Drill / Sample Method:

Laboratory Notes:

	PID	ELCD	Qualifier	Analysis Note
Methylene Chloride (ppb)		8.1		
trans-1,2-Dichloroethylene (ppb)		<0.5		
1,1-Dichloroethane (ppb)		<0.5		
cis-1,2-Dichloroethylene (ppb)		<0.5		
Chloroform (ppb)		450*	D	1:10
1,1,1-Trichloroethane (ppb)		<0.5		
Carbon Tetrachloride (ppb)		75*	D	1:10
1,2-Dichloroethane (ppb)		<0.5		
Benzene (ppb)	0.6			
Trichloroethylene (ppb)	0.9	1.0		
Toluene (ppb)	<1			
Tetrachloroethylene (ppb)	1.1	1.1		
Ethylbenzene (ppb)	<0.5			
m + p - Xylene (ppb)	<0.5			
o - Xylene (ppb)	<0.5			
Other Species (ppb) ACETONE	21			
Other Species (ppb) 2-BUTANONE	5			
Other Species (ppb)				
Other Species (ppb)				

GROUNDWATER

Volatile Organic Analysis
GC / PAT / PID / ELCD

GROUNDWATER

Project ID: K16499

Sampling Date: 12/15/94 Time: 0900

Date Sample Received: 12/19/94 Time: 0900

Analysis Date: 12/19/94 Time: 1832

Analyst: C. VEVOLKA

Lab Notebook Ref: 55077-88-4

Raw Data Spectra No: 4857, 4875*

Injected Volume (ml): 5

Chain of Custody No: W1525H20217219 HEIS No:

Sample Location / Well: 299-W15-25

Interval Depth (ft): Top 217 Bottom 219

Drill / Sample Method:

Laboratory Notes: * BECAUSE of INSTRUMENT PROBLEM, A SECOND 5ML VOLUME WAS TAKEN FROM THE DUPLICATE SAMPLE, SO VALUES COULD BE LOW.

	PID	ELCD	Qualifier	Analysis Note
Methylene Chloride (ppb)		4.7		
trans-1,2-Dichloroethylene (ppb)		<0.5		
1,1-Dichloroethane (ppb)		<0.5		
cis-1,2-Dichloroethylene (ppb)		<0.5		
Chloroform (ppb)		297	* D	1:20
1,1,1-Trichloroethane (ppb)		1.0		
Carbon Tetrachloride (ppb)		964	* D	1:20
1,2-Dichloroethane (ppb)		<0.5		
Benzene (ppb)	0.5			
Trichloroethylene (ppb)	1.7	1.8		
Toluene (ppb)	<1			
Tetrachloroethylene (ppb)	15	14		
Ethylbenzene (ppb)	<0.5			
m + p - Xylene (ppb)	<0.5			
o - Xylene (ppb)	<0.5			
Other Species (ppb) ACETONE	10			
Other Species (ppb)				
Other Species (ppb)				
Other Species (ppb)				

GROUNDWATER

Volatile Organic Analysis
GC / PAT / PID / ELCD

GROUNDWATER

Project ID: K16499

Sampling Date: 1/5/95 Time: 1120

Date Sample Received: 1/13/95 Time: 1535

Analysis Date: 1/13/95 Time: 1622

Analyst: C. VEVERKA

Chain of Custody No: — HEIS No: —

Sample Location / Well: 299-W15-25

Interval Depth (ft): Top 268 Bottom 270'

Drill / Sample Method:

Lab Notebook Ref: 55077-88-15

Raw Data Spectra No: 4963, 4964*, 4965* Injected Volume (ml): 5

Laboratory Notes:

	PID	ELCD	Qualifier	Analysis Note
Methylene Chloride (ppb)		7.8		
trans-1,2-Dichloroethylene (ppb)		<0.5		
1,1-Dichloroethane (ppb)		<0.5		
cis-1,2-Dichloroethylene (ppb)		<0.5		
Chloroform (ppb)		504*	D	*AVERAGE of 1:20 AND 1:50 DILUTIONS.
1,1,1-Trichloroethane (ppb)		<0.5		
Carbon Tetrachloride (ppb)		3.4		
1,2-Dichloroethane (ppb)		<0.5		
Benzene (ppb)	1.2			
Trichloroethylene (ppb)	1.3			
Toluene (ppb)	1.0			
Tetrachloroethylene (ppb)	1.0			
Ethylbenzene (ppb)	<0.5			
m + p - Xylene (ppb)	<0.5			
o - Xylene (ppb)	<0.5			
Other Species (ppb)				
Other Species (ppb)				
Other Species (ppb)				
Other Species (ppb)				

299-W15-25

WATER CONTENT

Sample No.	Beaker No.	Beaker Weight	Soil/Beaker Wet Weight	Soil/Beaker Dry Weight	% Water	Comments
158.33-158.83	1	48.06	84.56	83.36	0.033994334	Very rocky -
	4	50.66	81.65	80.33	0.044489383	Cemented?
	16	49.67	81.11	79.63	0.049399199	0.042627639
160.0	13	48.70	82.56	81.20	0.041846154	
	17	52.36	85.43	84.10	0.041902962	
	18	49.23	80.57	79.32	0.041542041	0.041763719
170.5-171.0	15	50.49	80.83	79.75	0.036910458	
	19	50.19	86.35	85.01	0.03848363	
	20	50.71	83.40	82.11	0.041082803	0.03882563
172.0	26	50.25	83.67	82.64	0.031799938	
	27	49.32	80.67	79.69	0.032268686	
	28	50.19	81.99	81.01	0.031797534	0.031955386
180.0-180.5	29	49.34	92.93	92.14	0.018457944	Rocky
	34	50.44	107.17	106.44	0.013035714	
	38	50.91	102.61	101.84	0.01511879	0.015537483
190.5-191.0	39	50.61	97.12	95.55	0.03493547	
	43	50.60	88.60	87.30	0.035422343	
	50	51.13	92.46	91.15	0.032733633	0.034363815
191.0-191.5	51	49.70	115.72	108.15	0.129512404	Wet
	52	49.26	96.96	91.58	0.127126654	
	53	49.76	105.70	99.54	0.123744476	0.126794511

Analyst: D.L. McAlister-Myers

Scale/Serial Number: 512-06-01-22

Date: 1/30/95

Calibration Date: Jul-94

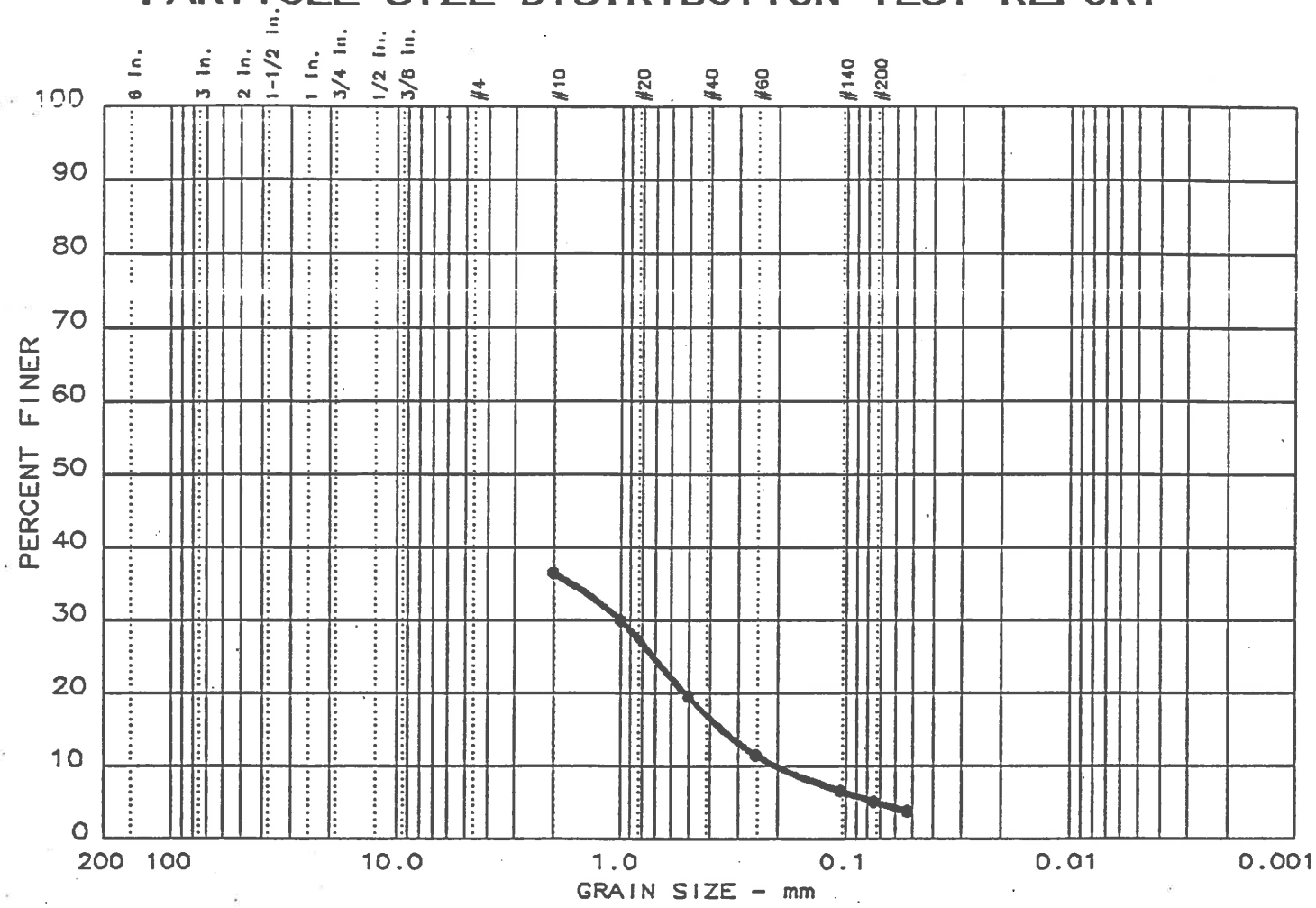
Procedure Number	Revision Number	Effective Date
SA 7	1	Aug-90

Calcium Carbonate Analysis

Sample	Sample Weight (g)	Gauge Reading	% Calcium Carbonate	Comments
158.33-158.83	1.00	0	ND	Note: Tested sample fractions
160.0	1.00	0	ND	passed #270 sieve.
170.5-171.0	1.00	0	ND	
172.0	1.00	0	ND	
180.0-180.5	1.00	0	ND	
190.5-191.0	1.00	0	ND	
191.0-191.5	1.00	0	ND	
202.0-202.5	1.00	0	ND	
210.2-210.5	1.00	0	ND	
211.5	1.00	0	ND	
220.0	1.00	0	ND	
220.0-220.5	1.00	0	ND	
231.0-231.5	1.00	0	ND	
240.5-241.0	1.00	0	ND	
250.0-250.5	1.00	3	3	
261.5-262.0	1.00	3	3	
				Note: Non-Detect (ND) = < 2%

Analyst	JR Nelson	Scale	512-06-01-22
Date	2/7/95	WP#	K14443

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	1	0.0	63.5	32.7	3.8		SW-SM		

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	2.00		
D_{30}	0.99		
D_{10}	0.20		
	COEFFICIENTS		
C_c	2.40		
C_u	9.8		

SIEVE number size	PERCENT FINER ●		
10	36.5		
18	30.0		
35	19.6		
60	11.5		
140	6.6		
200	5.1		
270	3.8		

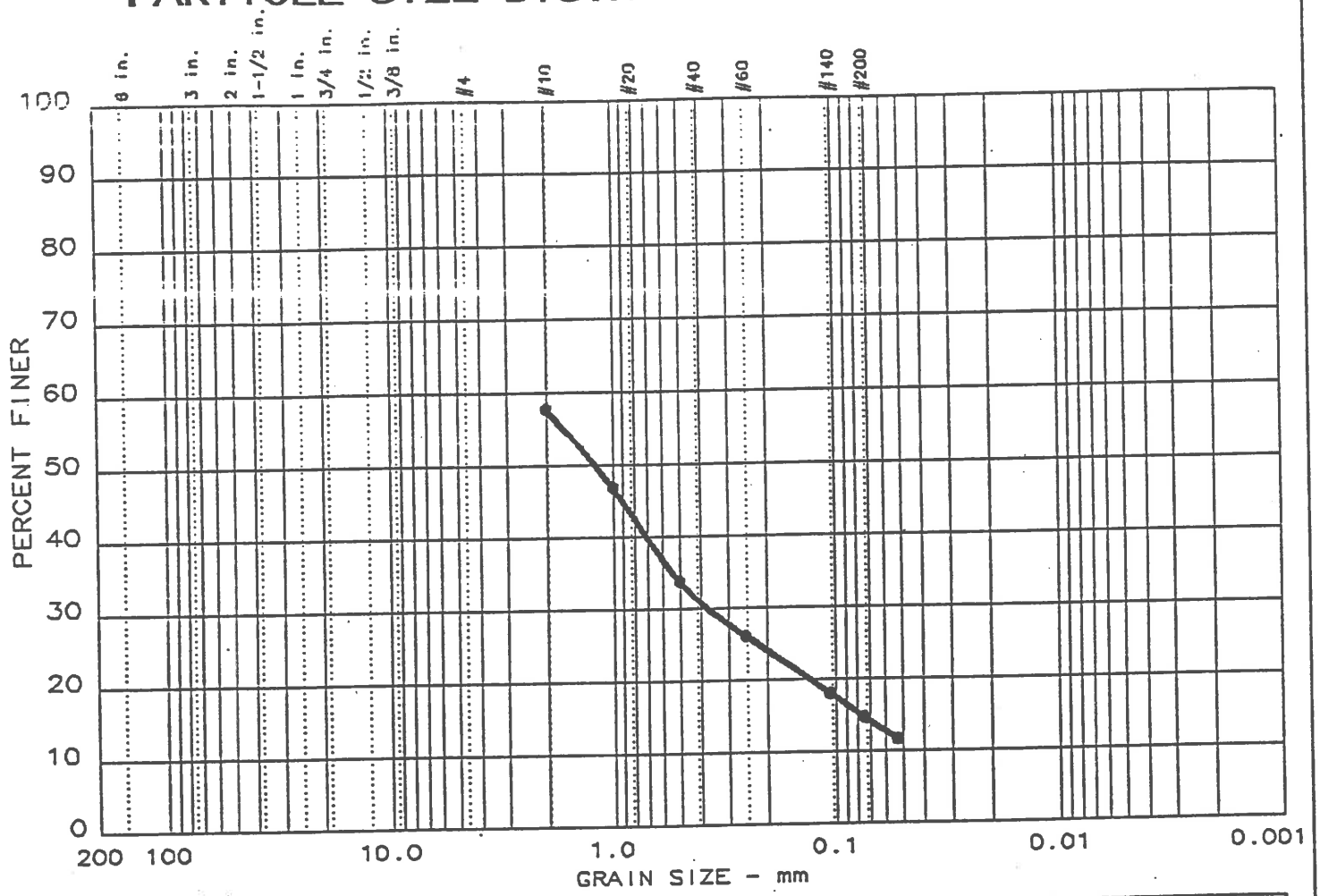
Sample information:
● 299-W15-25
158.33 - 158.83'
ASTM Classif. SW-SM

Remarks:
a: gs1.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project
Date: 2/2/95 Data Sheet No. 1

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	2	0.0	42.3	46.0	11.7		SM		

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	2.00		
D_{30}	0.37		
D_{10}			
	COEFFICIENTS		
C_c			
C_u			

SIEVE number size	PERCENT FINER ●		
10	57.7		
18	46.9		
35	33.8		
60	26.1		
140	18.0		
200	14.7		
270	11.7		

Sample information:

● 299-W15-25
160.0'
ASTM Classif. SM

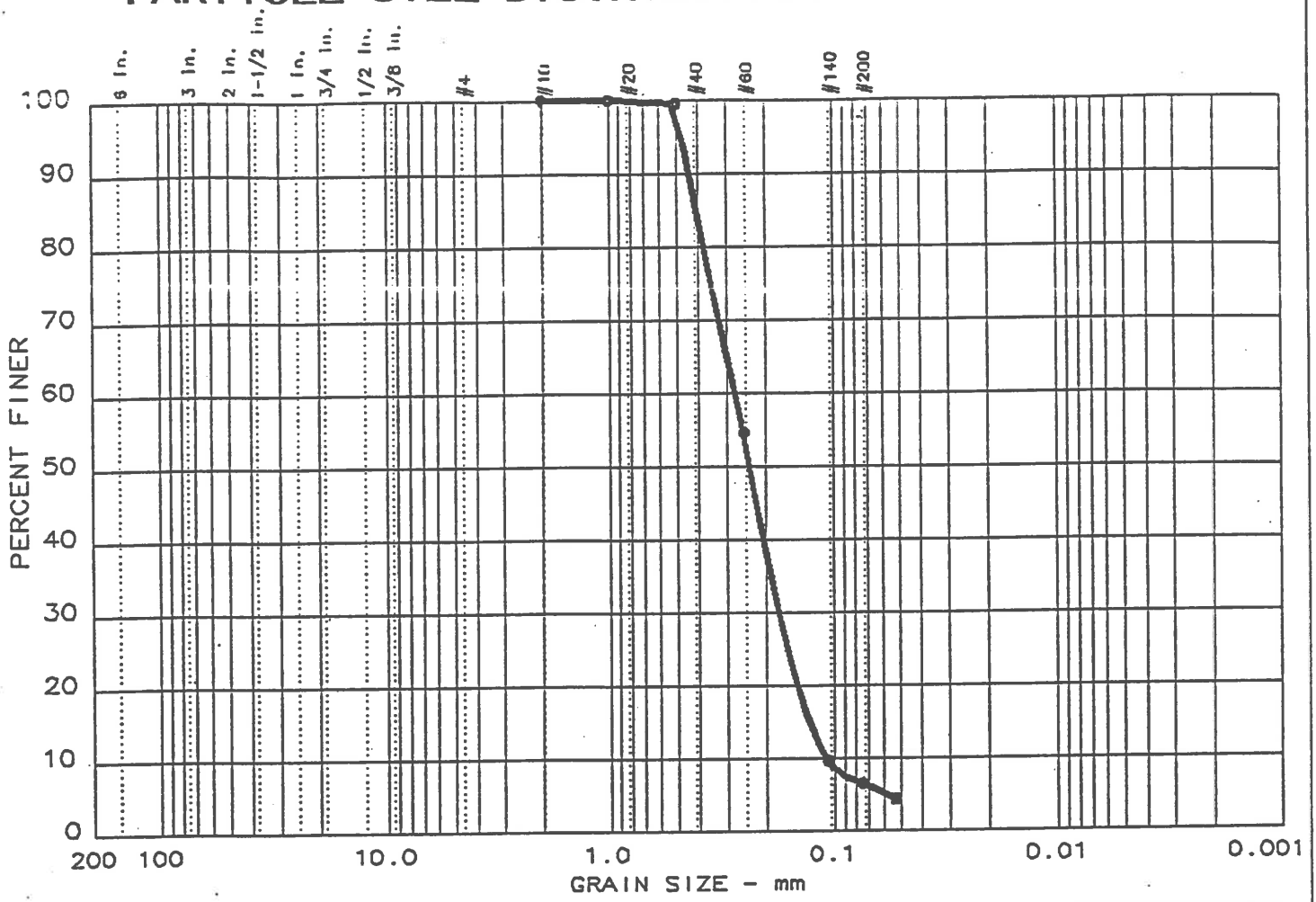
Remarks:
a: gs2.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project

Date: 2/2/95 Data Sheet No. 2

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	3	0.0	0.0	95.7	4.3		SP-SM		

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	0.27		
D_{30}	0.17		
D_{10}	0.10		
	COEFFICIENTS		
C_c	1.03		
C_u	2.6		

SIEVE number size	PERCENT FINER ●		
10	100.0		
18	100.0		
35	99.5		
60	54.5		
140	9.6		
200	6.5		
270	4.3		

Sample information:

● 299-W15-25
170.5 - 171.0'
ASTM Classif. SP-SM

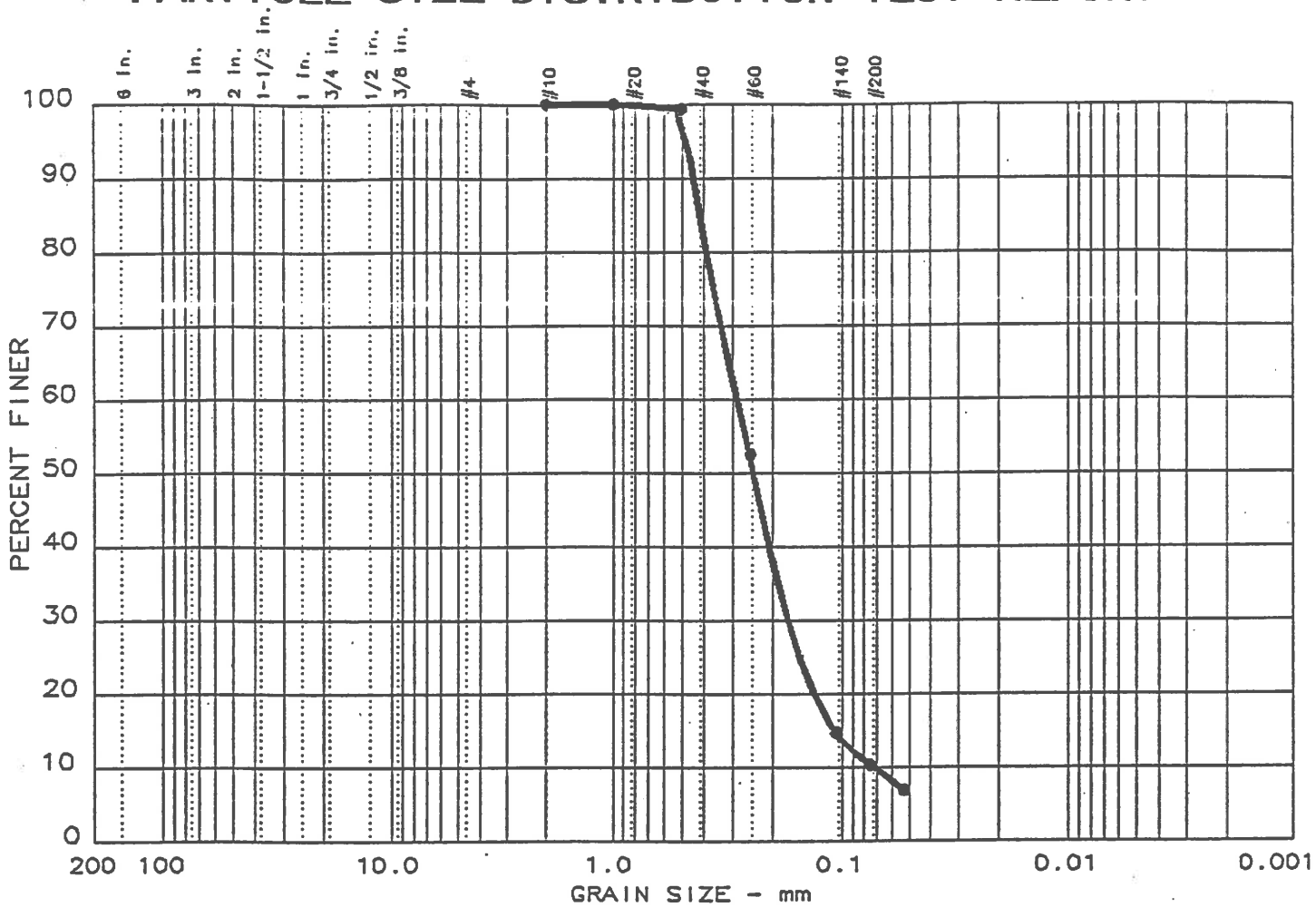
Remarks:
a: gs3.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project

Date: 2/2/95 Data Sheet No. 3

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	4	0.0	0.0	93.1	6.9		SP-SM		

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	0.29		
D_{30}	0.17		
D_{10}	0.07		
	COEFFICIENTS		
C_c	1.41		
C_u	4.0		

SIEVE number size	PERCENT FINER ●		
10	100.0		
18	100.0		
35	99.2		
60	52.5		
140	14.7		
200	10.3		
270	6.9		

Sample information:
● 299-W15-25
172.0'
ASTM Classif. SP-SM

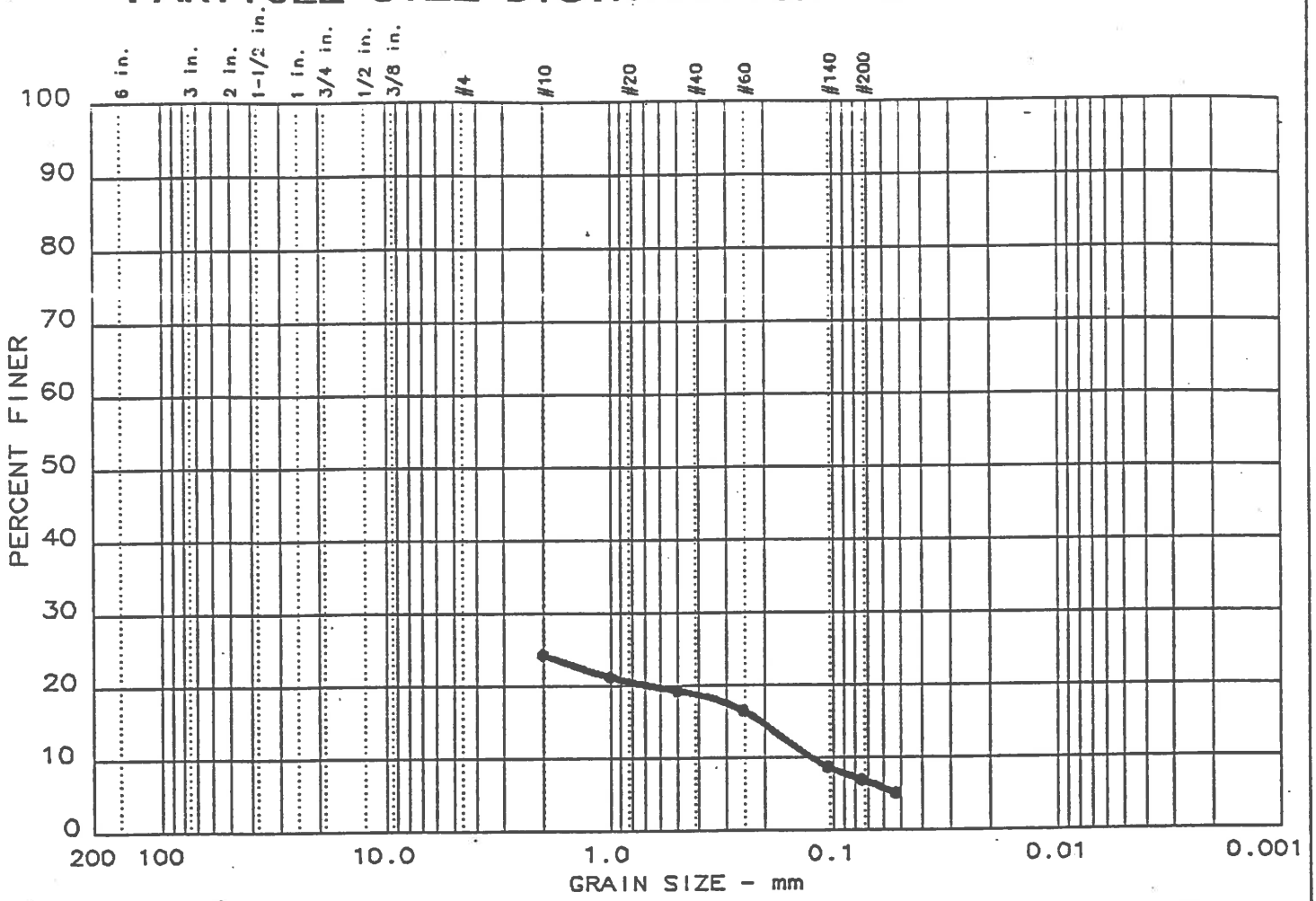
Remarks:
a: gs4.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project

Date: 2/2/95 Data Sheet No. 4

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	5	0.0	75.8	19.2	5.0		SP-SM		

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	2.00		
D_{30}	2.00		
D_{10}	0.12		
	COEFFICIENTS		
C_c	16.03		
C_u	16.0		

SIEVE number size	PERCENT FINER ●		
10	24.2		
18	21.2		
35	19.2		
60	16.5		
140	8.7		
200	6.9		
270	5.0		

Sample information:

● 299-W15-25
180.0-180.5'
ASTM Classif. SP-SM

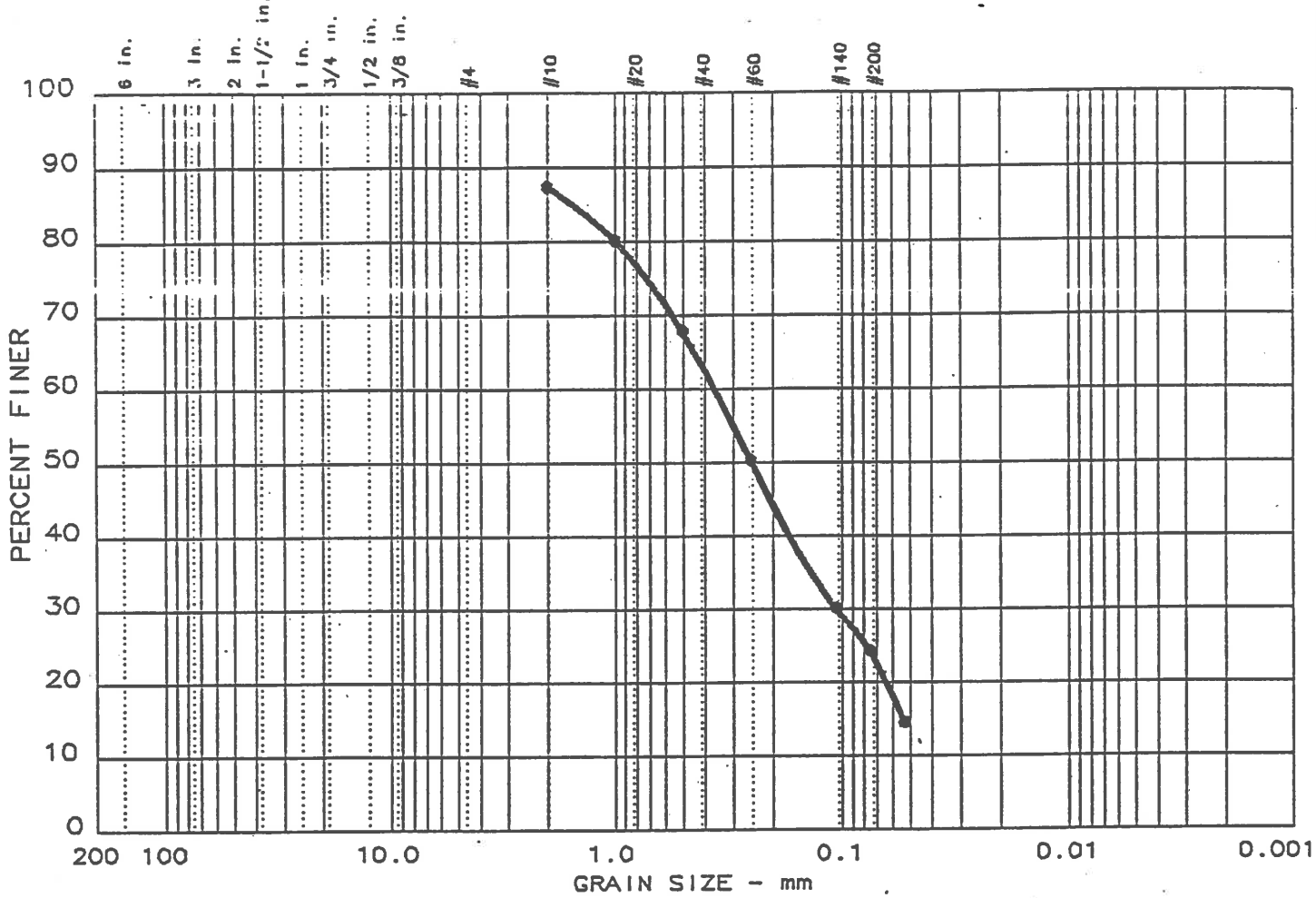
Remarks:
a: gs5.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project

Date: 2/2/95 Data Sheet No. 5

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	6	0.0	12.7	72.8	14.5		SM		

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	0.36		
D_{30}	0.11		
D_{10}			
	COEFFICIENTS		
C_c			
C_u			

SIEVE number size	PERCENT FINER ●		
10	87.3		
18	80.1		
35	67.8		
60	50.3		
140	30.1		
200	24.3		
270	14.5		

Sample information:

● 299-W15-25
190.5 - 191.0'
ASTM Classif. SM

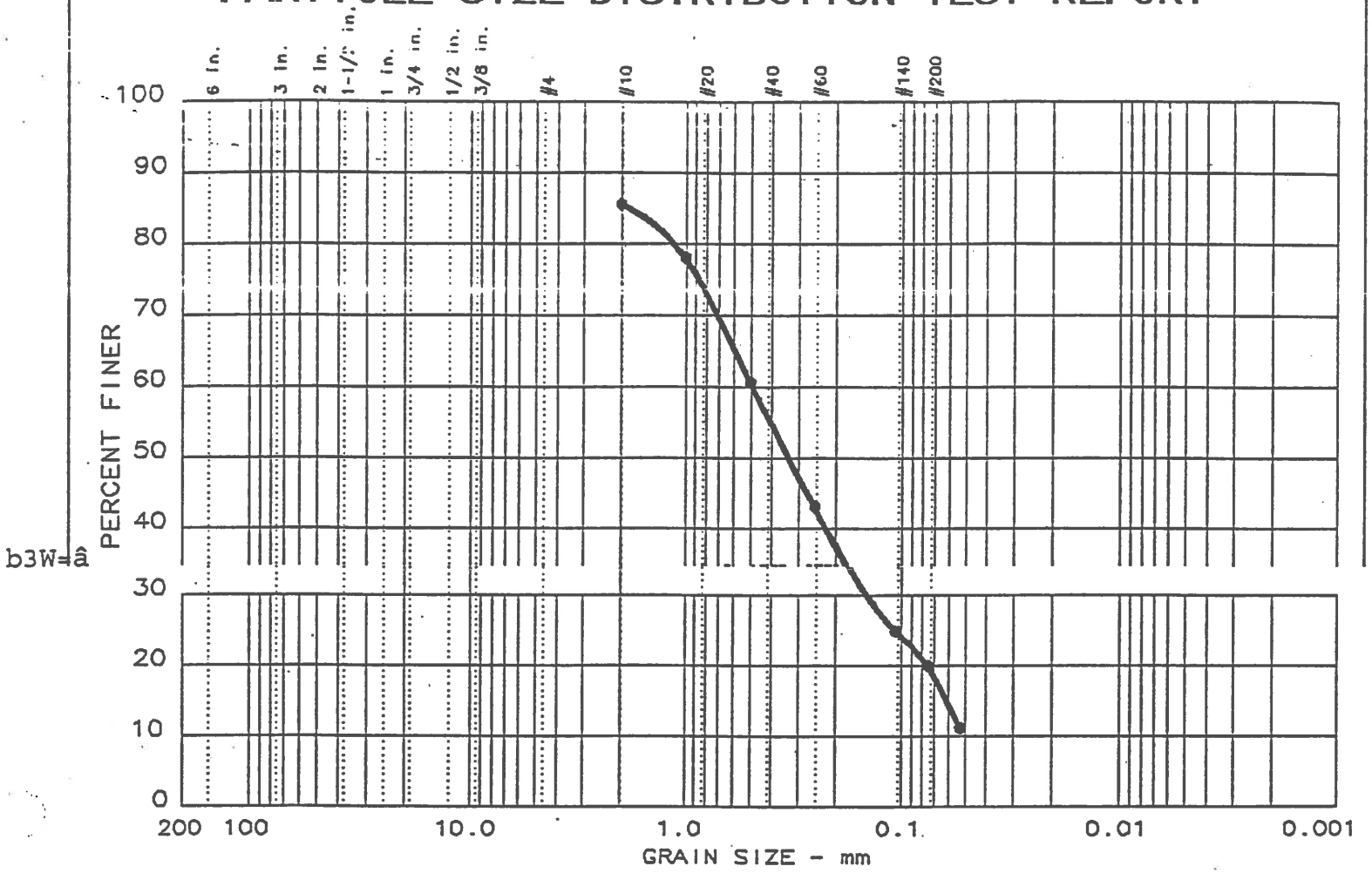
Remarks:
a: gs6.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project

Date: 2/2/95 Data Sheet No. 6

PARTICLE SIZE DISTRIBUTION TEST REPORT



b3W=â

	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	7	0.0	14.5	74.4	11.1		SM		

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	0.49		
D_{30}	0.14		
D_{10}			
	COEFFICIENTS		
C_c			
C_u			

SIEVE number size	PERCENT FINER ●		
10	85.5		
18	77.9		
35	60.6		
60	43.0		
140	24.9		
200	20.0		
270	11.1		

Sample information:
● 299-W15-25
191.0 - 191.5'
ASTM Classif. SM

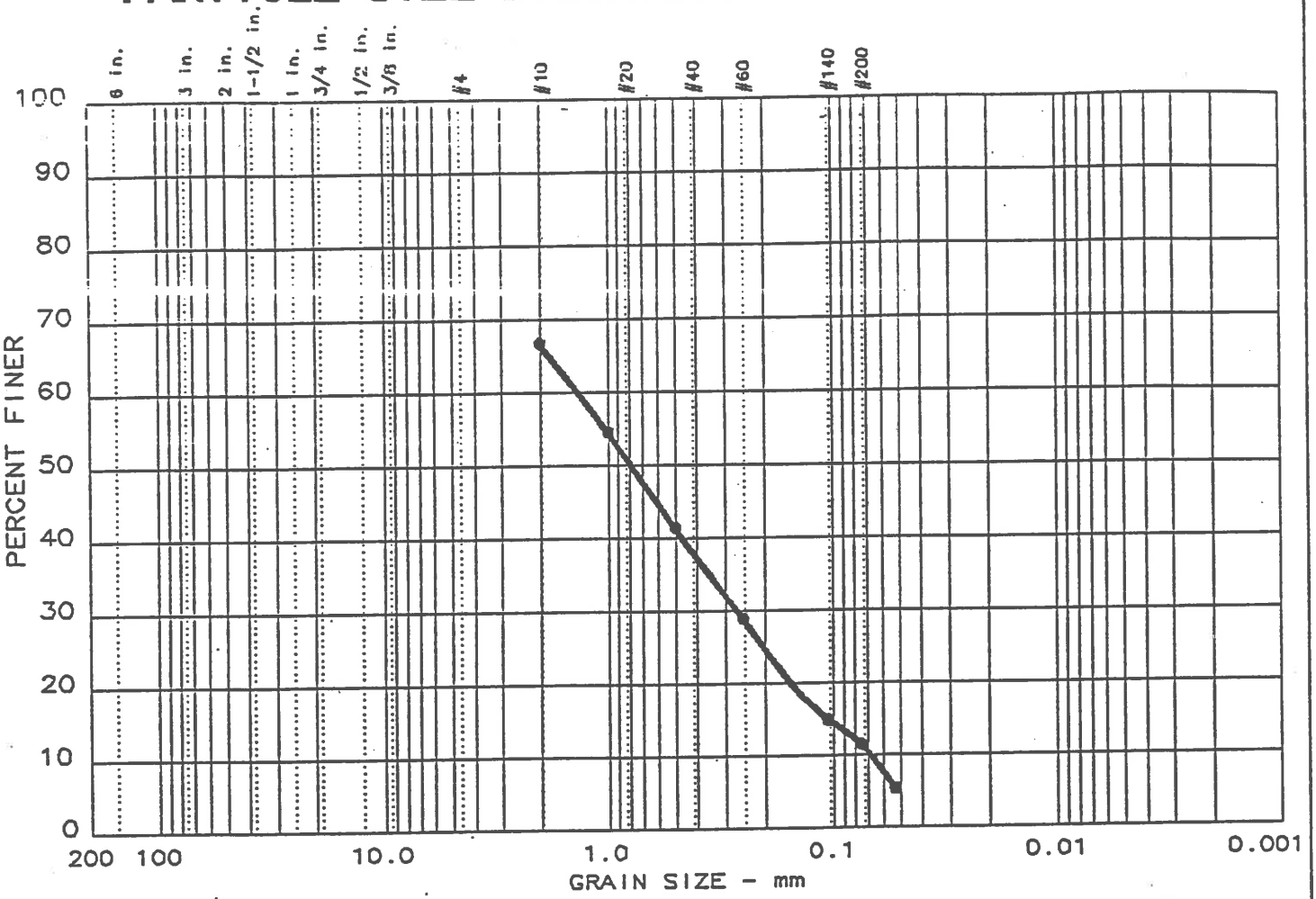
Remarks:
a: gs7.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project

Date: 2/2/95 Data Sheet No. 7

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	8	0.0	33.3	61.4	5.3		SP-SM		

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	1.35		
D_{30}	0.26		
D_{10}	0.06		
	COEFFICIENTS		
C_c	0.76		
C_u	20.0		

SIEVE number size	PERCENT FINER ●		
10	66.7		
18	54.5		
35	41.4		
60	28.9		
140	14.9		
200	11.5		
270	5.3		

Sample information:
● 299-W15-25
202.0 - 202.5'
ASTM Classif. SP-SM

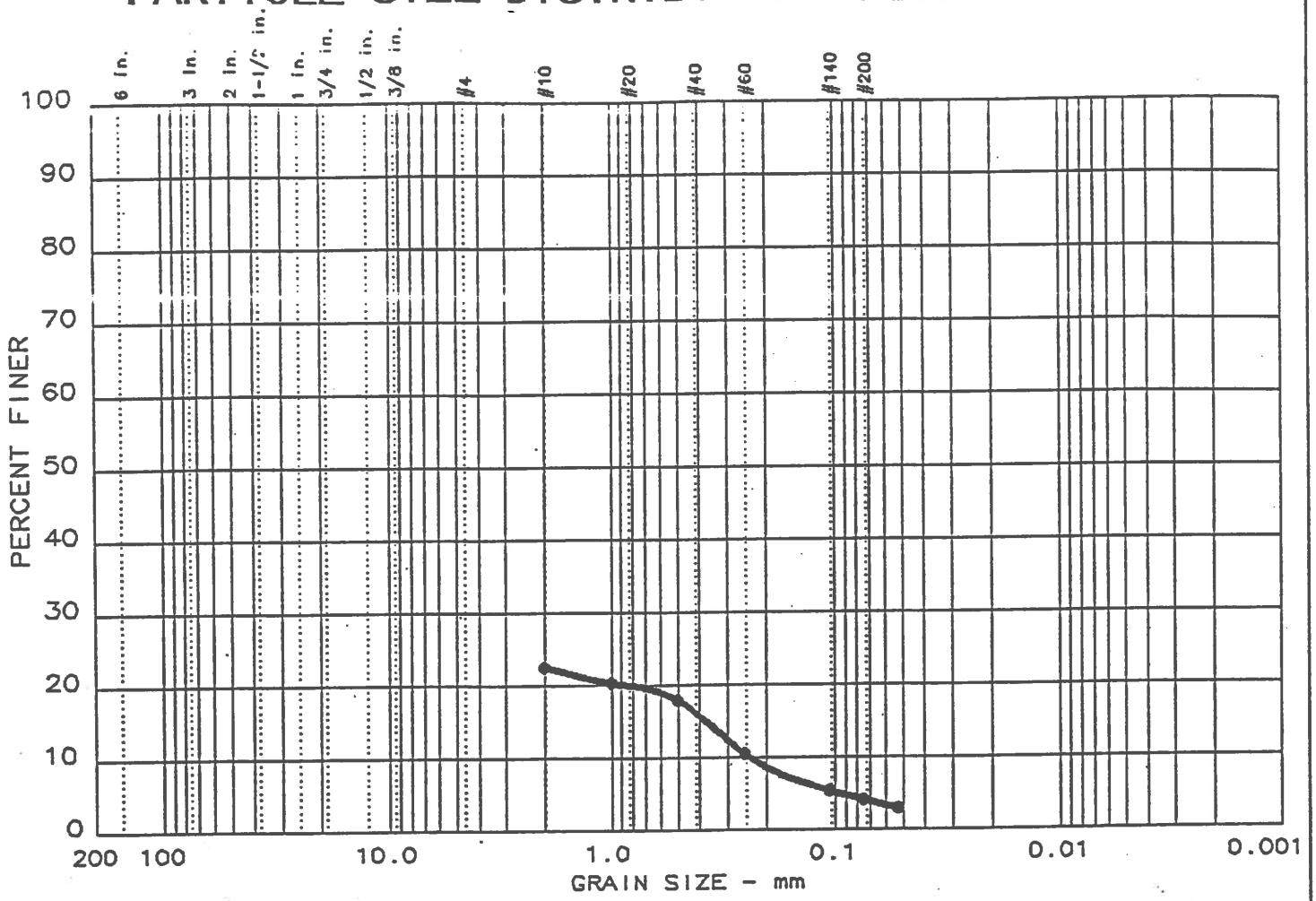
Remarks:
a: gs8.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project

Date: 2/2/95 Data Sheet No. 8

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	9	0.0	77.5	19.6	2.9		SP		

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	2.00		
D_{30}	2.00		
D_{10}	0.23		
	COEFFICIENTS		
C_c	8.41		
C_u	8.4		

SIEVE number size	PERCENT FINER ●		
10	22.5		
18	20.3		
35	17.9		
60	10.4		
140	5.4		
200	4.1		
270	2.9		

Sample information:
● 299-W15-25
210.2 - 210.5'
ASTM Classif. SP

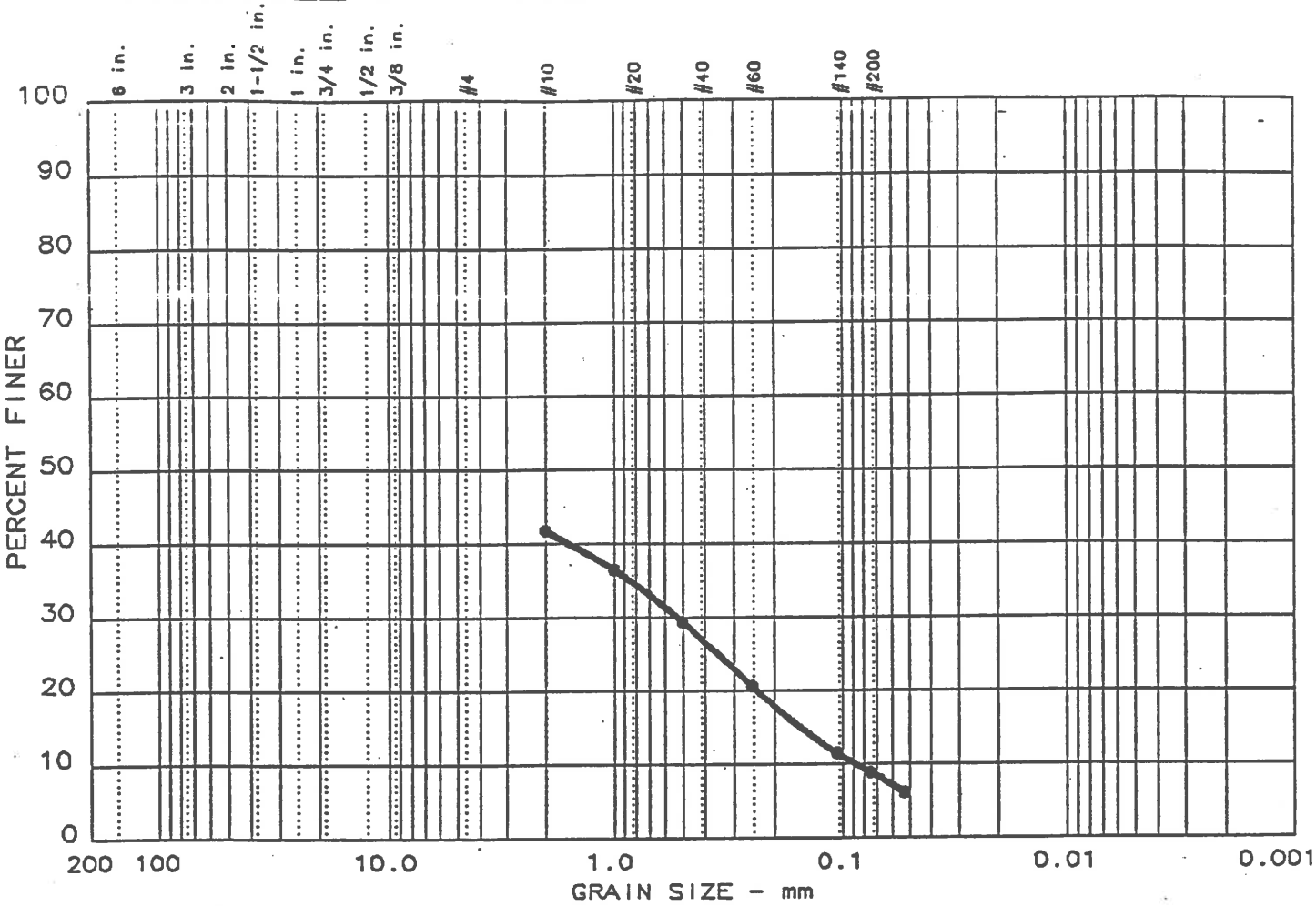
Remarks:
a: gs9.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project

Date: 2/2/95 Data Sheet No. 9

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	10	0.0	58.3	35.6	6.1		SW-SM		

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	2.00		
D_{30}	0.53		
D_{10}	0.08		
	COEFFICIENTS		
C_c	1.58		
C_u	22.9		

SIEVE number size	PERCENT FINER ●		
10	41.7		
18	36.4		
35	29.4		
60	20.6		
140	11.4		
200	8.9		
270	6.1		

Sample information:
● 299-W15-25
211.5'
ASTM Classif. SW-SM

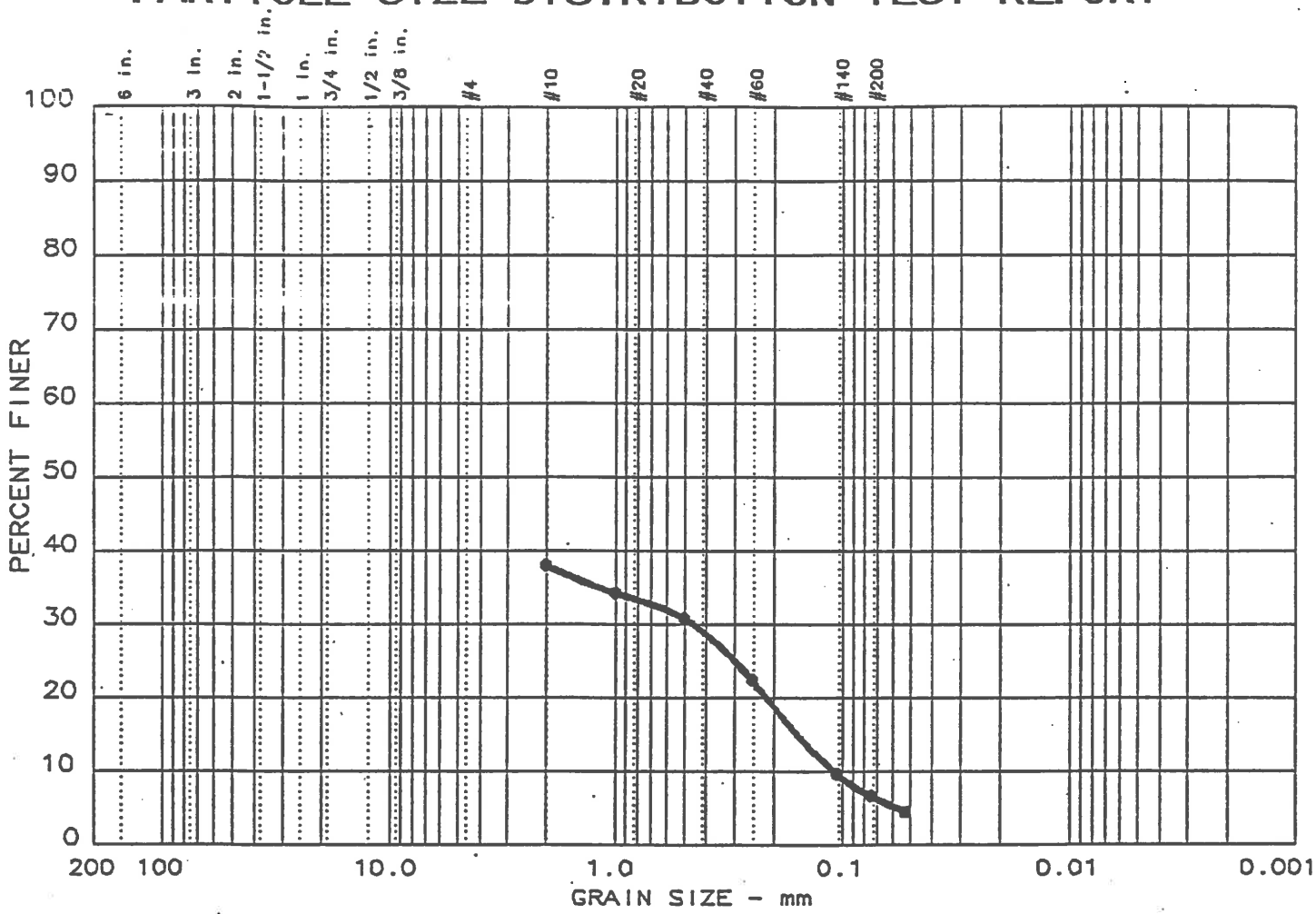
Remarks:
a: gs10.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project

Date: 2/2/95 Data Sheet No. 10

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	11	0.0	62.0	33.5	4.5		SP-SM		

SIEVE Inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	2.00		
D_{30}	0.45		
D_{10}	0.10		
	COEFFICIENTS		
C_c	0.94		
C_u	18.4		

SIEVE number size	PERCENT FINER ●		
10	38.0		
18	34.2		
35	30.8		
60	22.4		
140	9.6		
200	6.7		
270	4.5		

Sample information:
● 299-W15-25
220.0'
ASTM Classif. SP-SM

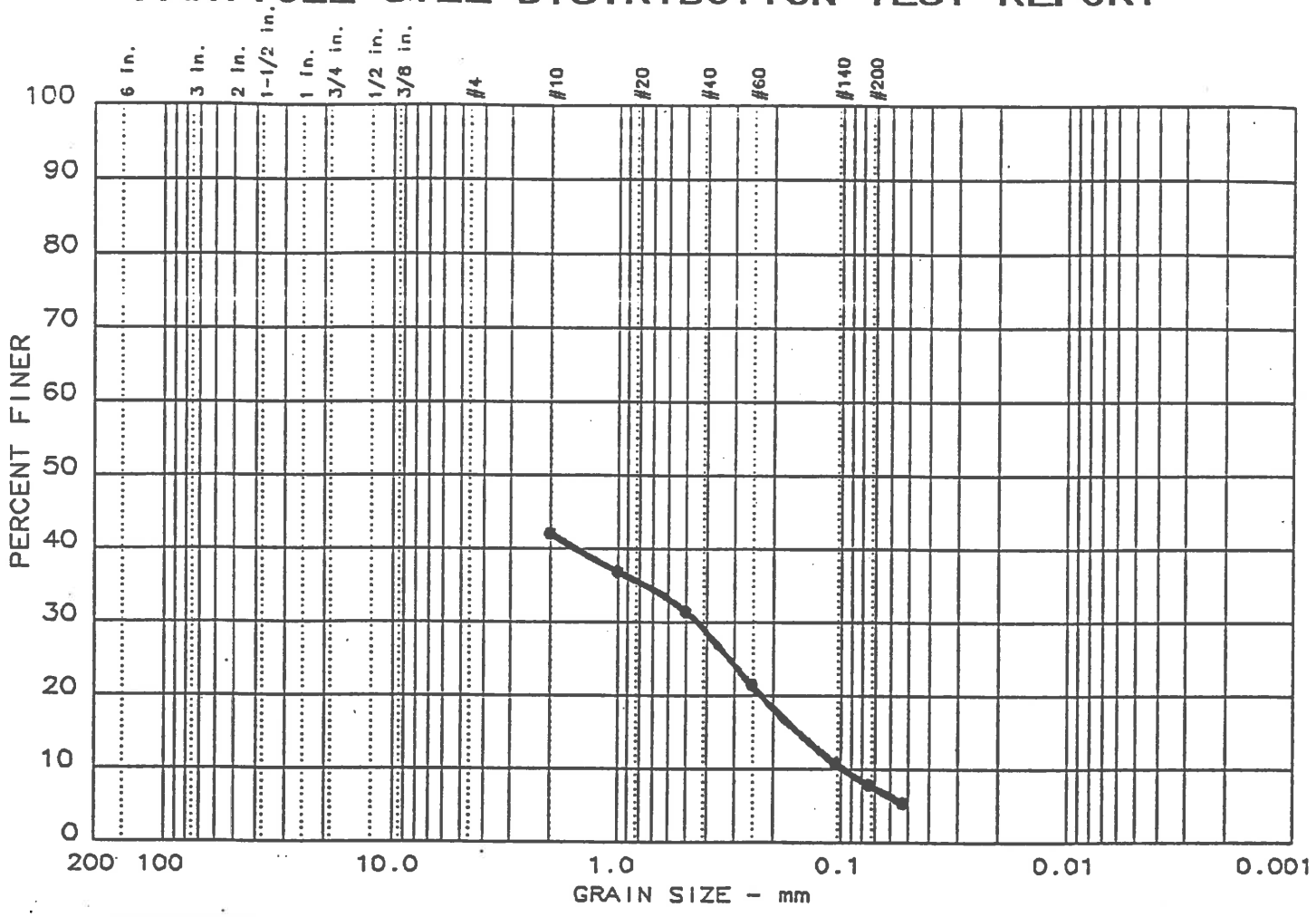
Remarks:
a: gs11.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project

Date: 2/2/95 Data Sheet No. 11

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	12	0.0	58.0	36.7	5.3		SW-SM		

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	2.00		
D_{30}	0.44		
D_{10}	0.09		
	COEFFICIENTS		
C_c	1.01		
C_u	20.7		

SIEVE number size	PERCENT FINER ●		
10	42.0		
18	36.8		
35	31.5		
60	21.5		
140	10.7		
200	7.8		
270	5.3		

Sample information:
● 299-W15-25
220.0 - 220.5'
ASTM Classif. SW-SM

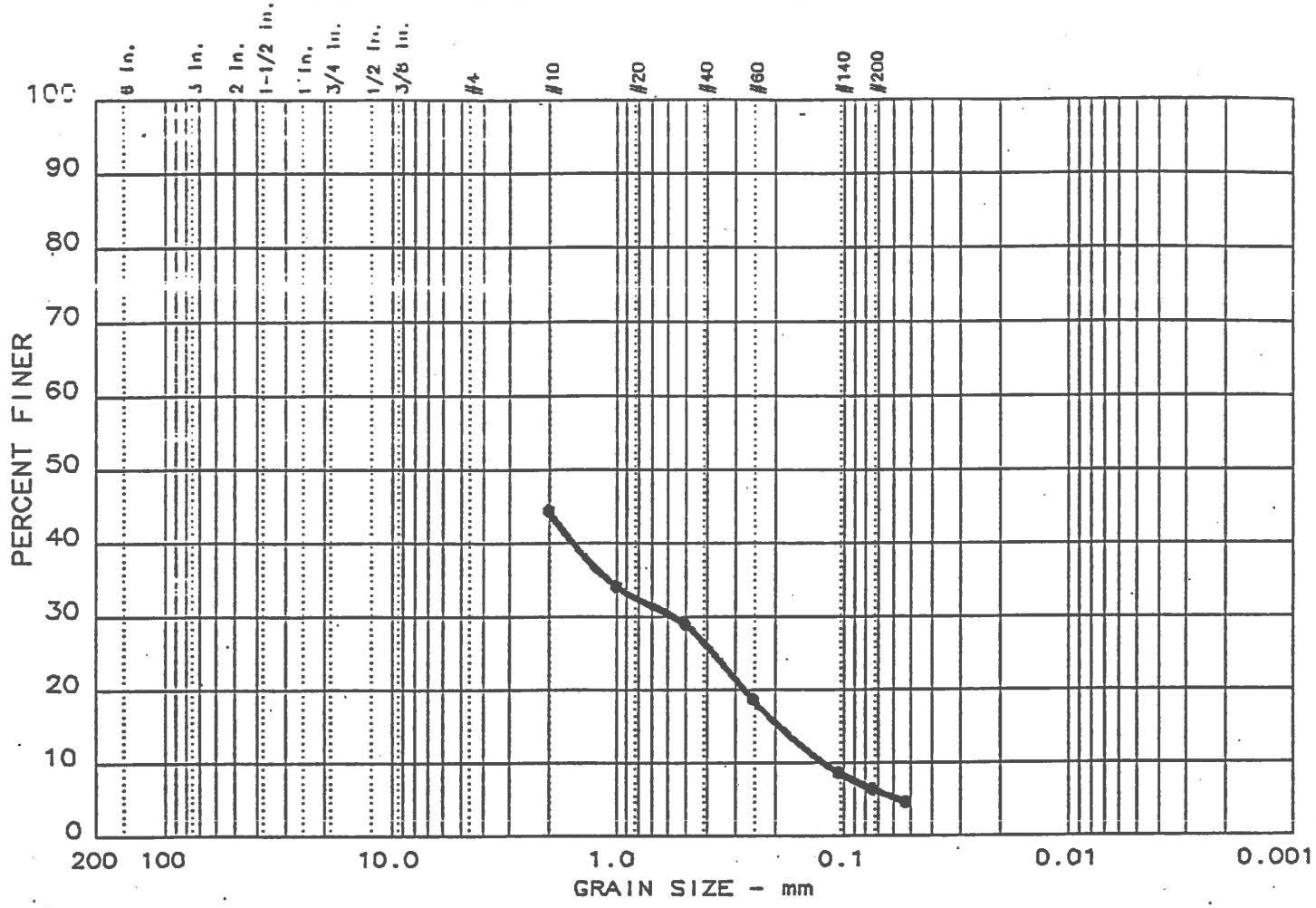
Remarks:
a: gs12.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project

Date: 2/2/95 Data Sheet No. 12

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	13	0.0	55.6	39.8	4.6		SW-SM		

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	2.00		
D_{30}	0.56		
D_{10}	0.12		
	COEFFICIENTS		
C_c	1.26		
C_u	16.2		

SIEVE number size	PERCENT FINER ●		
10	44.4		
18	34.0		
35	28.9		
60	18.7		
140	8.7		
200	6.4		
270	4.6		

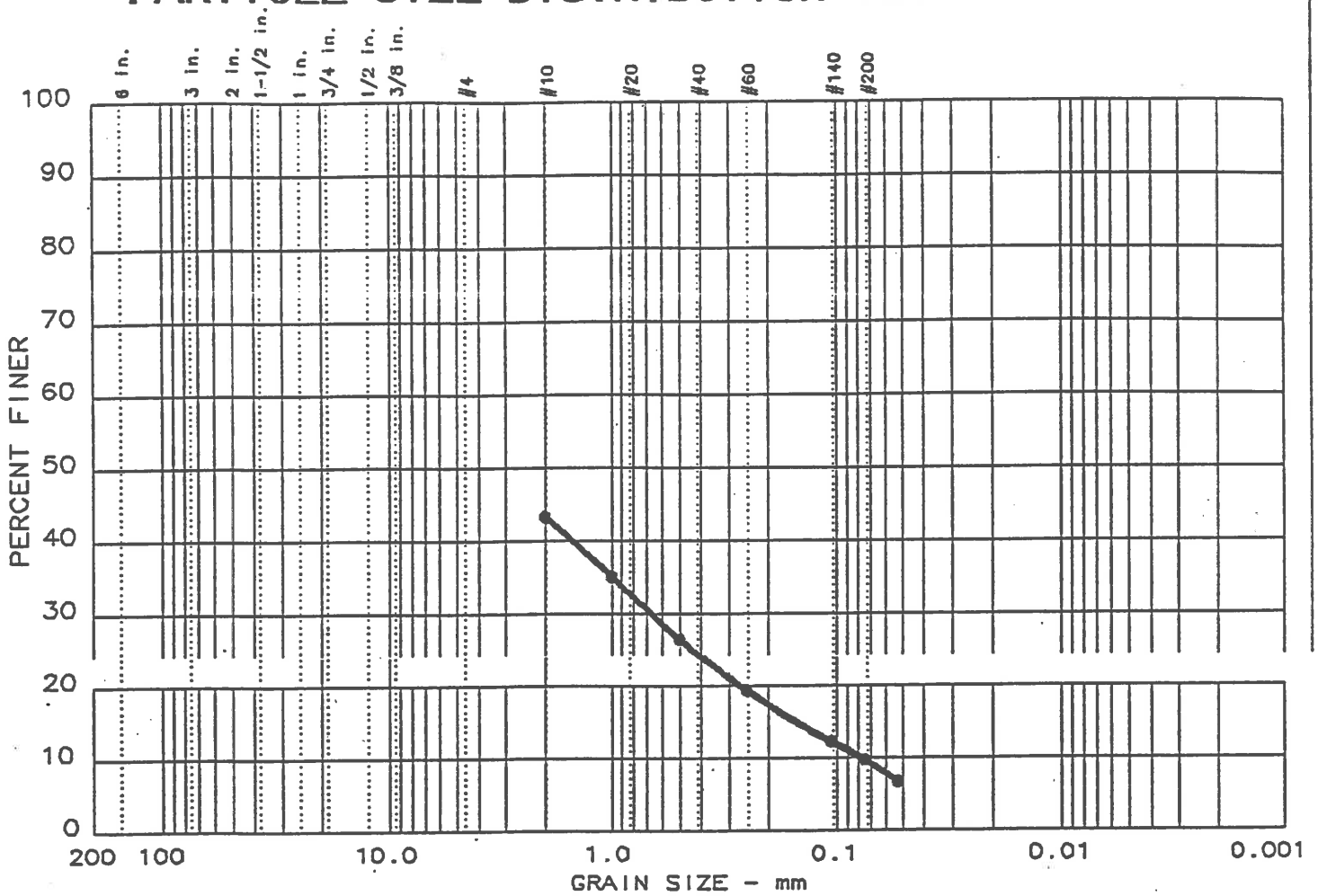
Sample information:
● 299-W15-25
231.0 - 231.5'
ASTM Classif. SW-SM

Remarks:
a: gs13.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project
Date: 2/6/95 Data Sheet No. 13

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	14	0.0	56.7	36.6	6.7		SW-SM		

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	2.00		
D_{30}	0.67		
D_{10}	0.07		
	COEFFICIENTS		
C_c	2.92		
C_u	26.0		

SIEVE number size	PERCENT FINER ●		
10	43.3		
18	35.0		
35	26.5		
60	19.4		
140	12.2		
200	9.7		
270	6.7		

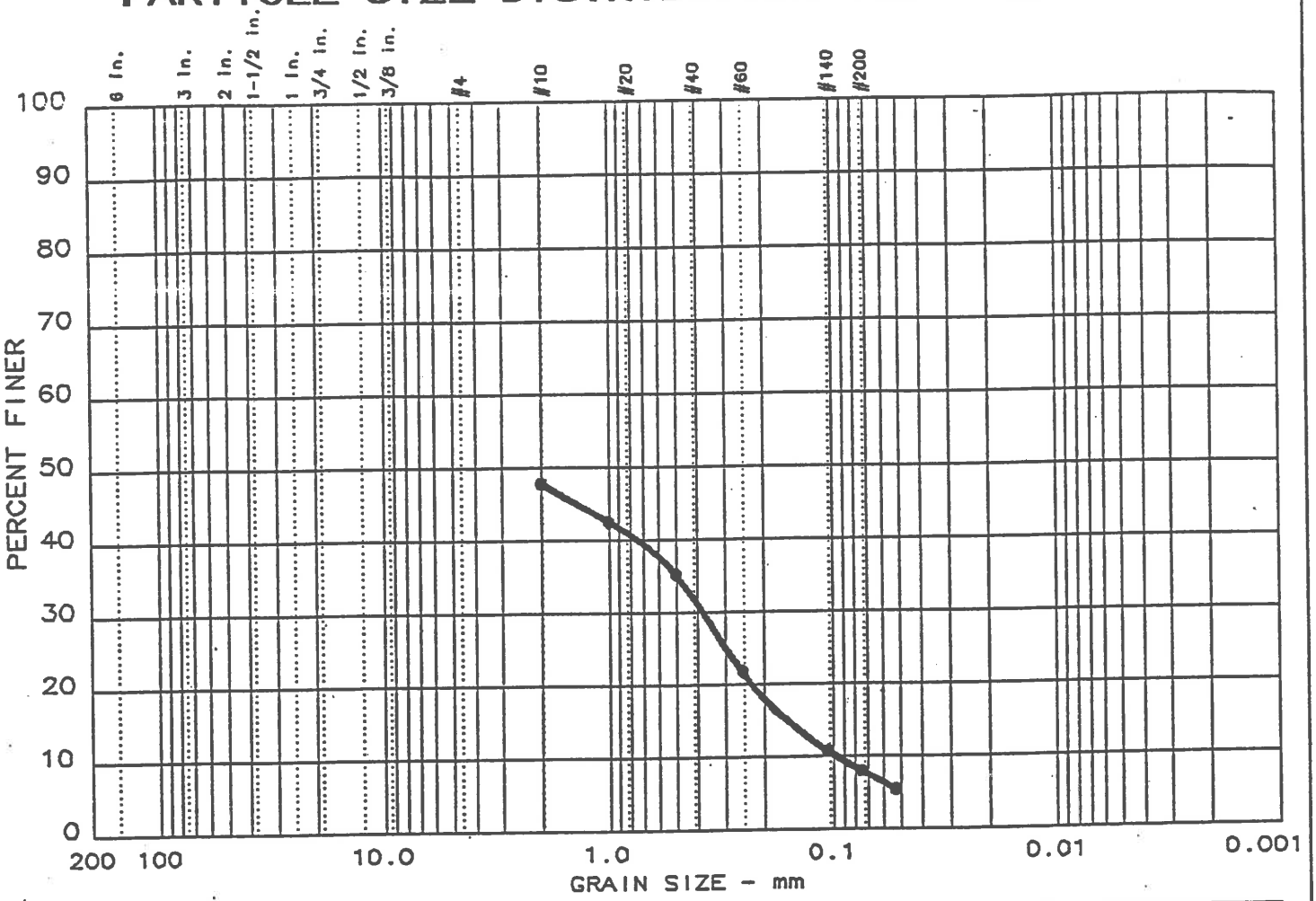
Sample information:
● 299-W15-25
240.5 - 241.0'
ASTM Classif. SW-SM

Remarks:
a: gs14.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project
Date: 2/6/95 Data Sheet No. 14

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	15	0.0	52.3	42.3	5.4		SP-SM		

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	2.00		
D_{30}	0.38		
D_{10}	0.09		
	COEFFICIENTS		
C_c	0.73		
C_u	20.7		

SIEVE number size	PERCENT FINER ●		
10	47.7		
18	42.4		
35	35.2		
60	21.8		
140	10.7		
200	7.9		
270	5.4		

Sample information:
● 299-W15-25
250.0 - 250.5'
ASTM Classif. SP-SM

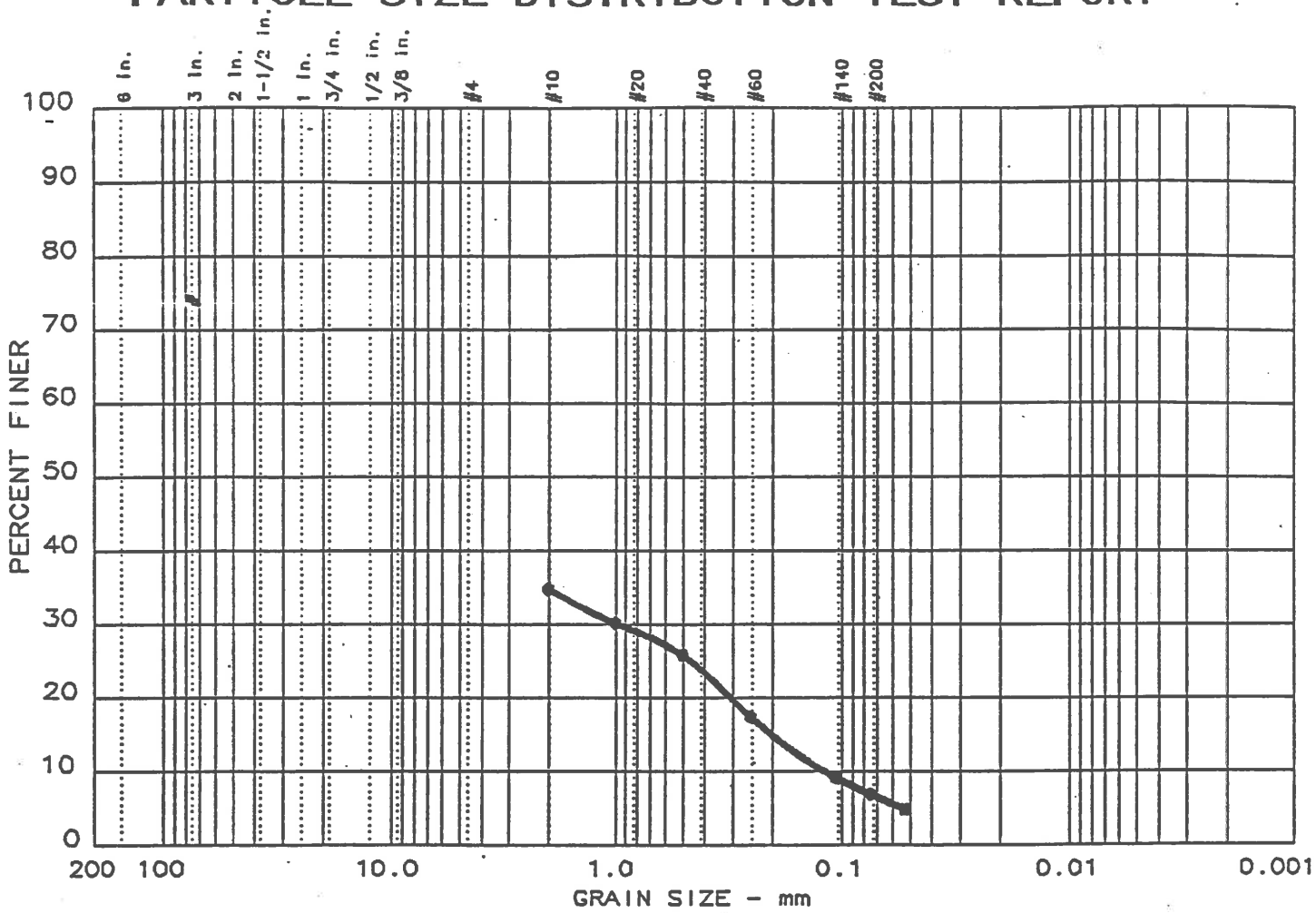
Remarks:
a: gs15.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project

Date: 2/6/95 Data Sheet No. 15

PARTICLE SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	16	0.0	65.3	29.9	4.8		SP-SM		

SIEVE inches size	PERCENT FINER ●		
	GRAIN SIZE		
D_{60}	2.00		
D_{30}	0.98		
D_{10}	0.11		
	COEFFICIENTS		
C_c	4.07		
C_u	17.0		

SIEVE number size	PERCENT FINER ●		
10	34.7		
18	30.1		
35	25.8		
60	17.4		
140	9.1		
200	6.9		
270	4.8		

Sample information:

● 299-W15-25
261.5 - 262.0'
ASTM Classif. SP-SM

Remarks:
a: gs16.sdt

Pacific Northwest Laboratory

Project No.: K14448
Project: Hanford Site Vapor Stripping Project

Date: 2/6/95 Data Sheet No. 16

GEOPHYSICAL LOGGING SUMMARY REPORT

Project: In -Well Vapor Stripping Demonstration **Date:** 1/10/95
Project Manager: Tyler Gilmore
Contractor: Schlumberger Well Services
Field Personnel: Ralph Coldewey, David Blythe, John Toon
PNL Witness: Alan Pearson
PNL HPT: Jose Lopez

Well Number	Tool	Run #	Interval Logged		Time In	Time Out	File#	Comments
			Top	Bottom				
299-W15-25	HNGS	1	0	256	1620	1720	007	
299-W15-25	HNGS	2	0	256	1800	1900	008	
299-W15-25	LDS	1	0	267	1950	2050	012	
299-W15-25	LDS	2	0	267	2055	2150	013	
299-W15-25	APS	1	11	257	2300	2350	017	High Res.
299-W15-25	APS	2	11	257	2400	0050	018	High Res.

GEOPHYSICAL LOGGING SUMMARY REPORT

Project: In -Well Vapor Stripping Demonstration **Date:** 1/18/95
Project Manager: Tyler Gilmore
Contractor: Schlumberger Well Services
Field Personnel: Ralph Coldewey, David Blythe, John Toon
PNL Witness: Alan Pearson
PNL HPT: John Ricks

Well Number	Tool	Run #	Interval Logged		Time In	Time Out	File#	Comments
			Top	Bottom				
299-W15-10	HNGS	1	0	279.5	0846	0946	003	
299-W15-10	HNGS	2	50	150	0949	1012	005	
299-W15-10	LDS	1	0	290	1054	1156	009	High Res.
299-W15-10	LDS	2	0	290	1159	1252	010	Standard Res.
299-W15-10	LDS	3	190	290	1256	1314	011	Standard Res.
299-W15-10	APS	1	8	280	1408	1506	015	High Res.
299-W15-10	APS	2	8	280	1512	1609	016	Standard Res.
299-W15-10	APS	3	100	280	1614	1633	017	Standard Res.

Battelle
Pacific Northwest Laboratories
Battelle Boulevard
P.O. Box 999
Richland, Washington 99352
Telephone (509) 372-6063

June 14, 1995

Kim Koegler
Bechtel Hanford
H6-02
Richland, WA 99352

Dear Kim:

Enclosed is a data package containing the analytical results from the water and soil samples collected from the well 299-W15-25 in the 200 West area as part of the In-Well Vapor Stripping demonstration. This completes the data transmittal for the In-Well Vapor Stripping Analytical Task (Work Order XD5053). We anticipate that all charges will have cleared by the end of June and the task order may be closed out. Please call if we can be of further help.

Sincerely,

Tyler Gilmore
Senior Research Scientist
Geology and Geophysics Group
ENVIRONMENTAL TECHNOLOGY DIVISION

TG/sem

Enclosure

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
09-Jul-94	160'	B09GF1	SOIL	VOGC	Ethylbenzene	100-41-4			µg/kg	U	CNF	DCL		21-Jul-94	0.065	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	1,4-Dichlorobenzene	106-46-7			µg/kg	U	CNF	DCL		21-Jul-94	0.061	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	1,2-Dichloroethane	107-06-2			µg/kg	U	CNF	DCL		21-Jul-94	0.077	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	Toluene	108-88-3			µg/kg	U	CNF	DCL		21-Jul-94	0.14	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	Tetrachloroethene	127-18-4			µg/kg	U	CNF	DCL		21-Jul-94	0.13	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	Xylenes (total)	1330-20-7	0.21		µg/kg	BL	CNF	DCL		21-Jul-94	0.21	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	cis-1,2-Dichloroethylene	156-59-2			µg/kg	U	CNF	DCL		21-Jul-94	0.039	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	trans-1,2-Dichloroethylene	156-60-5			µg/kg	U	CNF	DCL		21-Jul-94	0.096	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	Carbon tetrachloride	56-23-5			µg/kg	U	CNF	DCL		21-Jul-94	0.1	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	Chloroform	67-66-3			µg/kg	U	CNF	DCL		21-Jul-94	0.041	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	Benzene	71-43-2			µg/kg	U	CNF	DCL		21-Jul-94	0.21	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	1,1,1-Trichloroethane	71-55-6			µg/kg	U	CNF	DCL		21-Jul-94	0.21	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	Vinyl chloride	75-01-4			µg/kg	U	CNF	DCL		21-Jul-94	0.19	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	Methylenechloride	75-09-2	0.23		µg/kg	L	CNF	DCL		21-Jul-94	0.23	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	1,1-Dichloroethane	75-34-3			µg/kg	U	CNF	DCL		21-Jul-94	0.06	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	1,1,2-Trichloroethane	79-00-5			µg/kg	U	CNF	DCL		21-Jul-94	0.072	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	VOGC	Trichloroethene	79-01-6			µg/kg	U	CNF	DCL		21-Jul-94	0.16	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF1	SOIL	ABN	Unknown Aromatic Compoun			470	µg/kg	J		DCL	19-Jul-94	20-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	Unknown Cyclic Hydrocarb			350	µg/kg	J		DCL	19-Jul-94	20-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	Unknown Cyclic Hydrocarb			500	µg/kg	J		DCL	19-Jul-94	20-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	Unknown oxyhydrocarbon			410	µg/kg	J		DCL	19-Jul-94	20-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	4-Methylphenol	106-44-5			µg/kg	U		DCL	19-Jul-94	20-Jul-94	170	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	m-Cresol	108-39-4			µg/kg	XU		DCL	19-Jul-94	20-Jul-94	220	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	Phenol	108-95-2	120		µg/kg	L		DCL	19-Jul-94	20-Jul-94	99	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	Dodecane	112-40-3			µg/kg	U		DCL	19-Jul-94	20-Jul-94	120	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/kg	U		DCL	19-Jul-94	20-Jul-94	42	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/kg	U		DCL	19-Jul-94	20-Jul-94	190	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	2,4-Dichlorophenol	120-83-2			µg/kg	U		DCL	19-Jul-94	20-Jul-94	140	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	Decane	124-18-5			µg/kg	U		DCL	19-Jul-94	20-Jul-94	130	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	Tributyl phosphate	126-73-8			µg/kg	U		DCL	19-Jul-94	20-Jul-94	140	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	Tetradecane	629-59-4			µg/kg	U		DCL	19-Jul-94	20-Jul-94	110	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	Pentachlorophenol	87-86-5			µg/kg	U		DCL	19-Jul-94	20-Jul-94	150	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	2-Nitrophenol	88-75-5			µg/kg	U		DCL	19-Jul-94	20-Jul-94	130	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	Naphthalene	91-20-3			µg/kg	U		DCL	19-Jul-94	20-Jul-94	150	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	Benzothiazole	95-16-9			µg/kg	U		DCL	19-Jul-94	20-Jul-94	73	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	ABN	2-Methylphenol	95-48-7			µg/kg	U		DCL	19-Jul-94	20-Jul-94	160	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF1	SOIL	AS	Arsenic	7440-38-2	610		µg/kg		MOL	DCL		25-Aug-94	79	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
09-Jul-94	160'	B09GF1	SOIL	ICP	Aluminum	7429-90-5	18000000		µg/kg			DCL		27-Sep-94	6200	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Iron	7439-89-6	33000000		µg/kg	B		DCL		27-Sep-94	500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Magnesium	7439-95-4	8500000		µg/kg			DCL		27-Sep-94	3000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Manganese	7439-96-5	490000		µg/kg			DCL		27-Sep-94	160	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Potassium	7440-09-7	830000		µg/kg			DCL		27-Sep-94	97000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Silver	7440-22-4			µg/kg	U		DCL		27-Sep-94	440	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Sodium	7440-23-5	2000000		µg/kg			DCL		27-Sep-94	24000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Tin	7440-31-5	12000		µg/kg			DCL		27-Sep-94	1700	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Barium	7440-39-3	110000		µg/kg			DCL		27-Sep-94	73	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Beryllium	7440-41-7	390		µg/kg			DCL		27-Sep-94	98	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Cadmium	7440-43-9			µg/kg	U		DCL		27-Sep-94	330	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Cobalt	7440-48-4	14000		µg/kg			DCL		27-Sep-94	1100	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Copper	7440-50-8	22000		µg/kg			DCL		27-Sep-94	530	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Vanadium	7440-62-2	98000		µg/kg			DCL		27-Sep-94	640	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010

See last page for explanation of qualifiers and lab comments.
**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
09-Jul-94	160'	B09GF1	SOIL	ICP	Zinc	7440-66-6	64000		µg/kg	B		DCL		27-Sep-94	500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Calcium	7440-70-2	12000000		µg/kg	B		DCL		27-Sep-94	7200	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Nickel	7440-02-0	16000		µg/kg		DD&C-	DCL		27-Sep-94	1700	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Chromium	7440-47-3	24000		µg/kg		DD&C-	DCL		27-Sep-94	1200	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	ICP	Antimony	7440-36-0	6500		µg/kg	L	MOL	DCL		27-Sep-94	5000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF1	SOIL	PB	Lead	7439-92-1	3700		µg/kg		MOL	DCL		22-Aug-94	170	LEAD BY ATOMIC ABSORPTION 7421
09-Jul-94	160'	B09GF1	SOIL	ALPH	Gross alpha	14127-62-9	8.34		pCi/g			IT		26-Jul-94	6	GROSS ALPHA BY SW846 93-10
09-Jul-94	160'	B09GF1	SOIL	BETA	Gross beta	12587-47-2	10.6		pCi/g			IT		01-Aug-94	3	GROSS BETA BY SW846 93-10
09-Jul-94	160'	B09GF1	SOIL	GAMM	Cesium-137	10045-97-3	-0.00736		pCi/g			IT		25-Jul-94	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
09-Jul-94	160'	B09GF1	SOIL	GAMM	Cobalt-60	10198-40-0	-0.0214		pCi/g			IT		25-Jul-94	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
09-Jul-94	160'	B09GF1	SOIL	GAMM	Ra-224	13233-32-4	0.511		pCi/g			IT		25-Jul-94		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
09-Jul-94	160'	B09GF1	SOIL	GAMM	Ruthenium-106	13967-48-1	-0.0864		pCi/g			IT		25-Jul-94	0.85	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
09-Jul-94	160'	B09GF1	SOIL	GAMM	Ra-226	13982-63-3	0.354		pCi/g			IT		25-Jul-94		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
09-Jul-94	160'	B09GF1	SOIL	GAMM	Antimony-125	14234-35-6	-0.0203		pCi/g			IT		25-Jul-94	0.25	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
09-Jul-94	160'	B09GF2	SOIL	VOGC	Ethylbenzene	100-41-4	0.068		µg/kg	L	CNF	DCL		22-Jul-94	0.065	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	1,4-Dichlorobenzene	106-46-7			µg/kg	U	CNF	DCL		22-Jul-94	0.061	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	1,2-Dichloroethane	107-06-2			µg/kg	U	CNF	DCL		22-Jul-94	0.077	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	Toluene	108-88-3			µg/kg	U	CNF	DCL		22-Jul-94	0.14	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	Tetrachloroethene	127-18-4			µg/kg	U	CNF	DCL		22-Jul-94	0.13	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	Xylenes (total)	1330-20-7			µg/kg	U	CNF	DCL		22-Jul-94	0.21	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	cis-1,2-Dichloroethylene	156-59-2			µg/kg	U	CNF	DCL		22-Jul-94	0.039	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	trans-1,2-Dichloroethylene	156-60-5			µg/kg	U	CNF	DCL		22-Jul-94	0.096	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	Carbon tetrachloride	56-23-5			µg/kg	U	CNF	DCL		22-Jul-94	0.1	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	Chloroform	67-66-3			µg/kg	U	CNF	DCL		22-Jul-94	0.041	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	Benzene	71-43-2			µg/kg	U	CNF	DCL		22-Jul-94	0.21	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	1,1,1-Trichloroethane	71-55-6			µg/kg	U	CNF	DCL		22-Jul-94	0.21	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	Vinyl chloride	75-01-4			µg/kg	U	CNF	DCL		22-Jul-94	0.19	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	Methylenechloride	75-09-2			µg/kg	U	CNF	DCL		22-Jul-94	0.23	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	1,1-Dichloroethane	75-34-3			µg/kg	U	CNF	DCL		22-Jul-94	0.06	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	1,1,2-Trichloroethane	79-00-5			µg/kg	U	CNF	DCL		22-Jul-94	0.072	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	VOGC	Trichloroethene	79-01-6			µg/kg	U	CNF	DCL		22-Jul-94	0.16	VOLATILE ORGANIC BY GC 8010/8020
09-Jul-94	160'	B09GF2	SOIL	ABN	Alkyl Phenol Isomer			480	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Branched Unsaturated Hyd			250	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Branched Unsaturated Hyd			290	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Branched Unsaturated Hyd			340	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Branched Unsaturated Hyd			350	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Branched Unsaturated Hyd			620	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Branched Unsaturated Hyd			1100	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Branched Unsaturated Hyd			1400	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Branched Unsaturated Hyd			2500	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Nitrogen Heterocycle			160	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Nitrophenol Isomer			170	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Unknown Aldehyde			280	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Unknown Alkyl Diol			250	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Unknown Aromatic Compoun			320	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Unknown Cyclic hydrocarb			230	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Unknown Cyclic hydrocarb			280	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Unknown oxyhydrocarbon			340	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270

See last page for explanation of qualifiers and lab comments.

**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
09-Jul-94	160'	B09GF2	SOIL	ABN	Unknown oxyhydrocarbon			500	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Unsaturated oxyhydrocarb			350	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Unsaturated oxyhydrocarb			430	µg/kg	J		DCL	19-Jul-94	21-Jul-94		SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	4-Methylphenol	106-44-5			µg/kg	U		DCL	19-Jul-94	21-Jul-94	170	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	m-Cresol	108-39-4			µg/kg	XU		DCL	19-Jul-94	21-Jul-94	220	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Phenol	108-95-2	280		µg/kg	L		DCL	19-Jul-94	21-Jul-94	99	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Dodecane	112-40-3			µg/kg	U		DCL	19-Jul-94	21-Jul-94	120	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/kg	U		DCL	19-Jul-94	21-Jul-94	42	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/kg	U		DCL	19-Jul-94	21-Jul-94	190	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	2,4-Dichlorophenol	120-83-2	260		µg/kg	L		DCL	19-Jul-94	21-Jul-94	140	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Decane	124-18-5			µg/kg	U		DCL	19-Jul-94	21-Jul-94	130	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Tributyl phosphate	126-73-8			µg/kg	U		DCL	19-Jul-94	21-Jul-94	140	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Tetradecane	629-59-4			µg/kg	U		DCL	19-Jul-94	21-Jul-94	110	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Pentachlorophenol	87-86-5	480		µg/kg	L		DCL	19-Jul-94	21-Jul-94	150	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	2-Nitrophenol	88-75-5	260		µg/kg	L		DCL	19-Jul-94	21-Jul-94	130	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Naphthalene	91-20-3			µg/kg	U		DCL	19-Jul-94	21-Jul-94	150	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	Benzothiazole	95-16-9			µg/kg	U		DCL	19-Jul-94	21-Jul-94	73	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	ABN	2-Methylphenol	95-48-7			µg/kg	U		DCL	19-Jul-94	21-Jul-94	160	SEMI-VOLATILE ORGANIC BY GCMS 8270
09-Jul-94	160'	B09GF2	SOIL	AS	Arsenic	7440-38-2	430		µg/kg	L	MOL	DCL		25-Aug-94	79	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
09-Jul-94	160'	B09GF2	SOIL	ICP	Aluminum	7429-90-5	19000000		µg/kg			DCL		29-Sep-94	6200	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Iron	7439-89-6	35000000		µg/kg	B		DCL		29-Sep-94	500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Magnesium	7439-95-4	6400000		µg/kg			DCL		29-Sep-94	3000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Manganese	7439-96-5	450000		µg/kg			DCL		29-Sep-94	160	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Nickel	7440-02-0	19000		µg/kg			DCL		29-Sep-94	1700	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Potassium	7440-09-7	890000		µg/kg			DCL		29-Sep-94	97000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Silver	7440-22-4			µg/kg	U		DCL		29-Sep-94	440	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Sodium	7440-23-5	2700000		µg/kg			DCL		29-Sep-94	24000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Tin	7440-31-5	14000		µg/kg			DCL		29-Sep-94	1700	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Barium	7440-39-3	130000		µg/kg			DCL		29-Sep-94	73	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Beryllium	7440-41-7	430		µg/kg			DCL		29-Sep-94	98	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Cadmium	7440-43-9			µg/kg	U		DCL		29-Sep-94	330	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Chromium	7440-47-3	27000		µg/kg			DCL		29-Sep-94	1200	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Cobalt	7440-48-4	13000		µg/kg			DCL		29-Sep-94	1100	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Copper	7440-50-8	24000		µg/kg			DCL		29-Sep-94	530	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Vanadium	7440-62-2	110000		µg/kg			DCL		29-Sep-94	640	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Zinc	7440-66-6	60000		µg/kg	B		DCL		29-Sep-94	500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Calcium	7440-70-2	13000000		µg/kg	B		DCL		29-Sep-94	7200	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	ICP	Antimony	7440-36-0	6400		µg/kg	L	MOL	DCL		29-Sep-94	5000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
09-Jul-94	160'	B09GF2	SOIL	PB	Lead	7439-92-1	2800		µg/kg		MOL	DCL		22-Aug-94	170	LEAD BY ATOMIC ABSORPTION 7421
09-Jul-94	160'	B09GF2	SOIL	ALPH	Gross alpha	14127-62-9	7.17		pCi/g			IT		26-Jul-94	6	GROSS ALPHA BY SW846 93-10
09-Jul-94	160'	B09GF2	SOIL	BETA	Gross beta	12587-47-2	14.5		pCi/g			IT		01-Aug-94	3	GROSS BETA BY SW846 93-10
09-Jul-94	160'	B09GF2	SOIL	GAMM	Cesium-137	10045-97-3	0.00496		pCi/g			IT		26-Jul-94	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
09-Jul-94	160'	B09GF2	SOIL	GAMM	Cobalt-60	10198-40-0	-0.0129		pCi/g			IT		26-Jul-94	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
09-Jul-94	160'	B09GF2	SOIL	GAMM	Ra-224	13233-32-4	0.603		pCi/g			IT		26-Jul-94		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
09-Jul-94	160'	B09GF2	SOIL	GAMM	Ruthenium-106	13967-48-1	-0.173		pCi/g			IT		26-Jul-94	0.85	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
09-Jul-94	160'	B09GF2	SOIL	GAMM	Ra-226	13982-63-3	0.445		pCi/g			IT		26-Jul-94		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
09-Jul-94	160'	B09GF2	SOIL	GAMM	Antimony-125	14234-35-6	-0.0249		pCi/g			IT		26-Jul-94	0.25	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE

See last page for explanation of qualifiers and lab comments.
**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
30-Nov-94	170'	B09GF5	SOIL	ABN	Aldol Condensation Product			150	µg/kg	BJ		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	Aldol Condensation Product			170	µg/kg	BJ		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	Aldol Condensation Product			210	µg/kg	BJ		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	Hexanedioic acid bis(2-ethy			150	µg/kg	BJ		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	Phenol 4 4'-(1-methylethyli			150	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	4-Methylphenol	106-44-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	m-Cresol	108-39-4			µg/kg	XU		DCL	14-Jan-95	17-Jan-95	48	SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	Phenol	108-95-2			µg/kg	U		DCL	14-Jan-95	17-Jan-95	7.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	Dodecane	112-40-3			µg/kg	U		DCL	14-Jan-95	17-Jan-95	180	SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/kg	U		DCL	14-Jan-95	17-Jan-95	11	SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/kg	U		DCL	14-Jan-95	17-Jan-95	68	SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	2,4-Dichlorophenol	120-83-2			µg/kg	U		DCL	14-Jan-95	17-Jan-95	140	SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	Decane	124-18-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	67	SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	Tributyl phosphate	126-73-8			µg/kg	U		DCL	14-Jan-95	17-Jan-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	Tetradecane	629-59-4			µg/kg	U		DCL	14-Jan-95	17-Jan-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	Pentachlorophenol	87-86-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	50	SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	2-Nitrophenol	88-75-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	Naphthalene	91-20-3			µg/kg	U		DCL	14-Jan-95	17-Jan-95	4.7	SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	Benzothiazole	95-16-9			µg/kg	U		DCL	14-Jan-95	17-Jan-95	12	SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	ABN	2-Methylphenol	95-48-7			µg/kg	U		DCL	14-Jan-95	17-Jan-95	59	SEMI-VOLATILE ORGANIC BY GCMS 8270
30-Nov-94	170'	B09GF5	SOIL	AS	Arsenic	7440-38-2	740		µg/kg			DCL		30-Jan-95	140	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
30-Nov-94	170'	B09GF5	SOIL	ICP	Aluminum	7429-90-5	4000000		µg/kg			DCL		28-Feb-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Iron	7439-89-6	7800000		µg/kg			DCL		28-Feb-95	940	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Magnesium	7439-95-4	3100000		µg/kg			DCL		28-Feb-95	3000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Manganese	7439-96-5	160000		µg/kg			DCL		28-Feb-95	260	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Nickel	7440-02-0	11000		µg/kg			DCL		28-Feb-95	1600	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Potassium	7440-09-7	1000000		µg/kg			DCL		28-Feb-95	39000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Sodium	7440-23-5	260000		µg/kg			DCL		28-Feb-95	11000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Tin	7440-31-5			µg/kg	U		DCL		28-Feb-95	9500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Barium	7440-39-3	33000		µg/kg			DCL		28-Feb-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Beryllium	7440-41-7	280		µg/kg	L		DCL		28-Feb-95	43	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Cadmium	7440-43-9			µg/kg	U		DCL		28-Feb-95	410	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Chromium	7440-47-3	12000		µg/kg			DCL		28-Feb-95	740	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Cobalt	7440-48-4	2800		µg/kg			DCL		28-Feb-95	680	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Copper	7440-50-8	6700		µg/kg			DCL		28-Feb-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Vanadium	7440-62-2	17000		µg/kg			DCL		28-Feb-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Zinc	7440-66-6	20000		µg/kg			DCL		28-Feb-95	660	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Calcium	7440-70-2	2000000		µg/kg			DCL		28-Feb-95	4400	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Silver	7440-22-4			µg/kg	U	MOL	DCL		28-Feb-95	240	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	ICP	Antimony	7440-36-0			µg/kg	U	MOL	DCL		28-Feb-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
30-Nov-94	170'	B09GF5	SOIL	PB	Lead	7439-92-1	2800		µg/kg			DCL		30-Jan-95	200	LEAD BY ATOMIC ABSORPTION 7421
30-Nov-94	170'	B09GF5	SOIL	ALPH	Gross alpha	14127-62-9	7.85		pCi/g			IT		21-Jan-95	6	GROSS ALPHA BY SW846 93-10
30-Nov-94	170'	B09GF5	SOIL	BETA	Gross beta	12587-47-2	29.1		pCi/g			IT		20-Jan-95	3	GROSS BETA BY SW846 93-10
30-Nov-94	170'	B09GF5	SOIL	GAMM	Cesium-137	10045-97-3	-0.00165		pCi/g			IT		28-Jan-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
30-Nov-94	170'	B09GF5	SOIL	GAMM	Cobalt-60	10198-40-0	0.0112		pCi/g			IT		28-Jan-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
30-Nov-94	170'	B09GF5	SOIL	GAMM	Ruthenium-106	13967-48-1	0.357		pCi/g			IT		28-Jan-95	0.85	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
30-Nov-94	170'	B09GF5	SOIL	GAMM	Antimony-125	14234-35-6	0.0264		pCi/g			IT		28-Jan-95	0.25	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE

See last page for explanation of qualifiers and lab comments.
**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
02-Dec-94	180'	B09GF7	SOIL	ABN	Aldol Condensation Product			140	µg/kg	BJ		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Benzene 1-ethenyl-4-methoxy			160	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Hexanedioic acid bis(2-ethy			200	µg/kg	BJ		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	PNA MW = 252			1200	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Phenol 4 4'-(1-methylethyli			8600	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Unknown Acid			210	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Unknown Acid			260	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Unknown Polycyclic Acid			590	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Unknown cyclic compound			140	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	4-Methylphenol	106-44-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	m-Cresol	108-39-4			µg/kg	XU		DCL	14-Jan-95	17-Jan-95	48	SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Phenol	108-95-2	720		µg/kg			DCL	14-Jan-95	17-Jan-95	7.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Dodecane	112-40-3			µg/kg	U		DCL	14-Jan-95	17-Jan-95	180	SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/kg	U		DCL	14-Jan-95	17-Jan-95	11	SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/kg	U		DCL	14-Jan-95	17-Jan-95	68	SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	2,4-Dichlorophenol	120-83-2			µg/kg	U		DCL	14-Jan-95	17-Jan-95	140	SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Decane	124-18-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	67	SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Tributyl phosphate	126-73-8			µg/kg	U		DCL	14-Jan-95	17-Jan-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Tetradecane	629-59-4			µg/kg	U		DCL	14-Jan-95	17-Jan-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Pentachlorophenol	87-86-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	50	SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	2-Nitrophenol	88-75-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Naphthalene	91-20-3			µg/kg	U		DCL	14-Jan-95	17-Jan-95	4.7	SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	Benzothiazole	95-16-9			µg/kg	U		DCL	14-Jan-95	17-Jan-95	12	SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	B09GF7	SOIL	ABN	2-Methylphenol	95-48-7			µg/kg	U		DCL	14-Jan-95	17-Jan-95	59	SEMI-VOLATILE ORGANIC BY GCMS 8270
02-Dec-94	180'	10	SOIL	VOCV	Methylenechloride	75-09-2	**		µg/kg			PNL1		13-Jan-95		VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
02-Dec-94	180'	10	SOIL	VOCV	trans-1,2-Dichloroethylene	156-60-5			µg/kg	U		PNL1		13-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
02-Dec-94	180'	10	SOIL	VOCV	1,1-Dichloroethane	75-34-3			µg/kg	U		PNL1		13-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
02-Dec-94	180'	10	SOIL	VOCV	cis-1,2-Dichloroethylene	156-59-2			µg/kg	U		PNL1		13-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
02-Dec-94	180'	10	SOIL	VOCV	Chloroform	67-66-3			µg/kg	U		PNL1		13-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
02-Dec-94	180'	10	SOIL	VOCV	1,1,1-Trichloroethane	71-55-6			µg/kg	U		PNL1		13-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
02-Dec-94	180'	10	SOIL	VOCV	Carbon tetrachloride	56-23-5			µg/kg	U		PNL1		13-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
02-Dec-94	180'	10	SOIL	VOCV	1,2-Dichloroethane	107-06-2			µg/kg	U		PNL1		13-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
02-Dec-94	180'	10	SOIL	VOCV	Benzene	71-43-2			µg/kg	U		PNL1		13-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
02-Dec-94	180'	10	SOIL	VOCV	Trichloroethylene	79-01-6			µg/kg	U		PNL1		13-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
02-Dec-94	180'	10	SOIL	VOCV	Toluene	108-88-3			µg/kg	U		PNL1		13-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
02-Dec-94	180'	10	SOIL	VOCV	Tetrachloroethylene	127-18-4			µg/kg	U		PNL1		13-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
02-Dec-94	180'	10	SOIL	VOCV	Ethylbenzene	100-41-4			µg/kg	U		PNL1		13-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
02-Dec-94	180'	10	SOIL	VOCV	Xylenes (total)	1330-20-7			µg/kg	U		PNL1		13-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
02-Dec-94	180'	B09GF7	SOIL	AS	Arsenic	7440-38-2	740		µg/kg			DCL		30-Jan-95	140	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
02-Dec-94	180'	B09GF7	SOIL	ICP	Aluminum	7429-90-5	6300000		µg/kg			DCL		28-Feb-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Iron	7439-89-6	14000000		µg/kg			DCL		28-Feb-95	940	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Magnesium	7439-95-4	4600000		µg/kg			DCL		28-Feb-95	3000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Manganese	7439-96-5	240000		µg/kg			DCL		28-Feb-95	260	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Nickel	7440-02-0	14000		µg/kg			DCL		28-Feb-95	1600	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Potassium	7440-09-7	1600000		µg/kg			DCL		28-Feb-95	39000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Sodium	7440-23-5	800000		µg/kg			DCL		28-Feb-95	11000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Tin	7440-31-5			µg/kg	U		DCL		28-Feb-95	9500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Barium	7440-39-3	67000		µg/kg			DCL		28-Feb-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Beryllium	7440-41-7	230		µg/kg	L		DCL		28-Feb-95	43	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Cadmium	7440-43-9			µg/kg	U		DCL		28-Feb-95	410	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Chromium	7440-47-3	23000		µg/kg			DCL		28-Feb-95	740	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Cobalt	7440-48-4	4600		µg/kg			DCL		28-Feb-95	680	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010

See last page for explanation of qualifiers and lab comments.

**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
02-Dec-94	180'	B09GF7	SOIL	ICP	Copper	7440-50-8	12000		µg/kg			DCL		28-Feb-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Vanadium	7440-62-2	33000		µg/kg			DCL		28-Feb-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Zinc	7440-66-6	31000		µg/kg			DCL		28-Feb-95	660	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Calcium	7440-70-2	4500000		µg/kg			DCL		28-Feb-95	4400	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Silver	7440-22-4			µg/kg	U	MOL	DCL		28-Feb-95	240	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	ICP	Antimony	7440-36-0			µg/kg	U	MOL	DCL		28-Feb-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
02-Dec-94	180'	B09GF7	SOIL	PB	Lead	7439-92-1	3200		µg/kg			DCL		30-Jan-95	200	LEAD BY ATOMIC ABSORPTION 7421
02-Dec-94	180'	B09GF7	SOIL	ALPH	Gross alpha	14127-62-9	8.48		pCi/g			IT		20-Jan-95	6	GROSS ALPHA BY SW846 93-10
02-Dec-94	180'	B09GF7	SOIL	BETA	Gross beta	12587-47-2	26		pCi/g			IT		20-Jan-95	3	GROSS BETA BY SW846 93-10
02-Dec-94	180'	B09GF7	SOIL	GAMM	Cesium-137	10045-97-3	0.0151		pCi/g			IT		27-Jan-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
02-Dec-94	180'	B09GF7	SOIL	GAMM	Cobalt-60	10198-40-0	-0.0286		pCi/g			IT		27-Jan-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
02-Dec-94	180'	B09GF7	SOIL	GAMM	Ruthenium-106	13967-48-1	0.176		pCi/g			IT		27-Jan-95	0.85	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
02-Dec-94	180'	B09GF7	SOIL	GAMM	Antimony-125	14234-35-6	-0.167		pCi/g			IT		27-Jan-95	0.25	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
06-Dec-94	190'	B09GF9	SOIL	ABN	Aldol Condensation Product			140	µg/kg	BJ		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Hexanedioic acid bis(2-ethy			310	µg/kg	BJ		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Phenol 4 4'-(1-methylethyli			320	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Unknown Acid			140	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Unknown Acid			330	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Unknown Acid			710	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Unknown Acid			940	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Unknown Bromine Compound			160	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Unknown Oxyhydrocarbon			180	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	4-Methylphenol	106-44-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	m-Cresol	108-39-4			µg/kg	XU		DCL	14-Jan-95	17-Jan-95	48	SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Phenol	108-95-2			µg/kg	U		DCL	14-Jan-95	17-Jan-95	7.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Dodecane	112-40-3			µg/kg	U		DCL	14-Jan-95	17-Jan-95	180	SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/kg	U		DCL	14-Jan-95	17-Jan-95	11	SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/kg	U		DCL	14-Jan-95	17-Jan-95	68	SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	2,4-Dichlorophenol	120-83-2			µg/kg	U		DCL	14-Jan-95	17-Jan-95	140	SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Decane	124-18-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	67	SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Tributyl phosphate	126-73-8			µg/kg	U		DCL	14-Jan-95	17-Jan-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Tetradecane	629-59-4			µg/kg	U		DCL	14-Jan-95	17-Jan-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Pentachlorophenol	87-86-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	50	SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	2-Nitrophenol	88-75-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Naphthalene	91-20-3			µg/kg	U		DCL	14-Jan-95	17-Jan-95	4.7	SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	Benzothiazole	95-16-9			µg/kg	U		DCL	14-Jan-95	17-Jan-95	12	SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	B09GF9	SOIL	ABN	2-Methylphenol	95-48-7			µg/kg	U		DCL	14-Jan-95	17-Jan-95	59	SEMI-VOLATILE ORGANIC BY GCMS 8270
06-Dec-94	190'	1	SOIL	VOCV	Methylenechloride	75-09-2	**		µg/kg			PNL1		08-Dec-94		VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
06-Dec-94	190'	1	SOIL	VOCV	trans-1,2-Dichloroethylene	156-60-5			µg/kg	U		PNL1		08-Dec-94	40	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
06-Dec-94	190'	1	SOIL	VOCV	1,1-Dichloroethane	75-34-3			µg/kg	U		PNL1		08-Dec-94	40	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
06-Dec-94	190'	1	SOIL	VOCV	cis-1,2-Dichloroethylene	156-59-2			µg/kg	U		PNL1		08-Dec-94	40	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
06-Dec-94	190'	1	SOIL	VOCV	Chloroform	67-66-3			µg/kg	U		PNL1		08-Dec-94	40	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
06-Dec-94	190'	1	SOIL	VOCV	1,1,1-Trichloroethane	71-55-6			µg/kg	U		PNL1		08-Dec-94	40	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
06-Dec-94	190'	1	SOIL	VOCV	Carbon tetrachloride	56-23-5			µg/kg	U		PNL1		08-Dec-94	40	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
06-Dec-94	190'	1	SOIL	VOCV	1,2-Dichloroethane	107-06-2			µg/kg	U		PNL1		08-Dec-94	40	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
06-Dec-94	190'	1	SOIL	VOCV	Benzene	71-43-2			µg/kg	U		PNL1		08-Dec-94	40	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
06-Dec-94	190'	1	SOIL	VOCV	Trichloroethylene	79-01-6			µg/kg	U		PNL1		08-Dec-94	40	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
06-Dec-94	190'	1	SOIL	VOCV	Toluene	108-88-3			µg/kg	U		PNL1		08-Dec-94	40	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO

See last page for explanation of qualifiers and lab comments.

**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
06-Dec-94	190'	1	SOIL	VOCV	Tetrachloroethylene	127-18-4			µg/kg	U		PNL1		08-Dec-94	40	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
06-Dec-94	190'	1	SOIL	VOCV	Ethylbenzene	100-41-4			µg/kg	U		PNL1		08-Dec-94	40	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
06-Dec-94	190'	1	SOIL	VOCV	Xylenes (total)	1330-20-7			µg/kg	U		PNL1		08-Dec-94	40	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
06-Dec-94	190'	B09GF9	SOIL	AS	Arsenic	7440-38-2	970		µg/kg			DCL		30-Jan-95	140	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
06-Dec-94	190'	B09GF9	SOIL	ICP	Aluminum	7429-90-5	8700000		µg/kg			DCL		28-Feb-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Iron	7439-89-6	20000000		µg/kg			DCL		28-Feb-95	940	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Magnesium	7439-95-4	4300000		µg/kg			DCL		28-Feb-95	3000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Manganese	7439-96-5	320000		µg/kg			DCL		28-Feb-95	260	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Nickel	7440-02-0	24000		µg/kg			DCL		28-Feb-95	1600	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Potassium	7440-09-7	2200000		µg/kg			DCL		28-Feb-95	39000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Sodium	7440-23-5	1800000		µg/kg			DCL		28-Feb-95	11000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Tin	7440-31-5			µg/kg	U		DCL		28-Feb-95	9500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Barium	7440-39-3	100000		µg/kg			DCL		28-Feb-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Beryllium	7440-41-7	310		µg/kg			DCL		28-Feb-95	43	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Cadmium	7440-43-9			µg/kg	U		DCL		28-Feb-95	410	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Chromium	7440-47-3	66000		µg/kg			DCL		28-Feb-95	740	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Cobalt	7440-48-4	6300		µg/kg			DCL		28-Feb-95	680	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Copper	7440-50-8	17000		µg/kg			DCL		28-Feb-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Vanadium	7440-62-2	43000		µg/kg			DCL		28-Feb-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Zinc	7440-66-6	33000		µg/kg			DCL		28-Feb-95	660	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Calcium	7440-70-2	6700000		µg/kg			DCL		28-Feb-95	4400	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Silver	7440-22-4			µg/kg	U	MOL	DCL		28-Feb-95	240	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	ICP	Antimony	7440-36-0			µg/kg	U	MOL	DCL		28-Feb-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
06-Dec-94	190'	B09GF9	SOIL	PB	Lead	7439-92-1	4800		µg/kg			DCL		30-Jan-95	200	LEAD BY ATOMIC ABSORPTION 7421
06-Dec-94	190'	B09GF9	SOIL	ALPH	Gross alpha	14127-62-9	4.5		pCi/g			IT		21-Jan-95	6	GROSS ALPHA BY SW846 93-10
06-Dec-94	190'	B09GF9	SOIL	BETA	Gross beta	12587-47-2	16.1		pCi/g			IT		20-Jan-95	3	GROSS BETA BY SW846 93-10
06-Dec-94	190'	B09GF9	SOIL	GAMM	Cesium-137	10045-97-3	-0.0446		pCi/g			IT		27-Jan-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
06-Dec-94	190'	B09GF9	SOIL	GAMM	Cobalt-60	10198-40-0	-0.021		pCi/g			IT		27-Jan-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
06-Dec-94	190'	B09GF9	SOIL	GAMM	Ruthenium-106	13967-48-1	0.246		pCi/g			IT		27-Jan-95	0.85	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
06-Dec-94	190'	B09GF9	SOIL	GAMM	Antimony-125	14234-35-6	-0.0581		pCi/g			IT		27-Jan-95	0.25	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
12-Dec-94	200'	B09GG1	SOIL	ABN	Aldol Condensation Product			160	µg/kg	BJ		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	Aldol Condensation Product			230	µg/kg	BJ		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	Hexanedioic acid bis(2-ethy			230	µg/kg	BJ		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	Phenol 4 4'-(1-methylethyli			630	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	Unknown Acid			250	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	Unknown Acid			440	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	4-Methylphenol	106-44-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	m-Cresol	108-39-4			µg/kg	XU		DCL	14-Jan-95	17-Jan-95	48	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	Phenol	108-95-2			µg/kg	U		DCL	14-Jan-95	17-Jan-95	7.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	Dodecane	112-40-3			µg/kg	U		DCL	14-Jan-95	17-Jan-95	180	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/kg	U		DCL	14-Jan-95	17-Jan-95	11	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/kg	U		DCL	14-Jan-95	17-Jan-95	68	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	2,4-Dichlorophenol	120-83-2			µg/kg	U		DCL	14-Jan-95	17-Jan-95	140	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	Decane	124-18-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	67	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	Tributyl phosphate	126-73-8			µg/kg	U		DCL	14-Jan-95	17-Jan-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	Tetradecane	629-59-4			µg/kg	U		DCL	14-Jan-95	17-Jan-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	Pentachlorophenol	87-86-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	50	SEMI-VOLATILE ORGANIC BY GCMS 8270

See last page for explanation of qualifiers and lab comments.
**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
12-Dec-94	200'	B09GG1	SOIL	ABN	2-Nitrophenol	88-75-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	Naphthalene	91-20-3			µg/kg	U		DCL	14-Jan-95	17-Jan-95	4.7	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	Benzothiazole	95-16-9			µg/kg	U		DCL	14-Jan-95	17-Jan-95	12	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG1	SOIL	ABN	2-Methylphenol	95-48-7			µg/kg	U		DCL	14-Jan-95	17-Jan-95	59	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	2	SOIL	VOCV	Methylenechloride	75-09-2	**		µg/kg			PNL1		19-Dec-94		VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	200'	2	SOIL	VOCV	trans-1,2-Dichloroethylene	156-60-5			µg/kg	U		PNL1		19-Dec-94	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	200'	2	SOIL	VOCV	1,1-Dichloroethane	75-34-3			µg/kg	U		PNL1		19-Dec-94	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	200'	2	SOIL	VOCV	cis-1,2-Dichloroethylene	156-59-2			µg/kg	U		PNL1		19-Dec-94	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	200'	2	SOIL	VOCV	Chloroform	67-66-3			µg/kg	U		PNL1		19-Dec-94	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	200'	2	SOIL	VOCV	1,1,1-Trichloroethane	71-55-6			µg/kg	U		PNL1		19-Dec-94	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	200'	2	SOIL	VOCV	Carbon tetrachloride	56-23-5			µg/kg	U		PNL1		19-Dec-94	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	200'	2	SOIL	VOCV	1,2-Dichloroethane	107-06-2			µg/kg	U		PNL1		19-Dec-94	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	200'	2	SOIL	VOCV	Benzene	71-43-2			µg/kg	U		PNL1		19-Dec-94	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	200'	2	SOIL	VOCV	Trichloroethylene	79-01-6			µg/kg	U		PNL1		19-Dec-94	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	200'	2	SOIL	VOCV	Toluene	108-88-3			µg/kg	U		PNL1		19-Dec-94	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	200'	2	SOIL	VOCV	Tetrachloroethylene	127-18-4			µg/kg	U		PNL1		19-Dec-94	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	200'	2	SOIL	VOCV	Ethylbenzene	100-41-4			µg/kg	U		PNL1		19-Dec-94	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	200'	2	SOIL	VOCV	Xylenes (total)	1330-20-7			µg/kg	U		PNL1		19-Dec-94	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	200'	B09GG1	SOIL	AS	Arsenic	7440-38-2	1300		µg/kg			DCL		30-Jan-95	140	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
12-Dec-94	200'	B09GG1	SOIL	ICP	Aluminum	7429-90-5	6700000		µg/kg			DCL		28-Feb-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Iron	7439-89-6	17000000		µg/kg			DCL		28-Feb-95	940	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Magnesium	7439-95-4	4600000		µg/kg			DCL		28-Feb-95	3000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Manganese	7439-96-5	290000		µg/kg			DCL		28-Feb-95	260	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Nickel	7440-02-0	16000		µg/kg			DCL		28-Feb-95	1600	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Potassium	7440-09-7	1100000		µg/kg			DCL		28-Feb-95	39000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Sodium	7440-23-5	950000		µg/kg			DCL		28-Feb-95	11000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Tin	7440-31-5			µg/kg	U		DCL		28-Feb-95	9500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Barium	7440-39-3	65000		µg/kg			DCL		28-Feb-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Beryllium	7440-41-7	220		µg/kg	L		DCL		28-Feb-95	43	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Cadmium	7440-43-9			µg/kg	U		DCL		28-Feb-95	410	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Chromium	7440-47-3	34000		µg/kg			DCL		28-Feb-95	740	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Cobalt	7440-48-4	11000		µg/kg			DCL		28-Feb-95	680	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Copper	7440-50-8	9400		µg/kg			DCL		28-Feb-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Vanadium	7440-62-2	35000		µg/kg			DCL		28-Feb-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Zinc	7440-66-6	28000		µg/kg			DCL		28-Feb-95	660	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Calcium	7440-70-2	5200000		µg/kg			DCL		28-Feb-95	4400	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Silver	7440-22-4			µg/kg	U	MOL	DCL		28-Feb-95	240	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	ICP	Antimony	7440-36-0			µg/kg	U	MOL	DCL		28-Feb-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG1	SOIL	PB	Lead	7439-92-1	3200		µg/kg			DCL		30-Jan-95	200	LEAD BY ATOMIC ABSORPTION 7421
12-Dec-94	200'	B09GG1	SOIL	ALPH	Gross alpha	14127-62-9	3.43		pCi/g			IT		20-Jan-95	6	GROSS ALPHA BY SW846 93-10
12-Dec-94	200'	B09GG1	SOIL	BETA	Gross beta	12587-47-2	17.5		pCi/g			IT		20-Jan-95	3	GROSS BETA BY SW846 93-10
12-Dec-94	200'	B09GG1	SOIL	GAMM	Cesium-137	10045-97-3	-0.0193		pCi/g			IT		26-Jan-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
12-Dec-94	200'	B09GG1	SOIL	GAMM	Cobalt-60	10198-40-0	-0.00603		pCi/g			IT		26-Jan-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
12-Dec-94	200'	B09GG1	SOIL	GAMM	Ruthenium-106	13967-48-1	0.0827		pCi/g			IT		26-Jan-95	0.85	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
12-Dec-94	200'	B09GG1	SOIL	GAMM	Antimony-125	14234-35-6	0.051		pCi/g			IT		26-Jan-95	0.25	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
12-Dec-94	200'	B09GG2	SOIL	ABN	Aldol Condensation Product			160	µg/kg	BJ		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270

See last page for explanation of qualifiers and lab comments.

**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
12-Dec-94	200'	B09GG2	SOIL	ABN	Aldol Condensation Product			240	µg/kg	BJ		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	Aldol Condensation Product			270	µg/kg	BJ		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	Hexanedioic acid bis(2-ethy			210	µg/kg	BJ		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	Phenol 4 4'-(1-methylethyli			300	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	Unknown Acid			260	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	Unknown Acid			440	µg/kg	J		DCL	14-Jan-95	17-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	4-Methylphenol	106-44-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	m-Cresol	108-39-4			µg/kg	XU		DCL	14-Jan-95	17-Jan-95	48	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	Phenol	108-95-2			µg/kg	U		DCL	14-Jan-95	17-Jan-95	7.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	Dodecane	112-40-3			µg/kg	U		DCL	14-Jan-95	17-Jan-95	180	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/kg	U		DCL	14-Jan-95	17-Jan-95	11	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/kg	U		DCL	14-Jan-95	17-Jan-95	68	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	2,4-Dichlorophenol	120-83-2			µg/kg	U		DCL	14-Jan-95	17-Jan-95	140	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	Decane	124-18-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	67	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	Tributyl phosphate	126-73-8			µg/kg	U		DCL	14-Jan-95	17-Jan-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	Tetradecane	629-59-4			µg/kg	U		DCL	14-Jan-95	17-Jan-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	Pentachlorophenol	87-86-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	50	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	2-Nitrophenol	88-75-5			µg/kg	U		DCL	14-Jan-95	17-Jan-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	Naphthalene	91-20-3			µg/kg	U		DCL	14-Jan-95	17-Jan-95	4.7	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	Benzothiazole	95-16-9			µg/kg	U		DCL	14-Jan-95	17-Jan-95	12	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	ABN	2-Methylphenol	95-48-7			µg/kg	U		DCL	14-Jan-95	17-Jan-95	59	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	200'	B09GG2	SOIL	AS	Arsenic	7440-38-2	960		µg/kg			DCL		30-Jan-95	140	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
12-Dec-94	200'	B09GG2	SOIL	ICP	Aluminum	7429-90-5	8200000		µg/kg			DCL		28-Feb-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Iron	7439-89-6	23000000		µg/kg			DCL		28-Feb-95	940	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Magnesium	7439-95-4	5800000		µg/kg			DCL		28-Feb-95	3000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Manganese	7439-96-5	430000		µg/kg			DCL		28-Feb-95	260	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Nickel	7440-02-0	19000		µg/kg			DCL		28-Feb-95	1600	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Potassium	7440-09-7	1400000		µg/kg			DCL		28-Feb-95	39000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Sodium	7440-23-5	800000		µg/kg			DCL		28-Feb-95	11000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Tin	7440-31-5			µg/kg	U		DCL		28-Feb-95	9500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Barium	7440-39-3	74000		µg/kg			DCL		28-Feb-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Beryllium	7440-41-7	380		µg/kg			DCL		28-Feb-95	43	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Cadmium	7440-43-9			µg/kg	U		DCL		28-Feb-95	410	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Chromium	7440-47-3	32000		µg/kg			DCL		28-Feb-95	740	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Cobalt	7440-48-4	9100		µg/kg			DCL		28-Feb-95	680	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Copper	7440-50-8	17000		µg/kg			DCL		28-Feb-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Vanadium	7440-62-2	54000		µg/kg			DCL		28-Feb-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Zinc	7440-66-6	41000		µg/kg			DCL		28-Feb-95	660	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Calcium	7440-70-2	5800000		µg/kg			DCL		28-Feb-95	4400	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Silver	7440-22-4			µg/kg	U	MOL	DCL		28-Feb-95	240	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	ICP	Antimony	7440-36-0			µg/kg	U	MOL	DCL		28-Feb-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	200'	B09GG2	SOIL	PB	Lead	7439-92-1	3000		µg/kg			DCL		30-Jan-95	200	LEAD BY ATOMIC ABSORPTION 7421
12-Dec-94	200'	B09GG2	SOIL	ALPH	Gross alpha	14127-62-9	7.74		pCi/g			IT		20-Jan-95	6	GROSS ALPHA BY SW846 93-10
12-Dec-94	200'	B09GG2	SOIL	BETA	Gross beta	12587-47-2	16.3		pCi/g			IT		20-Jan-95	3	GROSS BETA BY SW846 93-10
12-Dec-94	200'	B09GG2	SOIL	GAMM	Cesium-137	10045-97-3	-0.042		pCi/g			IT		27-Jan-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
12-Dec-94	200'	B09GG2	SOIL	GAMM	Cobalt-60	10198-40-0	-0.0301		pCi/g			IT		27-Jan-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
12-Dec-94	200'	B09GG2	SOIL	GAMM	Ruthenium-106	13967-48-1	0.108		pCi/g			IT		27-Jan-95	0.85	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
12-Dec-94	200'	B09GG2	SOIL	GAMM	Antimony-125	14234-35-6	0.0748		pCi/g			IT		27-Jan-95	0.25	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE

See last page for explanation of qualifiers and lab comments.
**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
12-Dec-94	210'	B0CVD7	SOIL	ABN	Aldol Condensation Product			900	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	Aldol Condensation Product			2400	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	Aldol Condensation Product			2700	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	Aldol Condensation Product			4600	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	Unknown Acid			1200	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	Unknown Brominated Comopound			820	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	4-Methylphenol	106-44-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	m-Cresol	108-39-4			µg/kg	XU		DCL	07-Mar-95	14-Mar-95	48	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	Phenol	108-95-2			µg/kg	U		DCL	07-Mar-95	14-Mar-95	7.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	Dodecane	112-40-3			µg/kg	U		DCL	07-Mar-95	14-Mar-95	180	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/kg	U		DCL	07-Mar-95	14-Mar-95	11	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/kg	U		DCL	07-Mar-95	14-Mar-95	68	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	2,4-Dichlorophenol	120-83-2			µg/kg	U		DCL	07-Mar-95	14-Mar-95	140	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	Decane	124-18-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	67	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	Tributyl phosphate	126-73-8			µg/kg	U		DCL	07-Mar-95	14-Mar-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	Tetradecane	629-59-4			µg/kg	U		DCL	07-Mar-95	14-Mar-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	Pentachlorophenol	87-86-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	50	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	2-Nitrophenol	88-75-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	Naphthalene	91-20-3			µg/kg	U		DCL	07-Mar-95	14-Mar-95	4.7	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	Benzothiazole	95-16-9			µg/kg	U		DCL	07-Mar-95	14-Mar-95	12	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	B0CVD7	SOIL	ABN	2-Methylphenol	95-48-7			µg/kg	U		DCL	07-Mar-95	14-Mar-95	59	SEMI-VOLATILE ORGANIC BY GCMS 8270
12-Dec-94	210'	3	SOIL	VOCV	Methylenechloride	75-09-2	**		µg/kg			PNL1		19-Dec-94		VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	210'	3	SOIL	VOCV	trans-1,2-Dichloroethylene	156-60-5			µg/kg	U		PNL1		19-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	210'	3	SOIL	VOCV	1,1-Dichloroethane	75-34-3			µg/kg	U		PNL1		19-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	210'	3	SOIL	VOCV	cis-1,2-Dichloroethylene	156-59-2			µg/kg	U		PNL1		19-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	210'	3	SOIL	VOCV	Chloroform	67-66-3	31		µg/kg			PNL1		19-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	210'	3	SOIL	VOCV	1,1,1-Trichloroethane	71-55-6			µg/kg	U		PNL1		19-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	210'	3	SOIL	VOCV	Carbon tetrachloride	56-23-5	55		µg/kg			PNL1		19-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	210'	3	SOIL	VOCV	1,2-Dichloroethane	107-06-2			µg/kg	U		PNL1		19-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	210'	3	SOIL	VOCV	Benzene	71-43-2			µg/kg	U		PNL1		19-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	210'	3	SOIL	VOCV	Trichloroethylene	79-01-6			µg/kg	U		PNL1		19-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	210'	3	SOIL	VOCV	Toluene	108-88-3			µg/kg	U		PNL1		19-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	210'	3	SOIL	VOCV	Tetrachloroethylene	127-18-4			µg/kg	U		PNL1		19-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	210'	3	SOIL	VOCV	Ethylbenzene	100-41-4			µg/kg	U		PNL1		19-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	210'	3	SOIL	VOCV	Xylenes (total)	1330-20-7			µg/kg	U		PNL1		19-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
12-Dec-94	210'	B0CVD7	SOIL	AS	Arsenic	7440-38-2	940		µg/kg			DCL		13-Mar-95	140	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
12-Dec-94	210'	B0CVD7	SOIL	ICP	Magnesium	7439-95-4	3000000		µg/kg			DCL		23-Apr-95	3000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Nickel	7440-02-0	13000		µg/kg			DCL		23-Apr-95	1600	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Potassium	7440-09-7	880000		µg/kg			DCL		23-Apr-95	39000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Silver	7440-22-4			µg/kg	U		DCL		23-Apr-95	240	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Sodium	7440-23-5	880000		µg/kg			DCL		23-Apr-95	11000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Tin	7440-31-5			µg/kg	U		DCL		23-Apr-95	9500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Barium	7440-39-3	90000		µg/kg			DCL		23-Apr-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Beryllium	7440-41-7	190		µg/kg	L		DCL		23-Apr-95	43	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Cadmium	7440-43-9			µg/kg	U		DCL		23-Apr-95	410	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Cobalt	7440-48-4	4900		µg/kg			DCL		23-Apr-95	680	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Copper	7440-50-8	12000		µg/kg			DCL		23-Apr-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Vanadium	7440-62-2	44000		µg/kg			DCL		23-Apr-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Zinc	7440-66-6	31000		µg/kg			DCL		23-Apr-95	660	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Calcium	7440-70-2	4100000		µg/kg			DCL		23-Apr-95	4400	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Antimony	7440-36-0			µg/kg	U	MOL	DCL		23-Apr-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010

See last page for explanation of qualifiers and lab comments.
**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
12-Dec-94	210'	B0CVD7	SOIL	ICP	Chromium	7440-47-3	28000		µg/kg		MOL	DCL		23-Apr-95	740	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Aluminum	7429-90-5	7600000		µg/kg		MOL&XYZ	DCL		23-Apr-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Iron	7439-89-6	15000000		µg/kg		MOL&XYZ	DCL		23-Apr-95	940	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	ICP	Manganese	7439-96-5	210000		µg/kg		MOL&XYZ	DCL		23-Apr-95	260	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
12-Dec-94	210'	B0CVD7	SOIL	PB	Lead	7439-92-1	2400		µg/kg			DCL		13-Mar-95	200	LEAD BY ATOMIC ABSORPTION 7421
12-Dec-94	210'	B0CVD7	SOIL	ALPH	Gross alpha	14127-62-9	1.63		pCi/g			IT		08-Mar-95	6	GROSS ALPHA BY SW846 93-10
12-Dec-94	210'	B0CVD7	SOIL	BETA	Gross beta	12587-47-2	16.8		pCi/g			IT		10-Mar-95	3	GROSS BETA BY SW846 93-10
12-Dec-94	210'	B0CVD7	SOIL	GAMM	Cesium-137	10045-97-3	-0.0035		pCi/g			IT		08-Mar-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
12-Dec-94	210'	B0CVD7	SOIL	GAMM	Cobalt-60	10198-40-0	0.0241		pCi/g			IT		08-Mar-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
12-Dec-94	210'	B0CVD7	SOIL	GAMM	Ra-224	13233-32-4	0.515		pCi/g			IT		08-Mar-95		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
12-Dec-94	210'	B0CVD7	SOIL	GAMM	Ruthenium-106	13967-48-1	0.0492		pCi/g			IT		08-Mar-95	0.85	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
12-Dec-94	210'	B0CVD7	SOIL	GAMM	Ra-226	13982-63-3	0.43		pCi/g			IT		08-Mar-95		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
12-Dec-94	210'	B0CVD7	SOIL	GAMM	Antimony-125	14234-35-6	0.0623		pCi/g			IT		08-Mar-95	0.25	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
14-Dec-94	220'	B0CVD8	SOIL	ABN	Aldol Condensation Product			160	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Aldol Condensation Product			180	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Aldol Condensation Product			450	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Aldol Condensation Product			560	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Aldol Condensation Product			890	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Unknown Acid			230	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Unknown Acid			310	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Unknown Brominated Comopound			220	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	4-Methylphenol	106-44-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	m-Cresol	108-39-4			µg/kg	XU		DCL	07-Mar-95	14-Mar-95	48	SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Phenol	108-95-2			µg/kg	U		DCL	07-Mar-95	14-Mar-95	7.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Dodecane	112-40-3			µg/kg	U		DCL	07-Mar-95	14-Mar-95	180	SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/kg	U		DCL	07-Mar-95	14-Mar-95	11	SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/kg	U		DCL	07-Mar-95	14-Mar-95	68	SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	2,4-Dichlorophenol	120-83-2			µg/kg	U		DCL	07-Mar-95	14-Mar-95	140	SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Decane	124-18-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	67	SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Tributyl phosphate	126-73-8			µg/kg	U		DCL	07-Mar-95	14-Mar-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Tetradecane	629-59-4			µg/kg	U		DCL	07-Mar-95	14-Mar-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Pentachlorophenol	87-86-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	50	SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	2-Nitrophenol	88-75-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Naphthalene	91-20-3			µg/kg	U		DCL	07-Mar-95	14-Mar-95	4.7	SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	Benzothiazole	95-16-9			µg/kg	U		DCL	07-Mar-95	14-Mar-95	12	SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	B0CVD8	SOIL	ABN	2-Methylphenol	95-48-7			µg/kg	U		DCL	07-Mar-95	14-Mar-95	59	SEMI-VOLATILE ORGANIC BY GCMS 8270
14-Dec-94	220'	4	SOIL	VOCV	Methylenechloride	75-09-2	**		µg/kg			PNL1		28-Dec-94		VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
14-Dec-94	220'	4	SOIL	VOCV	trans-1,2-Dichloroethylene	156-60-5			µg/kg	U		PNL1		28-Dec-94	30	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
14-Dec-94	220'	4	SOIL	VOCV	1,1-Dichloroethane	75-34-3			µg/kg	U		PNL1		28-Dec-94	30	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
14-Dec-94	220'	4	SOIL	VOCV	cis-1,2-Dichloroethylene	156-59-2			µg/kg	U		PNL1		28-Dec-94	30	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
14-Dec-94	220'	4	SOIL	VOCV	Chloroform	67-66-3		28	µg/kg	U		PNL1		28-Dec-94	30	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
14-Dec-94	220'	4	SOIL	VOCV	1,1,1-Trichloroethane	71-55-6			µg/kg	U		PNL1		28-Dec-94	30	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
14-Dec-94	220'	4	SOIL	VOCV	Carbon tetrachloride	56-23-5		12	µg/kg	U		PNL1		28-Dec-94	30	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
14-Dec-94	220'	4	SOIL	VOCV	1,2-Dichloroethane	107-06-2			µg/kg	U		PNL1		28-Dec-94	30	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
14-Dec-94	220'	4	SOIL	VOCV	Benzene	71-43-2			µg/kg	U		PNL1		28-Dec-94	30	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
14-Dec-94	220'	4	SOIL	VOCV	Trichloroethylene	79-01-6			µg/kg	U		PNL1		28-Dec-94	30	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
14-Dec-94	220'	4	SOIL	VOCV	Toluene	108-88-3			µg/kg	U		PNL1		28-Dec-94	30	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
14-Dec-94	220'	4	SOIL	VOCV	Tetrachloroethylene	127-18-4			µg/kg	U		PNL1		28-Dec-94	30	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO

See last page for explanation of qualifiers and lab comments.
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IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
14-Dec-94	220'	4	SOIL	VOCV	Ethylbenzene	100-41-4			µg/kg	U		PNL1		28-Dec-94	30	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
14-Dec-94	220'	4	SOIL	VOCV	Xylenes (total)	1330-20-7			µg/kg	U		PNL1		28-Dec-94	30	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
14-Dec-94	220'	B0CVD8	SOIL	AS	Arsenic	7440-38-2	860		µg/kg			DCL		13-Mar-95	140	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
14-Dec-94	220'	B0CVD8	SOIL	ICP	Magnesium	7439-95-4	1800000		µg/kg			DCL		23-Apr-95	3000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Nickel	7440-02-0	29000		µg/kg			DCL		23-Apr-95	1600	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Potassium	7440-09-7	560000		µg/kg			DCL		23-Apr-95	39000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Silver	7440-22-4			µg/kg	U		DCL		23-Apr-95	240	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Sodium	7440-23-5	250000		µg/kg			DCL		23-Apr-95	11000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Tin	7440-31-5			µg/kg	U		DCL		23-Apr-95	9500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Barium	7440-39-3	30000		µg/kg			DCL		23-Apr-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Beryllium	7440-41-7	240		µg/kg	L		DCL		23-Apr-95	43	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Cadmium	7440-43-9			µg/kg	U		DCL		23-Apr-95	410	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Cobalt	7440-48-4	2300		µg/kg			DCL		23-Apr-95	680	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Copper	7440-50-8	8200		µg/kg			DCL		23-Apr-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Vanadium	7440-62-2	20000		µg/kg			DCL		23-Apr-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Zinc	7440-66-6	29000		µg/kg			DCL		23-Apr-95	660	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Calcium	7440-70-2	2300000		µg/kg			DCL		23-Apr-95	4400	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Antimony	7440-36-0			µg/kg	U	MOL	DCL		23-Apr-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Chromium	7440-47-3	53000		µg/kg		MOL	DCL		23-Apr-95	740	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Aluminum	7429-90-5	4200000		µg/kg		MOL&XYZ	DCL		23-Apr-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Iron	7439-89-6	9200000		µg/kg		MOL&XYZ	DCL		23-Apr-95	940	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	ICP	Manganese	7439-96-5	110000		µg/kg		MOL&XYZ	DCL		23-Apr-95	260	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
14-Dec-94	220'	B0CVD8	SOIL	PB	Lead	7439-92-1	2700		µg/kg			DCL		13-Mar-95	200	LEAD BY ATOMIC ABSORPTION 7421
14-Dec-94	220'	B0CVD8	SOIL	ALPH	Gross alpha	14127-62-9	8.87		pCi/g			IT		08-Mar-95	6	GROSS ALPHA BY SW846 93-10
14-Dec-94	220'	B0CVD8	SOIL	BETA	Gross beta	12587-47-2	27.9		pCi/g			IT		10-Mar-95	3	GROSS BETA BY SW846 93-10
14-Dec-94	220'	B0CVD8	SOIL	GAMM	Cesium-137	10045-97-3	0.00476		pCi/g			IT		08-Mar-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
14-Dec-94	220'	B0CVD8	SOIL	GAMM	Cobalt-60	10198-40-0	0.0485		pCi/g			IT		08-Mar-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
14-Dec-94	220'	B0CVD8	SOIL	GAMM	Ra-224	13233-32-4	0.9		pCi/g			IT		08-Mar-95		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
14-Dec-94	220'	B0CVD8	SOIL	GAMM	Ruthenium-106	13967-48-1	-0.408		pCi/g			IT		08-Mar-95	0.85	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
14-Dec-94	220'	B0CVD8	SOIL	GAMM	Ra-226	13982-63-3	0.743		pCi/g			IT		08-Mar-95		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
14-Dec-94	220'	B0CVD8	SOIL	GAMM	Antimony-125	14234-35-6	-0.0857		pCi/g			IT		08-Mar-95	0.25	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
15-Dec-94	220'	B09GG5	WATER	ABN	4-Methylphenol	106-44-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	7	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	220'	B09GG5	WATER	ABN	m-Cresol	108-39-4			µg/L	XU		DCL	14-Jan-95	19-Jan-95	2.2	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	220'	B09GG5	WATER	ABN	Phenol	108-95-2			µg/L	U		DCL	14-Jan-95	19-Jan-95	0.54	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	220'	B09GG5	WATER	ABN	Dodecane	112-40-3			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	220'	B09GG5	WATER	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/L	U		DCL	14-Jan-95	19-Jan-95	0.61	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	220'	B09GG5	WATER	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/L	U		DCL	14-Jan-95	19-Jan-95	5.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	220'	B09GG5	WATER	ABN	2,4-Dichlorophenol	120-83-2			µg/L	U		DCL	14-Jan-95	19-Jan-95	4	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	220'	B09GG5	WATER	ABN	Decane	124-18-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	220'	B09GG5	WATER	ABN	Tributyl phosphate	126-73-8			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	220'	B09GG5	WATER	ABN	Tetradecane	629-59-4			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.6	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	220'	B09GG5	WATER	ABN	Pentachlorophenol	87-86-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	8.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	220'	B09GG5	WATER	ABN	2-Nitrophenol	88-75-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	220'	B09GG5	WATER	ABN	Naphthalene	91-20-3			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.2	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	220'	B09GG5	WATER	ABN	Benzothiazole	95-16-9			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	220'	B09GG5	WATER	ABN	2-Methylphenol	95-48-7			µg/L	U		DCL	14-Jan-95	19-Jan-95	5.1	SEMI-VOLATILE ORGANIC BY GCMS 8270

See last page for explanation of qualifiers and lab comments.
**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
15-Dec-94	220'	11	WATER	VOCV	Methylenechloride	75-09-2	4.7		µg/L			PNL1		19-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	220'	11	WATER	VOCV	trans-1,2-Dichloroethylene	156-60-5			µg/L	U		PNL1		19-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	220'	11	WATER	VOCV	1,1-Dichloroethane	75-34-3			µg/L	U		PNL1		19-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	220'	11	WATER	VOCV	cis-1,2-Dichloroethylene	156-59-2			µg/L	U		PNL1		19-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	220'	11	WATER	VOCV	Chloroform	67-66-3	297		µg/L	D	1:20	PNL1		19-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	220'	11	WATER	VOCV	1,1,1-Trichloroethane	71-55-6	1		µg/L			PNL1		19-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	220'	11	WATER	VOCV	Carbon tetrachloride	56-23-5	964		µg/L	D	1:20	PNL1		19-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	220'	11	WATER	VOCV	1,2-Dichloroethane	107-06-2			µg/L	U		PNL1		19-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	220'	11	WATER	VOCV	Benzene	71-43-2	0.5		µg/L			PNL1		19-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	220'	11	WATER	VOCV	Trichloroethylene	79-01-6	1.7		µg/L			PNL1		19-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	220'	11	WATER	VOCV	Toluene	108-88-3			µg/L	U		PNL1		19-Dec-94	1	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	220'	11	WATER	VOCV	Tetrachloroethylene	127-18-4	15		µg/L			PNL1		19-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	220'	11	WATER	VOCV	Ethylbenzene	100-41-4			µg/L	U		PNL1		19-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	220'	11	WATER	VOCV	Xylenes (total)	1330-20-7			µg/L	U		PNL1		19-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	220'	11	WATER	VOCV	Acetone	67-64-1		10	µg/L	J		PNL1		19-Dec-94		VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	220'	B09GG5	WATER	AS	Arsenic	7440-38-2			µg/L	U		DCL		23-Jan-95	2.8	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
15-Dec-94	220'	B09GG5	WATER	ICP	Aluminum	7429-90-5	5100		µg/L			DCL		09-Feb-95	26	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Iron	7439-89-6	14000		µg/L	B		DCL		09-Feb-95	11	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Magnesium	7439-95-4	13000		µg/L			DCL		09-Feb-95	23	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Manganese	7439-96-5	470		µg/L			DCL		09-Feb-95	0.224882	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Nickel	7440-02-0			µg/L	U		DCL		09-Feb-95	13	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Potassium	7440-09-7	7600		µg/L			DCL		09-Feb-95	850	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Sodium	7440-23-5	27000		µg/L			DCL		09-Feb-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Tin	7440-31-5			µg/L	U		DCL		09-Feb-95	69	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Barium	7440-39-3	91		µg/L			DCL		09-Feb-95	0.59	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Beryllium	7440-41-7	0.76		µg/L	BL		DCL		09-Feb-95	0.17	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Cadmium	7440-43-9			µg/L	U		DCL		09-Feb-95	3.3	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Chromium	7440-47-3	53		µg/L			DCL		09-Feb-95	4.5	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Cobalt	7440-48-4			µg/L	U		DCL		09-Feb-95	5.9	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Copper	7440-50-8	5.8		µg/L	L		DCL		09-Feb-95	4.1	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Vanadium	7440-62-2	14		µg/L	L		DCL		09-Feb-95	6.6	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Zinc	7440-66-6	63		µg/L			DCL		09-Feb-95	6.3	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Calcium	7440-70-2	44000		µg/L			DCL		09-Feb-95	34	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Silver	7440-22-4			µg/L	U	MOL	DCL		09-Feb-95	3.6	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	ICP	Antimony	7440-36-0			µg/L	U	MOL	DCL		09-Feb-95	62	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	220'	B09GG5	WATER	PB	Lead	7439-92-1	2.7		µg/L	L		DCL		23-Jan-95	1.5	LEAD BY ATOMIC ABSORPTION 7421
15-Dec-94	220'	B09GG5	WATER	ALPH	Gross alpha	14127-62-9	0.727		pCi/L		RF	IT		24-Jan-95	4	GROSS ALPHA BY SW846 93-10
15-Dec-94	220'	B09GG5	WATER	BETA	Gross beta	12587-47-2	9.02		pCi/L		RF	IT		24-Jan-95	8	GROSS BETA BY SW846 93-10
15-Dec-94	220'	B09GG5	WATER	GAMM	Cesium-137	10045-97-3	-8.38		pCi/L			IT		30-Jan-95	20	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
15-Dec-94	220'	B09GG5	WATER	GAMM	Cobalt-60	10198-40-0	11		pCi/L			IT		30-Jan-95	23	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
15-Dec-94	220'	B09GG5	WATER	GAMM	Ruthenium-106	13967-48-1	-18.8		pCi/L			IT		30-Jan-95	173	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
15-Dec-94	220'	B09GG5	WATER	GAMM	Antimony-125	14234-35-6	9.34		pCi/L			IT		30-Jan-95	47	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
15-Dec-94	225'	B09GG6	WATER	ABN	4-Methylphenol	106-44-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	7	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	225'	B09GG6	WATER	ABN	m-Cresol	108-39-4			µg/L	XU		DCL	14-Jan-95	19-Jan-95	2.2	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	225'	B09GG6	WATER	ABN	Phenol	108-95-2			µg/L	U		DCL	14-Jan-95	19-Jan-95	0.54	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	225'	B09GG6	WATER	ABN	Dodecane	112-40-3			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	225'	B09GG6	WATER	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/L	U		DCL	14-Jan-95	19-Jan-95	0.61	SEMI-VOLATILE ORGANIC BY GCMS 8270

See last page for explanation of qualifiers and lab comments.
**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
15-Dec-94	225'	B09GG6	WATER	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/L	U		DCL	14-Jan-95	19-Jan-95	5.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	225'	B09GG6	WATER	ABN	2,4-Dichlorophenol	120-83-2			µg/L	U		DCL	14-Jan-95	19-Jan-95	4	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	225'	B09GG6	WATER	ABN	Decane	124-18-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	225'	B09GG6	WATER	ABN	Tributyl phosphate	126-73-8			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	225'	B09GG6	WATER	ABN	Tetradecane	629-59-4			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.6	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	225'	B09GG6	WATER	ABN	Pentachlorophenol	87-86-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	8.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	225'	B09GG6	WATER	ABN	2-Nitrophenol	88-75-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	225'	B09GG6	WATER	ABN	Naphthalene	91-20-3			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.2	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	225'	B09GG6	WATER	ABN	Benzothiazole	95-16-9			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
15-Dec-94	225'	B09GG6	WATER	ABN	2-Methylphenol	95-48-7			µg/L	U		DCL	14-Jan-95	19-Jan-95	5.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	225'	12	WATER	VOCV	Methylenechloride	75-09-2	8.1		µg/L			PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	225'	12	WATER	VOCV	trans-1,2-Dichloroethylene	156-60-5			µg/L	U		PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	225'	12	WATER	VOCV	1,1-Dichloroethane	75-34-3			µg/L	U		PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	225'	12	WATER	VOCV	cis-1,2-Dichloroethylene	156-59-2			µg/L	U		PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	225'	12	WATER	VOCV	Chloroform	67-66-3	450		µg/L	D	1:10	PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	225'	12	WATER	VOCV	1,1,1-Trichloroethane	71-55-6			µg/L			PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	225'	12	WATER	VOCV	Carbon tetrachloride	56-23-5	75		µg/L	D	1:10	PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	225'	12	WATER	VOCV	1,2-Dichloroethane	107-06-2			µg/L	U		PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	225'	12	WATER	VOCV	Benzene	71-43-2	0.6		µg/L			PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	225'	12	WATER	VOCV	Trichloroethylene	79-01-6	0.9		µg/L			PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	225'	12	WATER	VOCV	Toluene	108-88-3			µg/L	U		PNL1		27-Dec-94	1	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	225'	12	WATER	VOCV	Tetrachloroethylene	127-18-4	1.1		µg/L			PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	225'	12	WATER	VOCV	Ethylbenzene	100-41-4			µg/L	U		PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	225'	12	WATER	VOCV	Xylenes (total)	1330-20-7			µg/L	U		PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	225'	12	WATER	VOCV	Acetone	67-64-1		21	µg/L	J		PNL1		27-Dec-94		VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	225'	12	WATER	VOCV	2-Butanone	78-93-3		5	µg/L	J		PNL1		27-Dec-94		VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
15-Dec-94	225'	B09GG6	WATER	AS	Arsenic	7440-38-2			µg/L	U		DCL		23-Jan-95	2.8	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
15-Dec-94	225'	B09GG6	WATER	ICP	Aluminum	7429-90-5	5500		µg/L			DCL		09-Feb-95	26	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Iron	7439-89-6	15000		µg/L	B		DCL		09-Feb-95	11	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Magnesium	7439-95-4	13000		µg/L			DCL		09-Feb-95	23	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Manganese	7439-96-5	480		µg/L			DCL		09-Feb-95	0.224882	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Nickel	7440-02-0			µg/L	U		DCL		09-Feb-95	13	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Potassium	7440-09-7	7500		µg/L			DCL		09-Feb-95	850	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Sodium	7440-23-5	26000		µg/L			DCL		09-Feb-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Tin	7440-31-5			µg/L	U		DCL		09-Feb-95	69	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Barium	7440-39-3	94		µg/L			DCL		09-Feb-95	0.59	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Beryllium	7440-41-7	0.67		µg/L	BL		DCL		09-Feb-95	0.17	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Cadmium	7440-43-9			µg/L	U		DCL		09-Feb-95	3.3	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Chromium	7440-47-3	56		µg/L			DCL		09-Feb-95	4.5	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Cobalt	7440-48-4			µg/L	U		DCL		09-Feb-95	5.9	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Copper	7440-50-8	7.4		µg/L	L		DCL		09-Feb-95	4.1	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Vanadium	7440-62-2	14		µg/L	L		DCL		09-Feb-95	6.6	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Zinc	7440-66-6	67		µg/L			DCL		09-Feb-95	6.3	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Calcium	7440-70-2	44000		µg/L			DCL		09-Feb-95	34	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Silver	7440-22-4			µg/L	U	MOL	DCL		09-Feb-95	3.6	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	ICP	Antimony	7440-36-0			µg/L	U	MOL	DCL		09-Feb-95	62	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
15-Dec-94	225'	B09GG6	WATER	PB	Lead	7439-92-1	2.6		µg/L	L		DCL		23-Jan-95	1.5	LEAD BY ATOMIC ABSORPTION 7421
15-Dec-94	225'	B09GG6	WATER	ALPH	Gross alpha	14127-62-9	0.818		pCi/L		RF	IT		24-Jan-95	4	GROSS ALPHA BY SW846 93-10
15-Dec-94	225'	B09GG6	WATER	BETA	Gross beta	12587-47-2	8.16		pCi/L		RF	IT		24-Jan-95	8	GROSS BETA BY SW846 93-10

See last page for explanation of qualifiers and lab comments.
**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
15-Dec-94	225'	B09GG6	WATER	GAMM	Cesium-137	10045-97-3	4.08		pCi/L			IT		30-Jan-95	20	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
15-Dec-94	225'	B09GG6	WATER	GAMM	Cobalt-60	10198-40-0	-4.87		pCi/L			IT		30-Jan-95	23	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
15-Dec-94	225'	B09GG6	WATER	GAMM	Ruthenium-106	13967-48-1	14		pCi/L			IT		30-Jan-95	173	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
15-Dec-94	225'	B09GG6	WATER	GAMM	Antimony-125	14234-35-6	8.61		pCi/L			IT		30-Jan-95	47	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
16-Dec-94	230'	B0CVD9	SOIL	ABN	Aldol Condensation Product			250	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	Aldol Condensation Product			430	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	Aldol Condensation Product			490	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	Aldol Condensation Product			840	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	Unknown Brominated Comopound			220	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	4-Methylphenol	106-44-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	m-Cresol	108-39-4			µg/kg	XU		DCL	07-Mar-95	14-Mar-95	48	SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	Phenol	108-95-2			µg/kg	U		DCL	07-Mar-95	14-Mar-95	7.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	Dodecane	112-40-3			µg/kg	U		DCL	07-Mar-95	14-Mar-95	180	SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/kg	U		DCL	07-Mar-95	14-Mar-95	11	SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/kg	U		DCL	07-Mar-95	14-Mar-95	68	SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	2,4-Dichlorophenol	120-83-2			µg/kg	U		DCL	07-Mar-95	14-Mar-95	140	SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	Decane	124-18-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	67	SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	Tributyl phosphate	126-73-8			µg/kg	U		DCL	07-Mar-95	14-Mar-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	Tetradecane	629-59-4			µg/kg	U		DCL	07-Mar-95	14-Mar-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	Pentachlorophenol	87-86-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	50	SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	2-Nitrophenol	88-75-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	Naphthalene	91-20-3			µg/kg	U		DCL	07-Mar-95	14-Mar-95	4.7	SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	Benzothiazole	95-16-9			µg/kg	U		DCL	07-Mar-95	14-Mar-95	12	SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	B0CVD9	SOIL	ABN	2-Methylphenol	95-48-7			µg/kg	U		DCL	07-Mar-95	14-Mar-95	59	SEMI-VOLATILE ORGANIC BY GCMS 8270
16-Dec-94	230'	5	SOIL	VOCV	Methylenechloride	75-09-2	**		µg/kg			PNL1		28-Dec-94		VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
16-Dec-94	230'	5	SOIL	VOCV	trans-1,2-Dichloroethylene	156-60-5			µg/kg	U		PNL1		28-Dec-94	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
16-Dec-94	230'	5	SOIL	VOCV	1,1-Dichloroethane	75-34-3			µg/kg	U		PNL1		28-Dec-94	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
16-Dec-94	230'	5	SOIL	VOCV	cis-1,2-Dichloroethylene	156-59-2			µg/kg	U		PNL1		28-Dec-94	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
16-Dec-94	230'	5	SOIL	VOCV	Chloroform	67-66-3	28		µg/kg			PNL1		28-Dec-94	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
16-Dec-94	230'	5	SOIL	VOCV	1,1,1-Trichloroethane	71-55-6			µg/kg	U		PNL1		28-Dec-94	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
16-Dec-94	230'	5	SOIL	VOCV	Carbon tetrachloride	56-23-5		6	µg/kg	U		PNL1		28-Dec-94	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
16-Dec-94	230'	5	SOIL	VOCV	1,2-Dichloroethane	107-06-2			µg/kg	U		PNL1		28-Dec-94	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
16-Dec-94	230'	5	SOIL	VOCV	Benzene	71-43-2			µg/kg	U		PNL1		28-Dec-94	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
16-Dec-94	230'	5	SOIL	VOCV	Trichloroethylene	79-01-6			µg/kg	U		PNL1		28-Dec-94	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
16-Dec-94	230'	5	SOIL	VOCV	Toluene	108-88-3	14		µg/kg			PNL1		28-Dec-94	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
16-Dec-94	230'	5	SOIL	VOCV	Tetrachloroethylene	127-18-4			µg/kg	U		PNL1		28-Dec-94	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
16-Dec-94	230'	5	SOIL	VOCV	Ethylbenzene	100-41-4			µg/kg	U		PNL1		28-Dec-94	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
16-Dec-94	230'	5	SOIL	VOCV	Xylenes (total)	1330-20-7			µg/kg	U		PNL1		28-Dec-94	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
16-Dec-94	230'	B0CVD9	SOIL	AS	Arsenic	7440-38-2	2200		µg/kg			DCL		13-Mar-95	140	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
16-Dec-94	230'	B0CVD9	SOIL	ICP	Magnesium	7439-95-4	2800000		µg/kg			DCL		23-Apr-95	3000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Nickel	7440-02-0	8500		µg/kg			DCL		23-Apr-95	1600	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Potassium	7440-09-7	860000		µg/kg			DCL		23-Apr-95	39000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Silver	7440-22-4			µg/kg	U		DCL		23-Apr-95	240	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Sodium	7440-23-5	360000		µg/kg			DCL		23-Apr-95	11000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Tin	7440-31-5			µg/kg	U		DCL		23-Apr-95	9500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Barium	7440-39-3	94000		µg/kg			DCL		23-Apr-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Beryllium	7440-41-7	160		µg/kg	L		DCL		23-Apr-95	43	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Cadmium	7440-43-9			µg/kg	U		DCL		23-Apr-95	410	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Cobalt	7440-48-4	4200		µg/kg			DCL		23-Apr-95	680	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010

See last page for explanation of qualifiers and lab comments.

**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
16-Dec-94	230'	B0CVD9	SOIL	ICP	Copper	7440-50-8	10000		µg/kg			DCL		23-Apr-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Vanadium	7440-62-2	31000		µg/kg			DCL		23-Apr-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Zinc	7440-66-6	32000		µg/kg			DCL		23-Apr-95	660	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Calcium	7440-70-2	3500000		µg/kg			DCL		23-Apr-95	4400	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Antimony	7440-36-0			µg/kg	U	MOL	DCL		23-Apr-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Chromium	7440-47-3	22000		µg/kg		MOL	DCL		23-Apr-95	740	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Aluminum	7429-90-5	6500000		µg/kg		MOL&XYZ	DCL		23-Apr-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Iron	7439-89-6	14000000		µg/kg		MOL&XYZ	DCL		23-Apr-95	940	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	ICP	Manganese	7439-96-5	190000		µg/kg		MOL&XYZ	DCL		23-Apr-95	260	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
16-Dec-94	230'	B0CVD9	SOIL	PB	Lead	7439-92-1	2300		µg/kg			DCL		13-Mar-95	200	LEAD BY ATOMIC ABSORPTION 7421
16-Dec-94	230'	B0CVD9	SOIL	ALPH	Gross alpha	14127-62-9	5.88		pCi/g			IT		08-Mar-95	6	GROSS ALPHA BY SW846 93-10
16-Dec-94	230'	B0CVD9	SOIL	BETA	Gross beta	12587-47-2	16.4		pCi/g			IT		10-Mar-95	3	GROSS BETA BY SW846 93-10
16-Dec-94	230'	B0CVD9	SOIL	GAMM	Cesium-137	10045-97-3	-0.00188		pCi/g			IT		08-Mar-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
16-Dec-94	230'	B0CVD9	SOIL	GAMM	Cobalt-60	10198-40-0	0.00539		pCi/g			IT		08-Mar-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
16-Dec-94	230'	B0CVD9	SOIL	GAMM	Ra-224	13233-32-4	0.626		pCi/g			IT		08-Mar-95		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
16-Dec-94	230'	B0CVD9	SOIL	GAMM	Ruthenium-106	13967-48-1	0.111		pCi/g			IT		08-Mar-95	0.85	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
16-Dec-94	230'	B0CVD9	SOIL	GAMM	Ra-226	13982-63-3	0.336		pCi/g			IT		08-Mar-95		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
16-Dec-94	230'	B0CVD9	SOIL	GAMM	Antimony-125	14234-35-6	0.115		pCi/g			IT		08-Mar-95	0.25	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
17-Dec-94	235'	B09GH0	WATER	ABN	Chlorinated oxyhydrocarbon			27	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	Cyclic Nitrogen Compound			9.6	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	Cyclic Nitrogen Compound			15	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	Unknown Acid			8	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	Unknown Alcohol			15	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	4-Methylphenol	106-44-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	7	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	m-Cresol	108-39-4			µg/L	XU		DCL	14-Jan-95	19-Jan-95	2.2	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	Phenol	108-95-2			µg/L	U		DCL	14-Jan-95	19-Jan-95	0.54	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	Dodecane	112-40-3			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/L	U		DCL	14-Jan-95	19-Jan-95	0.61	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/L	U		DCL	14-Jan-95	19-Jan-95	5.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	2,4-Dichlorophenol	120-83-2			µg/L	U		DCL	14-Jan-95	19-Jan-95	4	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	Decane	124-18-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	Tributyl phosphate	126-73-8			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	Tetradecane	629-59-4			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.6	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	Pentachlorophenol	87-86-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	8.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	2-Nitrophenol	88-75-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	Naphthalene	91-20-3			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.2	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	Benzothiazole	95-16-9			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	ABN	2-Methylphenol	95-48-7			µg/L	U		DCL	14-Jan-95	19-Jan-95	5.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	235'	B09GH0	WATER	AS	Arsenic	7440-38-2			µg/L	U		DCL		23-Jan-95	2.8	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
17-Dec-94	235'	B09GH0	WATER	ICP	Aluminum	7429-90-5	10000		µg/L			DCL		09-Feb-95	26	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Iron	7439-89-6	110000		µg/L	B		DCL		09-Feb-95	11	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Magnesium	7439-95-4	12000		µg/L			DCL		09-Feb-95	23	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Manganese	7439-96-5	1200		µg/L			DCL		09-Feb-95	0.224882	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Nickel	7440-02-0	31		µg/L			DCL		09-Feb-95	13	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Potassium	7440-09-7	7900		µg/L			DCL		09-Feb-95	850	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Sodium	7440-23-5	31000		µg/L			DCL		09-Feb-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Tin	7440-31-5			µg/L	U		DCL		09-Feb-95	69	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010

See last page for explanation of qualifiers and lab comments.

**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
17-Dec-94	235'	B09GH0	WATER	ICP	Barium	7440-39-3	120		µg/L			DCL		09-Feb-95	0.59	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Beryllium	7440-41-7			µg/L	U		DCL		09-Feb-95	0.17	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Cadmium	7440-43-9			µg/L	U		DCL		09-Feb-95	3.3	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Chromium	7440-47-3	280		µg/L			DCL		09-Feb-95	4.5	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Cobalt	7440-48-4	6.7		µg/L	L		DCL		09-Feb-95	5.9	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Copper	7440-50-8	16		µg/L	L		DCL		09-Feb-95	4.1	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Vanadium	7440-62-2	38		µg/L			DCL		09-Feb-95	6.6	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Zinc	7440-66-6	110		µg/L			DCL		09-Feb-95	6.3	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Calcium	7440-70-2	36000		µg/L			DCL		09-Feb-95	34	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Silver	7440-22-4			µg/L	U	MOL	DCL		09-Feb-95	3.6	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	ICP	Antimony	7440-36-0			µg/L	U	MOL	DCL		09-Feb-95	62	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	235'	B09GH0	WATER	PB	Lead	7439-92-1	8.4		µg/L			DCL		23-Jan-95	1.5	LEAD BY ATOMIC ABSORPTION 7421
17-Dec-94	235'	B09GH0	WATER	ALPH	Gross alpha	14127-62-9	1.03		pCi/L		RF	IT		24-Jan-95	4	GROSS ALPHA BY SW846 93-10
17-Dec-94	235'	B09GH0	WATER	BETA	Gross beta	12587-47-2	7.6		pCi/L		RF	IT		24-Jan-95	8	GROSS BETA BY SW846 93-10
17-Dec-94	235'	B09GH0	WATER	GAMM	Cesium-137	10045-97-3	-2.66		pCi/L			IT		30-Jan-95	20	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
17-Dec-94	235'	B09GH0	WATER	GAMM	Cobalt-60	10198-40-0	-3		pCi/L			IT		30-Jan-95	23	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
17-Dec-94	235'	B09GH0	WATER	GAMM	Ruthenium-106	13967-48-1	11.4		pCi/L			IT		30-Jan-95	173	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
17-Dec-94	235'	B09GH0	WATER	GAMM	Antimony-125	14234-35-6	0		pCi/L			IT		30-Jan-95	47	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
17-Dec-94	240'	B0CVF0	SOIL	ABN	Adipic acid ester			190	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Aldol Condensation Product			180	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Aldol Condensation Product			320	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Aldol Condensation Product			390	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Aldol Condensation Product			640	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Unk long chain oxyhydrocarbo			360	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Unknown Acid			190	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Unknown Acid			340	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Unknown Acid			2100	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Unknown Alkyl Phenol			160	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Unknown Brominated Comopound			260	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	4-Methylphenol	106-44-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	m-Cresol	108-39-4			µg/kg	XU		DCL	07-Mar-95	14-Mar-95	48	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Phenol	108-95-2			µg/kg	U		DCL	07-Mar-95	14-Mar-95	7.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Dodecane	112-40-3			µg/kg	U		DCL	07-Mar-95	14-Mar-95	180	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/kg	U		DCL	07-Mar-95	14-Mar-95	11	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/kg	U		DCL	07-Mar-95	14-Mar-95	68	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	2,4-Dichlorophenol	120-83-2			µg/kg	U		DCL	07-Mar-95	14-Mar-95	140	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Decane	124-18-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	67	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Tributyl phosphate	126-73-8			µg/kg	U		DCL	07-Mar-95	14-Mar-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Tetradecane	629-59-4			µg/kg	U		DCL	07-Mar-95	14-Mar-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Pentachlorophenol	87-86-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	50	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	2-Nitrophenol	88-75-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Naphthalene	91-20-3			µg/kg	U		DCL	07-Mar-95	14-Mar-95	4.7	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	Benzothiazole	95-16-9			µg/kg	U		DCL	07-Mar-95	14-Mar-95	12	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	B0CVF0	SOIL	ABN	2-Methylphenol	95-48-7			µg/kg	U		DCL	07-Mar-95	14-Mar-95	59	SEMI-VOLATILE ORGANIC BY GCMS 8270
17-Dec-94	240'	6	SOIL	VOCV	Methylenechloride	75-09-2	**		µg/kg			PNL1		28-Dec-94		VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	240'	6	SOIL	VOCV	trans-1,2-Dichloroethylene	156-60-5			µg/kg	U		PNL1		28-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	240'	6	SOIL	VOCV	1,1-Dichloroethane	75-34-3			µg/kg	U		PNL1		28-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	240'	6	SOIL	VOCV	cis-1,2-Dichloroethylene	156-59-2			µg/kg	U		PNL1		28-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO

See last page for explanation of qualifiers and lab comments.

**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
17-Dec-94	240'	6	SOIL	VOCV	Chloroform	67-66-3	22		µg/kg			PNL1		28-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	240'	6	SOIL	VOCV	1,1,1-Trichloroethane	71-55-6			µg/kg	U		PNL1		28-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	240'	6	SOIL	VOCV	Carbon tetrachloride	56-23-5			µg/kg	U		PNL1		28-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	240'	6	SOIL	VOCV	1,2-Dichloroethane	107-06-2			µg/kg	U		PNL1		28-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	240'	6	SOIL	VOCV	Benzene	71-43-2			µg/kg	U		PNL1		28-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	240'	6	SOIL	VOCV	Trichloroethylene	79-01-6			µg/kg	U		PNL1		28-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	240'	6	SOIL	VOCV	Toluene	108-88-3			µg/kg	U		PNL1		28-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	240'	6	SOIL	VOCV	Tetrachloroethylene	127-18-4			µg/kg	U		PNL1		28-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	240'	6	SOIL	VOCV	Ethylbenzene	100-41-4			µg/kg	U		PNL1		28-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	240'	6	SOIL	VOCV	Xylenes (total)	1330-20-7			µg/kg	U		PNL1		28-Dec-94	15	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
17-Dec-94	240'	B0CVF0	SOIL	AS	Arsenic	7440-38-2	530		µg/kg			DCL		13-Mar-95	140	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
17-Dec-94	240'	B0CVF0	SOIL	ICP	Magnesium	7439-95-4	4800000		µg/kg			DCL		23-Apr-95	3000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Nickel	7440-02-0	20000		µg/kg			DCL		23-Apr-95	1600	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Potassium	7440-09-7	310000		µg/kg			DCL		23-Apr-95	39000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Silver	7440-22-4			µg/kg	U		DCL		23-Apr-95	240	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Sodium	7440-23-5	140000		µg/kg			DCL		23-Apr-95	11000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Tin	7440-31-5			µg/kg	U		DCL		23-Apr-95	9500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Barium	7440-39-3	170000		µg/kg			DCL		23-Apr-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Beryllium	7440-41-7	290		µg/kg	L		DCL		23-Apr-95	43	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Cadmium	7440-43-9			µg/kg	U		DCL		23-Apr-95	410	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Cobalt	7440-48-4	6900		µg/kg			DCL		23-Apr-95	680	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Copper	7440-50-8	27000		µg/kg			DCL		23-Apr-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Vanadium	7440-62-2	54000		µg/kg			DCL		23-Apr-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Zinc	7440-66-6	38000		µg/kg			DCL		23-Apr-95	660	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Calcium	7440-70-2	6700000		µg/kg			DCL		23-Apr-95	4400	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Antimony	7440-36-0			µg/kg	U	MOL	DCL		23-Apr-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Chromium	7440-47-3	34000		µg/kg		MOL	DCL		23-Apr-95	740	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Aluminum	7429-90-5	10000000		µg/kg		MOL&XYZ	DCL		23-Apr-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Iron	7439-89-6	22000000		µg/kg		MOL&XYZ	DCL		23-Apr-95	940	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	ICP	Manganese	7439-96-5	410000		µg/kg		MOL&XYZ	DCL		23-Apr-95	260	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
17-Dec-94	240'	B0CVF0	SOIL	PB	Lead	7439-92-1	2200		µg/kg			DCL		13-Mar-95	200	LEAD BY ATOMIC ABSORPTION 7421
17-Dec-94	240'	B0CVF0	SOIL	ALPH	Gross alpha	14127-62-9	3.51		pCi/g			IT		09-Mar-95	6	GROSS ALPHA BY SW846 93-10
17-Dec-94	240'	B0CVF0	SOIL	BETA	Gross beta	12587-47-2	17.9		pCi/g			IT		10-Mar-95	3	GROSS BETA BY SW846 93-10
17-Dec-94	240'	B0CVF0	SOIL	GAMM	Cesium-137	10045-97-3	-0.00425		pCi/g			IT		08-Mar-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
17-Dec-94	240'	B0CVF0	SOIL	GAMM	Cobalt-60	10198-40-0	0.00824		pCi/g			IT		08-Mar-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
17-Dec-94	240'	B0CVF0	SOIL	GAMM	Ra-224	13233-32-4	0.651		pCi/g			IT		08-Mar-95		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
17-Dec-94	240'	B0CVF0	SOIL	GAMM	Ruthenium-106	13967-48-1	-0.123		pCi/g			IT		08-Mar-95	0.85	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
17-Dec-94	240'	B0CVF0	SOIL	GAMM	Ra-226	13982-63-3	0.526		pCi/g			IT		08-Mar-95		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
17-Dec-94	240'	B0CVF0	SOIL	GAMM	Antimony-125	14234-35-6	-0.0732		pCi/g			IT		08-Mar-95	0.25	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
19-Dec-94	240'	B09GH2	WATER	ABN	Unknown Ester			15	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	Unknown Ester			25	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	Unknown Ester			34	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	Unknown Oxyhydrocarbon			13	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	Caprolactam	105-60-2		55	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	4-Methylphenol	106-44-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	7	SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	m-Cresol	108-39-4			µg/L	XU		DCL	14-Jan-95	19-Jan-95	2.2	SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	Phenol	108-95-2			µg/L	U		DCL	14-Jan-95	19-Jan-95	0.54	SEMI-VOLATILE ORGANIC BY GCMS 8270

See last page for explanation of qualifiers and lab comments.

**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
19-Dec-94	240'	B09GH2	WATER	ABN	Dodecane	112-40-3			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/L	U		DCL	14-Jan-95	19-Jan-95	0.61	SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/L	U		DCL	14-Jan-95	19-Jan-95	5.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	2,4-Dichlorophenol	120-83-2			µg/L	U		DCL	14-Jan-95	19-Jan-95	4	SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	Decane	124-18-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	Tributyl phosphate	126-73-8			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	Tetradecane	629-59-4			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.6	SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	Pentachlorophenol	87-86-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	8.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	2-Nitrophenol	88-75-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	Naphthalene	91-20-3			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.2	SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	Benzothiazole	95-16-9			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	B09GH2	WATER	ABN	2-Methylphenol	95-48-7			µg/L	U		DCL	14-Jan-95	19-Jan-95	5.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
19-Dec-94	240'	13	WATER	VOCV	Methylenechloride	75-09-2	11		µg/L			PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
19-Dec-94	240'	13	WATER	VOCV	trans-1,2-Dichloroethylene	156-60-5			µg/L	U		PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
19-Dec-94	240'	13	WATER	VOCV	1,1-Dichloroethane	75-34-3			µg/L	U		PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
19-Dec-94	240'	13	WATER	VOCV	cis-1,2-Dichloroethylene	156-59-2			µg/L	U		PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
19-Dec-94	240'	13	WATER	VOCV	Chloroform	67-66-3	480		µg/L	D	1:10	PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
19-Dec-94	240'	13	WATER	VOCV	1,1,1-Trichloroethane	71-55-6			µg/L	U		PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
19-Dec-94	240'	13	WATER	VOCV	Carbon tetrachloride	56-23-5	1.6		µg/L			PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
19-Dec-94	240'	13	WATER	VOCV	1,2-Dichloroethane	107-06-2			µg/L	U		PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
19-Dec-94	240'	13	WATER	VOCV	Benzene	71-43-2	1		µg/L			PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
19-Dec-94	240'	13	WATER	VOCV	Trichloroethylene	79-01-6	1		µg/L			PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
19-Dec-94	240'	13	WATER	VOCV	Toluene	108-88-3			µg/L	U		PNL1		27-Dec-94	1	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
19-Dec-94	240'	13	WATER	VOCV	Tetrachloroethylene	127-18-4	2.3		µg/L			PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
19-Dec-94	240'	13	WATER	VOCV	Ethylbenzene	100-41-4			µg/L	U		PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
19-Dec-94	240'	13	WATER	VOCV	Xylenes (total)	1330-20-7			µg/L	U		PNL1		27-Dec-94	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
19-Dec-94	240'	13	WATER	VOCV	Acetone	67-64-1		17	µg/L	J		PNL1		27-Dec-94		VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
19-Dec-94	240'	B09GH2	WATER	AS	Arsenic	7440-38-2			µg/L	U		DCL		23-Jan-95	2.8	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
19-Dec-94	240'	B09GH2	WATER	ICP	Aluminum	7429-90-5	4800		µg/L			DCL		09-Feb-95	26	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Iron	7439-89-6	12000		µg/L	B		DCL		09-Feb-95	11	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Magnesium	7439-95-4	10000		µg/L			DCL		09-Feb-95	23	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Manganese	7439-96-5	260		µg/L			DCL		09-Feb-95	0.224882	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Nickel	7440-02-0			µg/L	U		DCL		09-Feb-95	13	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Potassium	7440-09-7	8000		µg/L			DCL		09-Feb-95	850	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Sodium	7440-23-5	33000		µg/L			DCL		09-Feb-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Tin	7440-31-5			µg/L	U		DCL		09-Feb-95	69	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Barium	7440-39-3	90		µg/L			DCL		09-Feb-95	0.59	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Beryllium	7440-41-7	0.76		µg/L	BL		DCL		09-Feb-95	0.17	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Cadmium	7440-43-9			µg/L	U		DCL		09-Feb-95	3.3	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Chromium	7440-47-3	36		µg/L			DCL		09-Feb-95	4.5	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Cobalt	7440-48-4			µg/L	U		DCL		09-Feb-95	5.9	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Copper	7440-50-8	5.1		µg/L	L		DCL		09-Feb-95	4.1	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Vanadium	7440-62-2	13		µg/L	L		DCL		09-Feb-95	6.6	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Zinc	7440-66-6	65		µg/L			DCL		09-Feb-95	6.3	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Calcium	7440-70-2	31000		µg/L			DCL		09-Feb-95	34	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Silver	7440-22-4			µg/L	U	MOL	DCL		09-Feb-95	3.6	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	ICP	Antimony	7440-36-0			µg/L	U	MOL	DCL		09-Feb-95	62	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
19-Dec-94	240'	B09GH2	WATER	PB	Lead	7439-92-1	4.6		µg/L	L		DCL		23-Jan-95	1.5	LEAD BY ATOMIC ABSORPTION 7421
19-Dec-94	240'	B09GH2	WATER	ALPH	Gross alpha	14127-62-9	0.505		pCi/L		RF	IT		24-Jan-95	4	GROSS ALPHA BY SW846 93-10

See last page for explanation of qualifiers and lab comments.
**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
19-Dec-94	240'	B09GH2	WATER	BETA	Gross beta	12587-47-2	5.85		pCi/L		RF	IT		24-Jan-95	8	GROSS BETA BY SW846 93-10
19-Dec-94	240'	B09GH2	WATER	GAMM	Cesium-137	10045-97-3	-3.99		pCi/L			IT		30-Jan-95	20	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
19-Dec-94	240'	B09GH2	WATER	GAMM	Cobalt-60	10198-40-0	-3.98		pCi/L			IT		30-Jan-95	23	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
19-Dec-94	240'	B09GH2	WATER	GAMM	Ruthenium-106	13967-48-1	-18.6		pCi/L			IT		30-Jan-95	173	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
19-Dec-94	240'	B09GH2	WATER	GAMM	Antimony-125	14234-35-6	-8.05		pCi/L			IT		30-Jan-95	47	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
03-Jan-95	250'	B09GH4	WATER	ABN	Alkane			80	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Branched Alkane			43	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	C8 alcohol			250	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Cyclic Oxyhydrocarbon			13	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Cyclic Oxyhydrocarbon			17	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Hexanedioic acid bis(2-ethy			29	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Unknown Acid			9	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Unknown Acid			9.4	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Unknown Acid			85	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Unknown Oxyhydrocarbon			13	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Unknown Oxyhydrocarbon			65	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Unknown cyclic compound			26	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Caprolactam	105-60-2		22	µg/L	J		DCL	14-Jan-95	19-Jan-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	4-Methylphenol	106-44-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	7	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	m-Cresol	108-39-4			µg/L	XU		DCL	14-Jan-95	19-Jan-95	2.2	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Phenol	108-95-2			µg/L	U		DCL	14-Jan-95	19-Jan-95	0.54	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Dodecane	112-40-3			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/L	U		DCL	14-Jan-95	19-Jan-95	0.61	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/L	U		DCL	14-Jan-95	19-Jan-95	5.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	2,4-Dichlorophenol	120-83-2			µg/L	U		DCL	14-Jan-95	19-Jan-95	4	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Decane	124-18-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Tributyl phosphate	126-73-8			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Tetradecane	629-59-4			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.6	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Pentachlorophenol	87-86-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	8.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	2-Nitrophenol	88-75-5			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Naphthalene	91-20-3			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.2	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	Benzothiazole	95-16-9			µg/L	U		DCL	14-Jan-95	19-Jan-95	1.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B09GH4	WATER	ABN	2-Methylphenol	95-48-7			µg/L	U		DCL	14-Jan-95	19-Jan-95	5.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	14	WATER	VOCV	Methylenechloride	75-09-2	14		µg/L			PNL1		12-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	14	WATER	VOCV	trans-1,2-Dichloroethylene	156-60-5			µg/L	U		PNL1		12-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	14	WATER	VOCV	1,1-Dichloroethane	75-34-3			µg/L	U		PNL1		12-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	14	WATER	VOCV	cis-1,2-Dichloroethylene	156-59-2			µg/L	U		PNL1		12-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	14	WATER	VOCV	Chloroform	67-66-3	221		µg/L	D	1:20	PNL1		12-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	14	WATER	VOCV	1,1,1-Trichloroethane	71-55-6			µg/L	U		PNL1		12-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	14	WATER	VOCV	Carbon tetrachloride	56-23-5	368		µg/L	D	1:20	PNL1		12-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	14	WATER	VOCV	1,2-Dichloroethane	107-06-2			µg/L	U		PNL1		12-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	14	WATER	VOCV	Benzene	71-43-2	2.8		µg/L			PNL1		12-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	14	WATER	VOCV	Trichloroethylene	79-01-6	1.2		µg/L			PNL1		12-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	14	WATER	VOCV	Toluene	108-88-3	5.6		µg/L	U		PNL1		12-Jan-95	1	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	14	WATER	VOCV	Tetrachloroethylene	127-18-4	2.3		µg/L			PNL1		12-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	14	WATER	VOCV	Ethylbenzene	100-41-4	0.5		µg/L			PNL1		12-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	14	WATER	VOCV	Xylenes (total)	1330-20-7			µg/L	U		PNL1		12-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	14	WATER	VOCV	Acetone	67-64-1		15	µg/L	J		PNL1		12-Jan-95		VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	B09GH4	WATER	AS	Arsenic	7440-38-2	3.2		µg/L	L		DCL		23-Jan-95	2.8	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION

See last page for explanation of qualifiers and lab comments.
**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
03-Jan-95	250'	B09GH4	WATER	ICP	Silver	7440-22-4			µg/L	U	MOL&XYZ	DCL		09-Feb-95	3.6	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Antimony	7440-36-0	150		µg/L	L	MOL&XYZ	DCL		09-Feb-95	62	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Aluminum	7429-90-5	690000		µg/L		XYZ	DCL		09-Feb-95	26	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Iron	7439-89-6	2100000		µg/L	B	XYZ	DCL		09-Feb-95	11	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Magnesium	7439-95-4	360000		µg/L		XYZ	DCL		09-Feb-95	23	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Manganese	7439-96-5	44000		µg/L		XYZ	DCL		09-Feb-95	0.224882	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Nickel	7440-02-0	1000		µg/L		XYZ	DCL		09-Feb-95	13	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Potassium	7440-09-7	80000		µg/L		XYZ	DCL		09-Feb-95	850	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Sodium	7440-23-5	90000		µg/L		XYZ	DCL		09-Feb-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Tin	7440-31-5	150		µg/L		XYZ	DCL		09-Feb-95	69	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Barium	7440-39-3	7300		µg/L		XYZ	DCL		09-Feb-95	0.59	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Beryllium	7440-41-7	21		µg/L	B	XYZ	DCL		09-Feb-95	0.17	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Cadmium	7440-43-9	8.8		µg/L	L	XYZ	DCL		09-Feb-95	3.3	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Chromium	7440-47-3	4800		µg/L		XYZ	DCL		09-Feb-95	4.5	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Cobalt	7440-48-4	620		µg/L		XYZ	DCL		09-Feb-95	5.9	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Copper	7440-50-8	1100		µg/L		XYZ	DCL		09-Feb-95	4.1	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Vanadium	7440-62-2	3000		µg/L		XYZ	DCL		09-Feb-95	6.6	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Zinc	7440-66-6	2700		µg/L		XYZ	DCL		09-Feb-95	6.3	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	ICP	Calcium	7440-70-2	910000		µg/L		XYZ	DCL		09-Feb-95	34	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B09GH4	WATER	PB	Lead	7439-92-1	190		µg/L			DCL		23-Jan-95	1.5	LEAD BY ATOMIC ABSORPTION 7421
03-Jan-95	250'	B09GH4	WATER	ALPH	Gross alpha	14127-62-9	5.89		pCi/L		RF	IT		26-Jan-95	4	GROSS ALPHA BY SW846 93-10
03-Jan-95	250'	B09GH4	WATER	BETA	Gross beta	12587-47-2	16.6		pCi/L		RF	IT		24-Jan-95	8	GROSS BETA BY SW846 93-10
03-Jan-95	250'	B09GH4	WATER	GAMM	Cesium-137	10045-97-3	2.25		pCi/L			IT		30-Jan-95	20	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
03-Jan-95	250'	B09GH4	WATER	GAMM	Cobalt-60	10198-40-0	1.3		pCi/L			IT		30-Jan-95	23	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
03-Jan-95	250'	B09GH4	WATER	GAMM	Ruthenium-106	13967-48-1	9.4		pCi/L			IT		30-Jan-95	173	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
03-Jan-95	250'	B09GH4	WATER	GAMM	Antimony-125	14234-35-6	1.75		pCi/L			IT		30-Jan-95	47	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
03-Jan-95	250'	B0CVF1	SOIL	ABN	Adipic acid ester			240	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Aldol Condensation Product			480	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Aldol Condensation Product			510	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Aldol Condensation Product			840	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Unk long chain hydrocarbon			200	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Unk long chain oxyhydrocarbo			300	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Unk long chain oxyhydrocarbo			1800	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Unknown Acid			280	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Unknown Acid			290	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Unknown Acid			310	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Unknown Acid			390	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Unknown Acid			430	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Unknown Acid			460	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Unknown Acid			1500	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Unknown Acid			2000	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Unknown Alkyl Phenol			200	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Unknown Brominated Comopound			320	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Unknown PNA			190	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	4-Methylphenol	106-44-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	m-Cresol	108-39-4			µg/kg	XU		DCL	07-Mar-95	14-Mar-95	48	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Phenol	108-95-2			µg/kg	U		DCL	07-Mar-95	14-Mar-95	7.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Dodecane	112-40-3			µg/kg	U		DCL	07-Mar-95	14-Mar-95	180	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/kg	U		DCL	07-Mar-95	14-Mar-95	11	SEMI-VOLATILE ORGANIC BY GCMS 8270

See last page for explanation of qualifiers and lab comments.

**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
03-Jan-95	250'	B0CVF1	SOIL	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/kg	U		DCL	07-Mar-95	14-Mar-95	68	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	2,4-Dichlorophenol	120-83-2			µg/kg	U		DCL	07-Mar-95	14-Mar-95	140	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Decane	124-18-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	67	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Tributyl phosphate	126-73-8			µg/kg	U		DCL	07-Mar-95	14-Mar-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Tetradecane	629-59-4			µg/kg	U		DCL	07-Mar-95	14-Mar-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Pentachlorophenol	87-86-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	50	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	2-Nitrophenol	88-75-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Naphthalene	91-20-3			µg/kg	U		DCL	07-Mar-95	14-Mar-95	4.7	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	Benzothiazole	95-16-9			µg/kg	U		DCL	07-Mar-95	14-Mar-95	12	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	B0CVF1	SOIL	ABN	2-Methylphenol	95-48-7			µg/kg	U		DCL	07-Mar-95	14-Mar-95	59	SEMI-VOLATILE ORGANIC BY GCMS 8270
03-Jan-95	250'	7	SOIL	VOCV	Methylenechloride	75-09-2	**		µg/kg			PNL1		12-Jan-95		VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	7	SOIL	VOCV	trans-1,2-Dichloroethylene	156-60-5			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	7	SOIL	VOCV	1,1-Dichloroethane	75-34-3			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	7	SOIL	VOCV	cis-1,2-Dichloroethylene	156-59-2			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	7	SOIL	VOCV	Chloroform	67-66-3		11	µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	7	SOIL	VOCV	1,1,1-Trichloroethane	71-55-6			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	7	SOIL	VOCV	Carbon tetrachloride	56-23-5			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	7	SOIL	VOCV	1,2-Dichloroethane	107-06-2			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	7	SOIL	VOCV	Benzene	71-43-2			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	7	SOIL	VOCV	Trichloroethylene	79-01-6			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	7	SOIL	VOCV	Toluene	108-88-3			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	7	SOIL	VOCV	Tetrachloroethylene	127-18-4			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	7	SOIL	VOCV	Ethylbenzene	100-41-4			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	7	SOIL	VOCV	Xylenes (total)	1330-20-7			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
03-Jan-95	250'	B0CVF1	SOIL	AS	Arsenic	7440-38-2	1000		µg/kg			DCL		13-Mar-95	140	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
03-Jan-95	250'	B0CVF1	SOIL	ICP	Magnesium	7439-95-4	3000000		µg/kg			DCL		23-Apr-95	3000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Nickel	7440-02-0	31000		µg/kg			DCL		23-Apr-95	1600	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Potassium	7440-09-7	730000		µg/kg			DCL		23-Apr-95	39000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Silver	7440-22-4			µg/kg	U		DCL		23-Apr-95	240	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Sodium	7440-23-5	400000		µg/kg			DCL		23-Apr-95	11000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Tin	7440-31-5			µg/kg	U		DCL		23-Apr-95	9500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Barium	7440-39-3	77000		µg/kg			DCL		23-Apr-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Beryllium	7440-41-7	170		µg/kg	L		DCL		23-Apr-95	43	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Cadmium	7440-43-9			µg/kg	U		DCL		23-Apr-95	410	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Cobalt	7440-48-4	5700		µg/kg			DCL		23-Apr-95	680	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Copper	7440-50-8	11000		µg/kg			DCL		23-Apr-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Vanadium	7440-62-2	38000		µg/kg			DCL		23-Apr-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Zinc	7440-66-6	26000		µg/kg			DCL		23-Apr-95	660	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Calcium	7440-70-2	10000000		µg/kg			DCL		23-Apr-95	4400	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Antimony	7440-36-0			µg/kg	U	MOL	DCL		23-Apr-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Chromium	7440-47-3	110000		µg/kg		MOL	DCL		23-Apr-95	740	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Aluminum	7429-90-5	6100000		µg/kg		MOL&XYZ	DCL		23-Apr-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Iron	7439-89-6	20000000		µg/kg		MOL&XYZ	DCL		23-Apr-95	940	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	ICP	Manganese	7439-96-5	460000		µg/kg		MOL&XYZ	DCL		23-Apr-95	260	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
03-Jan-95	250'	B0CVF1	SOIL	PB	Lead	7439-92-1	3300		µg/kg			DCL		13-Mar-95	200	LEAD BY ATOMIC ABSORPTION 7421
03-Jan-95	250'	B0CVF1	SOIL	ALPH	Gross alpha	14127-62-9	6.68		pCi/g			IT		09-Mar-95	6	GROSS ALPHA BY SW846 93-10
03-Jan-95	250'	B0CVF1	SOIL	BETA	Gross beta	12587-47-2	17.5		pCi/g			IT		10-Mar-95	3	GROSS BETA BY SW846 93-10
03-Jan-95	250'	B0CVF1	SOIL	GAMM	Cesium-137	10045-97-3	0.02		pCi/g			IT		08-Mar-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE

See last page for explanation of qualifiers and lab comments.
**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
03-Jan-95	250'	B0CVF1	SOIL	GAMM	Cobalt-60	10198-40-0	0.0404		pCi/g			IT		08-Mar-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
03-Jan-95	250'	B0CVF1	SOIL	GAMM	Ra-224	13233-32-4	0.656		pCi/g			IT		08-Mar-95		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
03-Jan-95	250'	B0CVF1	SOIL	GAMM	Ruthenium-106	13967-48-1	0.154		pCi/g			IT		08-Mar-95	0.85	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
03-Jan-95	250'	B0CVF1	SOIL	GAMM	Ra-226	13982-63-3	0.497		pCi/g			IT		08-Mar-95		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
03-Jan-95	250'	B0CVF1	SOIL	GAMM	Antimony-125	14234-35-6	0.0205		pCi/g			IT		08-Mar-95	0.25	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
04-Jan-95	260'	B0CVF2	SOIL	ABN	Aldol Condensation Product			260	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Aldol Condensation Product			400	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Aldol Condensation Product			470	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Aldol Condensation Product			760	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Alkane			180	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Unk long chain oxyhydrocarbo			400	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Unk long chain oxyhydrocarbo			1000	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Unknown Acid			170	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Unknown Acid			200	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Unknown Acid			230	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Unknown Acid			750	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Unknown Acid			1100	µg/kg	J		DCL	07-Mar-95	14-Mar-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	4-Methylphenol	106-44-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	m-Cresol	108-39-4			µg/kg	XU		DCL	07-Mar-95	14-Mar-95	48	SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Phenol	108-95-2			µg/kg	U		DCL	07-Mar-95	14-Mar-95	7.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Dodecane	112-40-3			µg/kg	U		DCL	07-Mar-95	14-Mar-95	180	SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/kg	U		DCL	07-Mar-95	14-Mar-95	11	SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/kg	U		DCL	07-Mar-95	14-Mar-95	68	SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	2,4-Dichlorophenol	120-83-2			µg/kg	U		DCL	07-Mar-95	14-Mar-95	140	SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Decane	124-18-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	67	SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Tributyl phosphate	126-73-8			µg/kg	U		DCL	07-Mar-95	14-Mar-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Tetradecane	629-59-4			µg/kg	U		DCL	07-Mar-95	14-Mar-95	35	SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Pentachlorophenol	87-86-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	50	SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	2-Nitrophenol	88-75-5			µg/kg	U		DCL	07-Mar-95	14-Mar-95	71	SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Naphthalene	91-20-3			µg/kg	U		DCL	07-Mar-95	14-Mar-95	4.7	SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	Benzothiazole	95-16-9			µg/kg	U		DCL	07-Mar-95	14-Mar-95	12	SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	B0CVF2	SOIL	ABN	2-Methylphenol	95-48-7			µg/kg	U		DCL	07-Mar-95	14-Mar-95	59	SEMI-VOLATILE ORGANIC BY GCMS 8270
04-Jan-95	260'	8	SOIL	VOCV	Methylenechloride	75-09-2	**		µg/kg			PNL1		12-Jan-95		VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	260'	8	SOIL	VOCV	trans-1,2-Dichloroethylene	156-60-5			µg/kg	U		PNL1		12-Jan-95	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	260'	8	SOIL	VOCV	1,1-Dichloroethane	75-34-3			µg/kg	U		PNL1		12-Jan-95	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	260'	8	SOIL	VOCV	cis-1,2-Dichloroethylene	156-59-2			µg/kg	U		PNL1		12-Jan-95	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	260'	8	SOIL	VOCV	Chloroform	67-66-3	65		µg/kg			PNL1		12-Jan-95	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	260'	8	SOIL	VOCV	1,1,1-Trichloroethane	71-55-6			µg/kg	U		PNL1		12-Jan-95	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	260'	8	SOIL	VOCV	Carbon tetrachloride	56-23-5		4	µg/kg	U		PNL1		12-Jan-95	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	260'	8	SOIL	VOCV	1,2-Dichloroethane	107-06-2			µg/kg	U		PNL1		12-Jan-95	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	260'	8	SOIL	VOCV	Benzene	71-43-2			µg/kg	U		PNL1		12-Jan-95	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	260'	8	SOIL	VOCV	Trichloroethylene	79-01-6			µg/kg	U		PNL1		12-Jan-95	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	260'	8	SOIL	VOCV	Toluene	108-88-3			µg/kg	U		PNL1		12-Jan-95	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	260'	8	SOIL	VOCV	Tetrachloroethylene	127-18-4			µg/kg	U		PNL1		12-Jan-95	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	260'	8	SOIL	VOCV	Ethylbenzene	100-41-4			µg/kg	U		PNL1		12-Jan-95	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	260'	8	SOIL	VOCV	Xylenes (total)	1330-20-7			µg/kg	U		PNL1		12-Jan-95	10	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	260'	B0CVF2	SOIL	AS	Arsenic	7440-38-2	560		µg/kg			DCL		13-Mar-95	140	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
04-Jan-95	260'	B0CVF2	SOIL	ICP	Magnesium	7439-95-4	3600000		µg/kg			DCL		23-Apr-95	3000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Nickel	7440-02-0	19000		µg/kg			DCL		23-Apr-95	1600	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Potassium	7440-09-7	810000		µg/kg			DCL		23-Apr-95	39000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010

See last page for explanation of qualifiers and lab comments.
**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
04-Jan-95	260'	B0CVF2	SOIL	ICP	Silver	7440-22-4			µg/kg	U		DCL		23-Apr-95	240	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Sodium	7440-23-5	510000		µg/kg			DCL		23-Apr-95	11000	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Tin	7440-31-5			µg/kg	U		DCL		23-Apr-95	9500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Barium	7440-39-3	54000		µg/kg			DCL		23-Apr-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Beryllium	7440-41-7	230		µg/kg	L		DCL		23-Apr-95	43	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Cadmium	7440-43-9			µg/kg	U		DCL		23-Apr-95	410	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Cobalt	7440-48-4	5700		µg/kg			DCL		23-Apr-95	680	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Copper	7440-50-8	12000		µg/kg			DCL		23-Apr-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Vanadium	7440-62-2	37000		µg/kg			DCL		23-Apr-95	490	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Zinc	7440-66-6	35000		µg/kg			DCL		23-Apr-95	660	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Calcium	7440-70-2	9700000		µg/kg			DCL		23-Apr-95	4400	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Antimony	7440-36-0			µg/kg	U	MOL	DCL		23-Apr-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Chromium	7440-47-3	74000		µg/kg		MOL	DCL		23-Apr-95	740	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Aluminum	7429-90-5	7500000		µg/kg		MOL&XYZ	DCL		23-Apr-95	3500	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Iron	7439-89-6	17000000		µg/kg		MOL&XYZ	DCL		23-Apr-95	940	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	ICP	Manganese	7439-96-5	350000		µg/kg		MOL&XYZ	DCL		23-Apr-95	260	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
04-Jan-95	260'	B0CVF2	SOIL	PB	Lead	7439-92-1	2700		µg/kg			DCL		13-Mar-95	200	LEAD BY ATOMIC ABSORPTION 7421
04-Jan-95	260'	B0CVF2	SOIL	ALPH	Gross alpha	14127-62-9	6.21		pCi/g			IT		09-Mar-95	6	GROSS ALPHA BY SW846 93-10
04-Jan-95	260'	B0CVF2	SOIL	BETA	Gross beta	12587-47-2	15.3		pCi/g			IT		10-Mar-95	3	GROSS BETA BY SW846 93-10
04-Jan-95	260'	B0CVF2	SOIL	GAMM	Cesium-137	10045-97-3	0.0275		pCi/g			IT		08-Mar-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
04-Jan-95	260'	B0CVF2	SOIL	GAMM	Cobalt-60	10198-40-0	0.0528		pCi/g			IT		08-Mar-95	0.1	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
04-Jan-95	260'	B0CVF2	SOIL	GAMM	Ra-224	13233-32-4	0.591		pCi/g			IT		08-Mar-95		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
04-Jan-95	260'	B0CVF2	SOIL	GAMM	Ruthenium-106	13967-48-1	-0.38		pCi/g			IT		08-Mar-95	0.85	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
04-Jan-95	260'	B0CVF2	SOIL	GAMM	Ra-226	13982-63-3	0.446		pCi/g			IT		08-Mar-95		GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
04-Jan-95	260'	B0CVF2	SOIL	GAMM	Antimony-125	14234-35-6	0.0391		pCi/g			IT		08-Mar-95	0.25	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
04-Jan-95	270'	9	SOIL	VOCV	Methylenechloride	75-09-2	**		µg/kg			PNL1		12-Jan-95		VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	270'	9	SOIL	VOCV	trans-1,2-Dichloroethylene	156-60-5			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	270'	9	SOIL	VOCV	1,1-Dichloroethane	75-34-3			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	270'	9	SOIL	VOCV	cis-1,2-Dichloroethylene	156-59-2			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	270'	9	SOIL	VOCV	Chloroform	67-66-3			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	270'	9	SOIL	VOCV	1,1,1-Trichloroethane	71-55-6			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	270'	9	SOIL	VOCV	Carbon tetrachloride	56-23-5	186		µg/kg			PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	270'	9	SOIL	VOCV	1,2-Dichloroethane	107-06-2			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	270'	9	SOIL	VOCV	Benzene	71-43-2			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	270'	9	SOIL	VOCV	Trichloroethylene	79-01-6			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	270'	9	SOIL	VOCV	Toluene	108-88-3			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	270'	9	SOIL	VOCV	Tetrachloroethylene	127-18-4			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	270'	9	SOIL	VOCV	Ethylbenzene	100-41-4			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
04-Jan-95	270'	9	SOIL	VOCV	Xylenes (total)	1330-20-7			µg/kg	U		PNL1		12-Jan-95	20	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
05-Jan-95	270'	B09GH6	WATER	VOGC	Ethylbenzene	100-41-4	0.25		µg/L	L	SCPW	DCL		16-Feb-95	0.051	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	VOGC	1,4-Dichlorobenzene	106-46-7			µg/L	U	SCPW	DCL		16-Feb-95	0.055	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	VOGC	1,2-Dichloroethane	107-06-2			µg/L	U	SCPW	DCL		16-Feb-95	0.029	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	VOGC	Toluene	108-88-3	0.39		µg/L	L	SCPW	DCL		16-Feb-95	0.016	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	VOGC	Tetrachloroethene	127-18-4	0.71		µg/L		SCPW	DCL		16-Feb-95	0.22	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	VOGC	Xylenes (total)	1330-20-7	3.7		µg/L	L	SCPW	DCL		16-Feb-95	0.035	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	VOGC	cis-1,2-Dichloroethylene	156-59-2			µg/L	U	SCPW	DCL		16-Feb-95	0.11	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	VOGC	trans-1,2-Dichloroethylene	156-60-5			µg/L	U	SCPW	DCL		16-Feb-95	0.073	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	VOGC	Carbon tetrachloride	56-23-5	8.9		µg/L		SCPW	DCL		16-Feb-95	0.075	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	VOGC	Chloroform	67-66-3	660		µg/L	D	SCPW	DCL		16-Feb-95	0.041	VOLATILE ORGANIC BY GC 8010/8020

See last page for explanation of qualifiers and lab comments.
**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
05-Jan-95	270'	B09GH6	WATER	VOGC	Benzene	71-43-2	0.7		µg/L	L	SCPW	DCL		16-Feb-95	0.013	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	VOGC	1,1,1-Trichloroethane	71-55-6			µg/L	U	SCPW	DCL		16-Feb-95	0.036	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	VOGC	Vinyl chloride	75-01-4			µg/L	U	SCPW	DCL		16-Feb-95	0.13	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	VOGC	Methylenechloride	75-09-2	12		µg/L		SCPW	DCL		16-Feb-95	0.09	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	VOGC	1,1-Dichloroethane	75-34-3			µg/L	U	SCPW	DCL		16-Feb-95	0.058	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	VOGC	1,1,2-Trichloroethane	79-00-5			µg/L	U	SCPW	DCL		16-Feb-95	0.078	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	VOGC	Trichloroethene	79-01-6	1.4		µg/L		SCPW	DCL		16-Feb-95	0.11	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95	270'	B09GH6	WATER	ABN	Unknown Cylic Compound			19	µg/L	J		DCL	13-Feb-95	20-Feb-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	Unknown Oxyhydrocarbon			8.9	µg/L	J		DCL	13-Feb-95	20-Feb-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	Unknown nitrogen compound			33	µg/L	J		DCL	13-Feb-95	20-Feb-95		SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	4-Methylphenol	106-44-5			µg/L	U	SOL	DCL	13-Feb-95	20-Feb-95	7	SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	m-Cresol	108-39-4			µg/L	XU	SOL	DCL	13-Feb-95	20-Feb-95	2.2	SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	Phenol	108-95-2			µg/L	U	SOL	DCL	13-Feb-95	20-Feb-95	0.54	SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	Dodecane	112-40-3			µg/L	U	SOL	DCL	13-Feb-95	20-Feb-95	1.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	Tris-2-chloroethyl phosphate	115-96-8			µg/L	U	SOL	DCL	13-Feb-95	20-Feb-95	0.61	SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	Bis(2-ethylhexyl) phthalate	117-81-7			µg/L	U	SOL	DCL	13-Feb-95	20-Feb-95	5.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	2,4-Dichlorophenol	120-83-2			µg/L	U	SOL	DCL	13-Feb-95	20-Feb-95	4	SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	Decane	124-18-5			µg/L	U	SOL	DCL	13-Feb-95	20-Feb-95	1.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	Tributyl phosphate	126-73-8			µg/L	U	SOL	DCL	13-Feb-95	20-Feb-95	1.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	Tetradecane	629-59-4			µg/L	U	SOL	DCL	13-Feb-95	20-Feb-95	1.6	SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	Pentachlorophenol	87-86-5			µg/L	U	SOL	DCL	13-Feb-95	20-Feb-95	8.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	2-Nitrophenol	88-75-5			µg/L	U	SOL	DCL	13-Feb-95	20-Feb-95	1.9	SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	Naphthalene	91-20-3			µg/L	U	SOL	DCL	13-Feb-95	20-Feb-95	1.2	SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	Benzothiazole	95-16-9			µg/L	U	SOL	DCL	13-Feb-95	20-Feb-95	1.3	SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	B09GH6	WATER	ABN	2-Methylphenol	95-48-7			µg/L	U	SOL	DCL	13-Feb-95	20-Feb-95	5.1	SEMI-VOLATILE ORGANIC BY GCMS 8270
05-Jan-95	270'	15	WATER	VOCV	Methylenechloride	75-09-2	7.8		µg/L			PNL1		13-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
05-Jan-95	270'	15	WATER	VOCV	trans-1,2-Dichloroethylene	156-60-5			µg/L	U		PNL1		13-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
05-Jan-95	270'	15	WATER	VOCV	1,1-Dichloroethane	75-34-3			µg/L	U		PNL1		13-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
05-Jan-95	270'	15	WATER	VOCV	cis-1,2-Dichloroethylene	156-59-2			µg/L	U		PNL1		13-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
05-Jan-95	270'	15	WATER	VOCV	Chloroform	67-66-3	504		µg/L	D	1:50	PNL1		13-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
05-Jan-95	270'	15	WATER	VOCV	1,1,1-Trichloroethane	71-55-6			µg/L	U		PNL1		13-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
05-Jan-95	270'	15	WATER	VOCV	Carbon tetrachloride	56-23-5	3.4		µg/L			PNL1		13-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
05-Jan-95	270'	15	WATER	VOCV	1,2-Dichloroethane	107-06-2			µg/L	U		PNL1		13-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
05-Jan-95	270'	15	WATER	VOCV	Benzene	71-43-2	1.2		µg/L			PNL1		13-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
05-Jan-95	270'	15	WATER	VOCV	Trichloroethylene	79-01-6	1.3		µg/L			PNL1		13-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
05-Jan-95	270'	15	WATER	VOCV	Toluene	108-88-3	1		µg/L			PNL1		13-Jan-95	1	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
05-Jan-95	270'	15	WATER	VOCV	Tetrachloroethylene	127-18-4	1		µg/L			PNL1		13-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
05-Jan-95	270'	15	WATER	VOCV	Ethylbenzene	100-41-4			µg/L	U		PNL1		13-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
05-Jan-95	270'	15	WATER	VOCV	Xylenes (total)	1330-20-7			µg/L	U		PNL1		13-Jan-95	0.5	VOLATILE ORGANIC GC CAPILLARY COLUMN ELECTRO
05-Jan-95	270'	B09GH6	WATER	ALK3	Alkalinity	ALKALINITY	90		mg/L			DCL		16-Feb-95	2.8	ALKALINITY BY METHOD 310.2
05-Jan-95	270'	B09GH6	WATER	AS	Arsenic	7440-38-2			µg/L	U		DCL		20-Feb-95	2.8	ARSENIC 7060 ARSENIC BY ATOMIC ABSORPTION
05-Jan-95	270'	B09GH6	WATER	ICP	Aluminum	7429-90-5	150000		µg/L	B		DCL		28-Feb-95	26	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Iron	7439-89-6	440000		µg/L			DCL		28-Feb-95	11	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Magnesium	7439-95-4	80000		µg/L			DCL		28-Feb-95	23	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Manganese	7439-96-5	11000		µg/L			DCL		28-Feb-95	0.224882	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Nickel	7440-02-0	250		µg/L			DCL		28-Feb-95	13	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Potassium	7440-09-7	25000		µg/L			DCL		28-Feb-95	850	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Sodium	7440-23-5	40000		µg/L	B		DCL		28-Feb-95	61	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Tin	7440-31-5			µg/L	U		DCL		28-Feb-95	69	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Antimony	7440-36-0			µg/L	U		DCL		28-Feb-95	62	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010

See last page for explanation of qualifiers and lab comments.

**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION
05-Jan-95	270'	B09GH6	WATER	ICP	Barium	7440-39-3	1700		µg/L			DCL		28-Feb-95	0.59	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Beryllium	7440-41-7	5.8		µg/L			DCL		28-Feb-95	0.17	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Cadmium	7440-43-9			µg/L	U		DCL		28-Feb-95	3.3	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Chromium	7440-47-3	1400		µg/L			DCL		28-Feb-95	4.5	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Cobalt	7440-48-4	130		µg/L			DCL		28-Feb-95	5.9	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Copper	7440-50-8	250		µg/L			DCL		28-Feb-95	4.1	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Vanadium	7440-62-2	630		µg/L			DCL		28-Feb-95	6.6	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Zinc	7440-66-6	610		µg/L			DCL		28-Feb-95	6.3	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Calcium	7440-70-2	220000		µg/L			DCL		28-Feb-95	34	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	ICP	Silver	7440-22-4			µg/L	U	MOL	DCL		28-Feb-95	3.6	METALS BY ATOMIC EMISSION SPECTROSCOPY 6010
05-Jan-95	270'	B09GH6	WATER	IONS	Phosphate	14265-44-2			µg/L	U		DCL		09-Feb-95	82	IONS CHROMATOGRAPHY D4327-88 VOLUME 11.01 199
05-Jan-95	270'	B09GH6	WATER	IONS	Nitrite	14797-65-0			µg/L	U		DCL		09-Feb-95	18	IONS CHROMATOGRAPHY D4327-88 VOLUME 11.01 199
05-Jan-95	270'	B09GH6	WATER	IONS	Fluoride	16984-48-8	1000		µg/L		EC	DCL		09-Feb-95	36	IONS CHROMATOGRAPHY D4327-88 VOLUME 11.01 199
05-Jan-95	270'	B09GH6	WATER	IONS	Chloride	12595-89-0	27000		µg/L	D	MOL	DCL		09-Feb-95	14	IONS CHROMATOGRAPHY D4327-88 VOLUME 11.01 199
05-Jan-95	270'	B09GH6	WATER	IONS	Nitrate	14797-55-8	30		µg/L	L	MOL	DCL		09-Feb-95	11	IONS CHROMATOGRAPHY D4327-88 VOLUME 11.01 199
05-Jan-95	270'	B09GH6	WATER	IONS	Sulfate	14808-79-8	40000		µg/L	D	MOL	DCL		09-Feb-95	37	IONS CHROMATOGRAPHY D4327-88 VOLUME 11.01 199
05-Jan-95	270'	B09GH6	WATER	IONS	Bromide	24959-67-9	90		µg/L	L	MOL	DCL		09-Feb-95	11	IONS CHROMATOGRAPHY D4327-88 VOLUME 11.01 199
05-Jan-95	270'	B09GH6	WATER	PB	Lead	7439-92-1	110		µg/L		MOL&XYZ	DCL		21-Feb-95	1.5	LEAD BY ATOMIC ABSORPTION 7421
05-Jan-95	270'	B09GH6	WATER	TDS	Total dissolved solids	TDS	220		mg/L			DCL		14-Feb-95		TOTAL DISSOLVED SOLIDS SM 209B
05-Jan-95	270'	B09GH6	WATER	TOC	Total organic carbon	TOC	3000		µg/L			DCL		13-Feb-95	110	TOTAL ORGANIC CARBON 9060
05-Jan-95	270'	B09GH6	WATER	ALPH	Gross alpha	14127-62-9	-0.432		pCi/L			IT		16-Feb-95	4	GROSS ALPHA BY SW846 93-10
05-Jan-95	270'	B09GH6	WATER	BETA	Gross beta	12587-47-2	12.1		pCi/L			IT		16-Feb-95	8	GROSS BETA BY SW846 93-10
05-Jan-95	270'	B09GH6	WATER	GAMM	Cesium-137	10045-97-3	6.61		pCi/L			IT		22-Feb-95	20	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
05-Jan-95	270'	B09GH6	WATER	GAMM	Cobalt-60	10198-40-0	-5.62		pCi/L			IT		22-Feb-95	23	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
05-Jan-95	270'	B09GH6	WATER	GAMM	Ruthenium-106	13967-48-1	-13.3		pCi/L			IT		22-Feb-95	173	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
05-Jan-95	270'	B09GH6	WATER	GAMM	Antimony-125	14234-35-6	2.16		pCi/L			IT		22-Feb-95	47	GAMMA SCAN BY IT (LAB) IN HOUSE PROCEDURE
05-Jan-95		B09GH8	WATER	VOGC	Ethylbenzene	100-41-4			µg/L	U		DCL		16-Feb-95	0.051	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	1,4-Dichlorobenzene	106-46-7			µg/L	U		DCL		16-Feb-95	0.055	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	1,2-Dichloroethane	107-06-2			µg/L	U		DCL		16-Feb-95	0.029	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	Toluene	108-88-3			µg/L	U		DCL		16-Feb-95	0.016	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	Tetrachloroethene	127-18-4			µg/L	U		DCL		16-Feb-95	0.22	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	Xylenes (total)	1330-20-7			µg/L	U		DCL		16-Feb-95	0.035	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	cis-1,2-Dichloroethylene	156-59-2			µg/L	U		DCL		16-Feb-95	0.11	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	trans-1,2-Dichloroethylene	156-60-5			µg/L	U		DCL		16-Feb-95	0.073	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	Carbon tetrachloride	56-23-5			µg/L	U		DCL		16-Feb-95	0.075	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	Chloroform	67-66-3			µg/L	U		DCL		16-Feb-95	0.041	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	Benzene	71-43-2			µg/L	U		DCL		16-Feb-95	0.013	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	1,1,1-Trichloroethane	71-55-6			µg/L	U		DCL		16-Feb-95	0.036	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	Vinyl chloride	75-01-4			µg/L	U		DCL		16-Feb-95	0.13	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	Methylenechloride	75-09-2			µg/L	U		DCL		16-Feb-95	0.09	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	1,1-Dichloroethane	75-34-3			µg/L	U		DCL		16-Feb-95	0.058	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	1,1,2-Trichloroethane	79-00-5			µg/L	U		DCL		16-Feb-95	0.078	VOLATILE ORGANIC BY GC 8010/8020
05-Jan-95		B09GH8	WATER	VOGC	Trichloroethene	79-01-6			µg/L	U		DCL		16-Feb-95	0.11	VOLATILE ORGANIC BY GC 8010/8020

Qualifiers A: Identifies a TIC as a suspected aldol-condensation product

See last page for explanation of qualifiers and lab comments.

**=impurities in methanol

IN-WELL VAPOR STRIPPING FOR 299-W15-25

COLLECT DATE	DEPTH	SAMPLE#	MATRIX	METHOD	COMPOUND	CAS#	RESULTS	EST CONCEN TRATION	UNITS	QUAL	LAB COMMENTS	LAB	EXTRACT DATE	ANALYSIS DATE	MDL	DESCRIPTION

B: Analyte is found in the associated blank
J: Indicates an estimated value for tentatively identified compounds
L: Analytical result is below the CRQL and at or greater than the MDL
U: Indicates compound was analyzed for but not detected
X: m-cresol coelutes with p-cresol and cannot be separated

Comments
CNF: Container not full.
C-: Confirmatory analysis performed for a "DD" comment. Reported analysis not confirmed.
DD: Sample result and duplicate result have a relative percent difference greater than 20%.
EC: Esitmated Concentration.
MOL: Matrix Spike or Duplicate Matrix Spike out of limits
RF: Required Filtration.

Laboratories:
DCL-DataChem Laboratories, Salt Lake City, UT
IT - International Technology, Inc., Richland, WA
PNL1 - Battelle Pacific Northwest Laboratories, Richland, WA

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**=impurities in methanol